

Computational design of superstable proteins through maximized hydrogen bonding

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Bin Zheng^{1,3}, Zhuojian Lu^{1,3}, Shangchen Wang^{1,3}, Lichao Liu^{1,3}, Mingjun Ao^{1,3}, Yurui Zhou², Guojing Tang¹, Ruishi Wang¹, Yuanhao Liu¹, Hantian Zhang¹, Yinying Meng¹, Jun Qiu¹, Tianfu Feng¹, Ziyi Wang¹, Renming Liu¹, Yuelong Xiao¹, Yutong Liu¹, Ziling Wang², Yifen Huang¹, Yajun Jiang² & Peng Zheng¹✉

Hydrogen bonds are fundamental chemical interactions that stabilize protein structures, particularly in β sheets, enabling resistance to mechanical stress and environmental extremes. Here, inspired by natural mechanostable proteins with shearing hydrogen bonds, such as titin and silk fibroin, we de novo designed superstable proteins by maximizing hydrogen-bond networks within force-bearing β strands. Using a computational framework combining artificial intelligence-guided structure and sequence design with all-atom molecular dynamics MD simulations, we systematically expanded protein architecture, increasing the number of backbone hydrogen bonds from 4 to 33. The resulting proteins exhibited unfolding forces exceeding 1,000 pN, about 400% stronger than the natural titin immunoglobulin domain, and retained structural integrity after exposure to 150 °C. This molecular-level stability translated directly to macroscopic properties, as demonstrated by the formation of thermally stable hydrogels. Our work introduces a scalable and efficient computational strategy for engineering robust proteins, offering a generalizable approach for the rational design of resilient protein systems for extreme environments.

Hydrogen bonds are fundamental to biomolecular structure, particularly in β sheets, where their collective strength enables proteins to withstand severe mechanical and environmental stress. Nature has evolved a variety of mechanostable proteins—for example, the titin immunoglobulin (Ig) domains, silk fibroin, spider silk β sheets and bacterial adhesion complexes, all of which exploit extensive hydrogen-bond networks within their β -sheet architectures to provide extraordinary stability under stress^{1–10}. Among these, the titin Ig

domain serves as a classic model: it resists hundreds of piconewtons in dynamic force assays by applying force in a shearing force-loading geometry across β strands (Fig. 1a,b)^{11–17}. In this configuration, cooperative hydrogen bonds rupture simultaneously, yielding much greater mechanical resistance than the unzipping geometry, where bonds are broken sequentially and forces are much lower (Fig. 1b). Indeed, proteins or complexes known to exhibit extreme mechanical strength, including SdrG–Fg β and spider silk β sheets, achieve this via shearing of

¹Nanjing Drum Tower Hospital, Affiliated Hospital of Medical School, State Key Laboratory of Coordination Chemistry, Chemistry and Biomedicine Innovation Center (ChemBIC), School of Chemistry and Chemical Engineering, Frontier Interdisciplinary Science Research Center, Nanjing University, Nanjing, China. ²State Key Laboratory of Pharmaceutical Biotechnology, Chemistry and Biomedicine Innovation Center (ChemBIC), School of Life Sciences, Nanjing University, Nanjing, China. ³These authors contributed equally: Bin Zheng, Zhuojian Lu, Shangchen Wang, Lichao Liu, Mingjun Ao.

✉e-mail: pengz@nju.edu.cn

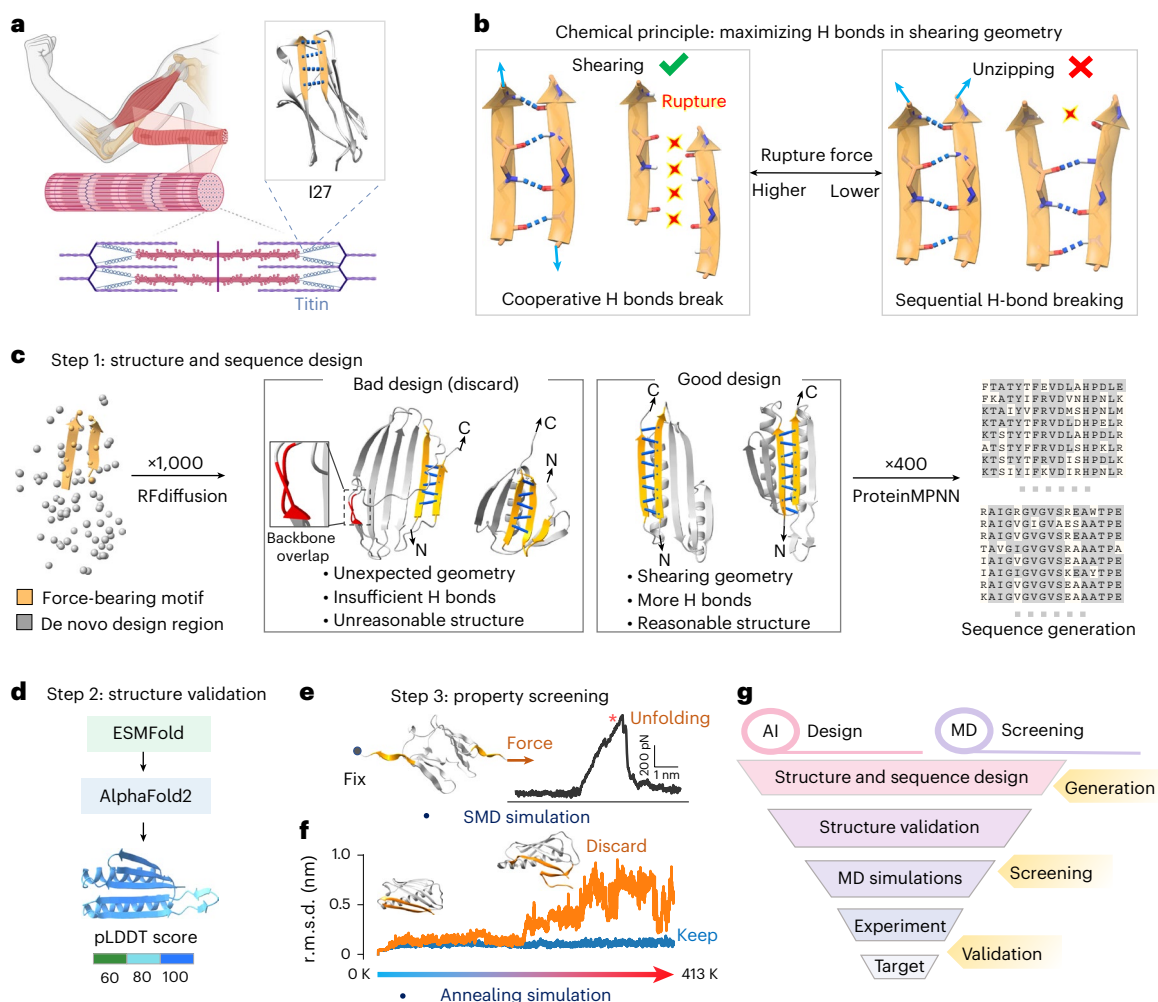


Fig. 1 | Design of SuperMyo protein with elongated force-bearing β strands combining AI tools and MD simulations. **a**, Schematic of human muscle composition, highlighting the Ig-like domain repeats as major components of the sarcomere. Inset: the structure of the I27 domain, where four main-chain hydrogen bonds (dashed lines) form within the force-bearing β strands (in yellow). **b**, Schematic showing the mechanical unfolding mechanisms of protein structures. **c**, AI-based protein design: starting from a force-bearing motif (yellow), RFdiffusion generates diverse structural extensions (grey). These structures are then manually filtered for desired mechanical properties, specifically selecting for shearing geometry and a high density

of hydrogen bonds. The sequence for the optimal backbone is then designed using ProteinMPNN. **d**, Structure prediction: sequences are first subjected to large-scale structure prediction and pLDDT ranking using ESMFold, and further evaluated using AF2 (pLDDT >90). **e,f**, MD simulation screening: protein candidates are screened using SMD (**e**) and annealing simulations (**f**) to identify those with high unfolding forces and excellent thermal stability. **f**, r.m.s.d. analysis from the annealing simulations reveals the stability of the protein structure during the temperature increases from 0 K to 413 K. **g**, Summary of the AI + MD workflow for protein design. Part **a** created with BioRender.com.

β -sheet hydrogen bonds, underscoring the central importance of force application geometry in enabling pronounced mechanical resilience. While the principle of hydrogen bonding in a shearing force-loading geometry responsible for high mechanical stability is well established and demonstrated in nature, systematically applying this principle to engineer synthetic proteins with nanonewton-scale stability has remained a substantial challenge.

Classic protein engineering strategies, such as point mutations or cofactor binding, typically yield modest increases in mechanical stability (~ 100 pN), a limited but notable improvement^{18–22}. Fortunately, the emergence of artificial intelligence (AI)-driven models has transformed protein design, enabling precise structural modifications that were previously unattainable^{23–28}. These new tools enable the entire design-and-validation pipeline to be performed in silico: models such as RFdiffusion generate novel backbones, and algorithms such as ProteinMPNN design sequences expected to fold into these structures, followed by high-accuracy structure prediction using AlphaFold2. This suite of tools allows for the rapid exploration of the

vast sequence-structure landscape, accelerating the design of proteins with optimized architectures^{29–34}.

Complementing these design advances, classic molecular dynamics (MD) simulations provide a powerful platform for evaluating protein stability. Techniques such as steered molecular dynamics (SMD) and annealing molecular dynamics (AMD) simulations enable rational screening of candidate proteins^{35–41}. By integrating generative AI-based design and structure models with MD simulations, we established a high-throughput computational pipeline to systematically apply the hydrogen-bond maximization principle on an unprecedented scale.

Using a titin-derived scaffold, we de novo designed a series of proteins (SuperMyo) with progressively extended force-bearing β strands. Our experimental validation revealed a linear increase in unfolding forces with the number of backbone hydrogen bonds, culminating in designs that reach the nanonewton regime. These proteins can serve as building blocks for assembling hyperthermally stable hydrogels that remained intact after autoclaving, demonstrating that molecular-level enhancements effectively translated to macroscopic

material performance. Together, we establish a generalizable and scalable strategy for engineering superstable proteins and introduce a framework for constructing resilient biomolecular materials designed to operate under extreme environmental conditions.

Results

Computational design workflow for engineering superstable proteins with elongated β strands

To design proteins with enhanced mechanical and thermal stability, we selected the human titin I27 domain (I27, the 27th immunoglobulin domain) as our template. Decades of research have shown that I27 resists unfolding primarily through its two terminal β strands^{42,43}, which form four main-chain hydrogen bonds. In dynamic force spectroscopy experiments at rapid pulling speeds of $1,000 \text{ nm s}^{-1}$, this structure generates a characteristic unfolding force of $\sim 200 \text{ pN}$ under applied shear^{44–46}. To improve its stability, we used a three-step AI-driven approach integrated with MD simulations to systematically elongate its force-bearing β strands (Fig. 1c–g):

Structure and sequence generation. Our objective was to design proteins with elongated β strands, incorporating additional hydrogen bonds to enhance stability. We initially extracted the two force-bearing β strands from I27 and used them as input motifs for RFdiffusion to generate protein backbones scaffolded around these β strands (Fig. 1c, left)³¹. RFdiffusion, a diffusion-based generative model for de novo protein backbone design, operates by iteratively denoising random noise into coherent protein folds while conditioning on specified structural motifs, thereby enabling the creation of diverse topologies that integrate the input β strands. This process generated 1,000 diverse protein structures, some of which successfully contained elongated β strands. To refine the initial design pool, approximately half of the generated structures were classified as ‘bad designs’ and discarded because they displayed inadequate strand elongation, unsatisfactory force-loading geometries, backbone entanglements or atomic clashes (Fig. 1c, middle). The remaining rational designs, which exhibited appropriate shearing force-loading geometry and the capacity for enhanced hydrogen bonding, were then subjected to inverse folding using ProteinMPNN³². ProteinMPNN, a graph neural network trained on protein structures, predicts amino acid sequences likely to fold into a given backbone by modelling residue interactions and optimizing for foldability, yielding 400 sequences per structure, each expected to fold into the corresponding target conformation (Fig. 1c, right).

Structure prediction. The generated sequences were then subjected to structure prediction using AF2 and ESMFold (Fig. 1d). Given the large number of sequences ($\sim 200,000$) that required prediction, we initially used ESMFold for its faster prediction capabilities, further accelerated through parallel computing. All predicted structures were ranked according to the pLDDT (predicted local distance difference test) score generated by ESMFold³⁰. The top 1,000 structures were then repredicted using AF2^{29,47}. We further filtered these candidates based on their root-mean-square deviation (r.m.s.d.) from the RFdiffusion-designed backbone structures, excluding those with an r.m.s.d. exceeding 0.2 nm , while also using the pLDDT scores generated by AF2 as a ranking criterion (Supplementary Fig. 1a). This dual-model approach balanced the need for both speed and accuracy in the structure prediction process.

Screening of physical properties. The top 200 protein candidates were screened for physical properties using MD simulations (Supplementary Fig. 1a)^{37,48}. First, SMD simulations were conducted to identify proteins with high unfolding forces^{42,49–52}. Three fast-pulling simulations (1 nm ns^{-1}) were performed to rapidly screen all 200 candidates (Fig. 1e). Based on their unfolding forces, the top 40 designs underwent further, slower-speed SMD simulations (0.1 nm ns^{-1}) to

identify the most mechanically stable candidates in silico. Finally, we screened these candidates for thermal stability through annealing MD simulations⁵³. The top 16 mechanically stable proteins from the SMD simulations were subjected to a $1,000\text{-ns}$ annealing simulation, during which the temperature gradually increased from 0 K to 413 K . We evaluated thermal stability by analysing the r.m.s.d. of the simulation trajectories (Fig. 1f).

This integrated workflow, which combines AI for high-throughput protein generation with MD simulations for physics-based screening, provides a powerful and efficient pipeline to navigate the vast protein design space, ultimately leading from computational hypotheses to experimentally validated proteins (Fig. 1g).

Consequently, we identified three proteins demonstrating outstanding mechanical stability and thermal resilience (Fig. 2a and Supplementary Fig. 1b). They all showed much higher unfolding force compared with I27 in SMD simulations at 0.1 nm ns^{-1} (Fig. 2b). These proteins, inspired by muscle proteins, were named SuperMyo and designated as the A series (Supplementary Table 1).

The three SuperMyo proteins, A25, A218 and A339, were selected for experimental validation based on their superior predicted properties. These proteins, which feature force-bearing β strands capable of forming eight main-chain hydrogen bonds, were successfully expressed and constructed for testing. For accurate comparison, we also included the well-characterized I27 as a benchmark protein, known for its established mechanical stability and a characteristic contour length increment (ΔL_c) of $\sim 28 \text{ nm}$ during unfolding. We quantified their mechanical stability using an atomic force microscopy-based single-molecule force spectroscopy (AFM–SMFS) set-up⁵⁴, pulling at a constant velocity of $1,000 \text{ nm s}^{-1}$ (Fig. 2c). To ensure measurement precision and eliminate non-specific interactions, we used a site-specific covalent immobilization strategy via asparaginyl endopeptidase (AEP)-mediated protein ligation. The glass substrate was first functionalized with a peptide presenting an N-terminal Gly-Leu (GL) recognition motif and an (ELP)₂₀ linker (elastin-like polypeptide). This (ELP)₂₀ linker serves as a spacer to prevent short-range, non-specific surface interactions. Subsequently, the target construct (SdrG-GB1-SuperMyo-GB1), engineered with a C-terminal Asn-Ala-Leu (NAL) tag, was specifically and covalently ligated to the GL motif on the substrate via the AEP enzyme. A similar method was used to conjugate the molecular handle (Fg β -GB1-NAL) to the AFM tip (Supplementary Fig. 2a,b)^{55–57}.

This design utilizes the highly specific and mechanically robust SdrG–Fg β interaction⁹ (known to withstand forces $>2 \text{ nN}$) as a molecular handle, guaranteeing efficient pick-up and total unfolding of single target molecules. Upon tip retraction, the force applied specifically unfolds the SuperMyo protein, generating characteristic sawtooth-like force–extension curves (Fig. 2d). Three peaks, each with a ΔL_c of 18 nm , were observed from unfolding of three unambiguous internal fingerprint GB1s in the system as expected^{58,59}. The red portions of the curves represent the unfolding events of I27, A25, A218 and A339, with ΔL_c values of $27.8 \pm 0.1 \text{ nm}$ (Gaussian mean $\pm$ s.e.m., $n = 324$, 89 amino acids (aa), theoretical $\Delta L_c = 28.2 \text{ nm}$), $44.0 \pm 1.6 \text{ nm}$ ($n = 205$, 122 aa, 44.8 nm), $42.1 \pm 0.2 \text{ nm}$ ($n = 121$, 115 aa, 42.5 nm) and $42.5 \pm 0.04 \text{ nm}$ ($n = 715$, 112 aa, 41.2 nm), respectively (Supplementary Table 1). These values are consistent with the theoretical unfolding lengths of the predicted SuperMyo protein structure, providing validation of their structural design.

Statistical analysis of their unfolding forces (Fig. 2e and Supplementary Table 1) revealed that the most probable unfolding forces for A25, A218 and A339 are $342 \pm 2 \text{ pN}$ (Gaussian mean $\pm$ s.e.m., $n = 205$), $342 \pm 3 \text{ pN}$ ($n = 121$) and $352 \pm 1 \text{ pN}$ ($n = 715$), respectively, under an average loading rate of $\sim 10^4 \text{ pN s}^{-1}$ (Supplementary Table 1). Compared with the $246 \pm 2 \text{ pN}$ ($n = 324$) of I27 under the same pulling speed of $1,000 \text{ nm s}^{-1}$ (ref. 60), all three SuperMyo proteins demonstrated a notable increase in force (40%), confirming the effectiveness of our design strategy.

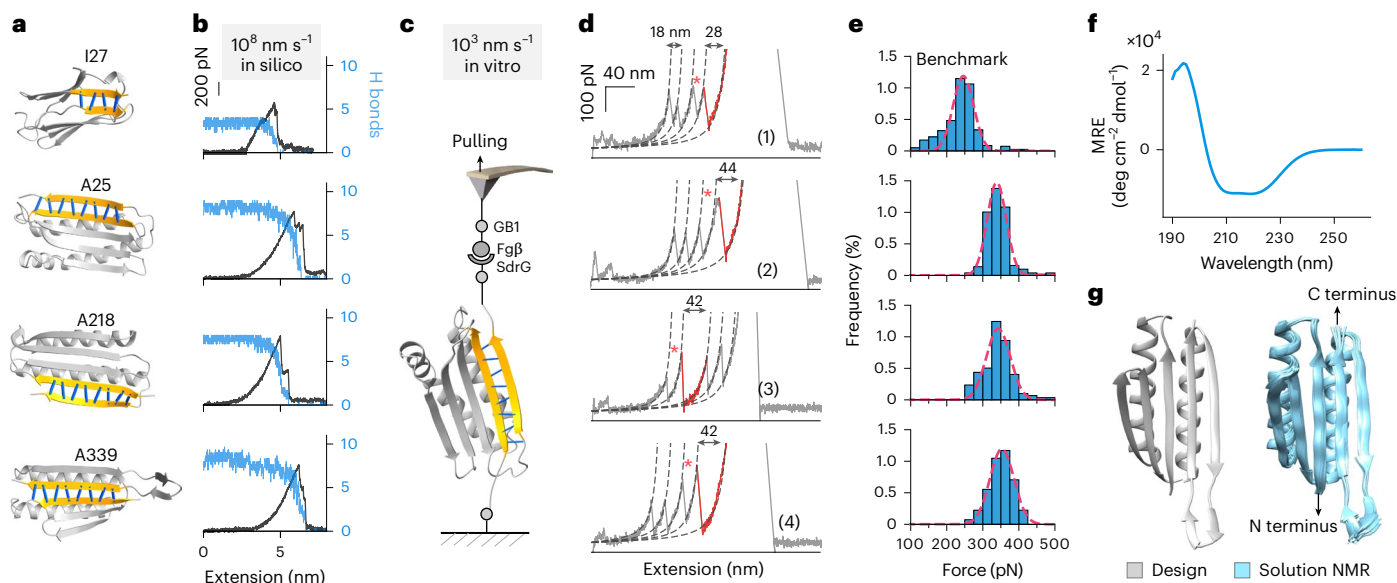


Fig. 2 | Experimental validation of designed SuperMyos with higher mechanostability. **a**, Titin I27 and three best candidates, SuperMyo A25, A218 and A339, were screened for experimental validation. **b**, SMD simulation results for the four proteins. The average force–distance profile for N- to C-terminal stretching, obtained from three independent SMD simulations, is represented by the black curve. The blue curves indicate the corresponding number of backbone hydrogen bonds within the force-bearing β strands during the unfolding process. **c**, Force spectroscopy experiment set-up: the AFM tip modified with Fg β picks up the fusion protein coated on the substrate through the Fg β -SdrG interaction. The tip retraction will induce protein unfolding. **d**, Representative

force–extension curves of protein unfolding. The red portions of curves (1), (2) and (3) represent the unfolding events of A25, A218 and A339 with characteristic ΔL_c of $\sim 40 \text{ nm}$, respectively. The three 18-nm peaks were from single-molecule fingerprint GBIs. **e**, Statistical analysis of the SuperMyo unfolding forces showed a higher unfolding force than I27 (350 pN versus 246 pN). The red dashed line indicates the Gaussian fit curve. **f**, CD spectrum of A339, with the y-axis representing MRE (mean residue ellipticity), showing the expected signal range (210–230 nm) characteristic of an $\alpha + \beta$ structure. **g**, Comparison of the predicted structure of A339 (left) and the obtained solution NMR structure.

To further validate the structural design, we first performed the circular dichroism (CD) spectroscopy measurement of A339. The CD spectrum exhibited a broad negative peak spanning from approximately 210 nm to 230 nm. This feature is characteristic of a mixed α/β secondary structure, arising from the superposition of negative signals from both β sheets (a minimum around 218 nm) and α helices (minima at $\sim 208 \text{ nm}$ and $\sim 222 \text{ nm}$) (Fig. 2f)⁶¹. Additionally, we obtained the solution NMR structure of A339⁶², which closely aligned with the predicted model, confirming both the $\alpha + \beta$ conformation and the presence of the eight main-chain hydrogen bonds (Fig. 2g and Supplementary Table 2).

Iterative design and validation of SuperMyo for enhanced mechanical stability

Building on the success of the A-series SuperMyo protein, we conducted multiple iterative rounds to further elongate the force-bearing β strands and increase the number of main-chain hydrogen bonds (Supplementary Fig. 1), with the aim of achieving even greater mechanical stability. Five additional series—B, C, D, E and F—were designed following the same protocol, with only the top three candidates from each series selected for experimental validation. In each round, five additional hydrogen bonds were added. For example, the force-bearing β strands of A339 served as the basis for the B series, which added five more hydrogen bonds. This process continued with B series serving as the starting point for the C series, and so on, ultimately culminating in the F series, which featured a total of 33 hydrogen bonds (Fig. 3a, Table 1 and Supplementary Fig. 3).

The highest-performing proteins from each series—A339, B42, C352, D399, E389 and F553—were identified, and exhibited the highest unfolding forces in force spectroscopy experiments (Supplementary Table 1). Three SMD simulations at a constant 0.1 nm ns^{-1} pulling speed yielded average unfolding forces of 1,300, 1,390, 1,618, 1,974, 2,038 and 2,516 pN for the six proteins,

respectively, compared with 996 pN for I27 in silico (Fig. 3b, black curve, Supplementary Fig. 4, Supplementary Table 1 and Supplementary Videos 1–6). Corresponding force-loading rates are detailed in Supplementary Table 1. In these simulations, the unfolding event, marked by the primary force peak, was consistently accompanied by an abrupt drop in the number of backbone hydrogen bonds in the force-bearing β strands (Fig. 3b, blue curve), confirming their cooperative rupture as the source of mechanostability. These results demonstrate a strong correlation between the length of the force-bearing β strands, the number of hydrogen bonds and the unfolding force. We note that the initial hydrogen-bond count in these dynamic simulations is slightly lower than in static structures, particularly for longer β strands, reflecting the breaking and reforming of hydrogen bonds due to thermal motion. It is noted that SMD simulations are conducted at much higher pulling speeds (10^8 nm s^{-1} ; force-loading rate range, $\sim 10^{10}$ – $10^{11} \text{ pN s}^{-1}$) than experimental measurements (10^3 nm s^{-1} , $\sim 10^4$ – 10^5 pN s^{-1}) due to computational constraints⁶³. Consequently, simulated forces are overestimated ($\sim 1,000 \text{ pN}$ for I27 in silico versus $\sim 200 \text{ pN}$ experimentally). Despite this, SMD remains a widely used semiquantitative screening tool for ranking candidate proteins based on relative mechanostability.

The six SuperMyo proteins were successfully expressed. Interestingly, the protein yield appeared to be proportional to the complexity of the design, with the last three proteins yielding below 1 mg per litre of LB medium (Table 1). This limited yield partly influenced the decision to conclude the design iterations at the F series. Nevertheless, the yield for all six proteins was sufficient for single-molecule experiments. Force–extension curves obtained from AFM–SMFS experiments showed distinct unfolding events corresponding to the designed protein structures (Fig. 3c, red curves). Each SuperMyo protein displayed unique ΔL_c values as expected, $42.5 \pm 0.04 \text{ nm}$ for A339 ($n = 715, 112 \text{ aa}$, 41.2 nm), $32.4 \pm 0.1 \text{ nm}$ for B42 ($n = 488, 97 \text{ aa}$, 32.9 nm), $50.8 \pm 0.05 \text{ nm}$

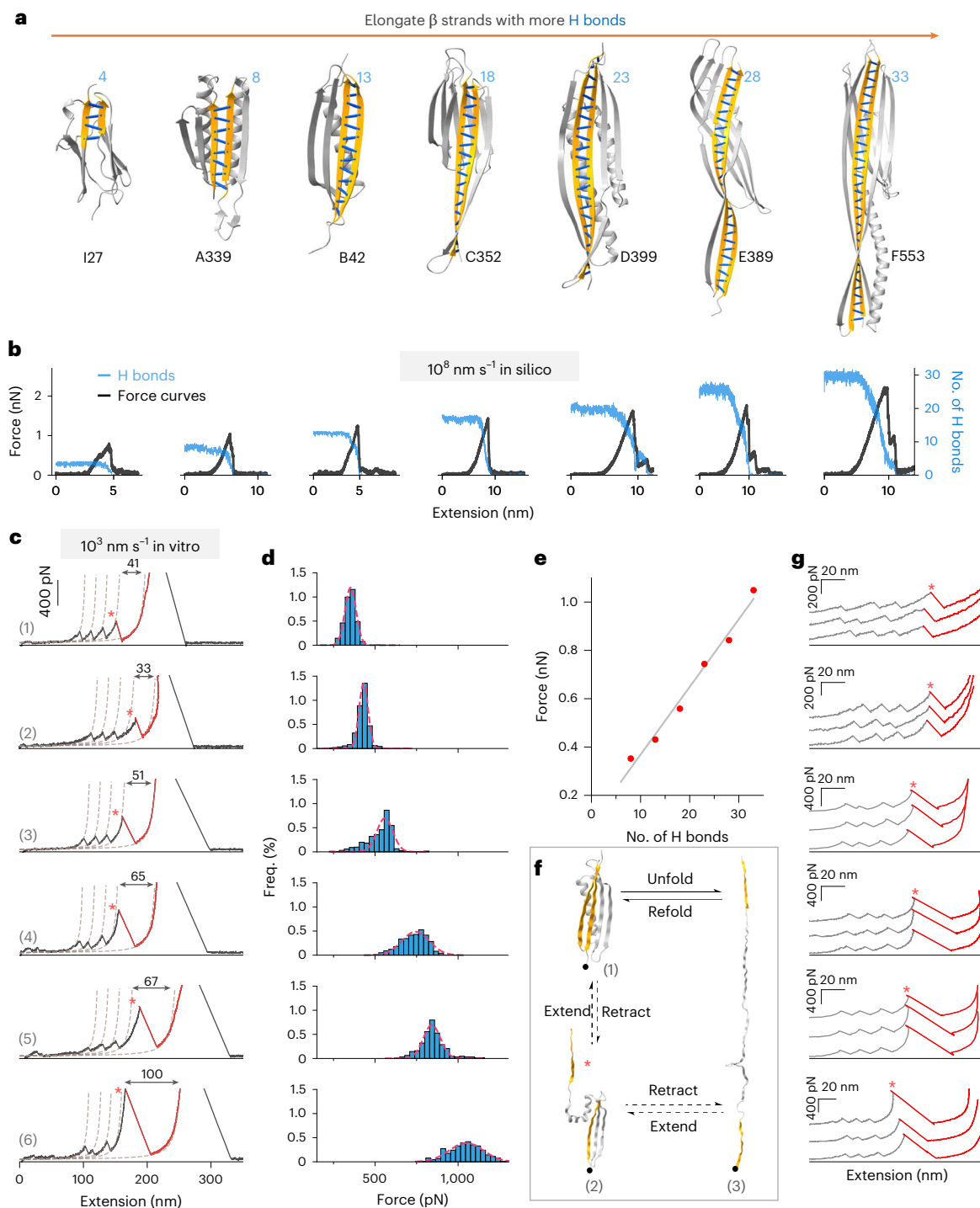


Fig. 3 | Mechanical analysis of SuperMyo protein series. a, Structural representations of the natural I27 domain and the SuperMyo protein series, illustrating the progressive elongation of β strands and the increase in main-chain hydrogen bonds. **b**, Averaged force–extension curves (black) from three SMD simulations for each protein, depicting their unfolding process. The blue curves indicate the corresponding number of backbone hydrogen bonds within the force-bearing β strands during the unfolding process. **c, d**, Representative force–extension curves (c) with the red part from SuperMyo and the

corresponding unfolding force distribution (d), for A339, B42, C352, D399, E389 and F553. **e**, A positive correlation was observed between the unfolding force and the number of hydrogen bonds in the force-bearing β strand of the SuperMyo proteins. **f**, Schematic diagram of the protein-refolding experiment, showing the sequence of unfolding (steps 1–3) as the AFM tip moves away from the substrate, followed by refolding (steps 3–1) as the tip moves back toward the substrate. **g**, Representative successful refolding curves. The refolding curves are offset for clarity.

for C352 ($n = 891$, 144 aa, 51.8 nm), 65.4 ± 0.05 nm for D399 ($n = 658$, 185 aa, 65.6 nm), 69.0 ± 0.1 nm for E389 ($n = 215$, 196 aa, 68.4 nm) and 99.2 ± 0.1 nm for F553 ($n = 317$, 276 aa, 100.9 nm), closely matching the theoretical unfolding lengths predicted based on their sequences and structures (Supplementary Information).

Moreover, the unfolding forces for SuperMyo proteins were markedly higher than those of the natural I27. The most probable unfolding forces for the progressively elongated β -strand SuperMyo proteins were 352 ± 1 pN (gaussian mean $\pm$ s.e.m., $n = 715$), 431 ± 1 pN ($n = 488$), 559 ± 2 pN ($n = 891$), 744 ± 3 pN ($n = 658$), 839 ± 3 pN

Table 1 | Statistical results for SuperMyo proteins in each series

Name	Hydrogen bonds	Force (pN)	ΔL_c (nm)	Yield (mg l ⁻¹)	121 °C	150 °C
I27	4	246±2	27.8±0.1	19	×	×
A339	8	352±1	42.5±0.04	100	✓	✓
B42	13	431±1	32.4±0.1	40	✓	✓
C352	18	559±2	50.8±0.05	15	✓	✓
D399	23	744±3	65.4±0.05	~0.5	NA	NA
E389	28	839±3	69.0±0.1	~0.2	NA	NA
F553	33	1,050±6	99.2±0.1	~0.1	NA	NA

Note: The values for force (pN) and ΔL_c (nm) are presented as mean±s.e.m. from Gaussian fitting. NA, not available.

($n = 215$) and $1,050 \pm 6$ pN ($n = 317$), respectively (Fig. 3d, Table 1 and Supplementary Figs. 5–10). These experimental results demonstrate that the protein's unfolding force increases linearly with the length of the force-bearing β -strands and the corresponding number of backbone hydrogen bonds under our experimental condition (Fig. 3e). This observation is noteworthy as it deviates from the behaviour predicted by classic polymer theories, such as De Gennes's model for DNA shearing, which anticipate a force plateau due to edge-fraying effects⁶⁴. We hypothesize that in our system, the rigid β -sandwich architecture constrains the terminal strands, thereby suppressing fraying and allowing the force to be distributed across all hydrogen bonds. This confirms that our design strategy is an effective and precise approach for engineering proteins with enhanced mechanical stability.

Next, we examined the refolding ability of the designed proteins following mechanical unfolding, an essential characteristic of muscle proteins such as titin^{1,60}. To do this, we unfolded the protein without detaching it and allowed the force to return to zero for a 400-ms pause, providing an opportunity for the protein to refold. We then stretched the protein again (Fig. 3f). Observations of unfolding signals after multiple unfolding–refolding cycles (Fig. 3g, red peaks, representative successful refolding events) indicated that the SuperMyo proteins retained reversible folding–unfolding properties. The refolding probability within this process varied among the designs. B42 demonstrated a high refolding probability of ~90%, followed by A339 at a substantial ~40%. Other designs also showed measurable, albeit lower, refolding capacities.

SuperMyo maintains its mechanical function after extreme thermal treatment

Thermal stability is a crucial property of proteins because it indicates their ability to maintain function under extreme temperatures. The Ig domain of titin is known for its relatively high thermal stability, exemplified by the I27 domain, which has a melting temperature (T_m) of ~70 °C⁶⁵. In designing SuperMyo proteins, we also focus on the thermal stability and select candidates during the MD simulation phase that could withstand high temperatures without undergoing structural changes. During the annealing simulation, where the temperature was gradually increased from 0 K to 413 K, we used r.m.s.d. as a vital metric to monitor protein structural changes and select the six representative proteins (Fig. 4a, Supplementary Fig. 11 and Supplementary Videos 7–12)⁶⁶.

Considering later measurement and application at the ensemble level, we focused on the first three series of SuperMyo proteins, A339, B42, C352, with a high yield for in-depth analysis. In the simulations, they all exhibited minimal changes in their main secondary structures, making them the most stable candidates in their respective series (Supplementary Videos 7–9). Moreover, we experimentally tested the thermal stability of these proteins by temperature-dependent CD. The CD spectra, recorded during heating from 25 °C to 92 °C, showed only minimal changes for all three proteins, indicating their secondary

structures remained intact (Fig. 3b). A detailed analysis of the signal at 195 nm, a key indicator for β -sheet content⁶¹, further confirmed the absence of unfolding during the temperature ramp (Fig. 4b, inset). Given that the overall spectral shape was preserved, we determined that the T_m for all three proteins exceeds 90 °C, highlighting their remarkable thermal stability. These experiments demonstrated that these three SuperMyo proteins possess excellent thermal stability, validating their design for enhanced thermal stability.

More importantly, to evaluate whether the SuperMyo proteins could retain their mechanical function after extreme thermal treatment, we subjected them to a rigorous heating cycle test. In this test, the proteins were first incubated at 121 °C, a temperature commonly used in autoclaves, and then immediately frozen using liquid nitrogen (Fig. 4c and Supplementary Fig. 12). The robustness of SuperMyo proteins was evident at the macroscopic level: while the wild-type I27 precipitated, SuperMyo protein solutions remained clear. Ultraviolet–visible (UV–vis) spectroscopy further revealed that the proteins retained their structural integrity, as indicated by consistent 280-nm absorbance (Fig. 3d,e).

Next, we tested their mechanical functionality after these extreme thermal treatments. The proteins were immobilized in the AFM–SMFS system using an enzyme-catalysed method, similar to the previous set-up but with slight modifications (Fig. 4f and Supplementary Fig. 2c). Due to the harsh conditions, the previously used pulling handling protein SdrG could not survive, so only the SuperMyo protein was treated and linked with SdrG via enzymatic ligation. Remarkably, the unfolding experiments showed characteristic SuperMyo unfolding signals with similarly high forces, indicating that the proteins maintained their mechanical functionality even after repeated thermal cycling (Fig. 4g, red line and Fig. 4h, red bin).

In addition to the heating cycle, we tested the thermal stability of the proteins at the highest temperature before carbonization, heating them to 150 °C for 1 h and then cooling them to room temperature. AFM–SMFS measurements still showed that the proteins retained their functionality (Fig. 4g, green line, Fig. 4h, green bin, Supplementary Figs. 12–14 and Supplementary Table 3). Furthermore, their CD spectra remained consistent with those recorded before treatment (Supplementary Fig. 13). Consequently, the SuperMyo proteins demonstrated excellent thermal stability, maintaining their mechanical properties even after exposure to extreme temperatures.

Building on the established application of building protein-based materials^{67,68}, our SuperMyo proteins offer promising building blocks for hydrogels with robust thermal stability^{69,70}. To demonstrate this, we used the classic SpyTag–SpyCatcher system to create protein hydrogels by reacting SpyTag–POI–SpyTag–POI–SpyTag constructs with a four-armed polyethylene glycol (PEG) crosslinker fused with SpyCatcher^{71–73}. Using I27, A339 and B42, we successfully formed hydrogels (Fig. 5a). Rheological experiments confirmed the characteristic viscoelastic properties of a protein-based hydrogel. Strain sweeps showed the storage modulus (G') and loss modulus (G'') of the hydrogels, demonstrating their successful formation (Fig. 5b). In thermal stability tests, I27 hydrogels precipitated and denatured at 80 °C, while A339 and B42 hydrogels remained transparent and gel-like even after heating to 121 °C (Fig. 5c). Real-time heating rheological experiments highlighted their distinct behaviours: I27 hydrogels showed a sharp increase in storage modulus near 80 °C, indicating denaturation, whereas A339 and B42 hydrogels maintained stable storage modulus, reflecting their superior thermal stability (Fig. 5d). Thus, A339 and B42 hydrogels remained intact during 121 °C heating, demonstrating their suitability for standard sterilization processes and potential for medical applications requiring autoclaving.

Discussion

In this study, we demonstrated that the systematic application of a well-established chemical principle, the maximization of hydrogen

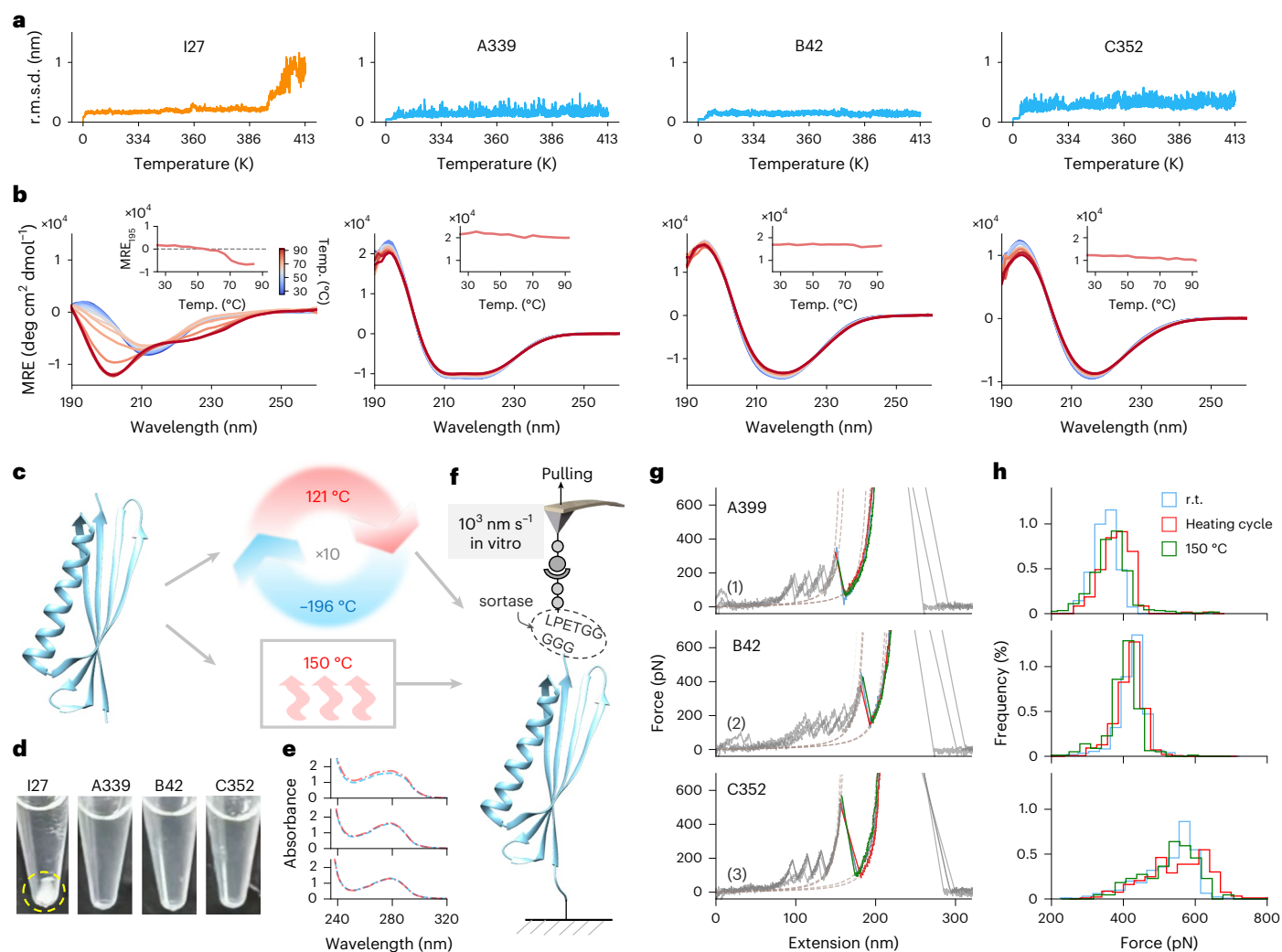


Fig. 4 | Excellent mechanical performance of SuperMyo after extreme thermal treatment. **a**, Annealing simulation results for r.m.s.d. analysis. Wild-type I27, SuperMyo A339, B42 and C352 were subjected to a 1,000-ns simulation, with the temperature ramping from 0 K to 413 K. **b**, Temperature-dependent CD spectroscopy of the four proteins. Inset: changes in the CD signal at 195 nm (corresponding to β -sheet structures) during the temperature ramping process. **c**, SuperMyo proteins A339, B42 and C352 were subjected to two extreme thermal treatments: (1) 10 cycles of heating (121 °C, autoclave) and freezing and (2)

heating to 150 °C. **d**, Photograph of protein solution after the heating cycling: while wild-type I27 precipitated, SuperMyo proteins remained clear. **e**, UV-vis analysis of the protein after the cycles. **f**, Schematic of the AFM-SMFS set-up: SuperMyo proteins after thermal treatment were immobilized on the substrate and ligated via their N-terminal GGG tag to the protein SdrG-(GB1)₂-LPETGG using protein ligase sortase. **g**, Representative force-extension curves (untreated, blue; heating cycles, red; 150 °C, green). **h**, Comparison histogram of unfolding forces before and after the two treatments with colours matching those in **g**.

bonds in a shear geometry, can be used to de novo design proteins with enhanced mechanostability. By systematically elongating the force-bearing β strands of a titin I27-derived scaffold, we engineered a series of SuperMyo proteins with progressively enhanced mechanical resilience. Our results reveal a positive correlation between mechanical stability and the number of backbone hydrogen bonds, culminating in designs, such as F553, that withstood unfolding forces exceeding 1,000 pN. This represents a more than fourfold increase over the benchmark titin I27 domain, measured under identical experimental conditions. This nanonewton-scale stability is rooted in the same shear-based mechanism employed by some of nature's most resilient non-covalent interactions, such as the extreme mechanostable bacterial adhesin complex SdrG-Fg β . Furthermore, our proteins maintained their native fold after being subjected to 150 °C, highlighting their extreme robustness. These findings show how computational design can push the stability of synthetic proteins to levels that rival many natural systems, offering a scalable strategy for creating proteins designed for extreme environments.

An outcome of our work is the successful translation of these molecular-level enhancements into robust macroscopic materials. By incorporating the SuperMyo proteins as physical cross-linkers, we created hydrogels that remained structurally intact after autoclaving, a standard sterilization process that typically denatures and dissolves most protein-based biomaterials. This excellent thermal stability stands in contrast to many other engineered protein hydrogels, which often have lower denaturation temperatures, limiting their processing and application range. Our results provide powerful evidence that engineering extreme stability at the single-molecule level can directly yield materials with properties suitable for applications requiring both biocompatibility and resilience to harsh processing conditions.

The primary innovation enabling these results is our high-throughput computational pipeline. The integration of state-of-art generative AI design tools (RFdiffusion, ProteinMPNN, AF2/ESM-Fold) with MD simulations for prescreening allowed us to efficiently navigate a vast design space and rationally test the hydrogen-bond maximization principle on an unprecedented scale. This approach

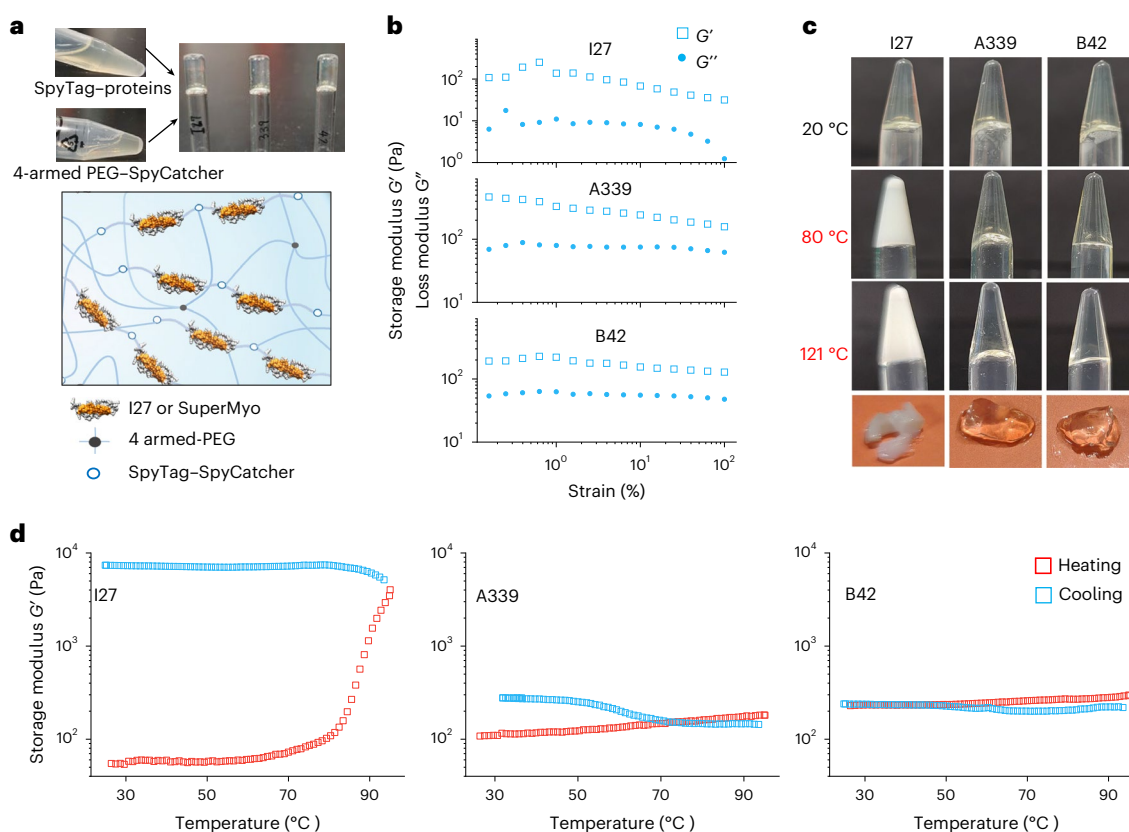


Fig. 5 | SuperMyo constructed as protein hydrogels demonstrating superior macroscopic properties. **a**, SuperMyo proteins A339 and B42, like natural I27, were successfully assembled into hydrogels using the classic SpyTag–SpyCatcher reaction system. **b**, Rheology experiments confirmed the formation of stable

protein hydrogels. **c**, At high temperatures, hydrogels derived from A339 and B42 remained transparent, whereas the natural I27-based hydrogel turned opaque, indicating loss of structural integrity. **d**, Real-time temperature-dependent rheology measurements.

provides a generalizable framework for engineering proteins with high-performance properties. By streamlining the design–test–learn cycle, our methodology makes the creation of superstable proteins more systematic and accessible. Beyond stability, this integrated approach could be extended to co-optimize proteins for both structure and function, aiding in the rational design of biomaterials and therapeutics with tailored properties.

In conclusion, by applying fundamental chemical principles through the AI + MD computational framework, we have designed, validated and utilized a new class of synthetic proteins with outstanding stabilities. Moving forward, a key objective is to use these proteins as core components for advanced materials, exploring their potential in areas ranging from durable hydrogels to resilient coatings for extreme environments. Our findings not only provide quantitative insights into the molecular determinants of mechanostability but also establish a clear blueprint for engineering resilient protein-based materials from the molecule up, opening possibilities for biotechnology in extreme environments.

Online content

Any methods, additional references, Nature Portfolio reporting summaries, source data, extended data, supplementary information, acknowledgements, peer review information; details of author contributions and competing interests; and statements of data and code availability are available at <https://doi.org/10.1038/s41557-025-01998-3>.

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Methods

Protein expression and purification

All designed SuperMyo genes were ordered from General Biol. Each protein was constructed into the pET30a vector using the BamHI–KpnI restriction enzyme system, resulting in constructs such as pET30a-GGG-POI-his8-strep-NAL for thermal cycling experiments, pET30a-SdrG-GB1-POI-GB1-his6-NAL for unfolding and refolding force spectroscopy experiments and pQE80L-spytag-POI-spytag-POI-spytag-his6 for hydrogel construction. The plasmids were transformed into BL21(DE3) cells. Single colonies were selected and cultured overnight at 37 °C in LB medium containing kanamycin for pET30a vector or ampicillin for pQE80L vector. The culture was then transferred to 800 ml of kanamycin-containing LB and incubated for 2 h at 37 °C on a shaker. When the OD₆₀₀ of the culture reached 0.6–0.8, isopropyl-β-D-1-thiogalactopyranoside (IPTG) was added to a final concentration of 0.5 mM, and the culture was incubated at 18 °C on the shaker for 16 h.

The bacteria were harvested by centrifugation at 13,000g for 10 min at 12 °C, and resuspended by the lysis buffer containing 20 mM Tris–HCl, 150 mM NaCl, pH 7.4. Prior to cell lysis, DNase, RNase and PMSF were added to the cell suspension. The suspension was then lysed using a homogenizer for 3 min, followed by centrifugation at 39,000g for 15 min at 6 °C to separate the supernatant fraction.

Proteins SdrG-GB1-POI-GB1-his6-NAL and spytag-POI-spytag-POI-spytag-his6 were purified using a Ni-NTA affinity chromatography column. Impurities were washed with a wash buffer (20 mM Tris–HCl, 400 mM NaCl, 20 mM imidazole, pH 7.4) and bound proteins were eluted by an elution buffer (20 mM Tris–HCl, 150 mM NaCl, 250 mM imidazole, pH 7.4). Protein concentrations were quantified by measuring the absorbance at 280 nm.

GGG-POI-his8-strep-NAL was purified by STarm Sreptactin, and impurities were washed away using a wash buffer (20 mM Tris, 1 M NaCl, pH 7.4, 2 mM EDTA, 1 mM dithiothreitol). GGG-POI-his8-strep-NAL was then eluted using an elution buffer (20 mM Tris, 150 mM NaCl, 10 mM biotin, pH 7.4).

OaAEP1(C247A) is cysteine 247 to the alanine mutant of asparaginyl endoproteases 1 from *Oldenlandia affinis*, abbreviated as OaAEP1 here⁷⁴. ELP is the elastin-like polypeptides⁵⁷.

RFdiffusion design of SuperMyo protein

Because the simultaneous rupture of main-chain hydrogen bonds in force-bearing β strands is a major contributor to protein unfolding forces, we aimed to design mechanically stronger proteins by elongating these β strands using the RFdiffusion model. This elongation resulted in an increase in the number of corresponding main-chain hydrogen bonds. Experimental results showed that, as a diffusion model, RFdiffusion exhibits inherent stochasticity during sampling, making it challenging to achieve substantial β-strand lengthening in a single step. To overcome this limitation, we focused on the force-bearing β strands of I27 and iteratively elongated their length, effectively guiding the β strands to evolve towards the desired structural features. Over six iterations (series A, B, C, D, E and F), the number of main-chain hydrogen bonds was increased from 4 to 33, with each series corresponding to 8, 13, 18, 23, 28 and 33 hydrogen bonds, respectively.

Taking the A series of designs as an example, we used I27 (PDB 1TIT) as the initial structure and performed motif scaffolding on residues 10–14 and 83–88 by setting the input contigmap.contigs = [1-2/A10-14/60-100/A83-87/1-2], generating a total of 1,000 backbone structures. The generated structures were screened based on two criteria: (1) eliminating physically unrealistic structures, such as those with atomic overlaps or chain entanglements; (2) conducting secondary structure analysis to retain only those structures where the N- and C-terminal β strands (force-bearing regions) were longer than those in the initial input. This approach successfully achieved β-strand elongation.

Sequence design and structure prediction

Because RFdiffusion only generates protein backbones, it is necessary to use ProteinMPNN to design amino acid sequences that can fold into the corresponding structures. For each generated backbone, 400 sequences were sampled with the temperature parameter set to 0.1. Cysteine residues were excluded during the generation to avoid the formation of intramolecular or intermolecular disulfide bonds. Before structural prediction, all sequences underwent a preliminary hydrophobicity assessment. To compensate for the loss, additional sequences were generated using ProteinMPNN to supplement the dataset. Specifically, each of the 20 natural amino acids was assigned a hydrophobicity score, and the overall hydrophobicity of a protein was calculated as the average hydrophobicity score of its constituent residues. This step aimed to mitigate potential challenges in protein expression caused by excessive hydrophobicity.

The screened sequences were then subjected to structure prediction using ESMFold. The predicted structures were evaluated by calculating the pLDDT scores and comparing them with the original RFdiffusion-generated backbones to determine the C_α r.m.s.d. values. Only structures with pLDDT scores >90 and r.m.s.d. values <0.2 nm were retained.

The structures that passed the ESMFold screening were then ranked by their pLDDT scores, and the top 1,000 structures were further predicted using AlphaFold2 (five models with 12 recycles). The same pLDDT and RMSD criteria were applied, and the final 200 top-ranked structures based on pLDDT were selected for downstream MD simulation screening.

Using this iterative approach, we designed six SuperMyo proteins with progressively extended force-bearing β chains, designated as series A, B, C, D, E and F. The sequences and structures generated by the AI models were labelled using the format SeriesName-StructureIndex-SequenceIndex. For example, 'A339' is an abbreviation for 'A_243_339'. The full names of these proteins are described in Supplementary Data 2.

SMD simulation for SuperMyo unfolding

To identify proteins with high unfolding forces, we conducted SMD simulations on target proteins predicted by AlphaFold2, using the GROMACS 2023.3 software package³⁷. Protein structure files were preprocessed with the Biopython package to align the N terminus and C terminus along the z axis, the designated pulling direction. The size of the simulation water box was determined based on the protein size and the pulling distance. Specifically, the x and y boundaries of the simulation box were set to 1.2 nm from the protein surface, while the z-axis length was calculated as the sum of the pulling distance and the folded protein's length along the z axis. The pulling distance for each protein varied and was set to one-quarter of the contour length (pulling distance = $\Delta L_c \times 0.25$). The systems were then solvated and neutralized using 150 mM NaCl. All simulation systems utilized the CHARMM36m force field⁴¹ and the TIP3P water model.

Prior to the SMD simulations, each system underwent 5,000 steps of energy minimization to eliminate steric clashes and optimize the initial configuration. This was followed by 125 ps of NVT simulations with positional restraints on the protein backbone atoms. A subsequent 10-ns pre-equilibration in the NPT ensemble was conducted under periodic boundary conditions, maintaining a temperature of 310 K using the V-rescale thermostat and a pressure of 1 bar using the C-rescale barostat.

For the SMD simulations (repeated three times per protein), the C terminus of the protein was restrained with a fixed harmonic potential (1,000 kJ mol^{−1} nm^{−2} for the x, y, z direction), while a harmonic pulling potential (1,000 kJ mol^{−1} nm^{−2}) was applied along the positive z axis to the C_α atoms of the N-terminal residues to induce unfolding with a constant pulling speed (1 nm ns^{−1} or 0.1 nm ns^{−1}). The simulation time required for the pulling was determined by the pulling length and

pulling speed, and was calculated as follows: time = pulling length (nm)/pulling speed (nm ns^{-1}). The force–distance curves generated from the SMD simulations provided the unfolding forces of the proteins. The mechanical strength of the protein was evaluated by averaging the unfolding forces obtained from the three simulations.

The force-bearing β -strand backbone hydrogen-bond analysis was performed on the SMD trajectories using the *gmx hbond* utility from the GROMACS package, focusing specifically on the backbone atoms of these strands. A hydrogen bond was defined by the default geometric criteria (donor–acceptor distance, <0.35 nm; hydrogen donor–acceptor angle, $<30^\circ$). The number of hydrogen bonds was then plotted against simulation time using Python's Matplotlib library.

Annealing MD simulation of SuperMyo

To screen for SuperMyo with better thermal stability, we conducted annealing simulations on the designed proteins. The simulations were performed using the GROMACS 2023.3 software package with the CHARMM36m force field and the TIP3P water model. The size of the cubic simulation box was determined by adding 2.4 nm to the longest axis of the protein to ensure adequate solvation. Prior to the annealing simulations, the systems underwent 5,000 steps of energy minimization and 1 ns of position-restrained MD simulations.

During the annealing simulations, the solvent (water and ions) and the protein solute were temperature controlled as two separate groups. In the 1,000-ns simulations, the temperature was linearly increased from 0 K to 310 K over the first 10 ns and then further linearly increased to 413 K for the remainder of the simulation. The execution of the MD simulations was automatically managed by a Python script.

AFM–SMFS unfolding experiment

An AFM cantilever/tip made of silicon nitride (MLCT-BIO-DC, Bruker) was used. The detailed protocol for AFM tip functionalization and protein immobilization on the glass coverslip can be found in ref. 56. In short, the tip and glass coverslip were coated with the amino group by amino-silanization. The N_3 - group is functionalized on the surface from the reaction between $\text{ImSO}_2\text{N}_3\text{-HCl}$ and $-\text{NH}_2$. Then, a heterobifunctional DBCO-PEGn-Mal can be reacted and adds the Mal group. Next, the peptide GL-(ELP)₂₀-C was reacted to the maleimide via the cysteine, respectively. The long (ELP)₂₀ serves as a spacer to avoid non-specific interaction between the tip and the surface and provides a signature for the single-molecule event. Finally, target protein SuperMyo with C-terminal NAL sequence or Fg β -GB1-NAL sequence can be site-specifically linked to the coverslip or tip by OaAEP1, respectively.

An atomic force microscope (Nanowizard4, JPK) was used to acquire the force–extension curves. The D tip of the MLCT-Bio-DC cantilever was used. Its accurate spring constant was determined by a thermally induced fluctuation method⁷⁵. Typically, the tip contacted the protein-immobilized surface for 50 ms under an indentation force of 350 pN to ensure a site-specific interaction. Then, moving the tip up vertically at a constant velocity ($1 \mu\text{m s}^{-1}$), the polyprotein unfolded. Then, the tip moved to another place to repeat this cycle several thousands of times. This yielded a force–extension curve, which was analysed using JPK data-processing analysis software.

AFM–SMFS refolding experiment

To evaluate the refolding capability of SuperMyo, protein unfolding experiments were performed using the SMFS method as previously described. When the *v*Deflection detected by the tip reached 1 nN (less than the dissociation force of the SdrG–Fg β complex, indicating that the complex had not dissociated), the tip immediately approached the substrate, and the unfolded SuperMyo protein was quickly relaxed to zero extension length (with the distance between the tip and the substrate being ~ 5 nm). At this point, SuperMyo remained attached to the tip. After a 400-ms pause, the tip was retracted again to induce the

unfolding of SuperMyo. This process was repeated hundreds of times until the SdrG–Fg β complex dissociated, and SuperMyo was no longer picked up by the AFM tip, after which the next cycle started.

NMR sample preparation

^{15}N -labelled samples were prepared by supplementing the minimal (M9) medium with $^{15}\text{NH}_4\text{Cl}$ (1 g l^{-1}). $^{15}\text{N}/^{13}\text{C}$ -labelled samples were prepared by supplementing the minimal (M9) medium with $^{15}\text{NH}_4\text{Cl}$ (1 g l^{-1}) and $^{13}\text{C}_6$ -glucose (2 g l^{-1}). BL21 was grown in M9 medium at 37°C to an absorbance at 600 nm of ~ 0.6 . Protein induction was induced by the addition of 0.2 mM IPTG and cells were allowed to grow for 16 h at 18°C . Cells were harvested and resuspended in lysis buffer (50 mM sodium phosphate, 500 mM NaCl, pH 8.0). Cells were disrupted by sonication. Proteins were purified using Ni Sepharose 6 Fast Flow resin, followed by gel filtration using a Superdex 75 16/600 column.

NMR structure calculation

For resonance assignment, ^{15}N , ^{13}C -labelled A339 protein sample at a concentration of 800 μM was prepared in 93% $\text{H}_2\text{O}/7\%$ D_2O solution of 20 mM KPi (pH 7.0), 75 mM KCl, 0.05% NaN_3 and 1% Halt Protease Inhibitor Cocktail (Thermo Scientific). All NMR experiments were recorded on Bruker AVANCE 600-MHz devices equipped with 5-mm cryogenic probes. All NMR spectra were recorded at 25°C . The spectra were processed with NMRPipe⁷⁶ and analysed using NMRFAM Sparky⁷⁷. Backbone and side-chain resonances were assigned manually with the help of PINE⁷⁸. $^1\text{H}^\text{N}$, H^β , H^α , ^{15}N , $^{13}\text{C}^\alpha$, $^{13}\text{C}^\beta$ and C' backbone resonance assignments were obtained from HNCACB, CBCA(CO)NH, CCONH, HBHACONH, HCCCONH, HNCO, HN(CA)CO and CCHTOCSY.

NMR structures of A339 protein were generated using nuclear Overhauser effect (NOE) peak lists from three-dimensional ^{13}C -edited nuclear overhauser effect spectroscopy–heteronuclear single quantum coherence (NOESY–HSQC), and ^{15}N -edited NOESY–HSQC from ^{13}C , ^{15}N -labelled samples. The $^{13}\text{C}^\alpha$, $^{13}\text{C}^\beta$, $^{13}\text{C}'$, ^{15}N and $^1\text{H}^\text{N}$ chemical shifts served as input for the TALOS-N program⁷⁹ to extract dihedral angles (φ and ψ). A large number of intramolecular NOEs were collected to determine the hydrogen bonds. The structures were calculated with CYANA 3.98 (ref. 80). Structure statistics were extracted from the PSVS⁸¹.

CD experiments

For CD experiments, SuperMyo were diluted to 0.1 mg ml^{-1} in 10 mM KPO_4 (pH 7.4) buffer. Spectra were acquired on a Chirascan V100 (Applied Photophysics). The temperature of the sample was ramped from 25°C to 92°C with full spectrum scans from 190 nm to 260 nm performed after each 5°C interval. All reported measurements were acquired within the linear range of the instrument.

Heating cycles and 150°C heating experiments

To verify the stability and functionality of SuperMyo under extreme temperature conditions, we subjected A339, B42 and A352 to 10 cycles of heat treatment ranging from 121°C to -196°C . The proteins used in this experiment differ from those in previous SMFS studies. Because SdrG loses its binding ability to Fg β after heating, we constructed the GGG-SuperMyo-NAL protein for heating experiments to avoid interfering with the results.

In each test, a 1.5-ml centrifuge tube containing 1 ml of a $1\text{--}2 \text{ mg ml}^{-1}$ protein solution (with sterilization indicator tape on the outer wall) was placed into a polytetrafluoroethylene (PTFE)-lined high-pressure reactor. Thermally sensitive paper (Thermax) was placed with the solution into the reactor. The reactor was heated in an oven at 121°C or 150°C for 1 h. After cooling to room temperature, a colour change in the sterilization indicator tape was observed, accompanied by a colour shift in the thermally sensitive paper at the specified temperature. For the 121°C heating test, the tube was then immersed in liquid nitrogen until the protein solution was completely frozen. This heating and cooling cycle was repeated 10 times.

After the heating–cooling cycles, 40 μl of GGG-SuperMyo-NAL was mixed with 10 μl of OaAEP1 and applied to the substrate modified with GL-(ELP)₂₀. The reaction was carried out at 25 °C for 1 h. The substrate was then washed three times with ultrapure water and 1 M NaCl solution, respectively. Next, 40 μl of SdrG-(GB1)₂-LPETGG was mixed with 10 μl of MgSrtA, and CaCl₂ was added to a final concentration of 5 mM. This mixture was then dropped on to the substrate and allowed to react at 25 °C for 1 h. The substrate was subsequently washed three times with ultrapure water and 1 M NaCl solution, respectively. After this, the SMFS experiment was conducted as previously described.

Hydrogel construction and rheology measurements

First, 60 μl of four-arm PEG-Spycatcher (120 mg ml⁻¹ lyophilized powder dissolved in PBS buffer, pH 7.2) was mixed with 40 μl of Spytag-127-Spytag-127-Spytag (100 mg ml⁻¹ in PBS), or 40 μl of Spytag-339-Spytag-339-Spytag (119 mg ml⁻¹ in PBS), or 40 μl of Spytag-42-Spytag-42-Spytag (113 mg ml⁻¹ in PBS). The mixture was vortexed and then centrifuged at 8,000 r.p.m. for 30 s. Following centrifugation, the solution was transferred to a tube or measurement plate, and left to stand at room temperature for 5 min to form the gel.

Rheology was performed on a TA DHR-2 Rheometer, with an 8-mm standard flat steel parallel plate. The edge of the gel was surrounded with silicone oil to minimize evaporation. Strain sweep experiments were performed at 10 rad s⁻¹ from 0.1% to 100% strain amplitude at 25 °C. Temperature sweeps were run from 25 °C to 95 °C at a rate of 5 °C min⁻¹ and a frequency of 10 rad s⁻¹ at a strain of 2%.

Data availability

All data are available in the main text or in the Supplementary Information. The AlphaFold2-predicted structure of the designed SuperMyo protein is provided in Supplementary Data 1, and the screening metric data generated during the design process are available in Supplementary Data 2. The solution NMR structure for A339 in Fig. 2g has been deposited in the PDB (9UKW). Source data are provided with this paper.

Code availability

The Python script for automated execution of annealing simulations and SMD is available via GitHub at <https://github.com/Andachten/AutoMD>.

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Author contributions

P.Z. and B.Z. conceived and designed the project. B.Z., Y.Z. and Ziling Wang developed the method. B.Z., Z.L., S.W., L.L., M.A., Y.Z., G.T., R.W., Yuanhao Liu, H.Z., Y.M., J.Q., T.F., Ziyi Wang, R.L., Y.X., Yutong Liu, Ziling Wang, Y.J. and Y.H. performed the experiments. P.Z. supervised the project. The manuscript was written by P.Z. and B.Z., with contributions and approval from all authors.

Competing interests

The authors declare no competing interests.

Additional information

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Correspondence and requests for materials should be addressed to Peng Zheng.

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Computational design of superstable proteins through maximized hydrogen bonding

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Other Supplementary Materials for this manuscript include the following:

Supplementary Movies 1 to 12
Supplementary Data 1 to 2

Materials and Methods

Protein Expression and Purification.

All designed SuperMyo genes were ordered from General Biol. Each protein was constructed into the pET30a vector using the *Bam*HI-*Kpn*I restriction enzyme system, resulting in constructs such as pET30a-GGG-POI-his8-strep-NAL for thermal cycling experiments, pET30a-sdrG-GB1-POI-GB1-his6-NAL for unfolding and refolding force spectroscopy experiments and pQE80L-spytag-POI-spytag-POI-spytag-his6 for hydrogel construction. The plasmids were transformed into BL21(DE3) cells. Single colonies were selected and cultured overnight at 37°C in LB medium containing kanamycin for pET30a vector or Ampicillin for pQE80L vector. The culture was then transferred to 800 mL of kanamycin-containing LB and incubated for 2 hours at 37°C on a shaker. When the OD₆₀₀ of the culture reached 0.6-0.8, isopropyl-β-D-1-thiogalactopyranoside (IPTG) was added to a final concentration of 0.5 mM, and the culture was incubated at 18°C on the shaker for 16 hours.

The bacteria were harvested by centrifugation at 13,000 × g for 10 min at 12 °C, and resuspended by the lysis buffer containing 20 mM Tris-HCl, 150 mM NaCl, pH 7.4. Prior to cell lysis, DNase, RNase, and PMSF were added to the cell suspension. The suspension was then lysed using a homogenizer for 3 minutes, followed by centrifugation at 39,000 × g for 15 minutes at 6°C to separate the supernatant fraction.

Proteins sdrG-GB1-POI-GB1-his6-NAL and spytag-POI-spytag-POI-spytag-his6 were purified by Ni-NTA affinity chromatography column. Impurities were washed with a Wash buffer (20 mM Tris-HCl, 400 mM NaCl, 20 mM imidazole, pH 7.4) and bound proteins was eluted by Elution buffer (20 mM Tris-HCl, 150 mM NaCl, 250 mM imidazole, pH 7.4). Protein concentrations were quantified by measuring the absorbance at 280 nm.

GGG-POI-his8-strep-NAL was purified by STarm Sreptactin, and impurities were washed away using Wash buffer (20 mM Tris, 1M NaCl, pH 7.4, 2 mM EDTA, 1 mM DTT). GGG-POI-his8-strep-NAL was then eluted using Elution buffer (20 mM Tris, 150 mM NaCl, 10 mM biotin, pH 7.4).

*Oa*AEPI(C247A) is cysteine 247 to alanine mutant of asparaginyl endoproteases 1 from *oldenlandia affinis*, abbreviated as *Oa*AEPI here¹. ELP is the elastin-like polypeptides².

RFdiffusion Design of SuperMyo Protein

Considering that the simultaneous rupture of main-chain hydrogen bonds in force-bearing β-strands is a significant contributor to protein unfolding forces, we aimed to design mechanically stronger proteins by elongating these β-strands using the RFdiffusion model. This elongation resulted in an increase in the number of corresponding main-chain hydrogen bonds. Experimental results showed that, as a diffusion model, RFdiffusion exhibits inherent stochasticity during sampling, making it challenging to achieve substantial β-strand lengthening in a single step. To overcome this limitation, we focused on the force-bearing β-strands of I27 and iteratively elongated their length, effectively guiding the β-strands to evolve towards the desired structural features. Over six iterations (series A, B, C, D, E and F), the

number of main-chain hydrogen bonds was increased from 4 to 33, with each series corresponding to 8, 13, 18, 23, 28, and 33 hydrogen bonds, respectively.

Taking the A-series of designs as an example, we used I27 (PDB code: 1TIT) as the initial structure and performed motif scaffolding on residues 10-14 and 83-88 by setting the input `contigmap.contigs=[1-2/A10-14/60-100/A83-87/1-2]`, generating a total of 1000 backbone structures. The generated structures were screened based on two criteria: (1) eliminating physically unrealistic structures, such as those with atomic overlaps or chain entanglements; (2) conducting secondary structure analysis to retain only those structures where the N- and C-terminal β -strands (force-bearing regions) were longer than those in the initial input. This approach successfully achieved β -strand elongation.

Sequence Design and Structure Prediction

Since RFdiffusion only generates protein backbones, it is necessary to use ProteinMPNN to design amino acid sequences that can fold into the corresponding structures. For each generated backbone, 400 sequences were sampled with the temperature parameter set to 0.1. Cysteine residues were excluded during the generation to avoid the formation of intramolecular or intermolecular disulfide bonds. Before structural prediction, all sequences underwent a preliminary hydrophobicity assessment. To compensate for the loss, additional sequences will be generated using ProteinMPNN to supplement the dataset. Specifically, each of the 20 natural amino acids was assigned a hydrophobicity score, and the overall hydrophobicity of a protein was calculated as the average hydrophobicity score of its constituent residues. This step aimed to mitigate potential challenges in protein expression caused by excessive hydrophobicity.

The screened sequences were then subjected to structure prediction using ESMFold. The predicted structures were evaluated by calculating the pLDDT scores and comparing them with the original RFdiffusion-generated backbones to determine the C α RMSD values. Only structures with pLDDT scores above 90 and RMSD values below 0.2 nm were retained.

The structures that passed the ESMFold screening were then ranked by their pLDDT scores, and the top 1000 structures were further predicted using AlphaFold2 (five models with 12 recycles). The same pLDDT and RMSD criteria were applied, and the final 200 top-ranked structures based on pLDDT were selected for downstream MD simulation screening.

Using this iterative approach, we designed six SuperMyo proteins with progressively extended force-bearing β -chains, designated as series A, B, C, D, E, and F. The sequences and structures generated by the AI models were labeled using the format "SeriesName-StructureIndex-SequenceIndex." For example, 'A339' is an abbreviation for 'A_243_339.' The full names of these proteins are described in Data S2.

SMD Simulation for SuperMyo Unfolding.

To identify proteins with high unfolding forces, we conducted SMD simulations on target proteins predicted by AlphaFold2, using the GROMACS 2023.3 software package³. Protein structure files were pre-processed with the Biopython package to align the N-terminus and C-terminus along the z-axis, the designated pulling direction. The size of the simulation water box was determined based on the protein size and the pulling distance. Specifically, the x and y boundaries of the simulation box were set to 1.2 nm from the protein surface, while the z-axis length was calculated as the sum of the pulling distance and the folded protein's length along the z-axis. The pulling distance for each protein varied and was set to one-fourth of the contour length (pulling distance = $\Delta L_c * 0.25$). The systems were then solvated and neutralized using 150 mM NaCl. All simulation systems utilized the CHARMM36m force field⁴ and the TIP3P water model.

Prior to the SMD simulations, each system underwent 5000 steps of energy minimization to eliminate steric clashes and optimize the initial configuration. This was followed by 125 ps of NVT simulations with positional restraints on the protein backbone atoms. A subsequent 10 ns pre-equilibration in the NpT ensemble was conducted under periodic boundary conditions, maintaining a temperature of 310 K using the V-rescale thermostat and a pressure of 1 bar using the C-rescale barostat.

For the SMD simulations (repeated three times per protein), the C-terminal of the protein was restrained with a fixed harmonic potential (1000 kJ/mol/nm² for x, y, z direction), while a harmonic pulling potential (1000 kJ/mol/nm²) was applied along the positive z-axis to the C α atoms of the N-terminal residues to induce unfolding with a constant pulling speed (1 nm/ns or 0.1 nm/ns). The simulation time required for the pulling was determined by the pulling length and pulling speed, and was calculated as follows: time = pulling length (nm) / pulling speed (nm/ns). The force-distance curves generated from the SMD simulations provided the unfolding forces of the proteins. The mechanical strength of the protein was evaluated by averaging the unfolding forces obtained from the three simulations.

The force-bearing β -stands backbone hydrogen bonds analysis was performed on the SMD trajectories using the “gmhbond” utility from the GROMACS package, focusing specifically on the backbone atoms of these strands. A hydrogen bond was defined by the default geometric criteria (donor-acceptor distance less than 0.35 nm; hydrogen-donor-acceptor angle less than 30°). The number of hydrogen bonds was then plotted against simulation time using Python's Matplotlib library.

Annealing MD Simulation of SuperMyo

To screen for SuperMyo with better thermal stability, we conducted annealing simulations on the designed proteins. The simulations were performed using the GROMACS 2023.3 software package with the CHARMM36m force field and the TIP3P water model. The size of the cubic simulation box was determined by adding 2.4 nm to the longest axis of the protein to ensure adequate solvation. Prior to the annealing simulations, the systems underwent 5000 steps of energy minimization and 1 ns of position-restrained MD simulations.

During the annealing simulations, the solvent (water and ions) and the protein solute were temperature-controlled as two separate groups. In the 1000 ns simulations, the temperature was linearly increased from 0 K to 310 K over the first 10 ns and then further linearly increased to 413 K for the remainder of the simulation. The execution of the MD simulations was automatically managed by a Python script.

AFM-SMFS Unfolding Experiment.

The AFM cantilever/tip made of silicon nitride (MLCT-BIO-DC, Bruker Corp.) was used. The detailed protocol for AFM tip functionalization and protein immobilization on the glass coverslip can be found in reference⁵. In short, the tip and glass coverslip were coated with the amino group by amino-silanization. N₃- group is functionalized on the surface from the reaction between ImSO₂N₃·HCl and -NH₂. Then, a heterobifunctional DBCO-PEGn-Mal can be reacted and adds the Mal group. Next, the peptide GL-(ELP)₂₀-C was reacted to the maleimide via the cysteine, respectively. The long (ELP)₂₀ serves as a spacer to avoid non-specific interaction between the tip and the surface as well as a signature for the single-molecule event. Finally, target protein SuperMyo with C-terminal NAL sequence or Fgβ-GB1-NAL sequence can be site-specifically linked to the coverslip or tip by *Oa*AEPI, respectively.

Atomic force microscope (Nanowizard4, JPK) was used to acquire the force-extension curves. The D tip of the MLCT-Bio-DC cantilever was used. Its accurate spring constant was determined by a thermally-induced fluctuation method⁶. Typically, the tip contacted the protein-immobilized surface for 50 ms under an indentation force of 350 pN to ensure a site-specifically interaction. Then, moving the tip up vertically at a constant velocity (1 μm/s), the polyprotein unfolded. Then, the tip moved to another place to repeat this cycle several thousands of times. As a result, the force-extension curve was obtained, which was analyzed using JPK data process analysis software.

AFM-SMFS Refolding Experiment.

To evaluate the refolding capability of SuperMyo, protein unfolding experiments were performed using the SMFS method as previously described. When the vDeflection detected by the tip reached 1nN (less than the dissociation force of the sdrG-Fgβ complex, indicating that the complex had not dissociated), the tip immediately approaches to the substrate, and the unfolded SuperMyo protein was quickly relaxed to zero extension length (with the distance between the tip and the substrate being approximately 5nm). At this point, SuperMyo remained attached to the tip. After a 400 ms pause, the tip was retracted again to induce the unfolding of SuperMyo. This process was repeated hundreds of times until the sdrG-Fgβ complex dissociated, and SuperMyo was no longer picked up by the AFM tip, after which the next cycle started.

NMR Sample Preparation

^{15}N -labelled samples were prepared by supplementing the minimal (M9) medium with $^{15}\text{NH}_4\text{Cl}$ (1 g L^{-1}). $^{15}\text{N}/^{13}\text{C}$ -labelled samples were prepared by supplementing the minimal (M9) medium with $^{15}\text{NH}_4\text{Cl}$ (1 g L^{-1}) and $^{13}\text{C6}$ -glucose (2 g L^{-1}). BL21 grown in M9 medium at $37\text{ }^\circ\text{C}$ to an absorbance at 600 nm ($A_{600\text{ nm}}$) ≈ 0.6 . Protein induction was induced by the addition of 0.2 mM IPTG and cells were allowed to grow for 16 h at $18\text{ }^\circ\text{C}$. Cells were harvested and resuspended in lysis buffer (50 mM sodium phosphate, 500 mM NaCl, $\text{pH } 8.0$). Cells were disrupted by sonication. Proteins were purified using Ni Sepharose 6 Fast Flow resin, followed by gel filtration using Superdex 75 $16/600$ column.

NMR Structure Calculation

For resonance assignment, ^{15}N , ^{13}C -labeled A339 protein sample at concentration of $800\mu\text{M}$ is prepared in 93% $\text{H}_2\text{O}/7\%$ D_2O solution of 20 mM KPi ($\text{pH } 7.0$), 75 mM KCl, 0.05% NaN_3 and 1% Halt Protease Inhibitor Cocktail (Thermo Scientific). All NMR experiments were recorded on Bruker AVANCE 600-MHz devices equipped with 5-mm cryogenic probes. All NMR spectra were recorded at $25\text{ }^\circ\text{C}$. The spectra were processed with NMRPipe⁷ and analyzed using NMRFAM Sparky⁸. Backbone and side-chain resonances were assigned manually with the help of PINE⁹. $^1\text{H}^{\text{N}}$, H^{β} , H^{α} , ^{15}N , $^{13}\text{C}^{\alpha}$, $^{13}\text{C}^{\beta}$, and C' backbone resonance assignments were obtained from HNCACB, CBCA(CO)NH, CCCONH, HBHACONH, HCCCONH, HNCO, HN(CA)CO and CCHTOCSY.

NMR structures of A339 protein were generated using NOE peak lists from 3D ^{13}C -edited NOESY-HSQC, and ^{15}N -edited NOESY-HSQC from ^{13}C , ^{15}N -labelled samples. The $^{13}\text{C}^{\alpha}$, $^{13}\text{C}^{\beta}$, $^{13}\text{C}'$, ^{15}N and $^1\text{H}^{\text{N}}$ chemical shifts served as input for the TALOS-N program¹⁰ to extract dihedral angles (ϕ and ψ). A large number of intramolecular NOEs were collected for determining hydrogen bond. The structures were calculated with CYANA 3.98 ¹¹. Structure statistics were extracted from the PSVS¹².

Circular Dichroism Experiments

For circular dichroism (CD) experiments, SuperMyo were diluted to 0.1 mg/mL in 10 mM K- PO_4 ($\text{pH } 7.4$) buffer. Spectra were acquired on a Chirascan V100 (Applied Photophysics). The temperature of the sample was ramped from $25\text{ }^\circ\text{C}$ to $92\text{ }^\circ\text{C}$ with full spectrum scans from 190 nm to 260 nm performed after each $5\text{ }^\circ\text{C}$ interval. All reported measurements were acquired within the linear range of the instrument.

Heating Cycles and $150\text{ }^\circ\text{C}$ Heating Experiments

To verify the stability and functionality of SuperMyo under extreme temperature conditions, we subjected A339, B42, and A352 to 10 cycles of heat treatment ranging from $121\text{ }^\circ\text{C}$ to $-196\text{ }^\circ\text{C}$. The proteins used in this experiment differ from those in previous SMFS studies. Since sdrG loses its binding ability to $\text{Fg}\beta$ after heating, we

constructed the GGG-SuperMyo-NAL protein for heating experiments to avoid interfering with the results.

In each test, a 1.5 mL centrifuge tube containing 1 mL of a 1-2 mg/mL protein solution (with sterilization indicator tape on the outer wall) was placed into a polytetrafluoroethylene (PTFE) lined high-pressure reactor. The thermal-sensitive paper (thermax) was placed together into the reactor liner. The reactor was heated in an oven at 121°C or 150°C for 1 hour. After cooling to room temperature, a color change in the sterilization indicator tape was observed, accompanied by a color shift in the thermal-sensitive paper at the specified temperature. For 121°C heating test, the tube was then immersed in liquid nitrogen until the protein solution was completely frozen. This heating and cooling cycle was repeated ten times.

After the heating-cooling cycles, 40 μ L of GGG-SuperMyo-NAL was mixed with 10 μ L of *Oa*AEPI and applied to the substrate modified with GL-(ELP)₂₀. The reaction was carried out at 25°C for 1 hour. The substrate was then washed three times with ultrapure water and 1 M NaCl solution, respectively. Next, 40 μ L of sdrG-(GB1)₂-LPETGG was mixed with 10 μ L of mgSrtA, and CaCl₂ was added to a final concentration of 5 mM. This mixture was then dropped to the substrate and allowed to react at 25°C for 1 hour. The substrate was subsequently washed three times with ultrapure water and 1 M NaCl solution, respectively. After this, the SMFS experiment was conducted as previously described.

Hydrogel Construction and Rheology Measurements

60 μ L of 4-arm PEG-Spycatcher (120 mg/mL lyophilized powder dissolved in PBS buffer, pH 7.2) is mixed with 40 μ L of Spytag-I27-Spytag-I27-Spytag (100 mg/mL in PBS), or 40 μ L of Spytag-339-Spytag-339-Spytag (119 mg/mL in PBS), or 40 μ L of Spytag-42-Spytag-42-Spytag (113 mg/mL in PBS). The mixture is vortexed and then centrifuged at 8000 rpm for 30 seconds. Following centrifugation, the solution is transferred to a tube or measurement plate, where it is left to stand at room temperature for 5 minutes to form the gel.

Rheology was performed on a TA DHR-2 Rheometer, with an 8 mm standard flat steel parallel plate. The edge of the gel was surrounded with silicone oil to minimize evaporation. Strain sweep experiments were performed at 10 rad/s from 0.1-100 % strain amplitude at 25 °C. Temperature sweeps were run from 25-95 °C at a rate of 5 °C min⁻¹ and a frequency of 10 rad/s at strain of 2%.

Supplementary Text

Protein sequences:

Titin I27:

LIEVEKPLYGVEVFVGETAHFEIELSEPDVHGQWKLKGQPLAASPDCEIIEDG
KKHILILHNCQLGMTGEVSFQAANTKSAANLKVCEL

A218:

KKAKLKIKKTIGKTTVKLEIEAKFPNGKKIKVNLTVKVGGVSLEEALKEVDKE
IEKIKKDIKKGDVEYDIELTVKS MEDALKVAEYLEKKVEKVIEEYAKELGVEE
IEKEKEVIE

A25:

AKTATYTFRVDVRHPDLEEKALEGLKKGFDFVISQAKDPEVKAWLKKLKEE
LLAQAPAWIAHVLATGEPVTVTYENPELGIKVTLEIRLERGRRERLVITVTLTD
LKDKSGEKEEKEEVIEP

A339:

MVEGVLTIELSDSVPEEVKEKVKATVEELAERARKEMGLEVKIEEKDGVITV
KAKGEEKVKKFFEEVIAALKKIAAENGLKVETELTEEKAKVENGKEIKGKIT
GKVRISA

B42:

MKKIEVIEEEEIEEVIELENASDEEIKKLFEEKIKKLIIEIEKEKGYELVKKEIEEE
VEKKENEIYYTKKVTLTFRSKKDPNKIYVVKYTLTVINKLP

B501:

MKVEVETVTKTVTVEAYEGETKNVTVTLTGKTYNFTIDTKNKTVDNNTGK
VYPLTKVSDDTYQATVTETEEVAPGKKKVYNIVINVKILKKKVL

B347:

MKKIIVIEENEEITIELENATEEEIEKLFKEIEKKIKEIEEEKGYELKKKEIKEEK
KEEENKIVYTKKVTLTFKSKKDPNLIYVLNLTITVINKKK

C352:

MTVIEENKTTVNFNITFKAELPEGATAKVTVKLIADGKLIDEKTITLKNGETKT
VKFETDEKETITVEITVEVPGKKPGKLTLYNSKTKSLEV KVDKNVIKKVEIK
KETTKEETEEETDSDGNKIIKKKTNTTININLTITI

C328:

MKVIKEEKTTFNITFKADLPEGQTATVKVQLIADGKLEKEETITLKNGETKT
VKFSTEAKEKIEVKIEVTVPGQEPGTLTYDSKTEKLTVEVTPNVIKKVDVN
VTKDVKESKEVKTNENGEVIITEKKETTINIDVNVTV

C92:

AKGTVTGTININYTVTWTKDGKKITLNFVTVTETLKEGDAAKEKETTEKTET
EVTDSDGTKYKVTINVKTKSKAELKDGLVLNVEVTVNITLDPETGEKKET
TLNKTETLTVPQAVDPKTGLPKDSSGKTKTVTVNKTVIEW

D300 (Expression failed):

EVKYYVKVEITIKTRLRFESELYDPAGRLLRREEWEHEKEEKKEYEEVSPEE
KEEVILKFFKEELEKALEEVRAWFLAQVERVDPRLVPAVARLLDELFEKVLK
EALALKKKENATFEAEARHEERFPGEVELRLRLKLSLKIEESTEKKDNEITT
TIKLEVTIEASGLLRKRLLP

D397:

ATKYSVKLNLTNLTKSKFSYEEYNAEGELLKEEEEIEIEEKTENYTFEETVETEE
DLPAAEQALLDKANAIEKELQALIDKLQKILDKLGYKEFKPTLDKALAETSA
KIKEALASGKDTTITVTEEKELEKPGKVKGKITITVTISDVKEETKVEETEETV
VTKTITINVNINLEAKVIVKKKK

D399:

STKYRVKLNLTNLTKSSFSYERYDAAGRLLERREELENKTENLTFEREVETE
EELPAAKAELIEEAVKVIEKKLEELFEKLRKRLEELGLTEVEPLLDEALKETKA
KVKKALASGKDSTITVTREGRFERPGEEVEVTITVTVKISNVKTETEVVEEEEE
VTTTTINIDVDIEVSARVRIRLKP

E57:

AEVKEVTIKEDKTKVKINITVNTSASASWEEKSPTTTSSSSLELPSKTKTFEKEF
EVGETVEIEIKEKEKFSTTVTVTTKTPTTTTTEEREVEVEYEREIKITVKVKEED
GKLILEVKVEAKGKLKITFKETGEEIEIDLETKVEIKLVSIKEETEKKKETKTVN
NTKITKETTTKTITIDLKIDITESGHYESYL

E203 (Expression failed):

MEVKEEVEEKKEETVVINITININASVSWEKKSPTESSSLEFPKKTKNFKKE
FKYGEEIEINENLEESFEATVKVTTKTPTETIEEEREVSVKFKYSINIKVKVEKK
DGKLIIDVEVKAEGKVTITDKETGETKEIELEVKINIKIKNIKTETKESEETKVE
DNVKKTKKTTKTTTTTIELEIDINMKGEKVEYK

E389:

AEVTEETEEENKEKVKNVTLNNTSSASWTKKSATTTETSSLTFPATSTTFTK
EMEYGETITITEESTETFTTTTVTVTTKTATKTTTSEREYEVYKRSVNITIKVSK
EDGKLNVEVNVASATVTLKNKETGEVKTINLDVTVTVNLVSLSTETETKEE
TEVEDNVIKTKKTTTTTTTTIDLNININSSGHLEEYE

F422 (Expression failed):

MIVNVKVKVELEAKATVNANLNANVNVNVTLTVTDASGTTTTLTATGSGSA
TASTTLEKEEKKLKEEEKTIEVSEEELPAVLEEIEKEIEKKKKEAKEEAETAK
ELLKELAEKVSLTASASASASITYNGITVTANANVNANLTATYDKATGKLTFT

LNANANANATVSDPNKTLATVSASVSATVTVTADNSSASNTNSNSASKSVPN
ITLSVNVNVNANLNSKLEEKLEVKVEKEKEEKEEDGVKVITLKYEIKVKAER
KLTINANANANANATVTING

F553:

VKVKLNVTVNTKSKAKANVTLNANANVTVTVTDTAADGTVTTTTGTGTGS
GTASASEEAEKEETEKKEEEREFETEEAEKYVEEKIKEIIEKLVPEYSEKAKK
ESKKLLKEEVKKLAGLTVSASATATVTDAGNTETLTLNLTATLSYDEATGK
VTLNANATVTDAAAGNTLLTASATATADLTSNDTVTATATATATYTEGGKTV
TYNLTVNATLTVKKEEKVETEVKVEKEEEVIDGVKVITVNINITVKSESKVDI
NGTANANATKTVTRTG

F600 (Expression failed):

MILKINVTVNTNSKATVKAKFEAKVKATAVRRTTAPDGTVTETVVEAEGEA
KEEAEELEKEEKETKEEKEEIEVETEEELEKLIKEYKEKAKKLAEELKKALEK
AKEMAKELAPKVVAEVSACLWEKFETVLA AVLAKILAALSEAAHPLVEAAA
AEALATARELAKKVSDPELLAKIDEKDVEVEAKASGEREAEFPDGTTL SVKWE
VKVKGKAERKEEGKVEIKIELESILEDGTKVYTLNINIDVTAKVTATFEGKV
EVKLTAETIVG

Construct for AFM unfolding experiments:

Fgβ-GB1-his6-NAL:

MG**NEEGFFSARGHRPLD**SGSGGGGS**YKLILNGKTLKGETTTEAVDAATAEKVF**
KQYANDNGVDGEWTYDDATKTFTVTEGSHHHHHHHGGGGSNAL

sdrG-GB1-XX-GB1-his6-NAL (XX = SuperMyo protein)

MGEQGSNVNHLIKVTDQSITGEYDDSDGIIKAHDAENLIYDVTFEVDDKVKS
GDTMTVNIDKNTVPSDLTDSFAIPKIKDNSGEIATGTVDNTNKQITYTFTDYV
DKYENIKAHLKLTSYIDKSKVPNNNTKLDVEYKTALSSVNKTITVEYQKPNE
NRTANLQSMFTNIDTKNHTVEQTIYINPLRYSAKETNVNISGNGDEGSTIIDDS
TIIKVYKVGDNQNLPSNRIYDYSEYEDVTNDDYAQLGNNNDVNINFGNIDS
PYIIKVISKYDPNKDDYTTIQQTVTMQTTINEYTGEFRTASYDNTIAFSTSSGQ
GQGDLPPEKTYKLILNGKTLKGETTTEAVDAATAEKVFKQYANDNGVDGEW
TYDDATKTFTVTEGSGGSGGS**XX**RSGGSGSTYKLILNGKTLKGETTTEAVDA
ATAEKVFKQYANDNGVDGEWTYDDATKTFTVTEGSHHHHHHHGGGGSNAL

sdrG-GB1-GB1-his6-LPETGG

MGEQGSNVNHLIKVTDQSITGEYDDSDGIIKAHDAENLIYDVTFEVDDKVKS
GDTMTVNIDKNTVPSDLTDSFAIPKIKDNSGEIATGTVDNTNKQITYTFTDYV
DKYENIKAHLKLTSYIDKSKVPNNNTKLDVEYKTALSSVNKTITVEYQKPNE
NRTANLQSMFTNIDTKNHTVEQTIYINPLRYSAKETNVNISGNGDEGSTIIDDS
TIIKVYKVGDNQNLPSNRIYDYSEYEDVTNDDYAQLGNNNDVNINFGNIDS
PYIIKVISKYDPNKDDYTTIQQTVTMQTTINEYTGEFRTASYDNTIAFSTSSGQ
GQGDLPPEKTYKLILNGKTLKGETTTEAVDAATAEKVFKQYANDNGVDGEW

TYDDATKTFTVTEGSYKLILNGKTLKGETTTEAVDAATAEKVFKQYANDNG
VDGEWTYDDATKTFTVTEGSHHHHHHGGGGSLPETGG

For thermal cycle AFM experiments:

GGG-**XX**-his8 -strep tag II-NAL (XX = SuperMyo protein)
MGGGSGGS**XX**RSGGGSGTHHHHHHHHGSGWSHPQFEKTRNAL

Construct for hydrogel experiments:

linker-spytag-linker-**XX**-linker-spytag-linker-**XX**-linker-spytag-linker-his6 (XX =
I27, A339 or B42)
GGGGSAHIVMVDA**Y**KPTKGGGG**SXX**GGGGSAHIVMVDA**Y**KPTKGGGG**SXX**
GGGGSAHIVMVDA**Y**KPTKGGGGSHHHHHH

Fig. 1.

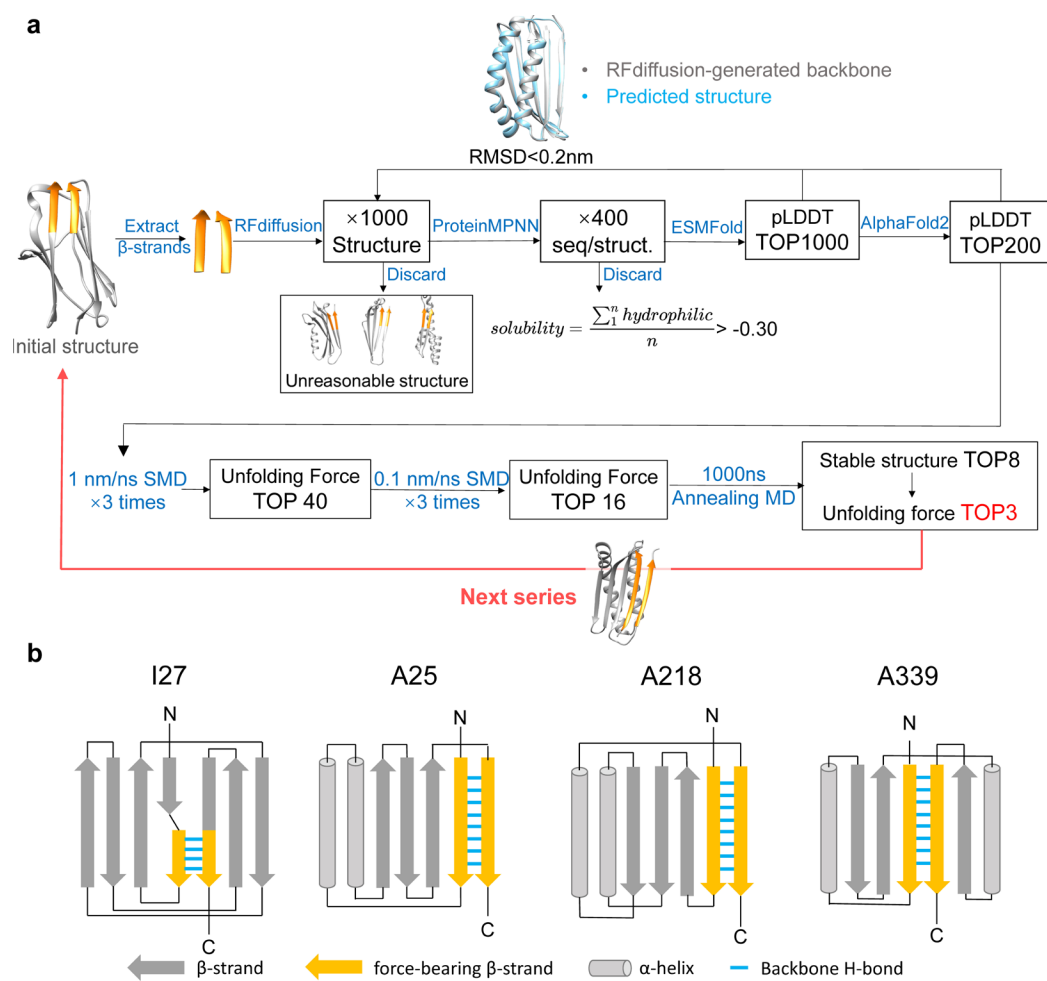


Fig. 1 Schematic of the SuperMyo protein design. a, Flowchart of the SuperMyo Design Process: Starting with the extraction of force-bearing β -strands from an initial structure, novel protein designs are generated using RFdiffusion, ProteinMPNN, and deep learning-based structure prediction tools. Mechanical and thermodynamic properties are then screened using SMD and annealing simulations. **b**, Topologies of the I27 and SuperMyo A-series proteins (A25, A218 and A339). Arrows denote β -strands and cylinders denote α -helices. Force-bearing β -strands are colored yellow, and backbone hydrogen bonds are shown as blue lines. The initial design significantly extended the force-bearing β -strands relative to the titin I27 template.

Fig. 2.

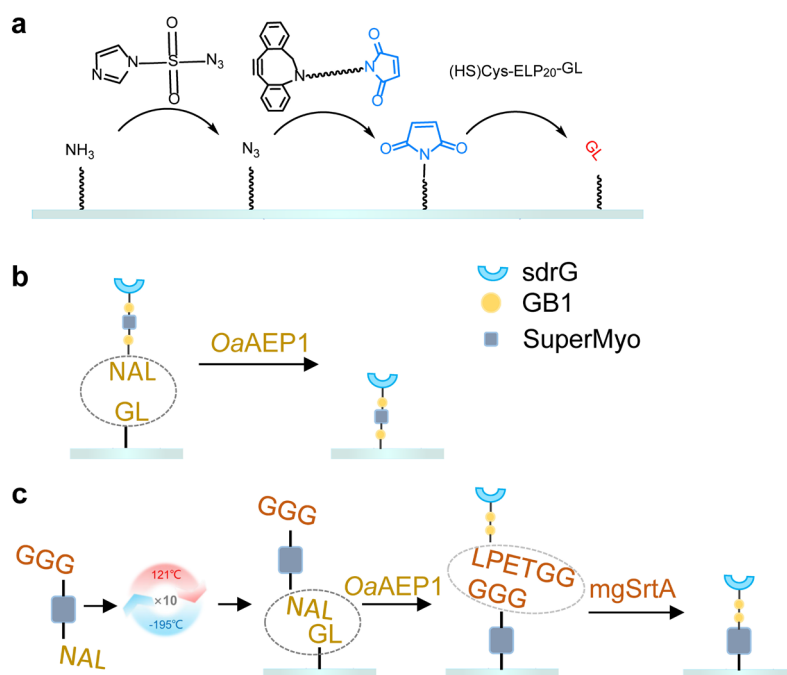


Fig. 2 Protein Immobilization in AFM-SMFS Experiments. **a**, Peptide GL-(ELP)₂₀-Cys is modified on a glass substrate (or AFM tip) that has been functionalized with maleimide through Michael addition reaction. **b**, The N-terminus GL can undergo an enzymatic ligation reaction with the C-terminus NAL of the target protein in the presence of *OaAEP1*, thereby immobilizing the target protein on the substrate or AFM tip. **c**, To avoid the influence of fusion proteins (sdrG and GB1) on the heating cycle tests, the GGG-SuperMyo-NAL protein is subjected to heating cycles alone. Afterward, the N-terminal NAL is ligated to the GL tag on the substrate using *OaAEP1*. Subsequently, the molecular handle and the fingerprint protein sdrG-(GB1)₂ with the C-terminal LPETGG are ligated to the N-terminal GGG of SuperMyo through mgSrtA.

Fig. 3.

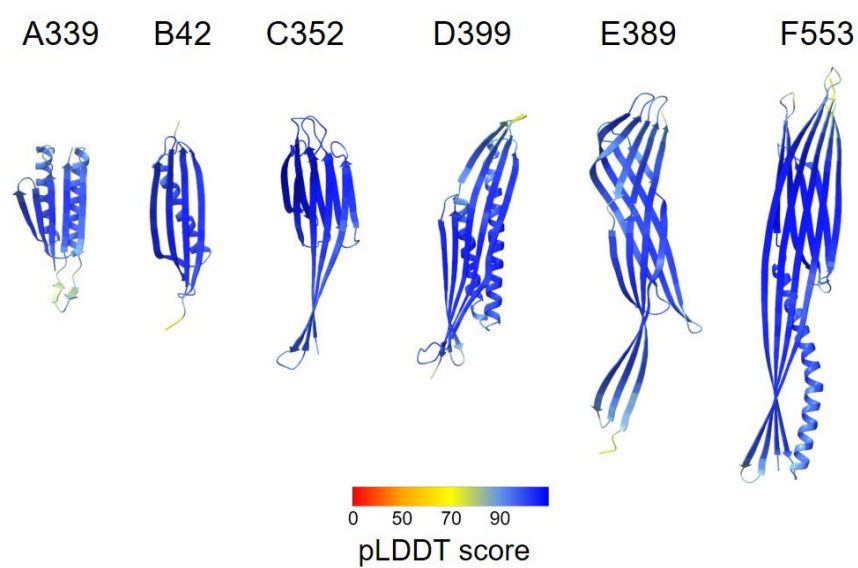


Fig. 3 AlphaFold2 Structure Prediction Results. The structure predictions of SuperMyo A339, B42, C352, D399, E389 and F553, respectively, as predicted by AlphaFold2. Blue indicates high confidence in the predicted results.

Fig. 4.

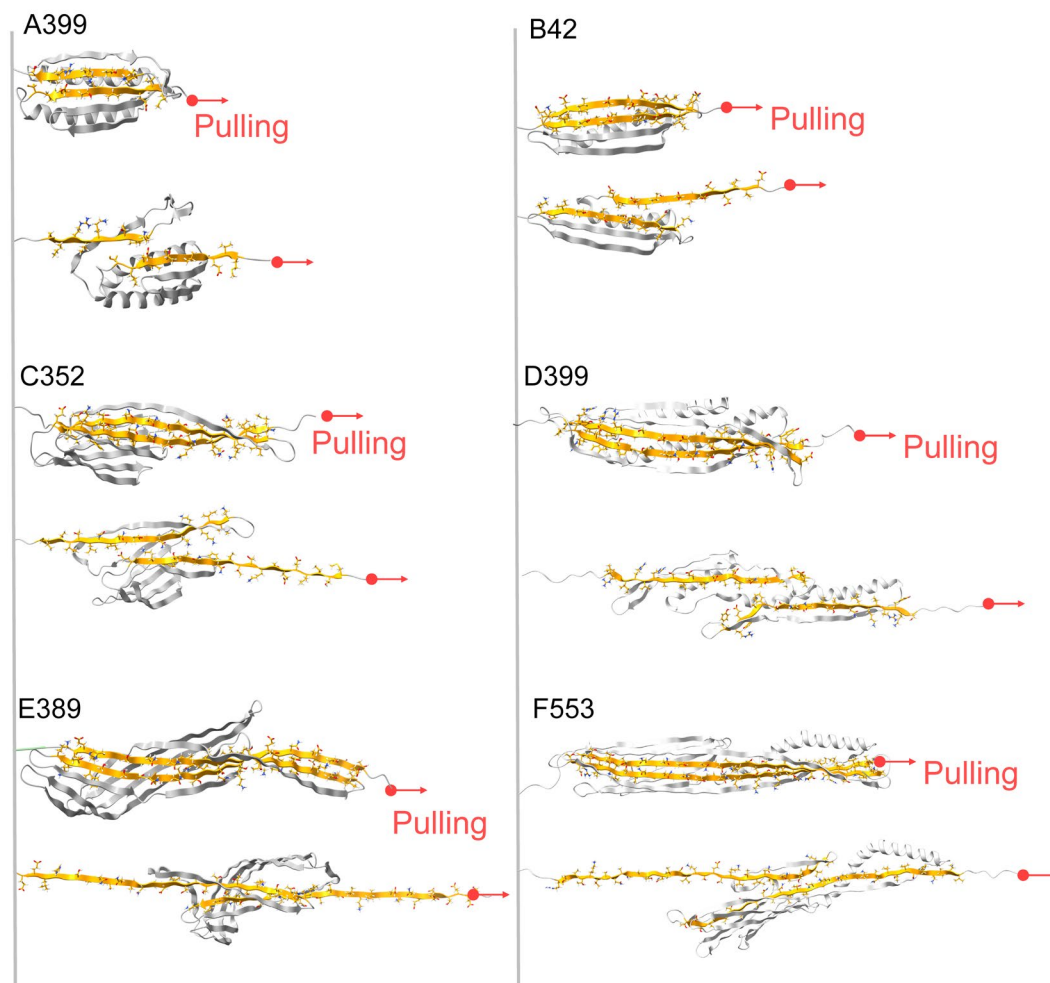


Fig. 4 Unfolding snapshot of SuperMyo in SMD Simulations. The protein's C-terminus is fixed using a harmonic potential, while a pulling force is applied to the N-terminus along the z-axis at a rate of 0.1 nm/ns, inducing unfolding. The force-bearing β -strands (shown in yellow) undergo shear unfolding first.

Fig. 5.

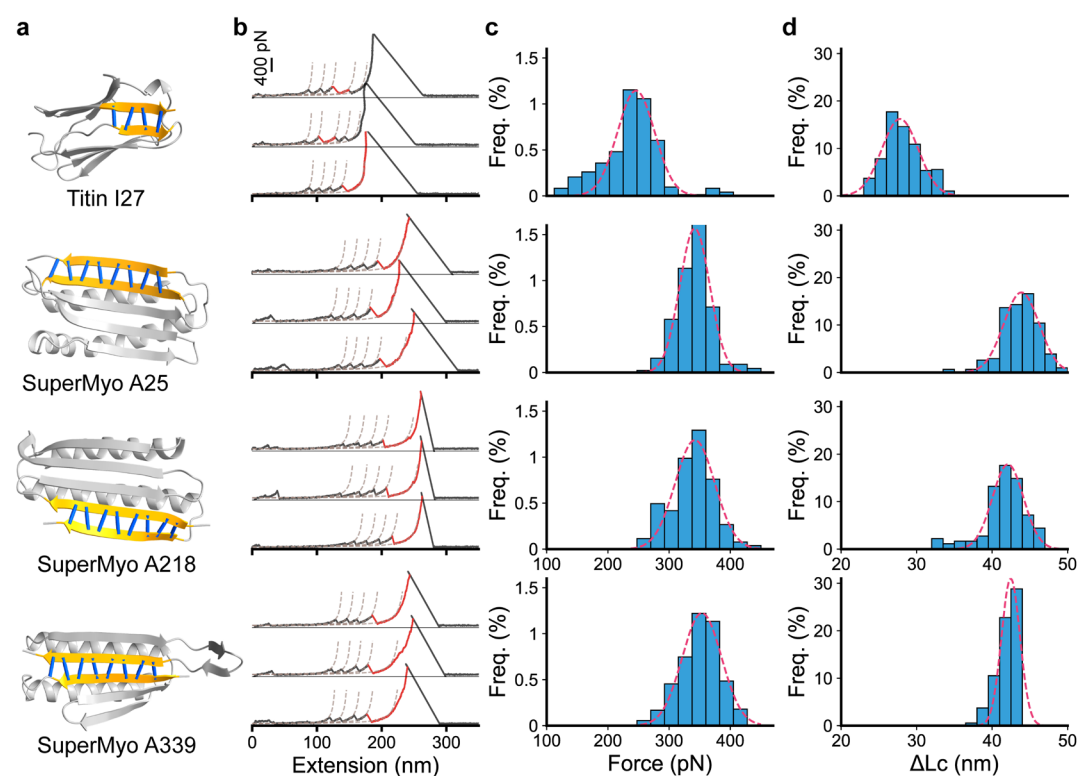


Fig. 5 AFM-SMFS Results of Titin I27 and A-series. **a**, From top to bottom, the protein structures of the I27 and SuperMyo A series proteins (A25, A218, A339) are shown. The yellow regions represent the force-bearing β -strands, with the main chain hydrogen bonds indicated by blue lines. **b**, For each protein, three representative force curves are shown, with the red portions representing the unfolding events of the proteins. **c**, The statistical histogram of the unfolding forces for the corresponding proteins. **d**, The statistical histogram of the ΔLc during protein unfolding.

Fig. 6.

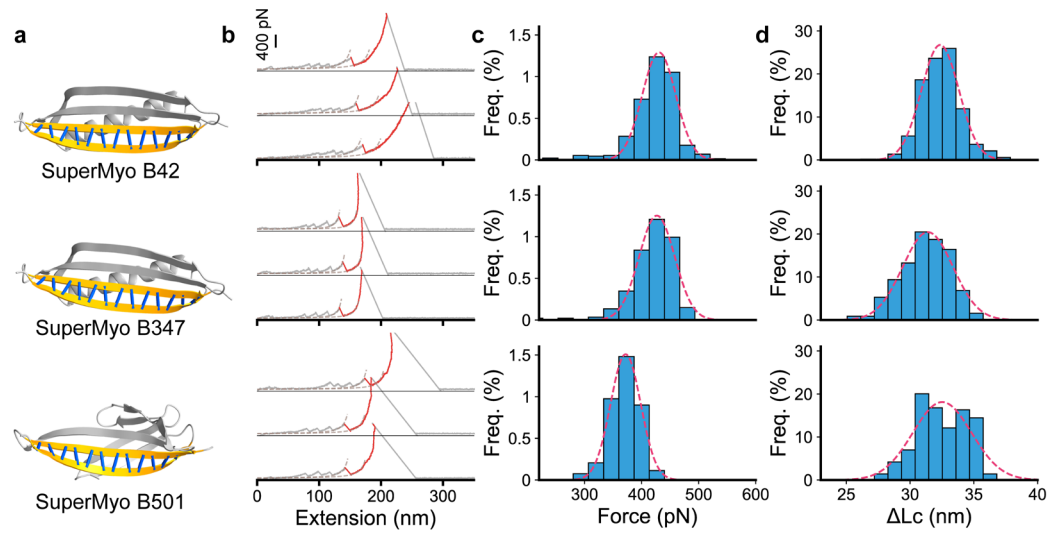


Fig. 6 AFM-SMFS Results of B-series. **a**, From top to bottom, the protein structures of the SuperMyo B series proteins (B42, B347, B501) are shown. The yellow regions represent the force-bearing β -strands, with the main chain hydrogen bonds indicated by blue lines. **b**, For each protein, three representative force curves are shown, with the red sections representing the unfolding events of the proteins. **c**, The statistical histogram of the unfolding forces for the corresponding proteins. **d**, The statistical histogram of the ΔLc during protein unfolding.

Fig. 7.

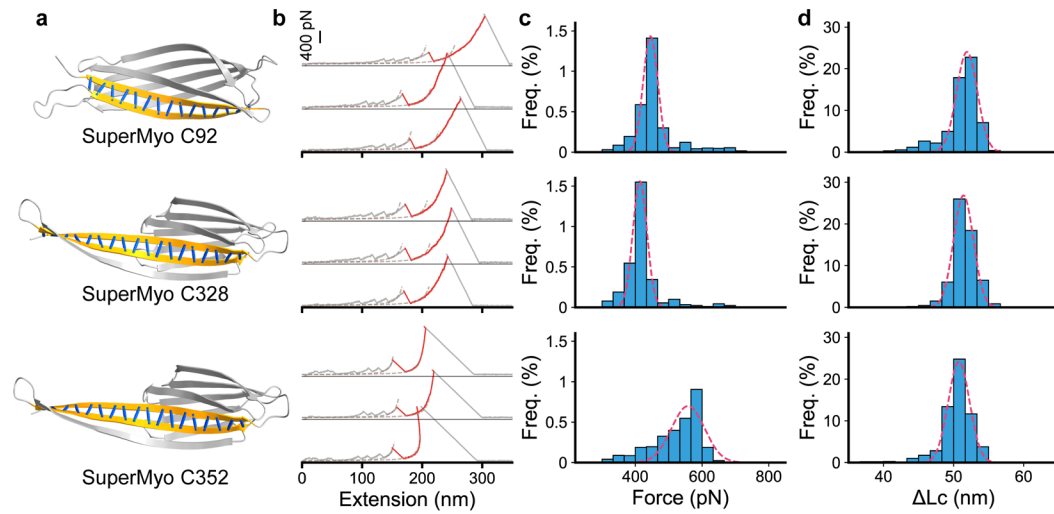


Fig. 7 AFM-SMFS Results of C-series. **a**, From top to bottom, the protein structures of the SuperMyo C series proteins (C92, C328, C352) are shown. The yellow regions represent the force-bearing β -strands, with the main chain hydrogen bonds indicated by blue lines. **b**, For each protein, three representative force curves are shown, with the red sections representing the unfolding events of the proteins. **c**, The statistical histogram of the unfolding forces for the corresponding proteins. **d**, The statistical histogram of the ΔLc during protein unfolding.

Fig. 8.

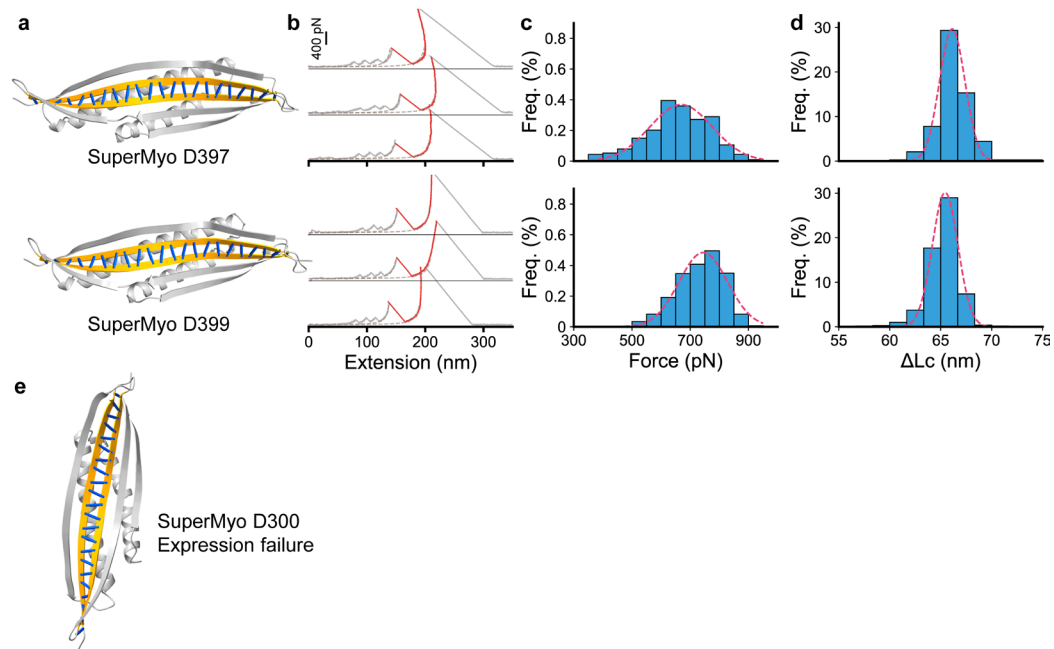


Fig. 8 AFM-SMFS Results of D-series. **a**, the protein structures of the SuperMyo D397 and D399 are shown. The yellow regions represent the force-bearing β -strands, with the main chain hydrogen bonds indicated by blue lines. **b**, For each protein, three representative force curves are shown, with the red sections representing the unfolding events of the proteins. **c**, The statistical histogram of the unfolding forces for the corresponding proteins. **d**, The statistical histogram of the ΔLc during protein unfolding. **e**, Represents the structures of D300, which failed to express.

Fig. 9.

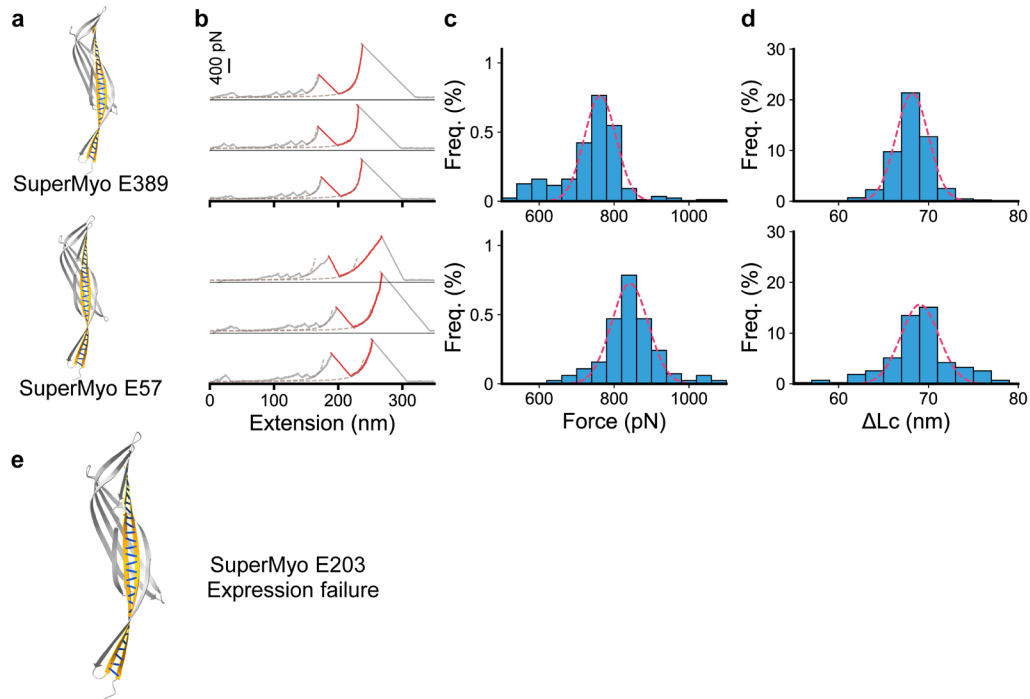


Fig. 9 AFM-SMFS Results of E389. **a**, the protein structures of the SuperMyo E57 and E389 are shown. The yellow regions represent the force-bearing β -strands, with the main chain hydrogen bonds indicated by blue lines. **b**, For each protein, three representative force curves are shown, with the red sections representing the unfolding events of the proteins. **c**, The statistical histogram of the unfolding forces for the corresponding proteins. **d**, The statistical histogram of the ΔLc during protein unfolding. **e**, represents the structure of E203, which failed to express.

Fig. 10.

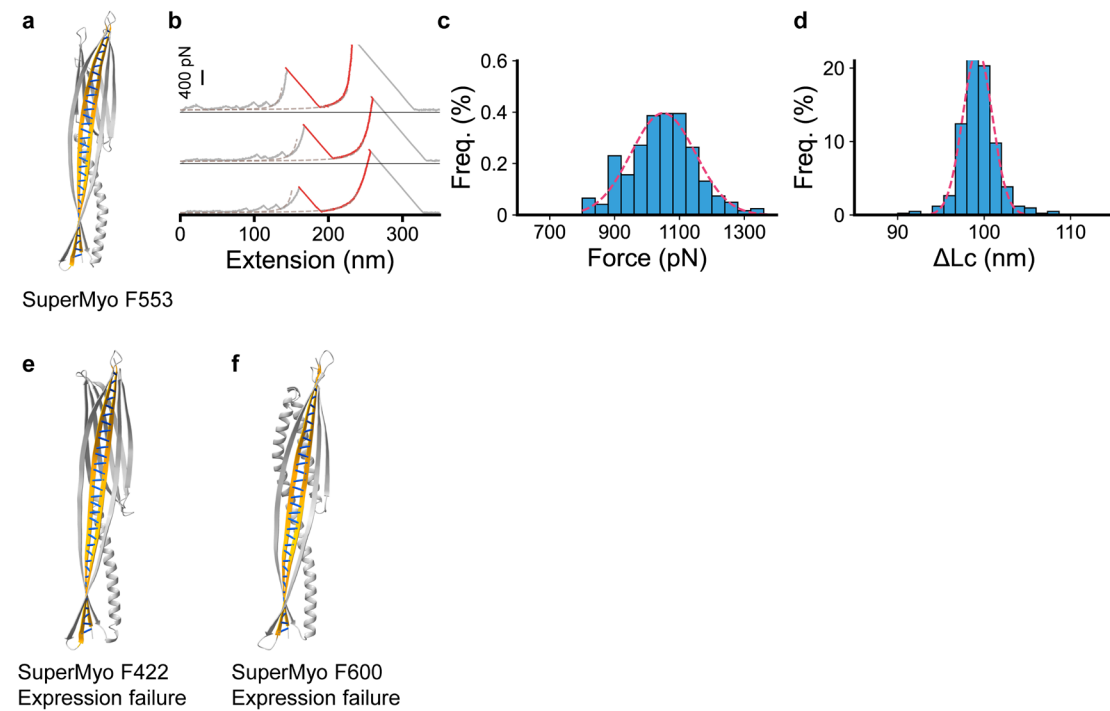


Fig. 10 AFM-SMFS Results of F553. **a**, the protein structures of the SuperMyo F553 are shown. The yellow regions represent the force-bearing β -strands, with the main chain hydrogen bonds indicated by blue lines. **b**, For each protein, three representative force curves are shown, with the red sections representing the unfolding events of the proteins. **c**, The statistical histogram of the unfolding forces for the corresponding proteins. **d**, The statistical histogram of the ΔLc during protein unfolding. **e** and **f** represent the structures of F422 and F600, respectively; both proteins failed to express.

Fig. 11.

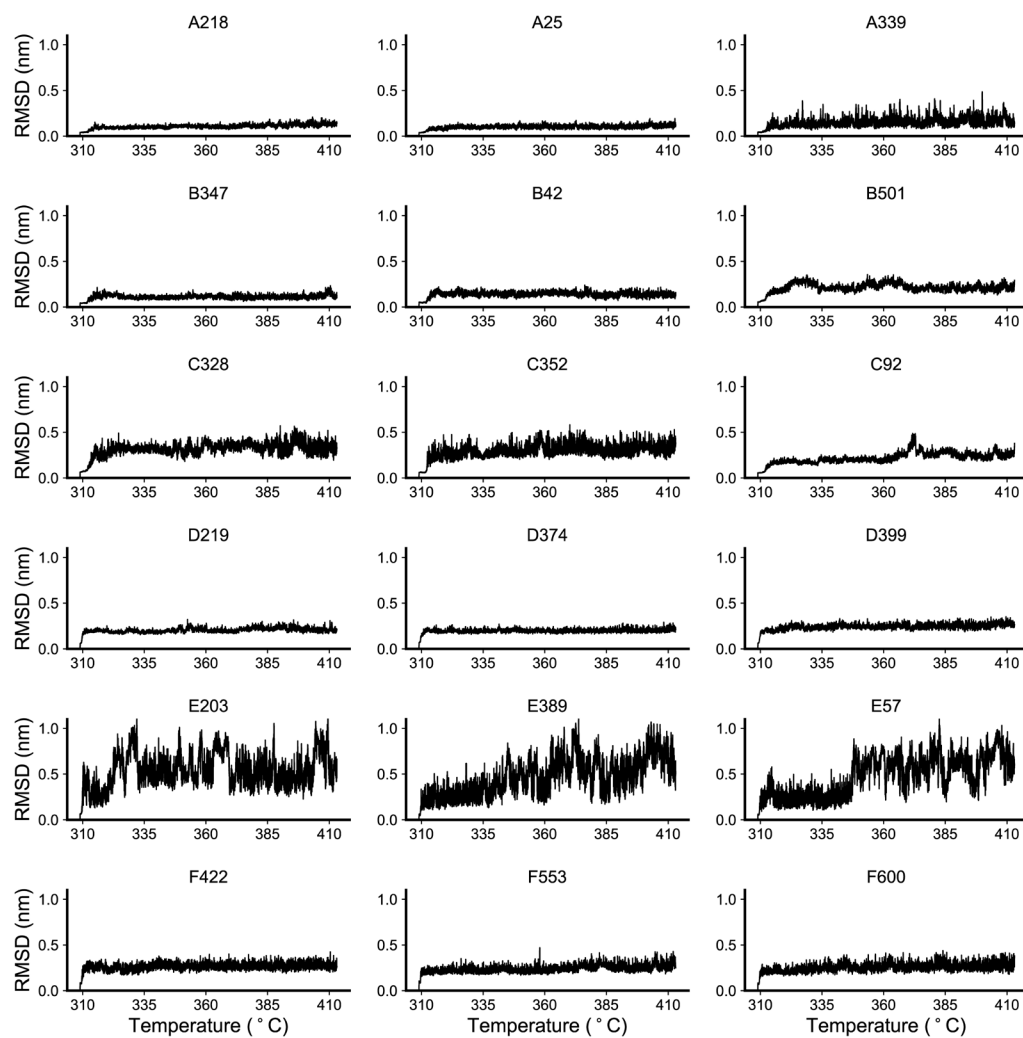


Fig. 11 RMSD analysis of SuperMyo in Annealing Simulations. During the 1000 ns annealing MD simulation, the temperature gradually increased from 0 K to 413 K, and the structural changes of SuperMyo throughout this process can be reflected in the RMSD values.

Fig. 12.

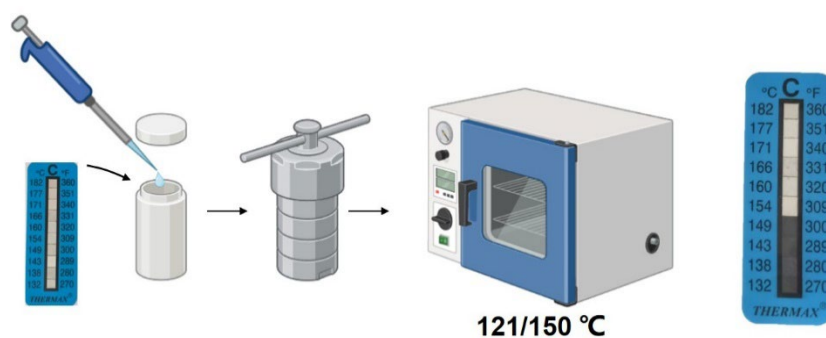


Fig. 12 Schematic of Protein Heating Experiment. The protein sample is placed in a PTFE-lined high-pressure reactor and heated in an oven to temperatures above 100°C (121°C or 150°C). Temperature-sensitive paper is placed inside the reactor to ensure the target temperature is reached.

Fig. 13.

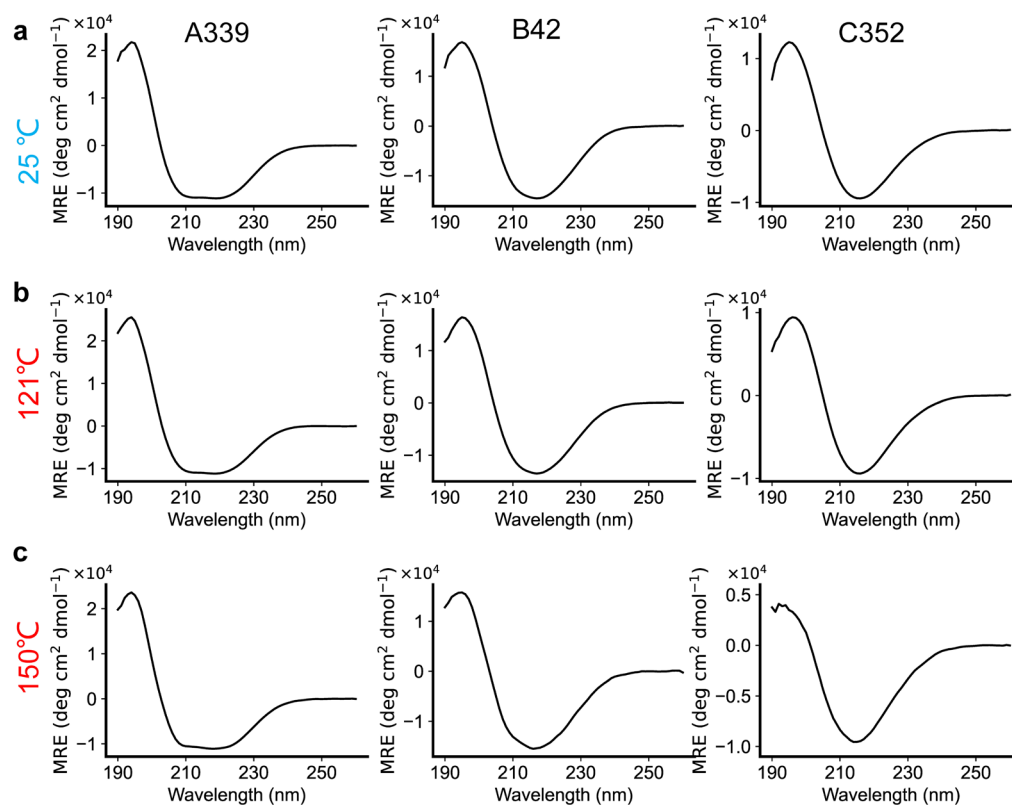


Fig. 13 CD Experiments of Mechanical Proteins After Heat Treatment. a, CD results of untreated SuperMyo at 25°C. **b,** CD results of proteins after 10 cycles of heating from -196°C to 121°C. From right to left are A339, B42 and C352. **c,** CD results of proteins after heating at 150°C. From right to left are A339, B42 and C352.

Fig. 14.

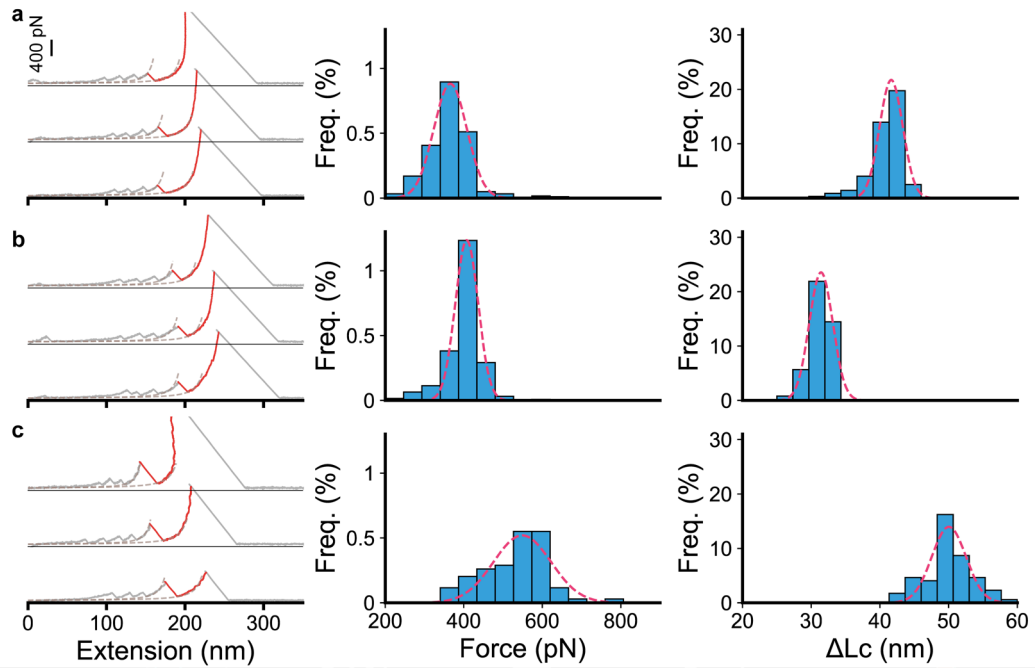


Fig. 14 Force Spectroscopy Experiments of SuperMyos After 150°C Heat Treatment. **a**, The left panel shows the typical force curves of SuperMyo A339 after 150°C heating. The middle panel displays the corresponding unfolding force histogram. The right panel presents the ΔLc histogram. **b** and **c** show the force spectroscopy results for B42 and C352, respectively.

Table 1. Statistics of Mechanical Properties of SuperMyo Proteins

Name	H-bonds	SMFS (10^3 nm/s)				MW (kDa)	SMD (10^8 nm/s)	
		Force (pN)	Ave. LR (pN/s)	Δ Lc (nm)	n		Force (pN)	Ave. LR (pN/s)
I27	4	246 $\pm$ 2	2 $\times 10^4$	27.8 $\pm$ 0.1	324	9.8	996	5 $\times 10^{10}$
A25	8	342 $\pm$ 2	2 $\times 10^4$	44.0 $\pm$ 1.6	205	13.9	1371	3 $\times 10^{10}$
A218	8	342 $\pm$ 3	2 $\times 10^4$	42.1 $\pm$ 0.2	121	13.1	1345	5 $\times 10^{10}$
A339	8	352 $\pm$ 1	3 $\times 10^4$	42.5 $\pm$ 0.04	715	12.4	1300	5 $\times 10^{10}$
B42	13	431 $\pm$ 1	3 $\times 10^4$	32.4 $\pm$ 0.1	488	11.7	1390	7 $\times 10^{10}$
B347	13	427 $\pm$ 1	3 $\times 10^4$	31.4 $\pm$ 0.1	531	11.7	1373	1 $\times 10^{11}$
B501	13	372 $\pm$ 2	3 $\times 10^4$	32.5 $\pm$ 0.2	201	10.8	1409	7 $\times 10^{10}$
C92	15	443 $\pm$ 1	3 $\times 10^4$	51.9 $\pm$ 0.1	773	15.6	1596	5 $\times 10^{10}$
C328	18	412 $\pm$ 2	3 $\times 10^4$	51.4 $\pm$ 0.1	277	16.0	1627	5 $\times 10^{10}$
C352	18	559 $\pm$ 2	5 $\times 10^4$	50.8 $\pm$ 0.05	891	16.1	1618	5 $\times 10^{10}$
D397	23	669 $\pm$ 7	5 $\times 10^4$	66.1 $\pm$ 0.08	231	20.9	1821	6 $\times 10^{10}$
D399	23	744 $\pm$ 3	7 $\times 10^4$	65.4 $\pm$ 0.05	658	21.3	1974	4 $\times 10^{10}$
E57	28	763 $\pm$ 3	8 $\times 10^4$	68.2 $\pm$ 0.1	220	22.3	2045	6 $\times 10^{10}$
E389	28	839 $\pm$ 3	9 $\times 10^4$	69.0 $\pm$ 0.1	215	21.6	2038	5 $\times 10^{10}$
F553	33	1050 $\pm$ 6	1 $\times 10^5$	99.2 $\pm$ 0.1	317	29.0	2516	3 $\times 10^{10}$

Note: (1) The values for Force (pN) and Δ Lc (nm) are presented as mean $\pm$ SEM from Gaussian fitting. (2) LR represent force loading rate.

Table 2. Structure and NMR statistics of A339

Structure	A339
Distance restraints*	
NOEs	
Short range (intraresidue and sequential)	588
Medium range ($1 < i-j < 5$)	196
Long range ($ i-j \geq 5$)	165
Intermolecular	-
Hydrogen bonds	136
Dihedral angle restranints (ϕ and ψ)	215
Violations (mean and SD)	
Distance restraints (Å)	0.028±0.037
Dihedral angle restraints (°)	0.589±0.549
Structural coordinates rmsd	
Backbone atoms	0.49 Å
All heavy atoms	1.03 Å
Ramachandran plot	
Most-favored regions	99.7%
Additionally allowed regions	0.03%
Generously allowed regions	0.0%
Disallowed regions	0.0%

*The statistics apply to the 10 lowest-energy structures of each of the complexes.

Table 3. Statistical Results of the Unfolding Forces of SuperMyo Subjected to Extreme Heating Conditions

Name	10×121 °C		150 °C	
	Force (pN)	<i>n</i>	Force (pN)	<i>n</i>
A339	385±3	197	366±2	393
B42	424±1	468	408±2	264
C352	561±5	310	549±8	73

Supplementary Video 1.

Video of SMD simulation of A339

Supplementary Video 2.

Video of SMD simulation of B42

Supplementary Video 3.

Video of SMD simulation of C352

Supplementary Video 4.

Video of SMD simulation of D399

Supplementary Video 5.

Video of SMD simulation of E389

Supplementary Video 6.

Video of SMD simulation of F553

Supplementary Video 7.

Video of Annealing simulation of A339

Supplementary Video 8.

Video of Annealing simulation of B42

Supplementary Video 9.

Video of Annealing simulation of C352

Supplementary Video 10.

Video of Annealing simulation of D399

Supplementary Video 11.

Video of Annealing simulation of E389

Supplementary Video 12.

Video of Annealing simulation of F553

Supplementary Data 1.

Compressed ZIP file Supplementary Data 1 contains the AF2 predicted structure files of the top three designs in the SuperMyo A-F series.

Supplementary Data 2.

Compressed ZIP file Supplementary Data 2 contains the CSV tables in the SI file include the pLDDT scores from AF2 outputs, pLDDT scores from ESMFold outputs, the average unfolding forces from three 1 nm/ns SMD simulations, the

average unfolding forces from three 0.1 nm/ns SMD simulations, and the maximum RMSD values of the proteins observed during the annealing simulation in the SuperMyo design process.

Supplementary References

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sion(nm)	ce(pN) of	sion(nm)	ce(pN) of	ion(nm)	ce(pN) of	ion(nm)	ce(pN) of
0	48.275527	0	-3.743303	0	-1.557203	0	-9.069288
0.0005	46.377017	0.001	-3.842481	0.001	-0.857787	0.001	-8.521091
0.001	42.731525	0.002	-4.076624	0.002	0.4016577	0.002	-7.383482
0.0015	37.632372	0.003	-4.495344	0.003	1.9664666	0.003	-5.600838
0.002	31.492535	0.004	-5.122206	0.004	3.5117447	0.004	-3.148258
0.0025	24.807206	0.005	-5.90901	0.005	4.7013326	0.005	-0.080095
0.003	18.101023	0.006	-6.70515	0.006	5.2497131	0.006	3.4357991
0.0035	11.864502	0.007	-7.263714	0.007	4.9735173	0.007	7.1138626
0.004	6.4885742	0.008	-7.293417	0.008	3.8205699	0.008	10.585207
0.0045	2.2090007	0.009	-6.544175	0.009	1.8700419	0.009	13.46759
0.005	-0.926404	0.01	-4.896073	0.01	-0.694201	0.01	15.454439
0.0055	-3.056078	0.011	-2.417358	0.011	-3.626781	0.011	16.395665
0.006	-4.461983	0.012	0.6307434	0.012	-6.66584	0.012	16.340407
0.0065	-5.489322	0.013	3.8430372	0.013	-9.566579	0.013	15.520866
0.007	-6.445655	0.014	6.7538189	0.014	-12.11648	0.014	14.275763
0.0075	-7.508086	0.015	8.9269404	0.015	-14.13427	0.015	12.935194
0.008	-8.670369	0.016	10.028815	0.016	-15.46198	0.016	11.706113
0.0085	-9.75187	0.017	9.8731112	0.017	-15.96255	0.017	10.601072
0.009	-10.46933	0.018	8.4390359	0.018	-15.53204	0.018	9.4392598
0.0095	-10.54834	0.019	5.8708439	0.019	-14.12836	0.019	7.922872
0.01	-9.835527	0.02	2.464027	0.02	-11.80896	0.02	5.7633296
0.0105	-8.371437	0.021	-1.362477	0.021	-8.762941	0.021	2.8123426
0.011	-6.399545	0.022	-5.112365	0.022	-5.320831	0.022	-0.849857
0.0115	-4.309943	0.023	-8.277813	0.023	-1.929191	0.023	-4.901621
0.012	-2.538555	0.024	-10.4181	0.024	0.9127957	0.024	-8.847882
0.0125	-1.454951	0.025	-11.23501	0.025	2.7451184	0.025	-12.14628
0.013	-1.271732	0.026	-10.62493	0.026	3.2460241	0.026	-14.34959
0.0135	-1.998345	0.027	-8.692188	0.027	2.3115034	0.027	-15.21929
0.014	-3.447416	0.028	-5.718566	0.028	0.0910378	0.028	-14.77777
0.0145	-5.287259	0.029	-2.097527	0.029	-3.033126	0.029	-13.28918
0.015	-7.123414	0.03	1.7490997	0.03	-6.519344	0.03	-11.18228
0.0155	-8.586753	0.031	5.4508132	0.031	-9.773012	0.031	-8.94349
0.016	-9.406345	0.032	8.7467173	0.032	-12.25768	0.032	-7.011582
0.0165	-9.45175	0.033	11.511759	0.033	-13.5838	0.033	-5.697442
0.017	-8.73966	0.034	13.748434	0.034	-13.55861	0.034	-5.140409
0.0175	-7.410499	0.035	15.548695	0.035	-12.19471	0.035	-5.30168
0.018	-5.687525	0.036	17.036813	0.036	-9.68698	0.036	-5.98909
0.0185	-3.831873	0.037	18.308746	0.037	-6.372215	0.037	-6.905131
0.019	-2.102293	0.038	19.386011	0.038	-2.683106	0.038	-7.708957
0.0195	-0.72185	0.039	20.199857	0.039	0.8984029	0.039	-8.081861
0.02	0.1502471	0.04	20.612902	0.04	3.8900396	0.04	-7.78493
0.0205	0.4428191	0.041	20.47166	0.041	5.8642088	0.041	-6.69923
0.021	0.1897356	0.042	19.670005	0.042	6.5097362	0.042	-4.843487
0.0215	-0.46752	0.043	18.197622	0.043	5.6937815	0.043	-2.370214
0.022	-1.299124	0.044	16.153604	0.044	3.5094366	0.044	0.4543397
0.0225	-2.030124	0.045	13.721535	0.045	0.2900284	0.045	3.2804457
0.023	-2.401085	0.046	11.120613	0.046	-3.426334	0.046	5.7119244
0.0235	-2.231985	0.047	8.557519	0.047	-6.987298	0.047	7.3495109
0.024	-1.472256	0.048	6.2001297	0.048	-9.759425	0.048	7.8405457
0.0245	-0.223173	0.049	4.179245	0.049	-11.27288	0.049	6.9317792

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0.026 3.6179466	0.052 1.2463639	0.052 -7.897946	0.052 -4.358384
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0.0275 0.9711618	0.055 4.6120185	0.055 -1.146102	0.055 -21.98849
0.028 -1.855553	0.056 6.9747784	0.056 0.0559049	0.056 -26.9962
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0.034 1.6366769	0.068 22.827804	0.068 17.665767	0.068 -2.671488
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0.133 4.5700407	0.266 10.05428	0.266 43.913896	0.266 15.066445
0.1335 8.2618176	0.267 9.7940514	0.267 46.62252	0.267 13.325407
0.134 10.578949	0.268 10.15335	0.268 47.893607	0.268 10.939065
0.1345 11.466872	0.269 11.063629	0.269 47.598811	0.269 7.914794
0.135 11.144419	0.27 12.365429	0.27 45.76614	0.27 4.2954474
0.1355 10.03853	0.271 13.842704	0.271 42.588713	0.271 0.1844526
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0.2155	-2.288065	0.431	46.065377	0.431	9.6923877	0.431	9.594707
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0.3395 18.100964	0.679 18.296263	0.679 -10.60364	0.679 21.019266
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0.3445 14.015207	0.689 25.397409	0.689 9.8535245	0.689 37.875133
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0.361 18.739925	0.722 12.743665	0.722 32.818785	0.722 2.9286122
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0.386 -7.819385	0.772 24.824981	0.772 0.9588245	0.772 3.8888077
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0.3925 12.18769	0.785 25.76011	0.785 16.582528	0.785 28.803838
0.393 13.51135	0.786 30.083174	0.786 16.522798	0.786 28.317702
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0.657 -34.58989	1.314 -2.956606	1.314 51.993444	1.314 18.322201
0.6575 -31.41612	1.315 -2.437871	1.315 55.368913	1.315 17.865949
0.658 -26.00861	1.316 -1.091188	1.316 57.082432	1.316 17.572638
0.6585 -18.59225	1.317 1.0157974	1.317 56.9114	1.317 17.189485
0.659 -9.646145	1.318 3.7110624	1.318 54.846903	1.318 16.447209
0.6595 0.1294177	1.319 6.7274785	1.319 51.097552	1.319 15.124398
0.66 9.8819016	1.32 9.7340392	1.32 46.05624	1.32 13.114074
0.6605 18.707203	1.321 12.384189	1.321 40.236484	1.321 10.472637
0.661 25.769958	1.322 14.371281	1.322 34.190943	1.322 7.4346277
0.6615 30.42441	1.323 15.479514	1.323 28.428928	1.323 4.3853589
0.662 32.314087	1.324 15.620008	1.324 23.350792	1.324 1.7943336

0.6625	31.431512	1.325	14.844705	1.325	19.213249	1.325	0.1228049
0.663	28.126446	1.326	13.334736	1.326	16.130899	1.326	-0.273771
0.6635	23.05972	1.327	11.364556	1.327	14.107743	1.327	0.774924
0.664	17.107316	1.328	9.2483945	1.328	13.08294	1.328	3.2126146
0.6645	11.226083	1.329	7.2804976	1.329	12.971758	1.329	6.7628841
0.665	6.2994347	1.33	5.6834729	1.33	13.687516	1.33	10.980427
0.6655	2.9887797	1.331	4.5778632	1.331	15.141	1.331	15.331982
0.666	1.62148	1.332	3.9802608	1.332	17.225148	1.332	19.285721
0.6665	2.1441443	1.333	3.828236	1.333	19.79896	1.333	22.389847
0.667	4.1573698	1.334	4.0215309	1.334	22.682582	1.334	24.329008
0.6675	7.0261957	1.335	4.46418	1.335	25.667047	1.335	24.955873
0.668	10.036849	1.336	5.0936436	1.336	28.532502	1.336	24.299921
0.6685	12.555105	1.337	5.8898448	1.337	31.063913	1.337	22.555199
0.669	14.142247	1.338	6.8656408	1.338	33.056295	1.338	20.046648
0.6695	14.601342	1.339	8.0464552	1.339	34.310545	1.339	17.175234
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0.6705	12.355446	1.341	11.058401	1.341	33.833345	1.341	11.903311
0.671	10.023032	1.342	12.825373	1.342	31.786419	1.342	10.058366
0.6715	7.1426007	1.343	14.65004	1.343	28.457418	1.343	8.8781914
0.672	3.8424389	1.344	16.386568	1.344	23.967865	1.344	8.2863735
0.6725	0.1985465	1.345	17.852476	1.345	18.619426	1.345	8.1011419
0.673	-3.725614	1.346	18.853616	1.346	12.874049	1.346	8.0851732
0.6735	-7.827946	1.347	19.224425	1.347	7.2831171	1.347	7.993603
0.674	-11.92977	1.348	18.876269	1.348	2.382275	1.348	7.6105866
0.6745	-15.77146	1.349	17.839102	1.349	-1.415087	1.349	6.7717773
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0.6755	-21.49256	1.351	14.480296	1.351	-5.03044	1.351	3.3838066
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0.7635 -14.12032	1.527 -7.900572	1.527 35.075724	1.527 45.837501
0.764 -15.5321	1.528 -3.913345	1.528 39.199168	1.528 44.799099

0.7645	-17.12693	1.529	-0.73047	1.529	43.439663	1.529	42.638127
0.765	-18.47697	1.53	1.5162821	1.53	47.301402	1.53	39.447993
0.7655	-19.22529	1.531	2.8771428	1.531	50.257405	1.531	35.411627
0.766	-19.17328	1.532	3.5372941	1.532	51.830672	1.532	30.793257
0.7665	-18.31875	1.533	3.7536388	1.533	51.679618	1.533	25.929566
0.767	-16.83856	1.534	3.7951979	1.534	49.673305	1.534	21.212583
0.7675	-15.02749	1.535	3.9003248	1.535	45.937721	1.535	17.055428
0.768	-13.21648	1.536	4.2549141	1.536	40.854258	1.536	13.836894
0.7685	-11.69425	1.537	4.9878542	1.537	34.999904	1.537	11.830132
0.769	-10.6492	1.538	6.1755084	1.538	29.036013	1.538	11.130796
0.7695	-10.13856	1.539	7.84693	1.539	23.572973	1.539	11.606879
0.77	-10.08361	1.54	9.9851657	1.54	19.051659	1.54	12.892639
0.7705	-10.28734	1.541	12.525377	1.541	15.680528	1.541	14.440554
0.771	-10.47102	1.542	15.354939	1.542	13.447906	1.542	15.628776
0.7715	-10.32729	1.543	18.321791	1.543	12.200059	1.543	15.901503
0.772	-9.585143	1.544	21.254219	1.544	11.749849	1.544	14.903821
0.7725	-8.077561	1.545	23.98925	1.545	11.970121	1.545	12.568903
0.773	-5.796776	1.546	26.400914	1.546	12.834685	1.546	9.1281266
0.7735	-2.91927	1.547	28.417352	1.547	14.393483	1.547	5.040182
0.774	0.2138915	1.548	30.018793	1.548	16.696365	1.548	0.8633999
0.7745	3.1651743	1.549	31.216046	1.549	19.700323	1.549	-2.886006
0.775	5.5052751	1.55	32.018004	1.55	23.200706	1.55	-5.846008
0.7755	6.9273128	1.551	32.402406	1.551	26.816761	1.551	-7.862951
0.776	7.3351937	1.552	32.303944	1.552	30.04075	1.552	-8.983288
0.7765	6.8745745	1.553	31.627419	1.553	32.336347	1.553	-9.398762
0.777	5.8911935	1.554	30.283433	1.554	33.254703	1.554	-9.370601
0.7775	4.8255932	1.555	28.234479	1.555	32.531487	1.555	-9.156119
0.778	4.0767165	1.556	25.534067	1.556	30.136773	1.556	-8.952327
0.7785	3.8801644	1.557	22.34316	1.557	26.267827	1.557	-8.862075
0.779	4.2438556	1.558	18.916008	1.558	21.295337	1.558	-8.883073
0.7795	4.9643353	1.559	15.558454	1.559	15.687947	1.559	-8.918528
0.78	5.7175629	1.56	12.571281	1.56	9.9427276	1.56	-8.807385
0.7805	6.189851	1.561	10.195493	1.561	4.5398431	1.561	-8.369763
0.781	6.1992592	1.562	8.5741543	1.562	-0.076791	1.562	-7.459108
0.7815	5.7620828	1.563	7.7380895	1.563	-3.506241	1.563	-6.009008
0.782	5.0818184	1.564	7.6141773	1.564	-5.404111	1.564	-4.062006
0.7825	4.4694337	1.565	8.0487733	1.565	-5.516056	1.565	-1.771253
0.783	4.2299514	1.566	8.8370056	1.566	-3.728976	1.566	0.6273791
0.7835	4.559862	1.567	9.7509172	1.567	-0.121603	1.567	2.8670177
0.784	5.4897775	1.568	10.563578	1.568	5.0113978	1.568	4.7126553
0.7845	6.8840231	1.569	11.06999	1.569	11.182124	1.569	6.0185067
0.785	8.4861085	1.57	11.107295	1.57	17.782754	1.57	6.7639187
0.7855	9.986841	1.571	10.575995	1.571	24.193612	1.571	7.0576989
0.786	11.093078	1.572	9.4610293	1.572	29.896203	1.572	7.1104073
0.7865	11.584336	1.573	7.8477295	1.573	34.558998	1.573	7.1843682
0.787	11.35304	1.574	5.9244787	1.574	38.073023	1.574	7.5376109
0.7875	10.42659	1.575	3.9637055	1.575	40.531062	1.575	8.3776233
0.788	8.9670258	1.576	2.2771662	1.576	42.161705	1.576	9.8340709
0.7885	7.2425178	1.577	1.1502473	1.577	43.241807	1.577	11.950375
0.789	5.5697298	1.578	0.7701626	1.578	44.014427	1.578	14.687458
0.7895	4.2369173	1.579	1.1695041	1.579	44.634065	1.579	17.932316

0.79 3.4288168	1.58 2.2053477	1.58 45.149813	1.58 21.508616
0.7905 3.1782062	1.581 3.5843305	1.581 45.524454	1.581 25.192258
0.791 3.3615066	1.582 4.9295071	1.582 45.677654	1.582 28.737044
0.7915 3.7395806	1.583 5.8715569	1.583 45.536643	1.583 31.9123
0.792 4.0278547	1.584 6.1401689	1.584 45.078234	1.584 34.54696
0.7925 3.9704786	1.585 5.6326234	1.585 44.350724	1.585 36.567592
0.793 3.3954335	1.586 4.4436388	1.586 43.471143	1.586 38.015313
0.7935 2.2389279	1.587 2.8501384	1.587 42.600808	1.587 39.030736
0.794 0.541259	1.588 1.254431	1.588 41.90791	1.588 39.80578
0.7945 -1.574455	1.589 0.0985083	1.589 41.52847	1.589 40.51319
0.795 -3.928006	1.59 -0.230222	1.59 41.535652	1.59 41.234627
0.7955 -6.30489	1.591 0.5222774	1.591 41.923109	1.591 41.912414
0.796 -8.475943	1.592 2.4342481	1.592 42.603182	1.592 42.346104
0.7965 -10.21796	1.593 5.4117684	1.593 43.41753	1.593 42.24263
0.797 -11.33879	1.594 9.2321237	1.594 44.157288	1.594 41.31055
0.7975 -11.70563	1.595 13.606524	1.595 44.591203	1.595 39.37066
0.798 -11.27003	1.596 18.236936	1.596 44.501267	1.596 36.44476
0.7985 -10.08053	1.597 22.848936	1.597 43.724309	1.597 32.787737
0.799 -8.276616	1.598 27.197856	1.598 42.194556	1.598 28.84636
0.7995 -6.063974	1.599 31.060411	1.599 39.977966	1.599 25.154652
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0.8005 -1.352035	1.601 36.530201	1.601 34.465747	1.601 20.296811
0.801 0.7135166	1.602 37.841067	1.602 31.944519	1.602 19.521646
0.8015 2.3536798	1.603 38.133143	1.603 30.166237	1.603 19.694419
0.802 3.4410654	1.604 37.482656	1.604 29.501916	1.604 20.43077
0.8025 3.8831075	1.605 36.060245	1.605 30.171233	1.605 21.227787
0.803 3.6278641	1.606 34.092003	1.606 32.186641	1.606 21.567487
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0.804 1.1182294	1.608 29.392715	1.608 39.196768	1.608 19.331455
0.8045 -0.892357	1.609 26.975552	1.609 43.217179	1.609 16.490153
0.805 -3.113693	1.61 24.633962	1.61 46.787827	1.61 12.747074
0.8055 -5.267025	1.611 22.432997	1.611 49.348412	1.611 8.5882793
0.806 -7.08218	1.612 20.45989	1.612 50.469188	1.612 4.6498485
0.8065 -8.347298	1.613 18.837678	1.613 49.902516	1.613 1.5898706
0.807 -8.945194	1.614 17.704505	1.614 47.595975	1.614 -0.053694
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0.8085 -7.191211	1.617 17.760444	1.617 32.132064	1.617 5.024648
0.809 -6.044337	1.618 18.511772	1.618 25.313543	1.618 9.171788
0.8095 -5.083418	1.619 19.124956	1.619 18.421468	1.619 13.650143
0.81 -4.617312	1.62 19.235092	1.62 11.95145	1.62 17.872858
0.8105 -4.914701	1.621 18.558315	1.621 6.3739241	1.621 21.346994
0.811 -6.154199	1.622 16.971591	1.622 2.0821342	1.622 23.714964
0.8115 -8.380529	1.623 14.556197	1.623 -0.661389	1.623 24.761518
0.812 -11.48001	1.624 11.5909	1.624 -1.764605	1.624 24.402333
0.8125 -15.18537	1.625 8.4937132	1.625 -1.318336	1.625 22.668803
0.813 -19.1124	1.626 5.7254233	1.626 0.4250308	1.626 19.694714
0.8135 -22.82184	1.627 3.6801483	1.627 3.1033145	1.627 15.701475
0.814 -25.89389	1.628 2.5938891	1.628 6.3157926	1.628 10.975543
0.8145 -27.99974	1.629 2.4979869	1.629 9.6984367	1.629 5.8357325
0.815 -28.95661	1.63 3.230909	1.63 12.986738	1.63 0.5952207

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0.8195	-17.20161	1.639	15.012457	1.639	41.209191	1.639	-25.69642
0.82	-17.29832	1.64	16.776762	1.64	43.990992	1.64	-25.83196
0.8205	-17.52557	1.641	18.472385	1.641	45.897675	1.641	-25.31517
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0.822	-17.36977	1.644	20.356593	1.644	44.492266	1.644	-18.74328
0.8225	-16.67355	1.645	19.142026	1.645	41.68638	1.645	-14.87764
0.823	-15.516	1.646	16.84197	1.646	38.046897	1.646	-10.51078
0.8235	-13.81372	1.647	13.537547	1.647	33.895487	1.647	-6.027565
0.824	-11.49786	1.648	9.4340205	1.648	29.573597	1.648	-1.837971
0.8245	-8.553029	1.649	4.847497	1.649	25.405493	1.649	1.7183214
0.825	-5.063416	1.65	0.1779524	1.65	21.671081	1.65	4.4440789
0.8255	-1.244359	1.651	-4.133318	1.651	18.587755	1.651	6.3075768
0.826	2.5604562	1.652	-7.661031	1.652	16.300404	1.652	7.4114492
0.8265	5.9244566	1.653	-10.06187	1.653	14.8799	1.653	7.9241394
0.827	8.4177695	1.654	-11.13699	1.654	14.330408	1.654	8.0040412
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0.828	9.5814249	1.656	-9.462709	1.656	15.618464	1.656	7.1654539
0.8285	8.0764103	1.657	-7.249976	1.657	17.273983	1.657	6.2240797
0.829	5.3613895	1.658	-4.681886	1.658	19.464672	1.658	4.8753263
0.8295	1.7246035	1.659	-2.204236	1.659	22.084812	1.659	3.118302
0.83	-2.517383	1.66	-0.171998	1.66	25.030215	1.66	1.0397671
0.8305	-7.092857	1.661	1.2167597	1.661	28.19593	1.661	-1.163662
0.831	-11.8165	1.662	1.9448029	1.662	31.471001	1.662	-3.187966
0.8315	-16.58803	1.663	2.15462	1.663	34.731371	1.663	-4.651693
0.832	-21.35287	1.664	2.0929901	1.664	37.833377	1.664	-5.15457
0.8325	-26.04423	1.665	2.0401808	1.665	40.611484	1.665	-4.360263
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0.8355	-41.6869	1.671	9.0161251	1.671	41.06539	1.671	21.757804
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0.8665 -7.044442	1.733 4.5191509	1.733 19.662769	1.733 22.593537
0.867 -5.567183	1.734 5.9127825	1.734 20.21717	1.734 24.125683
0.8675 -2.756954	1.735 6.3625275	1.735 21.193942	1.735 25.509638
0.868 1.0979366	1.736 5.9235908	1.736 22.641813	1.736 26.761816
0.8685 5.5778213	1.737 4.8386897	1.737 24.619344	1.737 27.826476
0.869 10.204903	1.738 3.4794495	1.738 27.140882	1.738 28.589759
0.8695 14.52144	1.739 2.2548867	1.739 30.126808	1.739 28.913326
0.87 18.157673	1.74 1.5148933	1.74 33.382908	1.74 28.677384
0.8705 20.879952	1.741 1.4760551	1.741 36.621822	1.741 27.82187
0.871 22.615312	1.742 2.186754	1.742 39.52144	1.742 26.375678
0.8715 23.452262	1.743 3.5342601	1.743 41.799347	1.743 24.466842
0.872 23.618898	1.744 5.2849737	1.744 43.276138	1.744 22.310817
0.8725 23.440196	1.745 7.1435947	1.745 43.905993	1.745 20.17848
0.873 23.27848	1.746 8.8171269	1.746 43.767294	1.746 18.349532
0.8735 23.464874	1.747 10.072225	1.747 43.022406	1.747 17.060046
0.874 24.233263	1.748 10.776984	1.748 41.866793	1.748 16.454963
0.8745 25.669787	1.749 10.920515	1.749 40.489138	1.749 16.556828
0.875 27.688808	1.75 10.606845	1.75 39.056092	1.75 17.260137
0.8755 30.041355	1.751 10.024749	1.751 37.721908	1.751 18.355702
0.876 32.355886	1.752 9.4011438	1.752 36.650496	1.752 19.581719
0.8765 34.205211	1.753 8.9502529	1.753 36.030744	1.753 20.689578
0.877 35.188078	1.754 8.8313655	1.754 36.06809	1.754 21.506029
0.8775 35.009681	1.755 9.1242894	1.755 36.945555	1.755 21.972227
0.878 33.543331	1.756 9.8252861	1.756 38.761811	1.756 22.145988
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0.879 27.199329	1.758 12.110316	1.758 44.821036	1.758 22.184538
0.8795 22.936822	1.759 13.439498	1.759 48.40109	1.759 22.306446
0.88 18.472798	1.76 14.725817	1.76 51.658463	1.76 22.533513
0.8805 14.15249	1.761 15.884601	1.761 54.0223	1.761 22.758256
0.881 10.188091	1.762 16.883082	1.762 55.018855	1.762 22.795783
0.8815 6.6196429	1.763 17.740107	1.763 54.374245	1.763 22.447237
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0.8825 0.0619552	1.765 19.243474	1.765 48.349854	1.765 20.136846
0.883 -3.421335	1.766 19.964031	1.766 43.645478	1.766 18.24209
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0.884 -11.63114	1.768 21.109431	1.768 33.473877	1.768 13.922599
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0.885 -20.69439	1.77 20.881235	1.77 25.523807	1.77 10.378605
0.8855 -24.62191	1.771 19.889327	1.771 23.127789	1.771 9.1851539
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0.8865 -29.05128	1.773 16.14687	1.773 21.64017	1.773 7.7230578
0.887 -28.99715	1.774 13.745902	1.774 22.221072	1.774 7.2406626
0.8875 -27.35919	1.775 11.344018	1.775 23.343445	1.775 6.8241484
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0.8885 -20.01212	1.777 7.4274014	1.777 26.18302	1.777 6.1836801
0.889 -14.82732	1.778 6.0667797	1.778 27.554185	1.778 6.0003161
0.8895 -9.024052	1.779 4.9782081	1.779 28.826637	1.779 5.8782066
0.89 -2.906858	1.78 3.9468841	1.78 30.067458	1.78 5.7075385
0.8905 3.1982733	1.781 2.7484707	1.781 31.401864	1.781 5.3153529
0.891 8.938305	1.782 1.227614	1.782 32.974881	1.782 4.510361
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0.892 17.882194	1.784 -2.759901	1.784 37.33823	1.784 1.1863245
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0.8975 -7.011715	1.795 3.5613415	1.795 74.499418	1.795 0.8220429
0.898 -8.36826	1.796 4.6997659	1.796 73.030272	1.796 4.746094
0.8985 -8.71699	1.797 5.4927299	1.797 69.913519	1.797 8.5396091
0.899 -8.224363	1.798 6.1541066	1.798 65.320314	1.798 11.843974
0.8995 -7.146513	1.799 6.9301698	1.799 59.601264	1.799 14.323549
0.9 -5.798345	1.8 8.0248096	1.8 53.257311	1.8 15.725826
0.9005 -4.519194	1.801 9.5364099	1.801 46.88011	1.801 15.939579
0.901 -3.630458	1.802 11.424221	1.802 41.071906	1.802 15.032517
0.9015 -3.383594	1.803 13.51518	1.803 36.360393	1.803 13.255701
0.902 -3.906045	1.804 15.550983	1.804 33.125509	1.804 11.011493
0.9025 -5.161987	1.805 17.262241	1.805 31.552445	1.805 8.7909584
0.903 -6.946798	1.806 18.44631	1.806 31.619489	1.806 7.0930577
0.9035 -8.925164	1.807 19.022535	1.807 33.12172	1.807 6.3413533
0.904 -10.70602	1.808 19.045578	1.808 35.723931	1.808 6.8147764
0.9045 -11.93172	1.809 18.672453	1.809 39.030071	1.809 8.6066265
0.905 -12.35287	1.81 18.096039	1.81 42.653568	1.81 11.619693
0.9055 -11.86775	1.811 17.470462	1.811 46.27369	1.811 15.595933
0.906 -10.52215	1.812 16.856415	1.812 49.66728	1.812 20.169838
0.9065 -8.482644	1.813 16.206216	1.813 52.711653	1.813 24.929837
0.907 -6.003909	1.814 15.392579	1.814 55.361651	1.814 29.474287
0.9075 -3.406022	1.815 14.268096	1.815 57.610494	1.815 33.455691
0.908 -1.06363	1.816 12.731441	1.816 59.448443	1.816 36.613721
0.9085 0.6052669	1.817 10.775679	1.817 60.833909	1.817 38.799346
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0.91 -2.42111	1.82 3.837956	1.82 61.417729	1.82 39.862576
0.9105 -6.84211	1.821 1.9462389	1.821 60.177491	1.821 38.973273
0.911 -12.73345	1.822 0.6673446	1.822 58.226422	1.822 37.823721
0.9115 -19.48699	1.823 0.1974103	1.823 55.669223	1.823 36.550151
0.912 -26.22808	1.824 0.6908842	1.824 52.655386	1.824 35.188025
0.9125 -31.94357	1.825 2.2578857	1.825 49.349989	1.825 33.68819
0.913 -35.65937	1.826 4.9547705	1.826 45.912716	1.826 31.966658
0.9135 -36.62815	1.827 8.765589	1.827 42.492952	1.827 29.966717
0.914 -34.48133	1.828 13.579387	1.828 39.237831	1.828 27.707836
0.9145 -29.30706	1.829 19.173183	1.829 36.302099	1.829 25.303316
0.915 -21.63432	1.83 25.210945	1.83 33.84841	1.83 22.943188
0.9155 -12.32803	1.831 31.265	1.831 32.033669	1.831 20.852398
0.916 -2.423801	1.832 36.859761	1.832 30.986238	1.832 19.240538
0.9165 7.0551599	1.833 41.530896	1.833 30.783928	1.833 18.256982
0.917 15.255152	1.834 44.888323	1.834 31.441132	1.834 17.958359

0.9175	21.59149	1.835	46.669911	1.835	32.907067	1.835	18.289698
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0.9185	27.798449	1.837	45.271119	1.837	37.770305	1.837	20.054707
0.919	27.83227	1.838	42.376306	1.838	40.797019	1.838	20.873392
0.9195	26.178373	1.839	38.420546	1.839	43.912314	1.839	21.188395
0.92	23.181854	1.84	33.799391	1.84	46.869656	1.84	20.721043
0.9205	19.185277	1.841	28.927301	1.841	49.451008	1.841	19.332955
0.921	14.502108	1.842	24.196683	1.842	51.507321	1.842	17.069973
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0.923	-6.166604	1.846	11.94939	1.846	54.836871	1.846	5.3886004
0.9235	-10.87407	1.847	10.902863	1.847	55.048952	1.847	3.6656737
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0.9305	15.470027	1.861	14.167566	1.861	61.130721	1.861	29.137331
0.931	14.570001	1.862	14.0091	1.862	60.742104	1.862	31.340977
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0.9515 23.809089	1.903 8.6849748	1.903 59.702043	1.903 18.795373
0.952 22.71589	1.904 11.248218	1.904 59.620088	1.904 16.245052
0.9525 21.799834	1.905 12.85166	1.905 59.172973	1.905 13.05206
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0.9535 20.135716	1.907 13.021751	1.907 57.912321	1.907 5.7632749
0.954 18.997417	1.908 11.724588	1.908 57.443783	1.908 2.3267248
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0.9585 -1.896046	1.917 12.344329	1.917 64.240982	1.917 15.400019
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0.9705 15.47462	1.941 2.9357352	1.941 44.394073	1.941 22.462697
0.971 17.437135	1.942 3.2498687	1.942 40.601961	1.942 18.514486
0.9715 17.9221	1.943 4.2634711	1.943 37.92175	1.943 13.823779
0.972 16.707224	1.944 5.8698818	1.944 36.6222	1.944 8.680043
0.9725 13.923457	1.945 7.9401219	1.945 36.683746	1.945 3.384424
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0.9865 -12.99377	1.973 16.468698	1.973 75.920692	1.973 42.552514
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1.033 12.564943	2.066 31.602935	2.066 80.417394	2.066 21.145204
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1.041 13.740113	2.082 15.293519	2.082 69.653972	2.082 28.033361
1.0415 19.204638	2.083 18.143036	2.083 73.388975	2.083 30.343186
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1.077	2.2905506	2.154	38.692598	2.154	84.437916	2.154	7.4146498
1.0775	2.6708034	2.155	42.938586	2.155	83.202886	2.155	10.292468
1.078	3.4438832	2.156	45.534916	2.156	80.917061	2.156	14.104683
1.0785	4.1331713	2.157	46.373853	2.157	77.831405	2.157	18.553693
1.079	4.2696035	2.158	45.508629	2.158	74.288981	2.158	23.300585
1.0795	3.51182	2.159	43.140154	2.159	70.677762	2.159	28.006474
1.08	1.729146	2.16	39.591409	2.16	67.369555	2.16	32.371479
1.0805	-0.967401	2.161	35.270503	2.161	64.659815	2.161	36.162671
1.081	-4.246401	2.162	30.625712	2.162	62.72507	2.162	39.224041
1.0815	-7.618575	2.163	26.098296	2.163	61.608343	2.163	41.468579
1.082	-10.52377	2.164	22.0792	2.164	61.232076	2.164	42.861355
1.0825	-12.42499	2.165	18.873718	2.165	61.429251	2.165	43.40702
1.083	-12.89479	2.166	16.67551	2.166	61.981538	2.166	43.151315
1.0835	-11.68309	2.167	15.550335	2.167	62.657837	2.167	42.195414
1.084	-8.75917	2.168	15.431363	2.168	63.252402	2.168	40.710877
1.0845	-4.324095	2.169	16.130338	2.169	63.622948	2.169	38.939103
1.085	1.207216	2.17	17.369227	2.17	63.724152	2.17	37.165505
1.0855	7.2521155	2.171	18.832826	2.171	63.624736	2.171	35.671774
1.086	13.130053	2.172	20.234562	2.172	63.494059	2.172	34.681551
1.0865	18.148983	2.173	21.378726	2.173	63.551634	2.173	34.318633
1.087	21.698235	2.174	22.197995	2.174	63.98862	2.174	34.590764
1.0875	23.334611	2.175	22.749626	2.175	64.88633	2.175	35.400374
1.088	22.846851	2.176	23.167696	2.176	66.163407	2.176	36.573558
1.0885	20.285541	2.177	23.587376	2.177	67.575399	2.177	37.895251
1.089	15.951897	2.178	24.071655	2.178	68.770566	2.178	39.14214
1.0895	10.348245	2.179	24.572694	2.179	69.383534	2.179	40.110975
1.09	4.1019097	2.18	24.945965	2.18	69.134607	2.18	40.643426
1.0905	-2.121073	2.181	25.011063	2.181	67.903156	2.181	40.647161
1.091	-7.697007	2.182	24.630423	2.182	65.756461	2.182	40.10882
1.0915	-12.11045	2.183	23.768527	2.183	62.932603	2.183	39.092471
1.092	-15.00172	2.184	22.504606	2.184	59.788977	2.184	37.720323
1.0925	-16.19717	2.185	20.995852	2.185	56.732853	2.185	36.140052
1.093	-15.72416	2.186	19.412604	2.186	54.148968	2.186	34.490284
1.0935	-13.81052	2.187	17.878719	2.187	52.336102	2.187	32.877597
1.094	-10.86608	2.188	16.444249	2.188	51.462917	2.188	31.372691
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1.095	-4.173038	2.19	13.81195	2.19	52.494912	2.19	28.871518
1.0955	-1.68931	2.191	12.582419	2.191	54.097596	2.191	27.964715

1.096 -0.534673	2.192 11.467035	2.192 56.133925	2.192 27.348234
1.0965 -1.076738	2.193 10.587039	2.193 58.393711	2.193 27.04754
1.097 -3.440842	2.194 10.108451	2.194 60.704808	2.194 27.049405
1.0975 -7.47768	2.195 10.206461	2.195 62.928191	2.195 27.296891
1.098 -12.77712	2.196 11.023068	2.196 64.938888	2.196 27.705166
1.0985 -18.73234	2.197 12.625906	2.197 66.613978	2.197 28.193532
1.099 -24.64722	2.198 14.97565	2.198 67.843849	2.198 28.718916
1.0995 -29.86706	2.199 17.910761	2.199 68.567144	2.199 29.293123
1.1 -33.90337	2.2 21.158712	2.2 68.812389	2.2 29.972439
1.1005 -36.52041	2.201 24.378641	2.201 68.720805	2.201 30.820841
1.101 -37.75882	2.202 27.230364	2.202 68.530531	2.202 31.86101
1.1015 -37.88741	2.203 29.452368	2.203 68.51971	2.203 33.034489
1.102 -37.29474	2.204 30.923653	2.204 68.925481	2.204 34.19025
1.1025 -36.35101	2.205 31.686804	2.205 69.868111	2.205 35.110573
1.103 -35.28114	2.206 31.923292	2.206 71.30879	2.206 35.568734
1.1035 -34.08904	2.207 31.890965	2.207 73.057164	2.207 35.400428
1.104 -32.55865	2.208 31.848714	2.208 74.826468	2.208 34.564703
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1.105 -27.05824	2.21 32.448694	2.21 77.304405	2.21 31.47242
1.1055 -22.5192	2.211 33.241236	2.211 77.692607	2.211 29.791837
1.106 -16.76806	2.212 34.355748	2.212 77.53471	2.212 28.456
1.1065 -10.15588	2.213 35.739239	2.213 76.996794	2.213 27.702704
1.107 -3.282059	2.214 37.30388	2.214 76.289168	2.214 27.622375
1.1075 3.1348861	2.215 38.907829	2.215 75.584341	2.215 28.140909
1.108 8.4249548	2.216 40.333657	2.216 74.950889	2.216 29.050926
1.1085 12.123105	2.217 41.287763	2.217 74.328194	2.217 30.081362
1.109 14.070063	2.218 41.437687	2.218 73.55473	2.218 30.982928
1.1095 14.432527	2.219 40.486958	2.219 72.444205	2.219 31.602149
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1.1105 12.283361	2.221 34.815188	2.221 68.922224	2.221 32.054865
1.111 10.94474	2.222 30.401368	2.222 66.794369	2.222 32.204671
1.1115 10.106099	2.223 25.496364	2.223 64.889063	2.223 32.594817
1.112 10.053064	2.224 20.679239	2.224 63.639834	2.224 33.403933
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1.113 12.372745	2.226 13.450947	2.226 64.270184	2.226 36.504018
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1.114 16.430311	2.228 11.366547	2.228 68.653159	2.228 40.907646
1.1145 18.274649	2.229 12.218081	2.229 71.264498	2.229 43.092096
1.115 19.56593	2.23 14.00047	2.23 73.458644	2.23 44.964755
1.1155 20.062414	2.231 16.382527	2.231 74.829294	2.231 46.330573
1.116 19.6193	2.232 19.041808	2.232 75.170113	2.232 47.027846
1.1165 18.210804	2.233 21.709207	2.233 74.493419	2.233 46.9225
1.117 15.946016	2.234 24.198597	2.234 72.990988	2.234 45.902776
1.1175 13.068627	2.235 26.424651	2.235 70.958606	2.235 43.885671
1.118 9.9291978	2.236 28.408933	2.236 68.712457	2.236 40.840859
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1.1195 2.672485	2.239 34.379819	2.239 62.947773	2.239 26.779428
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1.121 1.9195065	2.242 43.399884	2.242 59.856592	2.242 12.911851

1.1215 2.4983926	2.243 46.819963	2.243 59.105218	2.243 10.372139
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1.123 3.636147	2.246 53.059691	2.246 55.728718	2.246 11.027478
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1.1245 3.7404137	2.249 46.29444	2.249 49.004076	2.249 19.983662
1.125 4.0888831	2.25 41.186937	2.25 46.346286	2.25 23.696595
1.1255 4.7750922	2.251 35.329367	2.251 43.82099	2.251 27.435404
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1.1265 7.1711962	2.253 23.706982	2.253 39.906582	2.253 34.126381
1.127 8.6674154	2.254 19.049232	2.254 38.707066	2.254 36.695683
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1.1305 3.8206295	2.261 23.79184	2.261 44.420299	2.261 50.121794
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1.132 -2.620901	2.264 33.333619	2.264 53.165848	2.264 59.028401
1.1325 -2.419198	2.265 35.860316	2.265 56.157577	2.265 60.901239
1.133 -0.730647	2.266 38.147044	2.266 59.085074	2.266 62.067687
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1.1345 10.520583	2.269 44.498496	2.269 67.890655	2.269 63.740431
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1.1375 27.708663	2.275 45.569213	2.275 84.791388	2.275 67.350218
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1.1395 25.087115	2.279 35.741295	2.279 91.081701	2.279 56.016123
1.14 22.424687	2.28 34.273185	2.28 91.105908	2.28 52.193974
1.1405 18.97281	2.281 33.161124	2.281 90.241459	2.281 48.656583
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1.1435 -0.953797	2.287 10.079929	2.287 69.912223	2.287 42.3301
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1.1495 8.8216841	2.299 -4.190211	2.299 74.694452	2.299 42.507524
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1.1505 -1.26471	2.301 -3.250305	2.301 80.878008	2.301 40.570724
1.151 -6.250405	2.302 -2.414891	2.302 83.211538	2.302 40.866943
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1.152 -14.25276	2.304 0.6735848	2.304 86.071593	2.304 43.279141
1.1525 -17.17332	2.305 2.8634969	2.305 86.569413	2.305 44.612661
1.153 -19.58908	2.306 5.3107807	2.306 86.5112	2.306 45.402186
1.1535 -21.69853	2.307 7.8532252	2.307 86.023878	2.307 45.23336
1.154 -23.58476	2.308 10.348594	2.308 85.282223	2.308 43.827304
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1.1615 7.6927272	2.323 23.15949	2.323 110.42813	2.323 16.884568
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1.1655 -13.84519	2.331 26.71582	2.331 105.11955	2.331 33.030048
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1.1665 -12.32378	2.333 21.447315	2.333 91.85213	2.333 40.204185
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1.1675 -9.541432	2.335 14.835968	2.335 79.473215	2.335 48.1061
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1.1685 -6.881697	2.337 9.5503578	2.337 71.922549	2.337 54.29917
1.169 -5.80457	2.338 7.9095318	2.338 70.71932	2.338 55.989904
1.1695 -4.859753	2.339 6.9530961	2.339 71.243599	2.339 56.459331
1.17 -3.929215	2.34 6.5751297	2.34 73.225562	2.34 55.621795
1.1705 -2.85133	2.341 6.6444126	2.341 76.211468	2.341 53.512665
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1.1765 19.783564	2.353 32.706546	2.353 69.214446	2.353 7.5761178
1.177 20.277368	2.354 34.068144	2.354 65.52371	2.354 6.6251206
1.1775 20.373463	2.355 34.950147	2.355 62.203064	2.355 6.6833928
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1.1785 19.126318	2.357 35.890916	2.357 57.550485	2.357 9.3409401
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1.1795 15.981554	2.359 36.416703	2.359 56.418894	2.359 13.243599
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1.1835 -8.095355	2.367 27.250565	2.367 67.630687	2.367 27.612155
1.184 -11.4324	2.368 24.507462	2.368 68.333555	2.368 31.905027
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1.185 -16.30506	2.37 18.743412	2.37 70.055559	2.37 40.795696
1.1855 -17.32433	2.371 15.966687	2.371 71.595106	2.371 44.694704
1.186 -17.13438	2.372 13.441757	2.372 73.868458	2.372 47.911074
1.1865 -15.6413	2.373 11.304986	2.373 76.949175	2.373 50.346276
1.187 -12.85925	2.374 9.6757396	2.374 80.751671	2.374 51.985261
1.1875 -8.916226	2.375 8.644335	2.375 85.026947	2.375 52.849821
1.188 -4.043572	2.376 8.2659041	2.376 89.39771	2.376 52.956986
1.1885 1.4515416	2.377 8.5577621	2.377 93.428664	2.377 52.299337
1.189 7.2274236	2.378 9.4942767	2.378 96.71744	2.378 50.853465
1.1895 12.955458	2.379 10.995209	2.379 98.984288	2.379 48.610912
1.19 18.363131	2.38 12.910701	2.38 100.13636	2.38 45.617612
1.1905 23.261004	2.381 15.01378	2.381 100.28676	2.381 42.005681
1.191 27.545331	2.382 17.013594	2.382 99.719541	2.382 38.005356
1.1915 31.175192	2.383 18.596505	2.383 98.808138	2.383 33.932077
1.192 34.132096	2.384 19.490213	2.384 97.910431	2.384 30.150773
1.1925 36.377607	2.385 19.534341	2.385 97.273437	2.385 27.024451
1.193 37.826723	2.386 18.735746	2.386 96.978001	2.386 24.856973
1.1935 38.34951	2.387 17.290428	2.387 96.939448	2.387 23.841352
1.194 37.802503	2.388 15.564033	2.388 96.959516	2.388 24.025063
1.1945 36.079214	2.389 14.034318	2.389 96.807365	2.389 25.301696
1.195 33.161562	2.39 13.207505	2.39 96.300541	2.39 27.43282
1.1955 29.154387	2.391 13.524551	2.391 95.36182	2.391 30.095814
1.196 24.292693	2.392 15.274274	2.392 94.040262	2.392 32.945466
1.1965 18.921346	2.393 18.529285	2.393 92.497415	2.393 35.673012
1.197 13.454356	2.394 23.118179	2.394 90.967431	2.394 38.0481
1.1975 8.3231309	2.395 28.642424	2.395 89.702178	2.395 39.93592

1.198	3.92127	2.396	34.538022	2.396	88.912043	2.396	41.290234
1.1985	0.5512586	2.397	40.171613	2.397	88.712937	2.397	42.129585
1.199	-1.621456	2.398	44.951066	2.398	89.090737	2.398	42.506684
1.1995	-2.599342	2.399	48.425793	2.399	89.894215	2.399	42.480224
1.2	-2.559605	2.4	50.35426	2.4	90.863718	2.4	42.095587
1.2005	-1.830368	2.401	50.72515	2.401	91.69439	2.401	41.377471
1.201	-0.836381	2.402	49.731282	2.402	92.121407	2.402	40.333922
1.2015	-0.02275	2.403	47.707318	2.403	92.00455	2.403	38.967831
1.202	0.2286087	2.404	45.049677	2.404	91.385246	2.404	37.289288
1.2025	-0.326502	2.405	42.138471	2.405	90.493813	2.405	35.321691
1.203	-1.74275	2.406	39.277208	2.406	89.697866	2.406	33.09732
1.2035	-3.865187	2.407	36.659007	2.407	89.401165	2.407	30.643946
1.204	-6.345065	2.408	34.360551	2.408	89.919492	2.408	27.9708
1.2045	-8.691048	2.409	32.359036	2.409	91.370148	2.409	25.065914
1.205	-10.34989	2.41	30.563842	2.41	93.60983	2.41	21.914441
1.2055	-10.8043	2.411	28.853727	2.411	96.242009	2.411	18.538497
1.206	-9.669928	2.412	27.11175	2.412	98.69392	2.412	15.046563
1.2065	-6.771241	2.413	25.253072	2.413	100.34267	2.413	11.670598
1.207	-2.180158	2.414	23.244201	2.414	100.65697	2.414	8.7673812
1.2075	3.7887911	2.415	21.114587	2.415	99.319306	2.415	6.7697859
1.208	10.62091	2.416	18.961771	2.416	96.301581	2.416	6.0913243
1.2085	17.666624	2.417	16.94933	2.417	91.881174	2.417	7.0068628
1.209	24.213331	2.418	15.294298	2.418	86.598362	2.418	9.5460475
1.2095	29.553326	2.419	14.240087	2.419	81.166666	2.419	13.437524
1.21	33.046159	2.42	14.014343	2.42	76.354054	2.42	18.129621
1.2105	34.179707	2.421	14.778178	2.421	72.855617	2.421	22.890045
1.211	32.633082	2.422	16.580417	2.422	71.178707	2.422	26.960906
1.2115	28.336826	2.423	19.332937	2.423	71.56024	2.423	29.72557
1.212	21.516577	2.424	22.817747	2.424	73.932095	2.424	30.838422
1.2125	12.701851	2.425	26.724789	2.425	77.943035	2.425	30.280497
1.213	2.6855715	2.426	30.70716	2.426	83.033813	2.426	28.329125
1.2135	-7.568022	2.427	34.434605	2.427	88.548078	2.427	25.458381
1.214	-17.05447	2.428	37.629901	2.428	93.850415	2.428	22.207799
1.2145	-24.87445	2.429	40.083921	2.429	98.420275	2.429	19.061891
1.215	-30.3639	2.43	41.657144	2.43	101.89985	2.43	16.372139
1.2155	-33.18278	2.431	42.281361	2.431	104.09249	2.431	14.332978
1.216	-33.34601	2.432	41.972163	2.432	104.92771	2.432	13.003502
1.2165	-31.1926	2.433	40.852393	2.433	104.41937	2.433	12.354512
1.217	-27.30142	2.434	39.174707	2.434	102.63998	2.434	12.318331
1.2175	-22.37206	2.435	37.324154	2.435	99.719552	2.435	12.824303
1.218	-17.09604	2.436	35.783839	2.436	95.860252	2.436	13.81183
1.2185	-12.04517	2.437	35.058542	2.437	91.349449	2.437	15.222044
1.219	-7.59952	2.438	35.568651	2.438	86.556435	2.438	16.976821
1.2195	-3.927848	2.439	37.542651	2.439	81.908724	2.439	18.958362
1.22	-1.019424	2.44	40.942955	2.44	77.853645	2.44	21.002538
1.2205	1.2472856	2.441	45.453107	2.441	74.813754	2.441	22.913825
1.221	3.0231925	2.442	50.535655	2.442	73.140518	2.442	24.500224
1.2215	4.4206208	2.443	55.546446	2.443	73.065879	2.443	25.617027
1.222	5.4790845	2.444	59.872115	2.444	74.652061	2.444	26.203217
1.2225	6.1727764	2.445	63.050511	2.445	77.747579	2.445	26.296355
1.223	6.4527436	2.446	64.841252	2.446	81.966649	2.446	26.020061

1.2235 6.3037619	2.447 65.231833	2.447 86.711886	2.447 25.548503
1.224 5.7895978	2.448 64.38648	2.448 91.251543	2.448 25.060315
1.2245 5.0636972	2.449 62.562106	2.449 94.844449	2.449 24.697012
1.225 4.3353017	2.45 60.022797	2.45 96.886099	2.45 24.53812
1.2255 3.7995586	2.451 56.979968	2.451 97.037361	2.451 24.598374
1.226 3.5572826	2.452 53.572534	2.452 95.298698	2.452 24.844092
1.2265 3.5582068	2.453 49.885469	2.453 92.007564	2.453 25.21915
1.227 3.5964186	2.454 45.991742	2.454 87.759389	2.454 25.668587
1.2275 3.3691219	2.455 41.995856	2.455 83.27524	2.455 26.151257
1.228 2.5860321	2.456 38.058652	2.456 79.254037	2.456 26.64075
1.2285 1.0955351	2.457 34.391607	2.457 76.249115	2.457 27.121834
1.229 -1.016498	2.458 31.221293	2.458 74.597588	2.458 27.592582
1.2295 -3.394172	2.459 28.736729	2.459 74.410747	2.459 28.077336
1.23 -5.464652	2.46 27.039749	2.46 75.612849	2.46 28.644852
1.2305 -6.5685	2.461 26.118289	2.461 78.002371	2.461 29.416301
1.231 -6.132612	2.462 25.854339	2.462 81.30911	2.462 30.546789
1.2315 -3.835494	2.463 26.064743	2.463 85.231311	2.463 32.174875
1.232 0.2845822	2.464 26.559185	2.464 89.452875	2.464 34.352814
1.2325 5.8113042	2.465 27.191367	2.465 93.653017	2.465 36.985838
1.233 12.027973	2.466 27.880773	2.466 97.523247	2.466 39.81163
1.2335 18.069683	2.467 28.594094	2.467 100.79875	2.467 42.437475
1.234 23.108897	2.468 29.293482	2.468 103.29819	2.468 44.42819
1.2345 26.526395	2.469 29.875832	2.469 104.95566	2.469 45.415076
1.235 28.026109	2.47 30.135334	2.47 105.82731	2.47 45.186666
1.2355 27.669255	2.471 29.77567	2.471 106.06382	2.471 43.730402
1.236 25.825117	2.472 28.479263	2.472 105.85521	2.472 41.215625
1.2365 23.057092	2.473 26.016057	2.473 105.36672	2.473 37.931352
1.237 19.977806	2.474 22.3539	2.474 104.69014	2.474 34.206754
1.2375 17.11249	2.475 17.726346	2.475 103.82904	2.475 30.343436
1.238 14.8042	2.476 12.625351	2.476 102.72266	2.476 26.578605
1.2385 13.179516	2.477 7.7121903	2.477 101.29828	2.477 23.083227
1.239 12.173978	2.478 3.6696601	2.478 99.529965	2.478 19.985636
1.2395 11.598841	2.479 1.0401661	2.479 97.479643	2.479 17.402895
1.24 11.220793	2.48 0.0989675	2.48 95.303042	2.48 15.461001
1.2405 10.827153	2.481 0.7986177	2.481 93.217195	2.481 14.290417
1.241 10.259922	2.482 2.7959755	2.482 91.441884	2.482 13.993695
1.2415 9.4180126	2.483 5.5477803	2.483 90.138411	2.483 14.594299
1.242 8.2410622	2.484 8.4439853	2.484 89.37055	2.484 15.98601
1.2425 6.6942083	2.485 10.94366	2.485 89.102979	2.485 17.906465
1.243 4.7687084	2.486 12.684068	2.486 89.235704	2.486 19.953805
1.2435 2.5009569	2.487 13.544146	2.487 89.656554	2.487 21.65254
1.244 -0.001141	2.488 13.654419	2.488 90.285825	2.488 22.557503
1.2445 -2.543033	2.489 13.354919	2.489 91.091803	2.489 22.369259
1.245 -4.855623	2.49 13.111206	2.49 92.071211	2.49 21.026452
1.2455 -6.639119	2.491 13.406538	2.491 93.206791	2.491 18.743976
1.246 -7.628641	2.492 14.633748	2.492 94.426037	2.492 15.980062
1.2465 -7.661331	2.493 17.010814	2.493 95.584426	2.493 13.336607
1.247 -6.723197	2.494 20.537748	2.494 96.483692	2.494 11.418283
1.2475 -4.960874	2.495 25.000774	2.495 96.91734	2.495 10.690127
1.248 -2.654618	2.496 30.017069	2.496 96.72138	2.496 11.374846
1.2485 -0.159208	2.497 35.104292	2.497 95.805817	2.497 13.418558

1.249 2.1737652	2.498 39.756652	2.498 94.153723	2.498 16.531077
1.2495 4.075299	2.499 43.5128	2.499 91.794163	2.499 20.282081
1.25 5.4215793	2.5 46.007418	2.5 88.772138	2.5 24.21721
1.2505 6.2618035	2.501 47.00472	2.501 85.142714	2.501 27.955258
1.251 6.7979124	2.502 46.416149	2.502 81.00343	2.502 31.239846
1.2515 7.3142739	2.503 44.306181	2.503 76.554441	2.503 33.940534
1.252 8.0725074	2.504 40.889945	2.504 72.152938	2.504 36.018964
1.2525 9.2036981	2.505 36.524781	2.505 68.321056	2.505 37.485925
1.253 10.63815	2.506 31.694963	2.506 65.681286	2.506 38.371488
1.2535 12.104645	2.507 26.985099	2.507 64.824882	2.507 38.716273
1.254 13.207363	2.508 23.03528	2.508 66.151649	2.508 38.576726
1.2545 13.558334	2.509 20.47271	2.509 69.737385	2.509 38.029752
1.255 12.920345	2.51 19.822064	2.51 75.278902	2.51 37.16583
1.2555 11.310251	2.511 21.408601	2.511 82.139416	2.511 36.070881
1.256 9.0276035	2.512 25.278633	2.512 89.481931	2.512 34.807701
1.2565 6.6003521	2.513 31.164569	2.513 96.450232	2.513 33.410635
1.257 4.665782	2.514 38.512451	2.514 102.34611	2.514 31.900694
1.2575 3.8209635	2.515 46.570994	2.515 106.75818	2.515 30.317002
1.258 4.4800383	2.516 54.520552	2.516 109.61626	2.516 28.750834
1.2585 6.7693077	2.517 61.608011	2.517 111.16743	2.517 27.365795
1.259 10.480861	2.518 67.255092	2.518 111.88826	2.518 26.392442
1.2595 15.094669	2.519 71.121214	2.519 112.36022	2.519 26.094847
1.26 19.867668	2.52 73.119939	2.52 113.13872	2.52 26.716067
1.2605 23.975518	2.521 73.400842	2.521 114.64369	2.521 28.416027
1.261 26.679766	2.522 72.311145	2.522 117.09011	2.522 31.217815
1.2615 27.484404	2.523 70.345385	2.523 120.46549	2.523 34.976988
1.262 26.245952	2.524 68.083341	2.524 124.55033	2.524 39.383875
1.2625 23.211999	2.525 66.113163	2.525 128.97056	2.525 44.001644
1.263 18.98103	2.526 64.941195	2.526 133.26913	2.526 48.333954
1.2635 14.394814	2.527 64.899701	2.527 136.98459	2.527 51.907412
1.264 10.387355	2.528 66.07282	2.528 139.72684	2.528 54.348578
1.2645 7.8194835	2.529 68.263748	2.529 141.24027	2.529 55.435972
1.265 7.3272691	2.53 71.019808	2.53 141.44484	2.53 55.11536
1.2655 9.2089527	2.531 73.718258	2.531 140.44673	2.531 53.479307
1.266 13.370146	2.532 75.698675	2.532 138.51413	2.532 50.724245
1.2665 19.339379	2.533 76.412823	2.533 136.02155	2.533 47.104338
1.267 26.353938	2.534 75.554792	2.534 133.37343	2.534 42.898358
1.2675 33.500289	2.535 73.13575	2.535 130.92401	2.535 38.395471
1.268 39.878851	2.536 69.480036	2.536 128.91126	2.536 33.893973
1.2685 44.755703	2.537 65.140371	2.537 127.41926	2.537 29.699819
1.269 47.667832	2.538 60.754334	2.538 126.37613	2.538 26.112579
1.2695 48.462868	2.539 56.88391	2.539 125.5867	2.539 23.394211
1.27 47.273459	2.54 53.886896	2.54 124.79182	2.54 21.726439
1.2705 44.443403	2.541 51.859124	2.541 123.74133	2.541 21.170497
1.271 40.432159	2.542 50.662039	2.542 122.26509	2.542 21.645112
1.2715 35.724576	2.543 50.019993	2.543 120.32669	2.543 22.933864
1.272 30.765276	2.544 49.647381	2.544 118.04745	2.544 24.72355
1.2725 25.925633	2.545 49.357141	2.545 115.69416	2.545 26.664482
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1.2745	12.760701	2.549	49.800369	2.549	112.69564	2.549	30.906139
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1.2785	24.597066	2.557	57.189194	2.557	128.47275	2.557	27.920145
1.279	26.052918	2.558	57.215664	2.558	125.49657	2.558	28.776312
1.2795	26.799079	2.559	57.153048	2.559	121.25932	2.559	30.119631
1.28	26.870038	2.56	56.960528	2.56	116.25538	2.56	31.941856
1.2805	26.374472	2.561	56.545183	2.561	111.05825	2.561	34.209228
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1.2815	24.115493	2.563	54.758477	2.563	102.25073	2.563	39.745489
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1.2825	20.192593	2.565	52.096066	2.565	98.079137	2.565	45.442734
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1.2835	13.72713	2.567	50.251813	2.567	99.549784	2.567	49.091878
1.284	9.3523256	2.568	50.147015	2.568	102.11269	2.568	49.457525
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1.285	-0.96647	2.57	51.378203	2.57	109.37812	2.57	46.709662
1.2855	-6.221109	2.571	52.084877	2.571	113.2784	2.571	43.774812
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1.291	-23.61099	2.582	31.513397	2.582	108.59532	2.582	23.90771
1.2915	-23.50615	2.583	34.248315	2.583	107.38153	2.583	27.528081
1.292	-22.92458	2.584	37.583648	2.584	106.72918	2.584	31.45635
1.2925	-21.80569	2.585	40.999451	2.585	106.48593	2.585	35.274779
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1.294	-15.35805	2.588	47.945293	2.588	106.2716	2.588	43.193739
1.2945	-12.30063	2.589	48.605126	2.589	105.99379	2.589	44.39844
1.295	-8.85624	2.59	48.4967	2.59	105.64908	2.59	45.084236
1.2955	-5.080989	2.591	47.804587	2.591	105.35601	2.591	45.467979
1.296	-1.046532	2.592	46.764823	2.592	105.22572	2.592	45.745072
1.2965	3.1702678	2.593	45.626452	2.593	105.30488	2.593	46.043887
1.297	7.5004659	2.594	44.613012	2.594	105.53764	2.594	46.408487
1.2975	11.884435	2.595	43.889791	2.595	105.75943	2.595	46.809576
1.298	16.2522	2.596	43.543958	2.596	105.72811	2.596	47.17385
1.2985	20.486674	2.597	43.582134	2.597	105.1875	2.597	47.417286
1.299	24.387147	2.598	43.944487	2.598	103.94852	2.598	47.469873
1.2995	27.65584	2.599	44.529014	2.599	101.96519	2.599	47.286008

1.3 29.924416	2.6 45.217205	2.6 99.381291	2.6 46.842489
1.3005 30.822627	2.601 45.893987	2.601 96.529636	2.601 46.131094
1.301 30.074572	2.602 46.4592	2.602 93.878392	2.602 45.153289
1.3015 27.595836	2.603 46.832338	2.603 91.934074	2.603 43.921314
1.302 23.561188	2.604 46.954459	2.604 91.123573	2.604 42.464715
1.3025 18.417891	2.605 46.79045	2.605 91.684281	2.605 40.837188
1.303 12.832367	2.606 46.332244	2.606 93.590762	2.606 39.117122
1.3035 7.5750683	2.607 45.601026	2.607 96.539122	2.607 37.397529
1.304 3.366225	2.608 44.64567	2.608 99.997872	2.608 35.765986
1.3045 0.719281	2.609 43.536088	2.609 103.31857	2.609 34.280702
1.305 -0.175629	2.61 42.353072	2.61 105.88343	2.61 32.951984
1.3055 0.5075922	2.611 41.178692	2.611 107.25442	2.611 31.737436
1.306 2.2829005	2.612 40.091501	2.612 107.28359	2.612 30.554333
1.3065 4.4865066	2.613 39.168125	2.613 106.15185	2.613 29.305798
1.307 6.4571043	2.614 38.488333	2.614 104.32215	2.614 27.911903
1.3075 7.7088006	2.615 38.137083	2.615 102.41875	2.615 26.33502
1.308 8.0446005	2.616 38.196899	2.616 101.06738	2.616 24.591455
1.3085 7.577948	2.617 38.728168	2.617 100.74297	2.617 22.747276
1.309 6.6618275	2.618 39.74181	2.618 101.6675	2.618 20.902396
1.3095 5.7571458	2.619 41.174674	2.619 103.7823	2.619 19.170455
1.31 5.2914689	2.62 42.879409	2.62 106.79451	2.62 17.661426
1.3105 5.5576502	2.621 44.63631	2.621 110.27577	2.621 16.470045
1.311 6.6805154	2.622 46.186568	2.622 113.77952	2.622 15.668973
1.3115 8.6485411	2.623 47.278302	2.623 116.944	2.623 15.30383
1.312 11.38065	2.624 47.712298	2.624 119.55769	2.624 15.38885
1.3125 14.787611	2.625 47.375101	2.625 121.57764	2.625 15.904954
1.313 18.796842	2.626 46.251956	2.626 123.10397	2.626 16.803555
1.3135 23.332717	2.627 44.418809	2.627 124.32281	2.627 18.017361
1.314 28.269607	2.628 42.018646	2.628 125.43518	2.628 19.474821
1.3145 33.389213	2.629 39.231463	2.629 126.59018	2.629 21.110958
1.315 38.371146	2.63 36.248237	2.63 127.83882	2.63 22.867707
1.3155 42.828646	2.631 33.257131	2.631 129.11916	2.631 24.682347
1.316 46.379496	2.632 30.444989	2.632 130.27538	2.632 26.47073
1.3165 48.726635	2.633 28.010205	2.633 131.10468	2.633 28.118019
1.317 49.720185	2.634 26.17665	2.634 131.41824	2.634 29.489228
1.3175 49.381895	2.635 25.195663	2.635 131.09872	2.635 30.463911
1.318 47.88784	2.636 25.326149	2.636 130.13725	2.636 30.986635
1.3185 45.51818	2.637 26.791215	2.637 128.63832	2.637 31.113525
1.319 42.589428	2.638 29.720359	2.638 126.78991	2.638 31.031391
1.3195 39.385201	2.639 34.094354	2.639 124.80693	2.639 31.033232
1.32 36.098812	2.64 39.71186	2.64 122.86526	2.64 31.450368
1.3205 32.797939	2.641 46.191376	2.641 121.04851	2.641 32.560407
1.321 29.418693	2.642 53.011662	2.642 119.32669	2.642 34.502682
1.3215 25.79221	2.643 59.582329	2.643 117.57579	2.643 37.232158
1.322 21.700388	2.644 65.328106	2.644 115.63224	2.644 40.528598
1.3225 16.949017	2.645 69.767761	2.645 113.36271	2.645 44.05631
1.323 11.439494	2.646 72.571835	2.646 110.72365	2.646 47.451011
1.3235 5.2182309	2.647 73.590552	2.647 107.78979	2.647 50.402615
1.324 -1.511621	2.648 72.851668	2.648 104.74405	2.648 52.708587
1.3245 -8.419594	2.649 70.535231	2.649 101.83636	2.649 54.287433
1.325 -15.10785	2.65 66.936091	2.65 99.328906	2.65 55.157949

1.3255 -21.18093	2.651 62.424812	2.651 97.445709	2.651 55.399966
1.326 -26.30322	2.652 57.41361	2.652 96.337697	2.652 55.113963
1.3265 -30.22957	2.653 52.32779	2.653 96.06624	2.653 54.39208
1.327 -32.80826	2.654 47.577632	2.654 96.603026	2.654 53.305837
1.3275 -33.96714	2.655 43.523877	2.655 97.843612	2.655 51.909476
1.328 -33.69919	2.656 40.433702	2.656 99.6328	2.656 50.253344
1.3285 -32.05884	2.657 38.432703	2.657 101.79873	2.657 48.399158
1.329 -29.16914	2.658 37.467862	2.658 104.18875	2.658 46.428526
1.3295 -25.22798	2.659 37.301007	2.659 106.69684	2.659 44.438559
1.33 -20.49791	2.66 37.547422	2.66 109.27365	2.66 42.524027
1.3305 -15.26994	2.661 37.759926	2.661 111.91664	2.661 40.752521
1.331 -9.807198	2.662 37.540443	2.662 114.64581	2.662 39.143594
1.3315 -4.288931	2.663 36.647254	2.663 117.47554	2.663 37.661805
1.332 1.2188714	2.664 35.064252	2.664 120.39167	2.664 36.226752
1.3325 6.7475968	2.665 33.010103	2.665 123.3373	2.665 34.734555
1.333 12.365485	2.666 30.885531	2.666 126.20666	2.666 33.080412
1.3335 18.093644	2.667 29.176866	2.667 128.846	2.667 31.174017
1.334 23.831857	2.668 28.345452	2.668 131.06521	2.668 28.947006
1.3345 29.324964	2.669 28.732051	2.669 132.66628	2.669 26.358394
1.335 34.185196	2.67 30.495721	2.67 133.49226	2.67 23.404682
1.3355 37.965003	2.671 33.59383	2.671 133.48948	2.671 20.135108
1.336 40.257615	2.672 37.799722	2.672 132.76389	2.672 16.66396
1.3365 40.794714	2.673 42.749374	2.673 131.60576	2.673 13.168113
1.337 39.513643	2.674 48.006864	2.674 130.46284	2.674 9.8629272
1.3375 36.577509	2.675 53.137722	2.675 129.85902	2.675 6.9613548
1.338 32.345876	2.676 57.777778	2.676 130.27698	2.676 4.6320399
1.3385 27.306878	2.677 61.683933	2.677 132.03866	2.677 2.9748521
1.339 21.990225	2.678 64.755043	2.678 135.22007	2.678 2.023945
1.3395 16.883092	2.679 67.017503	2.679 139.62507	2.679 1.7734851
1.34 12.367237	2.68 68.580344	2.68 144.82392	2.68 2.2085468
1.3405 8.6874182	2.681 69.57491	2.681 150.24266	2.681 3.3211057
1.341 5.9512028	2.682 70.100012	2.682 155.27758	2.682 5.1003444
1.3415 4.1516296	2.683 70.191804	2.683 159.40605	2.683 7.5022283
1.342 3.1998578	2.684 69.828549	2.684 162.27031	2.684 10.416343
1.3425 2.9558889	2.685 68.967213	2.685 163.71979	2.685 13.651008
1.343 3.250997	2.686 67.5965	2.686 163.80865	2.686 16.949408
1.3435 3.9028565	2.687 65.784187	2.687 162.75476	2.687 20.034884
1.344 4.7299051	2.688 63.69833	2.688 160.87417	2.688 22.670349
1.3445 5.572102	2.689 61.59165	2.689 158.50943	2.689 24.710812
1.345 6.3200449	2.69 59.752585	2.69 155.96928	2.69 26.130839
1.3455 6.9455928	2.691 58.439504	2.691 153.49215	2.691 27.017876
1.346 7.5195283	2.692 57.820849	2.692 151.23672	2.692 27.533839
1.3465 8.2005597	2.693 57.940622	2.693 149.29376	2.693 27.857579
1.347 9.1877011	2.694 58.717359	2.694 147.70719	2.694 28.127174
1.3475 10.642688	2.695 59.970927	2.695 146.492	2.695 28.401464
1.348 12.604257	2.696 61.462016	2.696 145.64158	2.696 28.653691
1.3485 14.924299	2.697 62.928358	2.697 145.12538	2.697 28.797839
1.349 17.252385	2.698 64.108894	2.698 144.88417	2.698 28.734483
1.3495 19.080803	2.699 64.757273	2.699 144.83244	2.699 28.394182
1.35 19.842865	2.7 64.652892	2.7 144.87323	2.7 27.758025
1.3505 19.040719	2.701 63.617503	2.701 144.92342	2.701 26.847032

1.351 16.370699	2.702 61.539192	2.702 144.94167	2.702 25.689155
1.3515 11.815855	2.703 58.397922	2.703 144.94901	2.703 24.285258
1.352 5.6837585	2.704 54.28281	2.704 145.03525	2.704 22.596535
1.3525 -1.420586	2.705 49.392972	2.705 145.34893	2.705 20.564323
1.353 -8.684799	2.706 44.01966	2.706 146.0718	2.706 18.155516
1.3535 -15.22815	2.707 38.51375	2.707 147.3802	2.707 15.412353
1.354 -20.26393	2.708 33.246294	2.708 149.39628	2.708 12.482012
1.3545 -23.25035	2.709 28.570072	2.709 152.13536	2.709 9.6105289
1.355 -23.99277	2.71 24.787902	2.71 155.46146	2.71 7.1021066
1.3555 -22.6685	2.711 22.1307	2.711 159.06827	2.711 5.260107
1.356 -19.76535	2.712 20.745675	2.712 162.50236	2.712 4.3324973
1.3565 -15.95103	2.713 20.692746	2.713 165.23569	2.713 4.4796117
1.357 -11.91153	2.714 21.945396	2.714 166.77789	2.714 5.7690796
1.3575 -8.205056	2.715 24.39189	2.715 166.80048	2.715 8.1890138
1.358 -5.168694	2.716 27.83502	2.716 165.23524	2.716 11.663473
1.3585 -2.894495	2.717 31.99315	2.717 162.31181	2.717 16.057381
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1.3595 -0.046712	2.719 40.979354	2.719 154.47918	2.719 26.721907
1.36 1.0509697	2.72 44.993092	2.72 150.81982	2.72 32.368231
1.3605 2.2681646	2.721 48.197364	2.721 148.0001	2.721 37.721817
1.361 3.7603755	2.722 50.351002	2.722 146.2251	2.722 42.412546
1.3615 5.5791133	2.723 51.362929	2.723 145.42244	2.723 46.150656
1.362 7.6863186	2.724 51.297928	2.724 145.29998	2.724 48.776676
1.3625 9.99059	2.725 50.349505	2.725 145.45625	2.725 50.277636
1.363 12.391228	2.726 48.790679	2.726 145.50235	2.726 50.762807
1.3635 14.813714	2.727 46.919911	2.727 145.15479	2.727 50.408467
1.364 17.222571	2.728 45.017582	2.728 144.27588	2.728 49.393627
1.3645 19.605655	2.729 43.320278	2.729 142.8625	2.729 47.851794
1.365 21.936178	2.73 42.010626	2.73 141.00453	2.73 45.856501
1.3655 24.13047	2.731 41.214452	2.731 138.84129	2.731 43.443413
1.366 26.024493	2.732 40.997054	2.732 136.53609	2.732 40.655601
1.3665 27.386601	2.733 41.355063	2.733 134.27112	2.733 37.587931
1.367 27.96878	2.734 42.206452	2.734 132.2486	2.734 34.406426
1.3675 27.580304	2.735 43.385246	2.735 130.67922	2.735 31.32934
1.368 26.155363	2.736 44.647948	2.736 129.74771	2.736 28.574251
1.3685 23.786721	2.737 45.696145	2.737 129.56333	2.737 26.291863
1.369 20.711267	2.738 46.215714	2.738 130.11775	2.738 24.514957
1.3695 17.253986	2.739 45.928811	2.739 131.27456	2.739 23.14616
1.37 13.754331	2.74 44.650968	2.74 132.80106	2.74 21.992772
1.3705 10.504878	2.741 42.342475	2.741 134.43141	2.741 20.837645
1.371 7.7240673	2.742 39.141452	2.742 135.93329	2.742 19.52022
1.3715 5.5671208	2.743 35.366915	2.743 137.14875	2.743 17.997635
1.372 4.1606457	2.744 31.484429	2.744 137.99533	2.744 16.363327
1.3725 3.6355087	2.745 28.034755	2.745 138.43616	2.745 14.816268
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1.3735 5.7815302	2.747 24.375129	2.747 137.9943	2.747 12.875131
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1.3745 12.583317	2.749 26.487977	2.749 135.73889	2.749 13.081633
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1.3755 22.586173	2.751 32.716271	2.751 132.55833	2.751 14.279158
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1.3765 31.960385	2.753 39.061377	2.753 130.73677	2.753 14.338926
1.377 35.052749	2.754 41.346328	2.754 131.03164	2.754 13.616861
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1.378 36.407511	2.756 44.43897	2.756 134.0733	2.756 11.340441
1.3785 34.601383	2.757 46.026897	2.757 136.19705	2.757 10.357208
1.379 31.37097	2.758 48.235997	2.758 138.06396	2.758 9.8523273
1.3795 27.003069	2.759 51.327524	2.759 139.16538	2.759 10.001713
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1.382 -2.343985	2.764 70.700952	2.764 129.48431	2.764 19.403428
1.3825 -7.896272	2.765 71.746766	2.765 127.05699	2.765 22.116022
1.383 -12.57068	2.766 71.140535	2.766 125.72949	2.766 24.841632
1.3835 -15.96666	2.767 69.07279	2.767 125.75377	2.767 27.501944
1.384 -17.74383	2.768 65.92653	2.768 127.08082	2.768 30.008583
1.3845 -17.7066	2.769 62.158766	2.769 129.39112	2.769 32.253112
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1.39 0.9953845	2.78 31.140216	2.78 132.11604	2.78 29.855719
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1.392 -23.03313	2.784 42.394918	2.784 127.83027	2.784 25.512048
1.3925 -26.91352	2.785 46.800048	2.785 128.02024	2.785 24.175356
1.393 -28.58146	2.786 51.007822	2.786 128.94988	2.786 22.655808
1.3935 -27.71576	2.787 54.660778	2.787 130.62522	2.787 20.957451
1.394 -24.34497	2.788 57.539194	2.788 132.92547	2.788 19.124552
1.3945 -18.85944	2.789 59.58046	2.789 135.59754	2.789 17.245162
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1.3955 -4.461004	2.791 61.555567	2.791 140.64756	2.791 13.90777
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1.3965 8.9754995	2.793 61.97481	2.793 143.32081	2.793 12.325545
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1.3975 17.012322	2.795 61.874953	2.795 143.31144	2.795 13.638464
1.398 18.702726	2.796 61.556095	2.796 142.9058	2.796 15.331417
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1.4 13.370331	2.8 54.909083	2.8 145.00616	2.8 21.464989
1.4005 9.5462463	2.801 51.725242	2.801 146.75019	2.801 20.991053
1.401 4.8807048	2.802 48.365866	2.802 148.70725	2.802 19.553273
1.4015 -0.417608	2.803 45.277352	2.803 150.65854	2.803 17.543075

1.402 -5.983954	2.804 42.924748	2.804 152.39996	2.804 15.566295
1.4025 -11.3044	2.805 41.688911	2.805 153.75117	2.805 14.309749
1.403 -15.77564	2.806 41.780229	2.806 154.54748	2.806 14.384202
1.4035 -18.80892	2.807 43.193408	2.807 154.63013	2.807 16.185367
1.404 -19.95579	2.808 45.714757	2.808 153.85005	2.808 19.80598
1.4045 -19.02324	2.809 48.977344	2.809 152.09247	2.809 25.015203
1.405 -16.1434	2.81 52.545993	2.81 149.31588	2.81 31.303428
1.4055 -11.77094	2.811 56.007267	2.811 145.58768	2.811 37.976282
1.406 -6.599663	2.812 59.040182	2.812 141.09651	2.812 44.274223
1.4065 -1.413893	2.813 61.450404	2.813 136.13053	2.813 49.493346
1.407 3.0875192	2.814 63.162189	2.814 131.02708	2.814 53.087135
1.4075 6.4450423	2.815 64.176012	2.815 126.11365	2.815 54.735259
1.408 8.5241658	2.816 64.512164	2.816 121.6643	2.816 54.372168
1.4085 9.5059781	2.817 64.166761	2.817 117.8871	2.817 52.174308
1.409 9.7845142	2.818 63.102497	2.818 114.9404	2.818 48.510487
1.4095 9.8025565	2.819 61.28152	2.819 112.96012	2.819 43.86575
1.41 9.8784009	2.82 58.727233	2.82 112.07431	2.82 38.754447
1.4105 10.080548	2.821 55.585102	2.821 112.38891	2.821 33.641181
1.411 10.192973	2.822 52.14887	2.822 113.94586	2.822 28.886476
1.4115 9.784519	2.823 48.831071	2.823 116.67237	2.823 24.72629
1.412 8.3614997	2.824 46.080416	2.824 120.34862	2.824 21.282712
1.4125 5.5545163	2.825 44.272296	2.825 124.61698	2.825 18.592409
1.413 1.2787303	2.826 43.611096	2.826 129.03894	2.826 16.634954
1.4135 -4.184434	2.827 44.078534	2.827 133.18609	2.827 15.348032
1.414 -10.21015	2.828 45.44374	2.828 136.73527	2.828 14.628179
1.4145 -15.94976	2.829 47.32726	2.829 139.53463	2.829 14.327722
1.415 -20.50953	2.83 49.293494	2.83 141.61709	2.83 14.263717
1.4155 -23.13601	2.831 50.9409	2.831 143.15664	2.831 14.249594
1.416 -23.35857	2.832 51.966959	2.832 144.38368	2.832 14.147307
1.4165 -21.05851	2.833 52.199315	2.833 145.48876	2.833 13.923922
1.417 -16.45939	2.834 51.597837	2.834 146.54699	2.834 13.689066
1.4175 -10.05541	2.835 50.23877	2.835 147.48593	2.835 13.692568
1.418 -2.506263	2.836 48.290999	2.836 148.10432	2.836 14.274006
1.4185 5.4727627	2.837 45.989545	2.837 148.13298	2.837 15.772867
1.419 13.204308	2.838 43.607312	2.838 147.31767	2.838 18.423053
1.4195 20.115391	2.839 41.425431	2.839 145.50001	2.839 22.262967
1.42 25.774444	2.84 39.704165	2.84 142.6763	2.84 27.089737
1.4205 29.902126	2.841 38.657492	2.841 139.0217	2.841 32.473867
1.421 32.361893	2.842 38.433476	2.842 134.87698	2.842 37.832739
1.4215 33.137656	2.843 39.100149	2.843 130.70241	2.843 42.543674
1.422 32.305861	2.844 40.635323	2.844 127.00876	2.844 46.065717
1.4225 30.008196	2.845 42.920174	2.845 124.27764	2.845 48.037742
1.423 26.429007	2.846 45.739839	2.846 122.8847	2.846 48.329484
1.4235 21.779344	2.847 48.796923	2.847 123.03858	2.847 47.038242
1.424 16.28819	2.848 51.74285	2.848 124.74711	2.848 44.441091
1.4245 10.200547	2.849 54.226842	2.849 127.81807	2.849 40.923914
1.425 3.7809753	2.85 55.954875	2.85 131.89531	2.85 36.910322
1.4255 -2.68086	2.851 56.744938	2.851 136.52302	2.851 32.806002
1.426 -8.868138	2.852 56.563448	2.852 141.22373	2.852 28.962125
1.4265 -14.44407	2.853 55.531893	2.853 145.57199	2.853 25.651941
1.427 -19.07117	2.854 53.901071	2.854 149.24763	2.854 23.052501

1.4275 -22.44044	2.855 51.999482	2.855 152.05982	2.855 21.228739
1.428 -24.30393	2.856 50.16899	2.856 153.94348	2.856 20.125304
1.4285 -24.5035	2.857 48.702786	2.857 154.93825	2.857 19.57632
1.429 -22.99166	2.858 47.79831	2.858 155.16339	2.858 19.340702
1.4295 -19.84465	2.859 47.532914	2.859 154.79775	2.859 19.161587
1.43 -15.26929	2.86 47.864854	2.86 154.06522	2.86 18.83773
1.4305 -9.602483	2.861 48.657612	2.861 153.21791	2.861 18.287771
1.431 -3.297493	2.862 49.721506	2.862 152.5077	2.862 17.588327
1.4315 3.1109126	2.863 50.862637	2.863 152.14318	2.863 16.97318
1.432 9.0658477	2.864 51.926438	2.864 152.24089	2.864 16.790667
1.4325 14.06562	2.865 52.823378	2.865 152.78904	2.865 17.426487
1.433 17.741394	2.866 53.529455	2.866 153.64354	2.866 19.207549
1.4335 19.912347	2.867 54.063234	2.867 154.566	2.867 22.30804
1.434 20.599882	2.868 54.450678	2.868 155.29683	2.868 26.680535
1.4345 19.995524	2.869 54.694097	2.869 155.64034	2.869 32.031687
1.435 18.393282	2.87 54.759017	2.87 155.53161	2.87 37.853243
1.4355 16.109223	2.871 54.583922	2.871 155.06037	2.871 43.50592
1.436 13.413469	2.872 54.107211	2.872 154.44376	2.872 48.339109
1.4365 10.492204	2.873 53.299077	2.873 153.95867	2.873 51.817675
1.437 7.4436039	2.874 52.185967	2.874 153.85889	2.874 53.622808
1.4375 4.2984939	2.875 50.860441	2.875 154.3047	2.875 53.699551
1.438 1.0499593	2.876 49.475338	2.876 155.32473	2.876 52.238991
1.4385 -2.321855	2.877 48.224522	2.877 156.8165	2.877 49.603682
1.439 -5.835329	2.878 47.31269	2.878 158.57917	2.878 46.223352
1.4395 -9.500194	2.879 46.916311	2.879 160.36549	2.879 42.496431
1.44 -13.31035	2.88 47.139758	2.88 161.93879	2.88 38.727511
1.4405 -17.23171	2.881 47.975448	2.881 163.12386	2.881 35.113692
1.441 -21.18618	2.882 49.281288	2.882 163.84269	2.882 31.771959
1.4415 -25.03805	2.883 50.788466	2.883 164.12907	2.883 28.785062
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1.4425 -31.59274	2.885 52.989755	2.885 164.0159	2.885 24.248008
1.443 -33.76661	2.886 53.032283	2.886 164.04745	2.886 22.927859
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1.444 -34.54787	2.888 50.277904	2.888 165.24382	2.888 22.690372
1.4445 -32.74322	2.889 47.674143	2.889 166.58828	2.889 23.834062
1.445 -29.36115	2.89 44.591986	2.89 168.40299	2.89 25.738718
1.4455 -24.48867	2.891 41.355132	2.891 170.56665	2.891 28.248654
1.446 -18.37879	2.892 38.273418	2.892 172.8977	2.892 31.14375
1.4465 -11.45169	2.893 35.608909	2.893 175.1773	2.893 34.15875
1.447 -4.269051	2.894 33.565248	2.894 177.17705	2.894 37.008126
1.4475 2.5207134	2.895 32.288817	2.895 178.69175	2.895 39.414194
1.448 8.262159	2.896 31.866359	2.896 179.57413	2.896 41.135976
1.4485 12.387445	2.897 32.310124	2.897 179.76389	2.897 41.996339
1.449 14.510631	2.898 33.534325	2.898 179.30105	2.898 41.904982
1.4495 14.503471	2.899 35.337935	2.899 178.31531	2.899 40.874578
1.45 12.534462	2.9 37.411685	2.9 176.99006	2.9 39.026883
1.4505 9.0572297	2.901 39.379186	2.901 175.50849	2.901 36.585709
1.451 4.7434648	2.902 40.867223	2.902 173.9971	2.902 33.855158
1.4515 0.3686707	2.903 41.58593	2.903 172.48551	2.903 31.184478
1.452 -3.327543	2.904 41.393136	2.904 170.89877	2.904 28.924079
1.4525 -5.775441	2.905 40.321825	2.905 169.08988	2.905 27.379308

1.453 -6.671281	2.906 38.563232	2.906 166.9068	2.906 26.768684
1.4535 -6.012656	2.907 36.414049	2.907 164.27528	2.907 27.192254
1.454 -4.067509	2.908 34.207511	2.908 161.26951	2.908 28.614491
1.4545 -1.290693	2.909 32.250222	2.909 158.14303	2.909 30.865132
1.455 1.7840804	2.91 30.780093	2.91 155.30272	2.91 33.659785
1.4555 4.6460927	2.911 29.949839	2.911 153.22714	2.911 36.639034
1.456 6.8813036	2.912 29.830824	2.912 152.34978	2.912 39.420247
1.4565 8.2113297	2.913 30.427506	2.913 152.94104	2.913 41.652173
1.457 8.5053523	2.914 31.693494	2.914 155.02399	2.914 43.061105
1.4575 7.7785899	2.915 33.544302	2.915 158.34929	2.915 43.480118
1.458 6.1870232	2.916 35.865833	2.916 162.43699	2.916 42.858496
1.4585 4.0179467	2.917 38.519745	2.917 166.67465	2.917 41.254282
1.459 1.6667394	2.918 41.346939	2.918 170.44736	2.918 38.816039
1.4595 -0.411683	2.919 44.169873	2.919 173.26888	2.919 35.759704
1.46 -1.780726	2.92 46.794891	2.92 174.88357	2.92 32.344012
1.4605 -2.119205	2.921 49.017491	2.921 175.31634	2.921 28.845456
1.461 -1.313622	2.922 50.635357	2.922 174.85934	2.922 25.532608
1.4615 0.4851304	2.923 51.473819	2.923 173.99843	2.923 22.639929
1.462 2.8664219	2.924 51.424525	2.924 173.29638	2.924 20.34221
1.4625 5.2354832	2.925 50.491015	2.925 173.26015	2.925 18.732059
1.463 6.9472641	2.926 48.827318	2.926 174.22336	2.926 17.804164
1.4635 7.4654853	2.927 46.751834	2.927 176.27152	2.927 17.451323
1.464 6.5029901	2.928 44.721863	2.928 179.22813	2.928 17.47736
1.4645 4.1026183	2.929 43.264536	2.929 182.70486	2.929 17.629676
1.465 0.6343955	2.93 42.874602	2.93 186.20414	2.93 17.648624
1.4655 -3.290461	2.931 43.902933	2.931 189.24805	2.931 17.32382
1.466 -6.963775	2.932 46.466288	2.932 191.49873	2.932 16.542461
1.4665 -9.742245	2.933 50.405431	2.933 192.83601	2.933 15.31531
1.467 -11.18456	2.934 55.305821	2.934 193.36913	2.934 13.773187
1.4675 -11.1336	2.935 60.577011	2.935 193.37987	2.935 12.137355
1.468 -9.733542	2.936 65.570222	2.936 193.21704	2.936 10.675725
1.4685 -7.390508	2.937 69.704013	2.937 193.17887	2.937 9.6586411
1.469 -4.695955	2.938 72.56852	2.938 193.42302	2.938 9.3229085
1.4695 -2.33142	2.939 73.98773	2.939 193.9327	2.939 9.8446786
1.47 -0.966346	2.94 74.032308	2.94 194.54569	2.94 11.316813
1.4705 -1.15422	2.941 72.987187	2.941 195.03032	2.941 13.727701
1.471 -3.232195	2.942 71.285461	2.942 195.17631	2.942 16.944871
1.4715 -7.235698	2.943 69.422781	2.943 194.86519	2.943 20.712851
1.472 -12.84705	2.944 67.866529	2.944 194.09522	2.944 24.675232
1.4725 -19.39897	2.945 66.973575	2.945 192.95531	2.945 28.424231
1.473 -25.94615	2.946 66.929929	2.946 191.56375	2.946 31.570213
1.4735 -31.40244	2.947 67.723781	2.947 190.00153	2.947 33.814317
1.474 -34.72353	2.948 69.158662	2.948 188.2715	2.948 35.004195
1.4745 -35.10148	2.949 70.905125	2.949 186.30216	2.949 35.156949
1.475 -32.13168	2.95 72.57938	2.95 183.99542	2.95 34.442626
1.4755 -25.91632	2.951 73.829254	2.951 181.29884	2.951 33.132388
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1.4765 -6.678476	2.953 74.20147	2.953 175.12991	2.953 29.868483
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1.4775 13.462534	2.955 71.717022	2.955 169.96467	2.955 26.834744
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1.4785 24.774557	2.957 67.738178	2.957 168.97372	2.957 23.653957
1.479 25.496056	2.958 65.712946	2.958 170.61384	2.958 21.582206
1.4795 23.02322	2.959 63.850854	2.959 173.53347	2.959 19.038629
1.48 17.948619	2.96 62.193214	2.96 177.31522	2.96 16.070636
1.4805 11.107117	2.961 60.700029	2.961 181.37012	2.961 12.883586
1.481 3.4040502	2.962 59.267649	2.962 185.05733	2.962 9.8167625
1.4815 -4.329761	2.963 57.761688	2.963 187.82028	2.963 7.284052
1.482 -11.42914	2.964 56.059913	2.964 189.30292	2.964 5.6956471
1.4825 -17.42651	2.965 54.095322	2.965 189.41608	2.965 5.3803148
1.483 -22.03876	2.966 51.887545	2.966 188.33882	2.966 6.5246048
1.4835 -25.1331	2.967 49.553216	2.967 186.45933	2.967 9.1382097
1.484 -26.69556	2.968 47.292852	2.968 184.27499	2.968 13.04743
1.4845 -26.81471	2.969 45.359666	2.969 182.27862	2.969 17.914241
1.485 -25.67872	2.97 44.020629	2.97 180.85619	2.97 23.277022
1.4855 -23.57181	2.971 43.519206	2.971 180.21545	2.971 28.608552
1.486 -20.85209	2.972 44.04351	2.972 180.35668	2.972 33.385122
1.4865 -17.89996	2.973 45.697292	2.973 181.09036	2.973 37.157419
1.487 -15.04123	2.974 48.469325	2.974 182.09834	2.974 39.611214
1.4875 -12.46579	2.975 52.201966	2.975 183.02607	2.975 40.606666
1.488 -10.17186	2.976 56.569595	2.976 183.58288	2.976 40.189792
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1.4895 -2.44982	2.979 68.181828	2.979 182.40741	2.979 33.236198
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1.4905 6.3067113	2.981 69.483465	2.981 180.95217	2.981 27.993758
1.491 11.895187	2.982 67.676134	2.982 180.64959	2.982 26.362448
1.4915 17.869737	2.983 64.730496	2.983 180.7139	2.983 25.674967
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1.493 33.626057	2.986 56.23802	2.986 182.34538	2.986 28.74398
1.4935 37.012831	2.987 55.623141	2.987 183.11108	2.987 30.748415
1.494 39.187873	2.988 56.529734	2.988 183.95385	2.988 32.80493
1.4945 40.105095	2.989 58.698603	2.989 184.88287	2.989 34.717912
1.495 39.740642	2.99 61.587312	2.99 185.87949	2.99 36.36562
1.4955 38.086579	2.991 64.490865	2.991 186.87938	2.991 37.681513
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1.497 26.384335	2.994 67.003052	2.994 188.96549	2.994 39.167488
1.4975 21.238811	2.995 64.86631	2.995 189.20769	2.995 38.660235
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1.4985 12.17377	2.997 57.873916	2.997 189.43258	2.997 36.073146
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1.4995 8.0775516	2.999 51.821243	2.999 190.22343	2.999 32.394145
1.5 8.5360907	3 50.571158	3 191.03447	3 30.874034
1.5005 10.580873	3.001 50.727047	3.001 192.08931	3.001 30.028793
1.501 13.909915	3.002 52.040532	3.002 193.28986	3.002 30.12637
1.5015 18.091006	3.003 54.012795	3.003 194.52699	3.003 31.288451
1.502 22.617345	3.004 56.031599	3.004 195.72958	3.004 33.456856
1.5025 26.956737	3.005 57.520685	3.005 196.90109	3.005 36.407671
1.503 30.593944	3.006 58.060209	3.006 198.12847	3.006 39.809778
1.5035 33.070532	3.007 57.451413	3.007 199.55725	3.007 43.307252

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1.5045 33.239961	3.009 53.06527	3.009 203.57222	3.009 49.468272
1.505 30.667529	3.01 49.794029	3.01 206.24795	3.01 51.815477
1.5055 26.460176	3.011 46.238085	3.011 209.23541	3.011 53.595298
1.506 20.960095	3.012 42.701106	3.012 212.29657	3.012 54.786896
1.5065 14.66477	3.013 39.428931	3.013 215.1344	3.013 55.356716
1.507 8.1642117	3.014 36.607901	3.014 217.45665	3.014 55.250073
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1.5085 -6.947565	3.017 32.170567	3.017 219.67024	3.017 50.46042
1.509 -9.237646	3.018 32.369284	3.018 218.90069	3.018 47.480603
1.5095 -9.959952	3.019 33.487663	3.019 217.71328	3.019 44.028517
1.51 -9.28735	3.02 35.460713	3.02 216.40803	3.02 40.312322
1.5105 -7.558418	3.021 38.109472	3.021 215.26582	3.021 36.553017
1.511 -5.237142	3.022 41.143457	3.022 214.48473	3.022 32.954675
1.5115 -2.861451	3.023 44.198291	3.023 214.13358	3.023 29.680835
1.512 -0.982162	3.024 46.902909	3.024 214.13721	3.024 26.839595
1.5125 -0.094578	3.025 48.957429	3.025 214.3008	3.025 24.47823
1.513 -0.568161	3.026 50.19602	3.026 214.3689	3.026 22.587749
1.5135 -2.584102	3.027 50.612632	3.027 214.10266	3.027 21.117299
1.514 -6.094173	3.028 50.340653	3.028 213.35076	3.028 19.9966
1.5145 -10.81458	3.029 49.595103	3.029 212.09043	3.029 19.161883
1.515 -16.26373	3.03 48.600264	3.03 210.42459	3.03 18.578644
1.5155 -21.84268	3.031 47.530452	3.031 208.53725	3.031 18.254505
1.516 -26.94434	3.032 46.485208	3.032 206.62376	3.032 18.237823
1.5165 -31.0661	3.033 45.505532	3.033 204.82132	3.033 18.601239
1.517 -33.89747	3.034 44.62115	3.034 203.16288	3.034 19.412609
1.5175 -35.3606	3.035 43.906417	3.035 201.5681	3.035 20.698242
1.518 -35.59699	3.036 43.518607	3.036 199.87073	3.036 22.405627
1.5185 -34.9106	3.037 43.698035	3.037 197.87101	3.037 24.375244
1.519 -33.689	3.038 44.72289	3.038 195.39598	3.038 26.332659
1.5195 -32.32488	3.039 46.8287	3.039 192.35165	3.039 27.910482
1.52 -31.15189	3.04 50.117192	3.04 188.75602	3.04 28.703333
1.5205 -30.39741	3.041 54.486313	3.041 184.74793	3.041 28.348484
1.521 -30.14817	3.042 59.608916	3.042 180.57117	3.042 26.614059
1.5215 -30.32669	3.043 64.972733	3.043 176.53678	3.043 23.470582
1.522 -30.6839	3.044 69.974216	3.044 172.96913	3.044 19.123444
1.5225 -30.82063	3.045 74.041181	3.045 170.14488	3.045 13.993663
1.523 -30.24879	3.046 76.750826	3.046 168.23758	3.046 8.6486782
1.5235 -28.4918	3.047 77.912794	3.047 167.28219	3.047 3.6990242
1.524 -25.20526	3.048 77.599207	3.048 167.17125	3.048 -0.314049
1.5245 -20.28439	3.049 76.119088	3.049 167.68675	3.049 -3.013065
1.525 -13.92199	3.05 73.947834	3.05 168.56004	3.05 -4.239565
1.5255 -6.594193	3.051 71.630129	3.051 169.54232	3.051 -4.0596
1.526 1.0250863	3.052 69.676996	3.052 170.46377	3.052 -2.721862
1.5265 8.1955439	3.053 68.476241	3.053 171.26427	3.053 -0.582174
1.527 14.249169	3.054 68.231961	3.054 171.99031	3.054 1.9848085
1.5275 18.699724	3.055 68.943432	3.055 172.76585	3.055 4.6644128
1.528 21.301849	3.056 70.426312	3.056 173.75364	3.056 7.2533027
1.5285 22.058035	3.057 72.370104	3.057 175.1222	3.057 9.6740344
1.529 21.186203	3.058 74.417315	3.058 177.02579	3.058 11.95407

1.5295 19.065332	3.059 76.244728	3.059 179.59326	3.059 14.180162
1.53 16.172637	3.06 77.627784	3.06 182.91566	3.06 16.445099
1.5305 13.018551	3.061 78.474998	3.061 187.02461	3.061 18.804536
1.531 10.081084	3.062 78.828116	3.062 191.86274	3.062 21.256911
1.5315 7.7419187	3.063 78.832144	3.063 197.25854	3.063 23.750478
1.532 6.2316294	3.064 78.685283	3.064 202.92246	3.064 26.211365
1.5325 5.5964004	3.065 78.581762	3.065 208.47622	3.065 28.578721
1.533 5.6989287	3.066 78.661018	3.066 213.51425	3.066 30.830758
1.5335 6.2595699	3.067 78.974913	3.067 217.68186	3.067 32.98995
1.534 6.931849	3.068 79.480556	3.068 220.74691	3.068 35.105237
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1.535 7.4321384	3.07 80.55866	3.07 223.47811	3.07 39.337174
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1.5385 5.8818398	3.077 76.853872	3.077 224.52391	3.077 45.915323
1.539 8.0630147	3.078 75.885524	3.078 226.53924	3.078 44.430562
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1.5405 17.900133	3.081 72.931379	3.081 232.87364	3.081 36.135721
1.541 20.936509	3.082 71.650721	3.082 233.73956	3.082 32.621415
1.5415 22.968929	3.083 70.075392	3.083 233.39106	3.083 29.217953
1.542 23.483176	3.084 68.184806	3.084 231.68744	3.084 26.313102
1.5425 22.100128	3.085 66.041611	3.085 228.71322	3.085 24.274595
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1.544 6.2737165	3.088 59.888606	3.088 216.1338	3.088 24.908556
1.5445 -1.683993	3.089 58.687506	3.089 212.53591	3.089 26.800309
1.545 -9.851279	3.09 58.199723	3.09 209.97882	3.09 28.76083
1.5455 -17.40072	3.091 58.450111	3.091 208.59047	3.091 30.219039
1.546 -23.54326	3.092 59.336371	3.092 208.23231	3.092 30.700637
1.5465 -27.6201	3.093 60.646233	3.093 208.55227	3.093 29.925141
1.547 -29.17672	3.094 62.102135	3.094 209.09169	3.094 27.852835
1.5475 -28.01334	3.095 63.423052	3.095 209.41101	3.095 24.677314
1.548 -24.20803	3.096 64.387141	3.096 209.19543	3.096 20.775306
1.5485 -18.11004	3.097 64.877715	3.097 208.31322	3.097 16.633308
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1.5495 -1.539872	3.099 64.564856	3.099 204.91773	3.099 9.6600198
1.55 7.3380003	3.1 64.049473	3.1 202.89724	3.1 7.6805496
1.5505 15.493449	3.101 63.546507	3.101 201.06883	3.101 7.0546828
1.551 22.178372	3.102 63.222597	3.102 199.70586	3.102 7.8240286
1.5515 26.806051	3.103 63.196151	3.103 198.99784	3.103 9.8407128
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1.5525 28.647102	3.105 64.289695	3.105 199.72064	3.105 16.245351
1.553 25.862668	3.106 65.480714	3.106 200.94131	3.106 19.734692
1.5535 21.01413	3.107 67.139143	3.107 202.45119	3.107 22.816476
1.554 14.650825	3.108 69.279117	3.108 204.00305	3.108 25.130128
1.5545 7.4321898	3.109 71.872759	3.109 205.38341	3.109 26.421725

1.555 0.0346375	3.11 74.81786	3.11 206.44402	3.11 26.544979
1.5555 -6.940689	3.111 77.919667	3.111 207.10717	3.111 25.45112
1.556 -13.03869	3.112 80.901423	3.112 207.34981	3.112 23.181778
1.5565 -17.98376	3.113 83.446998	3.113 207.18103	3.113 19.871315
1.557 -21.67123	3.114 85.264696	3.114 206.6276	3.114 15.753643
1.5575 -24.12514	3.115 86.151081	3.115 205.73508	3.115 11.160422
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1.5585 -25.72982	3.117 84.973023	3.117 203.28931	3.117 2.193435
1.559 -25.08967	3.118 83.145279	3.118 202.03485	3.118 -1.368515
1.5595 -23.59067	3.119 80.787641	3.119 201.03169	3.119 -3.921049
1.56 -21.28844	3.12 78.159142	3.12 200.50762	3.12 -5.356186
1.5605 -18.24548	3.121 75.512825	3.121 200.6719	3.121 -5.725986
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1.5615 -10.36253	3.123 71.123864	3.123 203.62905	3.123 -3.962133
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1.5625 -1.362736	3.125 69.46488	3.125 210.17691	3.125 0.1307033
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1.5635 6.4473103	3.127 71.899372	3.127 219.00408	3.127 6.5810219
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1.565 11.073866	3.13 82.067362	3.13 230.95396	3.13 21.509793
1.5655 10.415559	3.131 85.90378	3.131 233.56439	3.131 27.185856
1.566 8.9560291	3.132 89.289982	3.132 235.4418	3.132 32.539559
1.5665 7.0166489	3.133 91.935045	3.133 236.77271	3.133 37.134064
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1.5675 2.7871935	3.135 94.607163	3.135 238.71053	3.135 42.885246
1.568 0.718158	3.136 94.801845	3.136 239.57542	3.136 43.880218
1.5685 -1.43553	3.137 94.506247	3.137 240.29349	3.137 43.775691
1.569 -3.89587	3.138 93.956575	3.138 240.63488	3.138 42.819439
1.5695 -6.887487	3.139 93.352762	3.139 240.32433	3.139 41.300655
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1.573 -34.65728	3.146 88.965522	3.146 221.50981	3.146 32.29028
1.5735 -35.75638	3.147 87.225992	3.147 219.68516	3.147 31.81435
1.574 -35.48667	3.148 85.097385	3.148 218.62616	3.148 31.306013
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1.5805	-21.54971	3.161	74.235484	3.161	253.6322	3.161	31.226237
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1.586	7.2058017	3.172	95.927971	3.172	239.62703	3.172	43.85572
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1.5915	-34.02245	3.183	97.828931	3.183	242.937	3.183	22.316576
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1.595	8.7632929	3.19	94.992273	3.19	255.09756	3.19	33.599343
1.5955	12.658922	3.191	97.564418	3.191	258.28511	3.191	34.344051
1.596	13.449839	3.192	99.38073	3.192	261.6244	3.192	34.311133
1.5965	11.183508	3.193	100.13366	3.193	264.93173	3.193	33.591262
1.597	6.4195341	3.194	99.732493	3.194	267.98746	3.194	32.493241
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1.6085 -26.45892	3.217 101.16533	3.217 249.84716	3.217 45.653074
1.609 -26.73976	3.218 99.636666	3.218 249.5907	3.218 46.290712
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1.6185 21.190499	3.237 96.607567	3.237 256.51065	3.237 0.2566595
1.619 20.200754	3.238 98.170373	3.238 253.44885	3.238 1.3731171
1.6195 17.952051	3.239 99.929013	3.239 249.45095	3.239 2.3676768
1.62 14.546539	3.24 101.67504	3.24 245.03966	3.24 3.4976522
1.6205 10.219712	3.241 103.21207	3.241 240.73692	3.241 5.0882286
1.621 5.3044928	3.242 104.37938	3.242 237.02499	3.242 7.4450543
1.6215 0.1902538	3.243 105.05792	3.243 234.33062	3.243 10.760354
1.622 -4.717252	3.244 105.16117	3.244 233.01572	3.244 15.042774
1.6225 -9.032055	3.245 104.62195	3.245 233.35841	3.245 20.096899
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1.6235 -14.61797	3.247 101.43515	3.247 239.49111	3.247 31.003554
1.624 -15.46033	3.248 98.79033	3.248 245.07519	3.248 36.015071
1.6245 -14.87372	3.249 95.558489	3.249 251.85598	3.249 40.316948
1.625 -12.87686	3.25 91.930285	3.25 259.23078	3.25 43.800524
1.6255 -9.565813	3.251 88.164923	3.251 266.46913	3.251 46.519082
1.626 -5.097421	3.252 84.548412	3.252 272.80529	3.252 48.630147
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1.627 6.4529996	3.254 78.728024	3.254 280.20414	3.254 51.7006
1.6275 13	3.255 76.800818	3.255 280.55002	3.255 52.82283
1.628 19.625561	3.256 75.554277	3.256 278.69958	3.256 53.618935
1.6285 25.936063	3.257 74.915585	3.257 275.07834	3.257 53.970387
1.629 31.490596	3.258 74.780081	3.258 270.34293	3.258 53.766974
1.6295 35.825134	3.259 75.043731	3.259 265.24727	3.259 52.974887
1.63 38.496397	3.26 75.621082	3.26 260.49083	3.26 51.684835
1.6305 39.14168	3.261 76.445697	3.261 256.58971	3.261 50.121833
1.631 37.544227	3.262 77.45788	3.262 253.80462	3.262 48.609319

1.6315 33.688495	3.263 78.589365	3.263 252.14023	3.263 47.495105
1.632 27.788283	3.264 79.754724	3.264 251.40679	3.264 47.060965
1.6325 20.275118	3.265 80.855132	3.265 251.31595	3.265 47.445559
1.633 11.744275	3.266 81.794415	3.266 251.5762	3.266 48.607479
1.6335 2.8687661	3.267 82.502609	3.267 251.95914	3.267 50.341418
1.634 -5.697496	3.268 82.960071	3.268 252.32422	3.268 52.340994
1.6345 -13.40222	3.269 83.214819	3.269 252.60692	3.269 54.284818
1.635 -19.84328	3.27 83.386444	3.27 252.7889	3.27 55.915198
1.6355 -24.7766	3.271 83.651521	3.271 252.87109	3.271 57.084366
1.636 -28.0921	3.272 84.209278	3.272 252.86399	3.272 57.757978
1.6365 -29.77714	3.273 85.232889	3.273 252.79618	3.273 57.9831
1.637 -29.88894	3.274 86.819236	3.274 252.73069	3.274 57.840206
1.6375 -28.54953	3.275 88.954004	3.275 252.77402	3.275 57.401313
1.638 -25.96258	3.276 91.50583	3.276 253.06721	3.276 56.709349
1.6385 -22.43749	3.277 94.252658	3.277 253.75778	3.277 55.781324
1.639 -18.3981	3.278 96.930442	3.278 254.96115	3.278 54.626177
1.6395 -14.35687	3.279 99.285792	3.279 256.72412	3.279 53.262791
1.64 -10.84783	3.28 101.11483	3.28 259.00164	3.28 51.726807
1.6405 -8.330307	3.281 102.27968	3.281 261.6528	3.281 50.064202
1.641 -7.090996	3.282 102.70571	3.282 264.45671	3.282 48.319402
1.6415 -7.177314	3.283 102.37062	3.283 267.14539	3.283 46.529732
1.642 -8.387031	3.284 101.29638	3.284 269.44827	3.284 44.733524
1.6425 -10.32011	3.285 99.549133	3.285 271.14098	3.285 42.988778
1.643 -12.47668	3.286 97.244238	3.286 272.08907	3.286 41.389938
1.6435 -14.36938	3.287 94.549243	3.287 272.27699	3.287 40.068619
1.644 -15.61606	3.288 91.677731	3.288 271.81482	3.288 39.172085
1.6445 -15.98914	3.289 88.871031	3.289 270.92036	3.289 38.826055
1.645 -15.41684	3.29 86.369618	3.29 269.88095	3.29 39.097956
1.6455 -13.94794	3.291 84.379523	3.291 269.00415	3.291 39.976703
1.646 -11.70074	3.292 83.040572	3.292 268.56902	3.292 41.375602
1.6465 -8.815481	3.293 82.403332	3.293 268.7879	3.293 43.152522
1.647 -5.421728	3.294 82.420694	3.294 269.78467	3.294 45.134263
1.6475 -1.624116	3.295 82.95783	3.295 271.59059	3.295 47.134442
1.648 2.494179	3.296 83.820391	3.296 274.15479	3.296 48.963716
1.6485 6.8518965	3.297 84.795913	3.297 277.36409	3.297 50.440248
1.649 11.336742	3.298 85.699081	3.298 281.06591	3.298 51.409979
1.6495 15.766288	3.299 86.410211	3.299 285.08885	3.299 51.778665
1.65 19.857081	3.3 86.89852	3.3 289.25674	3.3 51.545696
1.6505 23.220642	3.301 87.226272	3.301 293.39402	3.301 50.821744
1.651 25.400797	3.302 87.534061	3.302 297.32247	3.302 49.81457
1.6515 25.952479	3.303 88.009872	3.303 300.85175	3.303 48.780056
1.652 24.543386	3.304 88.845966	3.304 303.76934	3.304 47.952278
1.6525 21.046512	3.305 90.189667	3.305 305.83784	3.305 47.477981
1.653 15.591696	3.306 92.097506	3.306 306.80817	3.306 47.380368
1.6535 8.5591659	3.307 94.504839	3.307 306.4546	3.307 47.564516
1.654 0.520183	3.308 97.221797	3.308 304.62992	3.308 47.858518
1.6545 -7.85177	3.309 99.959987	3.309 301.32892	3.309 48.070116
1.655 -15.87024	3.31 102.38477	3.31 296.73979	3.31 48.035437
1.6555 -22.9048	3.311 104.1802	3.311 291.26038	3.311 47.644997
1.656 -28.42513	3.312 105.11136	3.312 285.46406	3.312 46.84658
1.6565 -32.02905	3.313 105.07259	3.313 280.01548	3.313 45.636344

1.657 -33.46729	3.314 104.11557	3.314 275.55412	3.314 44.052289
1.6575 -32.67025	3.315 102.45562	3.315 272.57575	3.315 42.177722
1.658 -29.76963	3.316 100.45488	3.316 271.34263	3.316 40.151689
1.6585 -25.09855	3.317 98.58055	3.317 271.84344	3.317 38.175288
1.659 -19.15512	3.318 97.337793	3.318 273.80863	3.318 36.501978
1.6595 -12.52684	3.319 97.182789	3.319 276.77231	3.319 35.406293
1.66 -5.790622	3.32 98.430046	3.32 280.16354	3.32 35.135038
1.6605 0.5832767	3.321 101.17524	3.321 283.40683	3.321 35.853019
1.661 6.2934868	3.322 105.25572	3.322 286.01353	3.322 37.598383
1.6615 11.217537	3.323 110.26376	3.323 287.64905	3.323 40.260152
1.662 15.370695	3.324 115.61425	3.324 288.16622	3.324 43.584416
1.6625 18.832963	3.325 120.65348	3.325 287.60184	3.325 47.208656
1.663 21.672514	3.326 124.78417	3.326 286.14189	3.326 50.717979
1.6635 23.890792	3.327 127.57759	3.327 284.06769	3.327 53.713486
1.664 25.402622	3.328 128.84748	3.328 281.6992	3.328 55.881194
1.6645 26.050965	3.329 128.67071	3.329 279.34913	3.329 57.049288
1.665 25.646306	3.33 127.35341	3.33 277.29561	3.33 57.221847
1.6655 24.017663	3.331 125.35409	3.331 275.77247	3.331 56.579463
1.666 21.063688	3.332 123.1839	3.332 274.97039	3.332 55.442161
1.6665 16.794974	3.333 121.30696	3.333 275.03887	3.333 54.197998
1.667 11.359886	3.334 120.05977	3.334 276.08075	3.334 53.210211
1.6675 5.0466823	3.335 119.60209	3.335 278.13502	3.335 52.723976
1.668 -1.743314	3.336 119.9029	3.336 281.15013	3.336 52.797712
1.6685 -8.5511	3.337 120.75982	3.337 284.95565	3.337 53.280839
1.669 -14.93482	3.338 121.84685	3.338 289.24493	3.338 53.849615
1.6695 -20.54628	3.339 122.78339	3.339 293.58266	3.339 54.096856
1.67 -25.1875	3.34 123.21566	3.34 297.44694	3.34 53.654156
1.6705 -28.82905	3.341 122.89759	3.341 300.3058	3.341 52.312435
1.671 -31.58342	3.342 121.75478	3.342 301.71496	3.342 50.103443
1.6715 -33.64127	3.343 119.9148	3.343 301.41201	3.343 47.314102
1.672 -35.19126	3.344 117.69216	3.344 299.37805	3.344 44.425544
1.6725 -36.34934	3.345 115.52703	3.345 295.84514	3.345 41.993113
1.673 -37.11878	3.346 113.88986	3.346 291.24479	3.346 40.503609
1.6735 -37.39058	3.347 113.17492	3.347 286.11297	3.347 40.253591
1.674 -36.98042	3.348 113.61003	3.348 280.98178	3.348 41.284608
1.6745 -35.68849	3.349 115.20548	3.349 276.29033	3.349 43.390719
1.675 -33.36569	3.35 117.75415	3.35 272.33715	3.35 46.189212
1.6755 -29.97198	3.351 120.88071	3.351 269.27805	3.351 49.226605
1.676 -25.61703	3.352 124.12508	3.352 267.15608	3.352 52.085304
1.6765 -20.57556	3.353 127.03849	3.353 265.94095	3.353 54.462309
1.677 -15.27157	3.354 129.27038	3.354 265.55809	3.354 56.205191
1.6775 -10.22719	3.355 130.62932	3.355 265.89885	3.355 57.305625
1.678 -5.978619	3.356 131.10891	3.356 266.81691	3.356 57.861637
1.6785 -2.971518	3.357 130.87659	3.357 268.12526	3.357 58.024809
1.679 -1.459187	3.358 130.22847	3.358 269.60742	3.358 57.948742
1.6795 -1.432144	3.359 129.51841	3.359 271.04878	3.359 57.751715
1.68 -2.603208	3.36 129.07457	3.36 272.28204	3.36 57.500861
1.6805 -4.457714	3.361 129.12202	3.361 273.23129	3.361 57.218162
1.681 -6.358835	3.362 129.73218	3.362 273.93761	3.362 56.901625
1.6815 -7.680929	3.363 130.81537	3.363 274.55358	3.363 56.550339
1.682 -7.936093	3.364 132.16082	3.364 275.30492	3.364 56.18184

1.6825	-6.86356	3.365	133.51186	3.365	276.42831	3.365	55.834463
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1.6835	-0.99013	3.367	135.45891	3.367	280.395	3.367	55.374236
1.684	3.1238369	3.368	135.94084	3.368	283.22997	3.368	55.292703
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1.685	11.008271	3.37	136.3223	3.37	289.59741	3.37	55.224137
1.6855	13.622341	3.371	136.4156	3.371	292.47557	3.371	55.087511
1.686	14.698699	3.372	136.45201	3.372	294.70366	3.372	54.816973
1.6865	13.930048	3.373	136.31561	3.373	296.02544	3.373	54.441064
1.687	11.220251	3.374	135.82508	3.374	296.30407	3.374	54.069412
1.6875	6.7218701	3.375	134.79347	3.375	295.55373	3.375	53.873457
1.688	0.8432567	3.376	133.09238	3.376	293.9523	3.376	54.037426
1.6885	-5.788039	3.377	130.70102	3.377	291.82723	3.377	54.695427
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1.6915	-24.71822	3.383	114.8693	3.383	288.4241	3.383	64.430594
1.692	-22.36131	3.384	115.03206	3.384	290.06612	3.384	65.50567
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1.6955	-12.16904	3.391	130.33722	3.391	290.05778	3.391	64.332942
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1.6965	-14.5419	3.393	127.96595	3.393	288.0796	3.393	62.504983
1.697	-15.59788	3.394	125.65039	3.394	287.40506	3.394	61.907545
1.6975	-16.254	3.395	123.26017	3.395	286.95946	3.395	61.613365
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1.699	-14.81923	3.398	120.15767	3.398	286.37005	3.398	61.917284
1.6995	-13.32948	3.399	121.07868	3.399	286.07127	3.399	62.081052
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1.7015	-6.203561	3.403	128.38648	3.403	282.18449	3.403	63.586455
1.702	-4.58876	3.404	129.50753	3.404	280.73148	3.404	64.836572
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1.703	-1.357602	3.406	130.29126	3.406	278.4676	3.406	68.799608
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1.7045	4.7150126	3.409	130.22663	3.409	280.5216	3.409	76.330434
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1.708 24.11222	3.416 120.78008	3.416 317.72922	3.416 82.217984
1.7085 26.037968	3.417 117.97574	3.417 322.49235	3.417 80.944783
1.709 27.037953	3.418 115.70355	3.418 325.69658	3.418 79.186444
1.7095 26.723089	3.419 114.31109	3.419 326.98195	3.419 77.098495
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1.7135 -28.16632	3.427 122.67494	3.427 290.19506	3.427 73.042468
1.714 -34.82367	3.428 122.886	3.428 288.37092	3.428 74.204533
1.7145 -39.6333	3.429 123.01905	3.429 288.54266	3.429 74.966067
1.715 -42.48899	3.43 123.36339	3.43 290.44458	3.43 75.113572
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1.7165 -40.61712	3.433 127.47984	3.433 301.36588	3.433 71.447157
1.717 -37.27566	3.434 129.75669	3.434 304.99153	3.434 69.094914
1.7175 -32.99103	3.435 132.02908	3.435 308.02072	3.435 66.306622
1.718 -28.04005	3.436 133.87471	3.436 310.33463	3.436 63.082378
1.7185 -22.7556	3.437 134.89076	3.437 311.93982	3.437 59.373672
1.719 -17.53873	3.438 134.79538	3.438 312.92481	3.438 55.127521
1.7195 -12.83392	3.439 133.51332	3.439 313.42493	3.439 50.33991
1.72 -9.065306	3.44 131.22147	3.44 313.60194	3.44 45.095615
1.7205 -6.550751	3.441 128.33501	3.441 313.63208	3.441 39.57982
1.721 -5.423044	3.442 125.42838	3.442 313.689	3.442 34.060533
1.7215 -5.588347	3.443 123.104	3.443 313.9115	3.443 28.851934
1.722 -6.739729	3.444 121.8407	3.444 314.35731	3.444 24.272492
1.7225 -8.424597	3.445 121.86553	3.445 314.95944	3.445 20.608059
1.723 -10.14672	3.446 123.08991	3.446 315.51014	3.446 18.083641
1.7235 -11.47331	3.447 125.13356	3.447 315.694	3.447 16.84312
1.724 -12.11763	3.448 127.43177	3.448 315.17477	3.448 16.9362
1.7245 -11.97664	3.449 129.39358	3.449 313.71644	3.449 18.31465
1.725 -11.11698	3.45 130.56104	3.45 311.29908	3.45 20.841995
1.7255 -9.716932	3.451 130.72057	3.451 308.18419	3.451 24.319063
1.726 -7.984198	3.452 129.93489	3.452 304.89739	3.452 28.522264
1.7265 -6.075328	3.453 128.49217	3.453 302.12365	3.453 33.244628
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1.7275 -1.823373	3.455 125.23701	3.455 300.64448	3.455 43.655358
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1.7305 19.973962	3.461 123.43814	3.461 324.26581	3.461 72.817838
1.731 23.949232	3.462 123.25899	3.462 326.2487	3.462 74.501203
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1.732 29.761393	3.464 122.47944	3.464 325.24502	3.464 72.635186
1.7325 31.287548	3.465 122.1233	3.465 322.7812	3.465 69.316397
1.733 31.837505	3.466 122.00247	3.466 319.63068	3.466 64.952492

1.7335 31.430294	3.467 122.27448	3.467 316.30506	3.467 60.166369
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1.7385 -8.190312	3.477 144.52584	3.477 311.20048	3.477 68.559691
1.739 -12.10234	3.478 144.29687	3.478 310.93454	3.478 69.817328
1.7395 -15.42514	3.479 143.04697	3.479 310.07434	3.479 69.226734
1.74 -18.03905	3.48 141.00529	3.48 308.8346	3.48 66.888209
1.7405 -19.74887	3.481 138.49092	3.481 307.59699	3.481 63.190435
1.741 -20.27969	3.482 135.8515	3.482 306.80863	3.482 58.694899
1.7415 -19.32134	3.483 133.40581	3.483 306.84825	3.483 53.987645
1.742 -16.61846	3.484 131.40224	3.484 307.90998	3.484 49.547053
1.7425 -12.08219	3.485 129.9998	3.485 309.95065	3.485 45.668699
1.743 -5.885501	3.486 129.27103	3.486 312.71975	3.486 42.464681
1.7435 1.4971141	3.487 129.22055	3.487 315.85629	3.487 39.925008
1.744 9.3296444	3.488 129.80889	3.488 319.0097	3.488 38.005422
1.7445 16.732032	3.489 130.97045	3.489 321.93584	3.489 36.698864
1.745 22.845613	3.49 132.61901	3.49 324.5352	3.49 36.059171
1.7455 26.999415	3.491 134.64147	3.491 326.8282	3.491 36.169785
1.746 28.829498	3.492 136.88834	3.492 328.88831	3.492 37.076183
1.7465 28.319639	3.493 139.17252	3.493 330.7658	3.493 38.717141
1.747 25.758018	3.494 141.28475	3.494 332.43253	3.494 40.890141
1.7475 21.631117	3.495 143.02513	3.495 333.7645	3.495 43.270867
1.748 16.493127	3.496 144.24102	3.496 334.56345	3.496 45.483103
1.7485 10.851604	3.497 144.85739	3.497 334.60703	3.497 47.193867
1.749 5.0984031	3.498 144.88849	3.498 333.71144	3.498 48.19826
1.7495 -0.505044	3.499 144.42805	3.499 331.78984	3.499 48.462938
1.75 -5.799009	3.5 143.62329	3.5 328.89253	3.5 48.11369
1.7505 -10.67688	3.501 142.64269	3.501 325.21941	3.501 47.374003
1.751 -15.04225	3.502 141.64604	3.502 321.10072	3.502 46.478904
1.7515 -18.78941	3.503 140.76177	3.503 316.94831	3.503 45.595639
1.752 -21.81229	3.504 140.07252	3.504 313.1867	3.504 44.778145
1.7525 -24.03427	3.505 139.60969	3.505 310.17815	3.505 43.96856
1.753 -25.44327	3.506 139.35799	3.506 308.15928	3.506 43.041886
1.7535 -26.11539	3.507 139.27113	3.507 307.20493	3.507 41.875334
1.754 -26.21442	3.508 139.29723	3.508 307.22876	3.508 40.416263
1.7545 -25.96372	3.509 139.40749	3.509 308.02085	3.509 38.724196
1.755 -25.59633	3.51 139.61843	3.51 309.3122	3.51 36.972253
1.7555 -25.29807	3.511 139.99781	3.511 310.84858	3.511 35.408304
1.756 -25.16163	3.512 140.6489	3.512 312.45323	3.512 34.290562
1.7565 -25.1671	3.513 141.67555	3.513 314.06072	3.513 33.820615
1.757 -25.19491	3.514 143.13688	3.514 315.71124	3.514 34.095651
1.7575 -25.06526	3.515 145.00482	3.515 317.50577	3.515 35.09191
1.758 -24.58782	3.516 147.13771	3.516 319.53419	3.516 36.678725
1.7585 -23.60302	3.517 149.28068	3.517 321.79874	3.517 38.65323

1.759 -22.0023	3.518 151.09785	3.518 324.15968	3.518 40.783733
1.7595 -19.72638	3.519 152.23474	3.519 326.32598	3.519 42.853109
1.76 -16.75136	3.52 152.39962	3.52 327.90069	3.52 44.697634
1.7605 -13.07664	3.521 151.44495	3.521 328.47194	3.521 46.237195
1.761 -8.724843	3.522 149.42481	3.522 327.72425	3.522 47.490299
1.7615 -3.755015	3.523 146.60768	3.523 325.53668	3.523 48.566134
1.762 1.7174134	3.524 143.43487	3.524 322.03934	3.524 49.630514
1.7625 7.5043073	3.525 140.43138	3.525 317.61361	3.525 50.852803
1.763 13.340866	3.526 138.09256	3.526 312.83819	3.526 52.351183
1.7635 18.898708	3.527 136.77797	3.527 308.39623	3.527 54.156696
1.764 23.816544	3.528 136.6423	3.528 304.96441	3.528 56.208926
1.7645 27.74567	3.529 137.62042	3.529 303.10447	3.529 58.381499
1.765 30.404502	3.53 139.46597	3.53 303.17511	3.53 60.522373
1.7655 31.632868	3.531 141.8273	3.531 305.27874	3.531 62.489688
1.766 31.433677	3.532 144.33595	3.532 309.25339	3.532 64.170534
1.7665 29.989125	3.533 146.68402	3.533 314.71248	3.533 65.482095
1.767 27.642477	3.534 148.67473	3.534 321.12449	3.534 66.364268
1.7675 24.844658	3.535 150.24104	3.535 327.91313	3.535 66.774447
1.768 22.074803	3.536 151.43533	3.536 334.55203	3.536 66.689511
1.7685 19.751984	3.537 152.39709	3.537 340.63037	3.537 66.112491
1.769 18.158895	3.538 153.30693	3.538 345.87634	3.538 65.077981
1.7695 17.396489	3.539 154.33508	3.539 350.14074	3.539 63.653038
1.77 17.382161	3.54 155.59342	3.54 353.35551	3.54 61.936004
1.7705 17.894339	3.541 157.10003	3.541 355.48762	3.541 60.058529
1.771 18.654613	3.542 158.76401	3.542 356.50572	3.542 58.192531
1.7715 19.426657	3.543 160.39428	3.543 356.369	3.543 56.555527
1.772 20.102681	3.544 161.73095	3.544 355.03815	3.544 55.401061
1.7725 20.747419	3.545 162.49349	3.545 352.50169	3.545 54.982682
1.773 21.579941	3.546 162.43756	3.546 348.80844	3.546 55.492031
1.7735 22.894017	3.547 161.41159	3.547 344.09681	3.547 56.988798
1.774 24.941534	3.548 159.40363	3.548 338.6133	3.548 59.352467
1.7745 27.820392	3.549 156.56842	3.549 332.71438	3.549 62.283844
1.775 31.409259	3.55 153.22452	3.55 326.84805	3.55 65.366659
1.7755 35.374681	3.551 149.81529	3.551 321.51536	3.551 68.173495
1.776 39.247813	3.552 146.83519	3.552 317.21684	3.552 70.379127
1.7765 42.541312	3.553 144.73442	3.553 314.39362	3.553 71.839436
1.777 44.86337	3.554 143.82514	3.554 313.37416	3.554 72.608402
1.7775 45.990774	3.555 144.21585	3.555 314.33576	3.555 72.892189
1.778 45.882242	3.556 145.79462	3.556 317.28408	3.556 72.964356
1.7785 44.637254	3.557 148.26664	3.557 322.04978	3.557 73.077904
1.779 42.423915	3.558 151.23401	3.558 328.29912	3.558 73.403893
1.7795 39.406005	3.559 154.292	3.559 335.5577	3.559 74.00837
1.78 35.694308	3.56 157.11211	3.56 343.24958	3.56 74.860552
1.7805 31.334628	3.561 159.48996	3.561 350.75425	3.561 75.855452
1.781 26.330436	3.562 161.35007	3.562 357.47981	3.562 76.836541
1.7815 20.686756	3.563 162.71504	3.563 362.94275	3.563 77.613872
1.782 14.456872	3.564 163.65687	3.564 366.83739	3.564 77.981976
1.7825 7.7755424	3.565 164.25056	3.565 369.07586	3.565 77.743738
1.783 0.8699232	3.566 164.5452	3.566 369.78515	3.566 76.740984
1.7835 -5.951334	3.567 164.55869	3.567 369.2588	3.567 74.885081
1.784 -12.32347	3.568 164.29299	3.568 367.87462	3.568 72.177381

1.7845 -17.85654	3.569 163.76014	3.569 365.99961	3.569 68.712772
1.785 -22.16632	3.57 163.00649	3.57 363.90666	3.57 64.667259
1.7855 -24.90545	3.571 162.12418	3.571 361.7234	3.571 60.276814
1.786 -25.7989	3.572 161.24332	3.572 359.42413	3.572 55.815349
1.7865 -24.68698	3.573 160.50502	3.573 356.86447	3.573 51.574437
1.787 -21.57308	3.574 160.02283	3.574 353.84821	3.574 47.84089
1.7875 -16.66508	3.575 159.84568	3.575 350.20967	3.575 44.86591
1.788 -10.3935	3.576 159.93724	3.576 345.8921	3.576 42.824328
1.7885 -3.39087	3.577 160.1823	3.577 341.00368	3.577 41.772181
1.789 3.5739345	3.578 160.42109	3.578 335.83674	3.578 41.619495
1.7895 9.6974517	3.579 160.50131	3.579 330.84271	3.579 42.13622
1.79 14.25724	3.58 160.32894	3.58 326.56509	3.58 42.999893
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1.7915 14.399412	3.583 158.61629	3.583 322.80574	3.583 44.792374
1.792 9.8131561	3.584 158	3.584 325.32801	3.584 44.768627
1.7925 3.4275822	3.585 157.47838	3.585 329.53197	3.585 44.609186
1.793 -4.184207	3.586 156.99111	3.586 334.96802	3.586 44.525371
1.7935 -12.33437	3.587 156.38449	3.587 341.05203	3.587 44.689298
1.794 -20.26589	3.588 155.4607	3.588 347.15155	3.588 45.185002
1.7945 -27.21359	3.589 154.05379	3.589 352.67691	3.589 46.012042
1.795 -32.48863	3.59 152.10526	3.59 357.16756	3.59 47.13555
1.7955 -35.57987	3.591 149.71036	3.591 360.36303	3.591 48.553385
1.796 -36.24909	3.592 147.11511	3.592 362.2442	3.592 50.342202
1.7965 -34.58711	3.593 144.6625	3.593 363.03061	3.593 52.654324
1.797 -31.00337	3.594 142.70535	3.594 363.12567	3.594 55.661596
1.7975 -26.1401	3.595 141.5156	3.595 363.0164	3.595 59.469093
1.798 -20.72804	3.596 141.21954	3.596 363.15087	3.596 64.037522
1.7985 -15.4223	3.597 141.77707	3.597 363.82767	3.597 69.150785
1.799 -10.66441	3.598 143.0065	3.598 365.13026	3.598 74.445562
1.7995 -6.608818	3.599 144.6412	3.599 366.92462	3.599 79.492521
1.8 -3.131496	3.6 146.39723	3.6 368.91677	3.6 83.897115
1.8005 0.0860929	3.601 148.03131	3.601 370.74703	3.601 87.38198
1.801 3.424736	3.602 149.3755	3.602 372.0887	3.602 89.824814
1.8015 7.1853746	3.603 150.34456	3.603 372.72232	3.603 91.248109
1.802 11.476263	3.604 150.9214	3.604 372.57013	3.604 91.778044
1.8025 16.159615	3.605 151.13236	3.605 371.69082	3.605 91.598715
1.803 20.871785	3.606 151.0259	3.606 370.24625	3.606 90.921581
1.8035 25.110851	3.607 150.66424	3.607 368.45593	3.607 89.974122
1.804 28.365963	3.608 150.12874	3.608 366.55293	3.608 88.996586
1.8045 30.249692	3.609 149.53063	3.609 364.75028	3.609 88.230329
1.805 30.593062	3.61 149.01285	3.61 363.22166	3.61 87.88787
1.8055 29.474711	3.611 148.73156	3.611 362.09682	3.611 88.108432
1.806 27.177523	3.612 148.81705	3.612 361.46843	3.612 88.914891
1.8065 24.090149	3.613 149.32731	3.613 361.40446	3.613 90.191339
1.807 20.587908	3.614 150.21712	3.614 361.9575	3.614 91.693646
1.8075 16.931529	3.615 151.34258	3.615 363.16358	3.615 93.092499
1.808 13.212656	3.616 152.50663	3.616 365.02745	3.616 94.03672
1.8085 9.357339	3.617 153.53119	3.617 367.49928	3.617 94.219781
1.809 5.1804448	3.618 154.327	3.618 370.45502	3.618 93.435357
1.8095 0.4711401	3.619 154.93107	3.619 373.69361	3.619 91.614768

1.81 -4.915476	3.62 155.49519	3.62 376.95839	3.62 88.844892
1.8105 -10.98384	3.621 156.22989	3.621 379.97878	3.621 85.366178
1.811 -17.55783	3.622 157.32635	3.622 382.51781	3.622 81.548001
1.8115 -24.28416	3.623 158.88569	3.623 384.4089	3.623 77.837338
1.812 -30.67906	3.624 160.87963	3.624 385.57133	3.624 74.681143
1.8125 -36.20891	3.625 163.15274	3.625 386.00509	3.625 72.433233
1.813 -40.38768	3.626 165.46141	3.626 385.77491	3.626 71.268113
1.8135 -42.87034	3.627 167.53409	3.627 384.99413	3.627 71.129358
1.814 -43.52087	3.628 169.13378	3.628 383.8129	3.628 71.733797
1.8145 -42.43826	3.629 170.1061	3.629 382.40719	3.629 72.635418
1.815 -39.93183	3.63 170.4029	3.63 380.96186	3.63 73.331952
1.8155 -36.44879	3.631 170.07981	3.631 379.64477	3.631 73.382155
1.816 -32.46952	3.632 169.27296	3.632 378.57707	3.632 72.499866
1.8165 -28.39752	3.633 168.16395	3.633 377.81046	3.633 70.602249
1.817 -24.47575	3.634 166.9422	3.634 377.32163	3.634 67.808069
1.8175 -20.75596	3.635 165.77133	3.635 377.02732	3.635 64.398301
1.818 -17.13114	3.636 164.76371	3.636 376.81435	3.636 60.758886
1.8185 -13.41957	3.637 163.96581	3.637 376.57408	3.637 57.322583
1.819 -9.469434	3.638 163.35719	3.638 376.23025	3.638 54.517763
1.8195 -5.245868	3.639 162.8651	3.639 375.75383	3.639 52.72324
1.82 -0.869184	3.64 162.39386	3.64 375.16367	3.64 52.224985
1.8205 3.4073412	3.641 161.86287	3.641 374.51593	3.641 53.173829
1.821 7.2692557	3.642 161.24189	3.642 373.887	3.642 55.549878
1.8215 10.434323	3.643 160.57043	3.643 373.35523	3.643 59.144368
1.822 12.733966	3.644 159.95206	3.644 372.98642	3.644 63.569611
1.8225 14.155837	3.645 159.52348	3.645 372.82697	3.645 68.301967
1.823 14.835746	3.646 159.40903	3.646 372.90681	3.646 72.753969
1.8235 15.004885	3.647 159.67851	3.647 373.25014	3.647 76.363422
1.824 14.912703	3.648 160.32564	3.648 373.88803	3.648 78.682386
1.8245 14.752586	3.649 161.27634	3.649 374.86372	3.649 79.448639
1.825 14.615035	3.65 162.42235	3.65 376.22273	3.65 78.626157
1.8255 14.482448	3.651 163.6649	3.651 377.98564	3.651 76.408019
1.826 14.264542	3.652 164.94852	3.652 380.1112	3.652 73.182879
1.8265 13.859019	3.653 166.27091	3.653 382.46546	3.653 69.472772
1.827 13.213196	3.654 167.66674	3.654 384.81443	3.654 65.85386
1.8275 12.362268	3.655 169.17552	3.655 386.85091	3.655 62.872513
1.828 11.428943	3.656 170.80969	3.656 388.2524	3.656 60.968073
1.8285 10.584264	3.657 172.53606	3.657 388.75327	3.657 60.412356
1.829 9.9849994	3.658 174.27494	3.658 388.2079	3.658 61.274901
1.8295 9.712697	3.659 175.91223	3.659 386.62484	3.659 63.420976
1.83 9.7389635	3.66 177.31627	3.66 384.16425	3.66 66.544535
1.8305 9.9305788	3.661 178.35355	3.661 381.10421	3.661 70.230498
1.831 10.091123	3.662 178.90292	3.662 377.79077	3.662 74.032468
1.8315 10.020556	3.663 178.87053	3.663 374.58748	3.663 77.547407
1.832 9.567761	3.664 178.20588	3.664 371.83469	3.664 80.470888
1.8325 8.6563574	3.665 176.9147	3.665 369.82125	3.665 82.624413
1.833 7.2781581	3.666 175.06186	3.666 368.76591	3.666 83.95595
1.8335 5.464062	3.667 172.76028	3.667 368.80474	3.667 84.52147
1.834 3.2511899	3.668 170.14913	3.668 369.98366	3.668 84.456738
1.8345 0.6637939	3.669 167.37141	3.669 372.2578	3.669 83.946055
1.835 -2.28405	3.67 164.56244	3.67 375.49956	3.67 83.191565

1.8355 -5.567396	3.671 161.85444	3.671 379.51489	3.671 82.385302
1.836 -9.121431	3.672 159.39252	3.672 384.06389	3.672 81.686643
1.8365 -12.81495	3.673 157.34898	3.673 388.88093	3.673 81.208143
1.837 -16.43266	3.674 155.92243	3.674 393.69187	3.674 81.011226
1.8375 -19.66938	3.675 155.31476	3.675 398.23006	3.675 81.110023
1.838 -22.13986	3.676 155.69077	3.676 402.25463	3.676 81.478922
1.8385 -23.4108	3.677 157.13392	3.677 405.57304	3.677 82.059445
1.839 -23.06085	3.678 159.61398	3.678 408.06405	3.678 82.765623
1.8395 -20.76681	3.679 162.97707	3.679 409.69256	3.679 83.491707
1.84 -16.40049	3.68 166.95967	3.68 410.50736	3.68 84.128197
1.8405 -10.1083	3.681 171.22022	3.681 410.61826	3.681 84.588806
1.841 -2.342541	3.682 175.37941	3.682 410.15876	3.682 84.842807
1.8415 6.1759752	3.683 179.06254	3.683 409.24869	3.683 84.938959
1.842 14.563489	3.684 181.94141	3.684 407.97379	3.684 85.004975
1.8425 21.924228	3.685 183.77543	3.685 406.39316	3.685 85.213887
1.843 27.509358	3.686 184.45009	3.686 404.57387	3.686 85.723587
1.8435 30.844995	3.687 184.00625	3.687 402.63862	3.687 86.610807
1.844 31.800688	3.688 182.64977	3.688 400.80387	3.688 87.827209
1.8445 30.586878	3.689 180.73133	3.689 399.38629	3.689 89.198694
1.845 27.687438	3.69 178.69156	3.69 398.76479	3.69 90.471978
1.8455 23.747182	3.691 176.97721	3.691 399.30148	3.691 91.393246
1.846 19.442132	3.692 175.94437	3.692 401.24105	3.692 91.791054
1.8465 15.361985	3.693 175.77245	3.693 404.6191	3.693 91.634741
1.847 11.929578	3.694 176.41285	3.694 409.21071	3.694 91.049574
1.8475 9.3717172	3.695 177.58961	3.695 414.53997	3.695 90.285641
1.848 7.7413033	3.696 178.85643	3.696 419.95314	3.696 89.652827
1.8485 6.976307	3.697 179.69971	3.697 424.73766	3.697 89.443962
1.849 6.9715576	3.698 179.66444	3.698 428.25547	3.698 89.869811
1.8495 7.6383214	3.699 178.47235	3.699 430.05691	3.699 91.022998
1.85 8.9342327	3.7 176.10134	3.7 429.94988	3.7 92.875942
1.8505 10.858736	3.701 172.80316	3.701 428.01522	3.701 95.305199
1.851 13.421351	3.702 169.05065	3.702 424.57408	3.702 98.126369
1.8515 16.597506	3.703 165.42504	3.703 420.12215	3.703 101.12365
1.852 20.287969	3.704 162.47157	3.704 415.24724	3.704 104.06577
1.8525 24.294442	3.705 160.56373	3.705 410.54405	3.705 106.7111
1.853 28.318211	3.706 159.81663	3.706 406.53618	3.706 108.81319
1.8535 31.983117	3.707 160.07754	3.707 403.61321	3.707 110.13797
1.854 34.879529	3.708 160.9975	3.708 401.98991	3.708 110.49608
1.8545 36.622549	3.709 162.16147	3.709 401.693	3.709 109.7815
1.855 36.915006	3.71 163.23337	3.71 402.57749	3.71 107.9991
1.8555 35.603942	3.711 164.06616	3.711 404.3701	3.711 105.26441
1.856 32.718736	3.712 164.73932	3.712 406.73156	3.712 101.7701
1.8565 28.480644	3.713 165.51234	3.713 409.32624	3.713 97.729412
1.857 23.27802	3.714 166.71443	3.714 411.88529	3.714 93.31974
1.8575 17.608472	3.715 168.61418	3.715 414.25019	3.715 88.65134
1.858 11.997	3.716 171.31851	3.716 416.38697	3.716 83.775691
1.8585 6.9054297	3.717 174.73662	3.717 418.36745	3.717 78.729727
1.859 2.6511008	3.718 178.61618	3.718 420.32236	3.718 73.594929
1.8595 -0.64875	3.719 182.62987	3.719 422.3793	3.719 68.542468
1.86 -3.095183	3.72 186.47233	3.72 424.60323	3.72 63.84099
1.8605 -4.982938	3.721 189.92764	3.721 426.95611	3.721 59.819525

1.861 -6.734724	3.722 192.88619	3.722 429.28599	3.722 56.796949
1.8615 -8.803916	3.723 195.31569	3.723 431.34644	3.723 55.003093
1.862 -11.56359	3.724 197.21334	3.724 432.84016	3.724 54.519446
1.8625 -15.20701	3.725 198.57268	3.725 433.47648	3.725 55.259369
1.863 -19.68681	3.726 199.387	3.726 433.03239	3.726 56.993018
1.8635 -24.71333	3.727 199.68797	3.727 431.40622	3.727 59.407433
1.864 -29.81652	3.728 199.59522	3.728 428.65297	3.728 62.182654
1.8645 -34.45482	3.729 199.34303	3.729 424.99008	3.729 65.062622
1.865 -38.13784	3.73 199.2588	3.73 420.76708	3.73 67.903661
1.8655 -40.52461	3.731 199.69037	3.731 416.40235	3.731 70.690613
1.866 -41.47034	3.732 200.90455	3.732 412.30268	3.732 73.518372
1.8665 -41.01496	3.733 202.99362	3.733 408.79108	3.733 76.543473
1.867 -39.32913	3.734 205.82523	3.734 406.06696	3.734 79.916522
1.8675 -36.64556	3.735 209.05441	3.735 404.21054	3.735 83.711485
1.868 -33.20282	3.736 212.19458	3.736 403.22394	3.736 87.870836
1.8685 -29.21632	3.737 214.72573	3.737 403.08406	3.737 92.18413
1.869 -24.8754	3.738 216.20993	3.738 403.77712	3.738 96.310147
1.8695 -20.35423	3.739 216.38558	3.739 405.29349	3.739 99.840456
1.87 -15.8222	3.74 215.22047	3.74 407.58226	3.74 102.38893
1.8705 -11.44531	3.741 212.91371	3.741 410.48703	3.741 103.68253
1.871 -7.378881	3.742 209.84744	3.742 413.69748	3.742 103.62753
1.8715 -3.757018	3.743 206.49873	3.743 416.74944	3.743 102.33274
1.872 -0.683452	3.744 203.33083	3.744 419.08831	3.744 100.08455
1.8725 1.7761809	3.745 200.68894	3.745 420.18615	3.745 97.282751
1.873 3.6048555	3.746 198.72685	3.746 419.67957	3.746 94.356005
1.8735 4.8508898	3.747 197.3851	3.747 417.48445	3.747 91.679114
1.874 5.6481732	3.748 196.42864	3.748 413.84796	3.748 89.510758
1.8745 6.2292866	3.749 195.53541	3.749 409.31681	3.749 87.962401
1.875 6.9166658	3.75 194.41125	3.75 404.6275	3.75 87.000245
1.8755 8.0804492	3.751 192.89627	3.751 400.54862	3.751 86.475008
1.876 10.062979	3.752 191.02844	3.752 397.72074	3.752 86.170276
1.8765 13.084988	3.753 189.04245	3.753 396.53774	3.753 85.85878
1.877 17.160779	3.754 187.3023	3.754 397.09768	3.754 85.356269
1.8775 22.05325	3.755 186.18967	3.755 399.22614	3.755 84.563654
1.878 27.291558	3.756 185.98553	3.756 402.55222	3.756 83.489791
1.8785 32.256383	3.757 186.78556	3.757 406.60553	3.757 82.250022
1.879 36.31562	3.758 188.47729	3.758 410.90521	3.758 81.039875
1.8795 38.974734	3.759 190.78446	3.759 415.02539	3.759 80.088871
1.88 39.997634	3.76 193.35991	3.76 418.63574	3.76 79.60491
1.8805 39.45956	3.761 195.89272	3.761 421.52326	3.761 79.723206
1.881 37.712207	3.762 198.19236	3.762 423.59983	3.762 80.473549
1.8815 35.267816	3.763 200.22312	3.763 424.8934	3.763 81.775065
1.882 32.635079	3.764 202.08099	3.764 425.51755	3.764 83.459979
1.8825 30.156718	3.765 203.92446	3.765 425.61916	3.765 85.319542
1.883 27.900463	3.766 205.88583	3.766 425.3156	3.766 87.159014
1.8835 25.64029	3.767 207.99469	3.767 424.64324	3.767 88.846177
1.884 22.937344	3.768 210.14075	3.768 423.54061	3.768 90.339838
1.8845 19.298359	3.769 212.08972	3.769 421.87796	3.769 91.690421
1.885 14.363991	3.77 213.54758	3.77 419.52593	3.77 93.012655
1.8855 8.0686406	3.771 214.25161	3.771 416.43862	3.771 94.438558
1.886 0.7209678	3.772 214.0564	3.772 412.7189	3.772 96.0649

1.8865 -7.022355	3.773 212.98428	3.773 408.64058	3.773 97.911092
1.887 -14.28567	3.774 211.22211	3.774 404.61806	3.774 99.899919
1.8875 -20.17275	3.775 209.06585	3.775 401.13225	3.775 101.86586
1.888 -23.9825	3.776 206.83346	3.776 398.63501	3.776 103.58688
1.8885 -25.38564	3.777 204.77817	3.777 397.45937	3.777 104.82871
1.889 -24.51688	3.778 203.0341	3.778 397.75932	3.778 105.3886
1.8895 -21.95755	3.779 201.61323	3.779 399.49381	3.779 105.1279
1.89 -18.60994	3.78 200.45324	3.78 402.45676	3.78 103.98829
1.8905 -15.49057	3.781 199.49453	3.781 406.34193	3.781 101.9928
1.891 -13.49055	3.782 198.75197	3.782 410.82165	3.782 99.236802
1.8915 -13.16183	3.783 198.34742	3.783 415.61451	3.783 95.875378
1.892 -14.58467	3.784 198.48349	3.784 420.52174	3.784 92.111982
1.8925 -17.3524	3.785 199.36329	3.785 425.42336	3.785 88.189324
1.893 -20.67874	3.786 201.08517	3.786 430.23958	3.786 84.379886
1.8935 -23.59952	3.787 203.55458	3.787 434.87599	3.787 80.971563
1.894 -25.21479	3.788 206.45251	3.788 439.17624	3.788 78.245086
1.8945 -24.90821	3.789 209.27966	3.789 442.9034	3.789 76.443506
1.895 -22.48953	3.79 211.46757	3.79 445.75998	3.79 75.738271
1.8955 -18.22966	3.791 212.52202	3.791 447.44217	3.791 76.199017
1.896 -12.78666	3.792 212.15157	3.792 447.71024	3.792 77.773916
1.8965 -7.047012	3.793 210.33998	3.793 446.45086	3.793 80.284843
1.897 -1.923596	3.794 207.34159	3.794 443.70978	3.794 83.438586
1.8975 1.8427045	3.795 203.60652	3.795 439.68456	3.795 86.853212
1.898 3.8348012	3.796 199.66478	3.796 434.6825	3.796 90.097753
1.8985 4.0338218	3.797 196.00855	3.797 429.06066	3.797 92.742425
1.899 2.8024096	3.798 193.00593	3.798 423.16902	3.798 94.414645
1.8995 0.7829219	3.799 190.86287	3.799 417.31215	3.799 94.853482
1.9 -1.264199	3.8 189.63071	3.8 411.73366	3.8 93.953372
1.9005 -2.641979	3.801 189.24294	3.801 406.61711	3.801 91.788693
1.901 -2.872972	3.802 189.56145	3.802 402.09254	3.802 88.614098
1.9015 -1.791075	3.803 190.41711	3.803 398.24016	3.803 84.839987
1.902 0.4512129	3.804 191.63797	3.804 395.0909	3.804 80.986071
1.9025 3.4552757	3.805 193.06472	3.805 392.62976	3.805 77.617864
1.903 6.7003379	3.806 194.55642	3.806 390.81012	3.806 75.27219
1.9035 9.6774089	3.807 195.98984	3.807 389.58219	3.807 74.380068
1.904 11.993593	3.808 197.25623	3.808 388.92983	3.808 75.19889
1.9045 13.422713	3.809 198.2598	3.809 388.9019	3.809 77.768569
1.905 13.900469	3.81 198.92156	3.81 389.6224	3.81 81.904876
1.9055 13.481796	3.811 199.18957	3.811 391.26952	3.811 87.235657
1.906 12.287302	3.812 199.05195	3.812 394.02565	3.812 93.273526
1.9065 10.462367	3.813 198.54549	3.813 398.01292	3.813 99.506986
1.907 8.1601974	3.814 197.75344	3.814 403.23582	3.814 105.48612
1.9075 5.5457505	3.815 196.79089	3.815 409.55111	3.815 110.88183
1.908 2.8074083	3.816 195.78345	3.816 416.67521	3.816 115.50733
1.9085 0.160883	3.817 194.84893	3.817 424.22654	3.817 119.3029
1.909 -2.165431	3.818 194.0906	3.818 431.78808	3.818 122.29413
1.9095 -3.965662	3.819 193.60354	3.819 438.97091	3.819 124.53893
1.91 -5.104848	3.82 193.48743	3.82 445.46106	3.82 126.07865
1.9105 -5.565952	3.821 193.8543	3.821 451.04085	3.821 126.90685
1.911 -5.477965	3.822 194.82164	3.822 455.58612	3.822 126.96526
1.9115 -5.110149	3.823 196.48888	3.823 459.0493	3.823 126.17075

1.912	-4.826121	3.824	198.90496	3.824	461.44159	3.824	124.46771
1.9125	-5.004607	3.825	202.04044	3.825	462.82415	3.825	121.88988
1.913	-5.947057	3.826	205.77695	3.826	463.30993	3.826	118.60821
1.9135	-7.800157	3.827	209.91889	3.827	463.06837	3.827	114.94163
1.914	-10.51881	3.828	214.22294	3.828	462.31935	3.828	111.31971
1.9145	-13.88171	3.829	218.43387	3.829	461.30466	3.829	108.20382
1.915	-17.55187	3.83	222.3152	3.83	460.23545	3.83	105.99148
1.9155	-21.15724	3.831	225.6691	3.831	459.22898	3.831	104.93517
1.916	-24.35974	3.832	228.34682	3.832	458.2599	3.832	105.10059
1.9165	-26.88925	3.833	230.25547	3.833	457.15351	3.833	106.37191
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1.9175	-29.13189	3.835	231.71463	3.835	453.43886	3.835	111.12807
1.918	-28.50749	3.836	231.41071	3.836	450.41623	3.836	113.91069
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1.9195	-18.27273	3.839	228.22562	3.839	438.48954	3.839	119.93307
1.92	-12.32879	3.84	226.90058	3.84	435.32654	3.84	120.44551
1.9205	-5.742703	3.841	225.5532	3.841	433.61209	3.841	120.1018
1.921	0.8073559	3.842	224.15394	3.842	433.76051	3.842	118.9954
1.9215	6.5410658	3.843	222.64853	3.843	435.88738	3.843	117.28681
1.922	10.701341	3.844	221.00437	3.844	439.78331	3.844	115.14566
1.9225	12.682077	3.845	219.24768	3.845	444.96078	3.845	112.68977
1.923	12.128965	3.846	217.47497	3.846	450.7555	3.846	109.94533
1.9235	8.9956698	3.847	215.8333	3.847	456.45289	3.847	106.84652
1.924	3.5511109	3.848	214.47671	3.848	461.40973	3.848	103.27777
1.9245	-3.656824	3.849	213.51623	3.849	465.14801	3.849	99.143687
1.925	-11.87156	3.85	212.98226	3.85	467.40873	3.85	94.439631
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1.9265	-33.89257	3.853	212.97338	3.853	466.01536	3.853	78.828543
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1.9275	-39.2236	3.855	212.71975	3.855	461.48482	3.855	70.529818
1.928	-37.99675	3.856	212.22378	3.856	459.26976	3.856	67.941159
1.9285	-34.25976	3.857	211.54194	3.857	457.42361	3.857	66.594057
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1.931	6.5335248	3.862	211.06676	3.862	454.86284	3.862	76.307355
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1.932	22.283781	3.864	213.92637	3.864	456.19825	3.864	83.657711
1.9325	28.033763	3.865	215.71044	3.865	457.09453	3.865	86.702584
1.933	32.12207	3.866	217.4943	3.866	457.93141	3.866	88.928479
1.9335	34.635674	3.867	219.12419	3.867	458.5159	3.867	90.217836
1.934	35.858024	3.868	220.48988	3.868	458.69532	3.868	90.646617
1.9345	36.202362	3.869	221.52746	3.869	458.42104	3.869	90.469149
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1.936	36.02127	3.872	222.51896	3.872	456.37711	3.872	89.933865
1.9365	36.294229	3.873	222.17864	3.873	456.16059	3.873	90.646477
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1.9375 36.866342	3.875 220.74359	3.875 457.46358	3.875 93.255652
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1.9385 35.431695	3.877 219.11978	3.877 460.47024	3.877 95.296012
1.939 33.213841	3.878 218.75017	3.878 462.06049	3.878 95.256248
1.9395 29.786282	3.879 219.00782	3.879 463.43666	3.879 94.301173
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1.9405 19.624161	3.881 222.13307	3.881 465.24913	3.881 90.253062
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1.9435 -10.50943	3.887 243.32818	3.887 468.21905	3.887 88.105451
1.944 -11.77943	3.888 245.1374	3.888 469.27458	3.888 90.878347
1.9445 -11.85626	3.889 245.74115	3.889 470.54756	3.889 93.882952
1.945 -11.01896	3.89 245.10264	3.89 471.95428	3.89 96.662305
1.9455 -9.607101	3.891 243.29457	3.891 473.38551	3.891 98.806663
1.946 -7.957534	3.892 240.48431	3.892 474.74825	3.892 100.02175
1.9465 -6.351863	3.893 236.91618	3.893 476.00827	3.893 100.18283
1.947 -4.984232	3.894 232.89029	3.894 477.21232	3.894 99.36592
1.9475 -3.952406	3.895 228.73649	3.895 478.47602	3.895 97.846509
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1.9485 -2.875435	3.897 221.33973	3.897 481.70714	3.897 94.52607
1.949 -2.675013	3.898 218.65689	3.898 483.80159	3.898 93.752511
1.9495 -2.537675	3.899 216.93643	3.899 486.14491	3.899 94.137768
1.95 -2.319054	3.9 216.31775	3.9 488.57965	3.9 95.899017
1.9505 -1.871487	3.901 216.87553	3.901 490.91354	3.901 99.041791
1.951 -1.057722	3.902 218.60884	3.902 492.96809	3.902 103.37726
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1.952 2.0810365	3.904 225.12144	3.904 495.77093	3.904 114.25402
1.9525 4.5099899	3.905 229.39361	3.905 496.4218	3.905 120.01849
1.953 7.4952912	3.906 233.8529	3.906 496.58031	3.906 125.5338
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1.9545 18.434056	3.909 244.41371	3.909 494.78643	3.909 137.99562
1.955 21.834008	3.91 246.09835	3.91 493.84487	3.91 140.08529
1.9555 24.439939	3.911 246.77061	3.911 492.99942	3.911 140.86838
1.956 25.795982	3.912 246.59082	3.912 492.39312	3.912 140.28949
1.9565 25.51076	3.913 245.81285	3.913 492.11142	3.913 138.43296
1.957 23.33923	3.914 244.72631	3.914 492.16547	3.914 135.55046
1.9575 19.241839	3.915 243.60199	3.915 492.50031	3.915 132.04454
1.958 13.401652	3.916 242.65305	3.916 493.02565	3.916 128.40247
1.9585 6.1940712	3.917 242.01882	3.917 493.65587	3.917 125.09507
1.959 -1.880461	3.918 241.77093	3.918 494.34055	3.918 122.4718
1.9595 -10.27988	3.919 241.93535	3.919 495.06962	3.919 120.68744
1.96 -18.49816	3.92 242.52019	3.92 495.84894	3.92 119.68649
1.9605 -26.12287	3.921 243.53857	3.921 496.65593	3.921 119.25095
1.961 -32.86858	3.922 245.01851	3.922 497.39666	3.922 119.09497
1.9615 -38.58912	3.923 246.99687	3.923 497.88796	3.923 118.97377
1.962 -43.27254	3.924 249.49983	3.924 497.87941	3.924 118.77148
1.9625 -47.01812	3.925 252.51677	3.925 497.11384	3.925 118.54058

1.963 -49.99248	3.926 255.9766	3.926 495.40794	3.926 118.48293
1.9635 -52.36433	3.927 259.73445	3.927 492.72497	3.927 118.87954
1.964 -54.22688	3.928 263.57387	3.928 489.21316	3.928 119.99048
1.9645 -55.52768	3.929 267.22605	3.929 485.19532	3.929 121.95317
1.965 -56.03078	3.93 270.40396	3.93 481.11211	3.93 124.70764
1.9655 -55.3316	3.931 272.84568	3.931 477.436	3.931 127.97034
1.966 -52.93019	3.932 274.35864	3.932 474.58118	3.932 131.2667
1.9665 -48.35002	3.933 274.85442	3.933 472.83342	3.933 134.01765
1.967 -41.27419	3.934 274.36493	3.934 472.316	3.934 135.66078
1.9675 -31.66434	3.935 273.03487	3.935 472.99524	3.935 135.77644
1.968 -19.83112	3.936 271.0926	3.936 474.71724	3.936 134.1859
1.9685 -6.437841	3.937 268.80784	3.937 477.25874	3.937 130.99461
1.969 7.565465	3.938 266.44839	3.938 480.37305	3.938 126.56796
1.9695 21.063632	3.939 264.24566	3.939 483.81626	3.939 121.44603
1.97 32.928441	3.94 262.37314	3.94 487.34969	3.94 116.2224
1.9705 42.17073	3.941 260.93515	3.941 490.72588	3.941 111.42291
1.971 48.064765	3.942 259.96041	3.942 493.67501	3.942 107.4197
1.9715 50.225916	3.943 259.39706	3.943 495.90994	3.943 104.40233
1.972 48.634591	3.944 259.11195	3.944 497.16097	3.944 102.40679
1.9725 43.610396	3.945 258.90224	3.945 497.23786	3.945 101.38271
1.973 35.747609	3.946 258.52755	3.946 496.10149	3.946 101.26655
1.9735 25.825655	3.947 257.76384	3.947 493.91812	3.947 102.0297
1.974 14.708016	3.948 256.46889	3.948 491.0698	3.948 103.68255
1.9745 3.242341	3.949 254.63829	3.949 488.10623	3.949 106.23491
1.975 -7.825638	3.95 252.42823	3.95 485.64233	3.95 109.63175
1.9755 -17.91232	3.951 250.12885	3.951 484.22515	3.951 113.69401
1.976 -26.62189	3.952 248.08842	3.952 484.20535	3.952 118.09452
1.9765 -33.73616	3.953 246.60744	3.953 485.64949	3.953 122.38634
1.977 -39.17704	3.954 245.83568	3.954 488.31769	3.954 126.08111
1.9775 -42.95841	3.955 245.70712	3.955 491.7138	3.955 128.75424
1.978 -45.14612	3.956 245.93765	3.956 495.19631	3.956 130.14181
1.9785 -45.83858	3.957 246.09058	3.957 498.12413	3.957 130.19642
1.979 -45.16855	3.958 245.6931	3.958 500.00395	3.958 129.08531
1.9795 -43.31436	3.959 244.36981	3.959 500.60568	3.959 127.13645
1.98 -40.50347	3.96 241.95383	3.96 500.01873	3.96 124.75665
1.9805 -36.99529	3.961 238.54332	3.961 498.63328	3.961 122.35157
1.981 -33.04308	3.962 234.48904	3.962 497.04798	3.962 120.27024
1.9815 -28.84935	3.963 230.32001	3.963 495.92351	3.963 118.78086
1.982 -24.53723	3.964 226.63204	3.964 495.81785	3.964 118.06987
1.9825 -20.15671	3.965 223.97141	3.965 497.046	3.965 118.24855
1.983 -15.72886	3.966 222.74237	3.966 499.60184	3.966 119.35285
1.9835 -11.31207	3.967 223.15416	3.967 503.16247	3.967 121.33156
1.984 -7.060425	3.968 225.20891	3.968 507.17167	3.968 124.0279
1.9845 -3.244836	3.969 228.72036	3.969 510.97628	3.969 127.16852
1.985 -0.221792	3.97 233.35053	3.97 513.97637	3.97 130.37501
1.9855 1.6436284	3.971 238.65462	3.971 515.7488	3.971 133.208
1.986 2.0757307	3.972 244.13171	3.972 516.11569	3.972 135.24257
1.9865 0.9756517	3.973 249.28277	3.973 515.14767	3.973 136.16021
1.987 -1.527035	3.974 253.67606	3.974 513.11112	3.974 135.83256
1.9875 -5.0699	3.975 257.01308	3.975 510.38285	3.975 134.36942
1.988 -9.097628	3.976 259.1801	3.976 507.36038	3.976 132.11154

1.9885 -12.93476	3.977 260.26641	3.977 504.39221	3.977 129.56445
1.989 -15.87727	3.978 260.53582	3.978 501.74103	3.978 127.28835
1.9895 -17.29048	3.979 260.35111	3.979 499.58008	3.979 125.77317
1.99 -16.70257	3.98 260.06819	3.98 498.01207	3.98 125.33243
1.9905 -13.88327	3.981 259.93037	3.981 497.09513	3.981 126.04322
1.991 -8.896201	3.982 259.99673	3.982 496.86152	3.982 127.74549
1.9915 -2.113878	3.983 260.12979	3.983 497.32028	3.983 130.09695
1.992 5.8132316	3.984 260.04844	3.984 498.44363	3.984 132.66587
1.9925 14.035226	3.985 259.42962	3.985 500.14426	3.985 135.03572
1.993 21.621764	3.986 258.02483	3.986 502.25657	3.986 136.8945
1.9935 27.704834	3.987 255.75268	3.987 504.53576	3.987 138.08711
1.994 31.621354	3.988 252.73832	3.988 506.68443	3.988 138.61972
1.9945 33.02894	3.989 249.29048	3.989 508.40702	3.989 138.61931
1.995 31.971258	3.99 245.82857	3.99 509.48066	3.99 138.26469
1.9955 28.877999	3.991 242.78595	3.991 509.8217	3.991 137.7142
1.996 24.496739	3.992 240.51815	3.992 509.52431	3.992 137.05544
1.9965 19.76692	3.993 239.23652	3.993 508.85383	3.993 136.29323
1.997 15.65697	3.994 238.97667	3.994 508.19071	3.994 135.37615
1.9975 12.992247	3.995 239.6009	3.995 507.93717	3.995 134.24716
1.998 12.303314	3.996 240.8298	3.996 508.41182	3.996 132.89517
1.9985 13.721212	3.997 242.29575	3.997 509.76259	3.997 131.38646
1.999 16.939483	3.998 243.61075	3.998 511.92422	3.998 129.86551
1.9995 21.252362	3.999 244.43817	3.999 514.6338	3.999 128.52771
2 25.665982	4 244.55619	4 517.50105	4 127.57658
2.0005 29.066343	4.001 243.90024	4.001 520.11344	4.001 127.18139
2.001 30.416377	4.002 242.57451	4.002 522.1463	4.002 127.44785
2.0015 28.947101	4.003 240.82859	4.003 523.446	4.003 128.40799
2.002 24.306236	4.004 239.00334	4.004 524.06316	4.004 130.02803
2.0025 16.633108	4.005 237.45723	4.005 524.2272	4.005 132.22717
2.003 6.5412936	4.006 236.49042	4.006 524.27206	4.006 134.89719
2.0035 -4.990682	4.007 236.28532	4.007 524.53693	4.007 137.91363
2.004 -16.79881	4.008 236.87843	4.008 525.27275	4.008 141.1338
2.0045 -27.74296	4.009 238.16965	4.009 526.58128	4.009 144.3843
2.005 -36.8971	4.01 239.96348	4.01 528.40196	4.01 147.448
2.0055 -43.67612	4.011 242.02706	4.011 530.54488	4.011 150.06346
2.006 -47.87394	4.012 244.14579	4.012 532.7551	4.012 151.94656
2.0065 -49.61283	4.013 246.16057	4.013 534.7858	4.013 152.83543
2.007 -49.22908	4.014 247.9787	4.014 536.45949	4.014 152.5487
2.0075 -47.13447	4.015 249.56045	4.015 537.70331	4.015 151.03996
2.008 -43.69456	4.016 250.89085	4.016 538.55389	4.016 148.43024
2.0085 -39.15366	4.017 251.94971	4.017 539.13428	4.017 145.00728
2.009 -33.61885	4.018 252.69147	4.018 539.61063	4.018 141.19093
2.0095 -27.09707	4.019 253.04238	4.019 540.13874	4.019 137.47345
2.01 -19.56674	4.02 252.91593	4.02 540.81303	4.02 134.34802
2.0105 -11.0595	4.021 252.24095	4.021 541.63134	4.021 132.23821
2.011 -1.729364	4.022 250.99243	4.022 542.48751	4.022 131.43694
2.0115 8.1080053	4.023 249.21362	4.023 543.19761	4.023 132.06143
2.012 17.97517	4.024 247.02049	4.024 543.55576	4.024 134.03092
2.0125 27.27349	4.025 244.58493	4.025 543.40453	4.025 137.07506
2.013 35.358375	4.026 242.10024	4.026 542.69821	4.026 140.77891
2.0135 41.635951	4.027 239.73868	4.027 541.53744	4.027 144.66131

2.014 45.662039	4.028 237.61528	4.028 540.16203	4.028 148.27072
2.0145 47.221504	4.029 235.7713	4.029 538.90111	4.029 151.27073
2.015 46.368425	4.03 234.1854	4.03 538.09285	4.03 153.48739
2.0155 43.415759	4.031 232.81058	4.031 537.99507	4.031 154.90213
2.016 38.875686	4.032 231.62374	4.032 538.71121	4.032 155.59598
2.0165 33.364826	4.033 230.66848	4.033 540.15253	4.033 155.67094
2.017 27.497804	4.034 230.07237	4.034 542.0491	4.034 155.18259
2.0175 21.794941	4.035 230.02922	4.035 544.00878	4.035 154.11118
2.018 16.624665	4.036 230.75005	4.036 545.61122	4.036 152.3792
2.0185 12.190557	4.037 232.39765	4.037 546.51342	4.037 149.90349
2.019 8.5603901	4.038 235.02421	4.038 546.53932	4.038 146.65715
2.0195 5.7239714	4.039 238.52976	4.039 545.72899	4.039 142.71623
2.02 3.6604129	4.04 242.65204	4.04 544.33214	4.04 138.27474
2.0205 2.3945171	4.041 246.99118	4.041 542.74505	4.041 133.62422
2.021 2.0254638	4.042 251.06568	4.042 541.40573	4.042 129.10496
2.0215 2.717962	4.043 254.39133	4.043 540.67536	4.043 125.04326
2.022 4.6553698	4.044 256.56994	4.044 540.74058	4.044 121.69143
2.0225 7.9647763	4.045 257.37153	4.045 541.56673	4.045 119.18569
2.023 12.633581	4.046 256.79268	4.046 542.91691	4.046 117.53143
2.0235 18.442753	4.047 255.07672	4.047 544.43059	4.047 116.61622
2.024 24.940772	4.048 252.68787	4.048 545.73597	4.048 116.2426
2.0245 31.473176	4.049 250.24127	4.049 546.56074	4.049 116.16756
2.025 37.26749	4.05 248.39988	4.05 546.80931	4.05 116.13739
2.0255 41.5569	4.051 247.75712	4.051 546.58777	4.051 115.91396
2.026 43.714092	4.052 248.72719	4.052 546.17484	4.052 115.29764
2.0265 43.36358	4.053 251.46441	4.053 545.95078	4.053 114.15637
2.027 40.447358	4.054 255.82777	4.054 546.30451	4.054 112.46657
2.0275 35.231922	4.055 261.39806	4.055 547.54188	4.055 110.36035
2.028 28.259419	4.056 267.54565	4.056 549.81625	4.056 108.16011
2.0285 20.257168	4.057 273.53689	4.057 553.09753	4.057 106.37519
2.029 12.02558	4.058 278.65991	4.058 557.18573	4.058 105.64026
2.0295 4.3250975	4.059 282.34679	4.059 561.76164	4.059 106.5932
2.03 -2.219845	4.06 284.26893	4.06 566.45551	4.06 109.71503
2.0305 -7.185971	4.061 284.38764	4.061 570.90866	4.061 115.17512
2.031 -10.37669	4.062 282.95055	4.062 574.80896	4.062 122.73288
2.0315 -11.806	4.063 280.43605	4.063 577.89604	4.063 131.73588
2.032 -11.64692	4.064 277.45926	4.064 579.94885	4.064 141.22648
2.0325 -10.15879	4.065 274.66068	4.065 580.77776	4.065 150.13347
2.033 -7.613006	4.066 272.60073	4.066 580.23979	4.066 157.49581
2.0335 -4.237027	4.067 271.67837	4.067 578.28092	4.067 162.65321
2.034 -0.190015	4.068 272.08454	4.068 574.99195	4.068 165.3497
2.0345 4.4266986	4.069 273.79174	4.069 570.65232	4.069 165.72739
2.035 9.5327461	4.07 276.57595	4.07 565.73628	4.07 164.22534
2.0355 15.021956	4.071 280.06395	4.071 560.86657	4.071 161.42871
2.036 20.724547	4.072 283.79958	4.072 556.718	4.072 157.92287
2.0365 26.393101	4.073 287.32192	4.073 553.89048	4.073 154.19512
2.037 31.718577	4.074 290.2465	4.074 552.78297	4.074 150.59958
2.0375 36.372789	4.075 292.33721	4.075 553.50256	4.075 147.37272
2.038 40.065956	4.076 293.5531	4.076 555.83601	4.076 144.67034
2.0385 42.604013	4.077 294.05545	4.077 559.2947	4.077 142.59635
2.039 43.930899	4.078 294.16759	4.078 563.22366	4.078 141.20704

2.0395 44.144872	4.079 294.29327	4.079 566.94601	4.079 140.49326
2.04 43.483849	4.08 294.81328	4.08 569.90443	4.08 140.35764
2.0405 42.281621	4.081 295.98969	4.081 571.76369	4.081 140.60935
2.041 40.903413	4.082 297.90505	4.082 572.45251	4.082 140.99235
2.0415 39.674382	4.083 300.45243	4.083 572.14315	4.083 141.24867
2.042 38.816657	4.084 303.37432	4.084 571.1843	4.084 141.19982
2.0425 38.408481	4.085 306.33347	4.085 570.01235	4.085 140.8164
2.043 38.37334	4.086 308.99171	4.086 569.0649	4.086 140.24402
2.0435 38.49979	4.087 311.07632	4.087 568.71314	4.087 139.76702
2.044 38.486775	4.088 312.42243	4.088 569.21973	4.088 139.71541
2.0445 38.005988	4.089 312.98944	4.089 570.72064	4.089 140.34579
2.045 36.771605	4.09 312.85501	4.09 573.22537	4.09 141.74057
2.0455 34.606585	4.091 312.19035	4.091 576.62842	4.091 143.76498
2.046 31.492563	4.092 311.21988	4.092 580.72658	4.092 146.0992
2.0465 27.588841	4.093 310.16873	4.093 585.23918	4.093 148.33397
2.047 23.208829	4.094 309.20571	4.094 589.8317	4.094 150.09523
2.0475 18.752336	4.095 308.39469	4.095 594.14501	4.095 151.1547
2.048 14.60792	4.096 307.67031	4.096 597.83188	4.096 151.49189
2.0485 11.054363	4.097 306.85099	4.097 600.59952	4.097 151.29132
2.049 8.1956621	4.098 305.69219	4.098 602.25181	4.098 150.88089
2.0495 5.9543525	4.099 303.96899	4.099 602.7212	4.099 150.63356
2.05 4.1258223	4.1 301.56432	4.1 602.08034	4.1 150.86258
2.0505 2.471147	4.101 298.53337	4.101 600.52749	4.101 151.73786
2.051 0.809879	4.102 295.1199	4.102 598.34766	4.102 153.24214
2.0515 -0.924781	4.103 291.71562	4.103 595.8591	4.103 155.17307
2.052 -2.68838	4.104 288.77359	4.104 593.35938	4.104 157.18618
2.0525 -4.379296	4.105 286.70315	4.105 591.08447	4.105 158.86615
2.053 -5.916567	4.106 285.77914	4.106 589.18929	4.106 159.81062
2.0535 -7.30471	4.107 286.0904	4.107 587.75058	4.107 159.71043
2.054 -8.655991	4.108 287.53605	4.108 586.78588	4.108 158.41141
2.0545 -10.15956	4.109 289.86093	4.109 586.27862	4.109 155.94596
2.055 -12.00862	4.11 292.71185	4.11 586.199	4.11 152.5275
2.0555 -14.31286	4.111 295.69707	4.111 586.51335	4.111 148.50868
2.056 -17.02819	4.112 298.43915	4.112 587.17992	4.112 144.31364
2.0565 -19.93025	4.113 300.61915	4.113 588.13454	4.113 140.36161
2.057 -22.64355	4.114 302.01318	4.114 589.27442	4.114 137.00166
2.0575 -24.72188	4.115 302.51908	4.115 590.45019	4.115 134.47325
2.058 -25.75933	4.116 302.16612	4.116 591.47448	4.116 132.89791
2.0585 -25.50106	4.117 301.09957	4.117 592.14916	4.117 132.29664
2.059 -23.92012	4.118 299.53802	4.118 592.30581	4.118 132.62081
2.0595 -21.23409	4.119 297.71252	4.119 591.84612	4.119 133.78321
2.06 -17.85223	4.12 295.80646	4.12 590.76684	4.12 135.68007
2.0605 -14.2661	4.121 293.91783	4.121 589.15815	4.121 138.201
2.061 -10.91677	4.122 292.05752	4.122 587.17445	4.122 141.2299
2.0615 -8.081804	4.123 290.18269	4.123 584.98849	4.123 144.64252
2.062 -5.819461	4.124 288.24933	4.124 582.74756	4.124 148.30607
2.0625 -3.98743	4.125 286.26084	4.125 580.55019	4.125 152.08279
2.063 -2.326349	4.126 284.29252	4.126 578.45227	4.126 155.8359
2.0635 -0.575054	4.127 282.48288	4.127 576.498	4.127 159.43412
2.064 1.4251393	4.128 280.99611	4.128 574.75923	4.128 162.75183
2.0645 3.6724964	4.129 279.96983	4.129 573.36226	4.129 165.66604

2.065 6.0081545	4.13 279.46559	4.13 572.48698	4.13 168.05477
2.0655 8.1713835	4.131 279.43769	4.131 572.33473	4.131 169.80318
2.066 9.8800285	4.132 279.73089	4.132 573.07453	4.132 170.82103
2.0665 10.905016	4.133 280.11127	4.133 574.78577	4.133 171.06911
2.067 11.116697	4.134 280.32591	4.134 577.41724	4.134 170.58634
2.0675 10.49699	4.135 280.17825	4.135 580.77652	4.135 169.50525
2.068 9.1262237	4.136 279.59732	4.136 584.55482	4.136 168.04509
2.0685 7.1603712	4.137 278.67648	4.137 588.38155	4.137 166.47776
2.069 4.8111766	4.138 277.6638	4.138 591.8947	4.138 165.07126
2.0695 2.3321863	4.139 276.90227	4.139 594.80819	4.139 164.02468
2.07 0.0044989	4.14 276.73702	4.14 596.95837	4.14 163.41522
2.0705 -1.887187	4.141 277.42102	4.141 598.3173	4.141 163.17667
2.071 -3.093425	4.142 279.0515	4.142 598.97139	4.142 163.12057
2.0715 -3.450238	4.143 281.5564	4.143 599.07483	4.143 162.99678
2.072 -2.929003	4.144 284.72967	4.144 598.79556	4.144 162.57487
2.0725 -1.670678	4.145 288.29609	4.145 598.27298	4.145 161.71768
2.073 0.0089952	4.146 291.97893	4.146 597.60034	4.146 160.41954
2.0735 1.6505633	4.147 295.54931	4.147 596.83387	4.147 158.79355
2.074 2.7174043	4.148 298.84927	4.148 596.01971	4.148 157.0122
2.0745 2.6883952	4.149 301.7926	4.149 595.22294	4.149 155.22508
2.075 1.1595358	4.15 304.3535	4.15 594.54352	4.15 153.48738
2.0755 -2.068088	4.151 306.55125	4.151 594.10984	4.151 151.72942
2.076 -6.937048	4.152 308.43425	4.152 594.05011	4.152 149.78045
2.0765 -13.13528	4.153 310.06289	4.153 594.45096	4.153 147.43765
2.077 -20.15322	4.154 311.49089	4.154 595.31895	4.154 144.55283
2.0775 -27.3822	4.155 312.74755	4.155 596.561	4.155 141.10359
2.078 -34.22654	4.156 313.82617	4.156 597.99526	4.156 137.22409
2.0785 -40.19816	4.157 314.68382	4.157 599.39291	4.157 133.18806
2.079 -44.96983	4.158 315.25574	4.158 600.54029	4.158 129.35453
2.0795 -48.37924	4.159 315.48245	4.159 601.3008	4.159 126.09767
2.08 -50.39334	4.16 315.34297	4.16 601.65459	4.16 123.74195
2.0805 -51.05408	4.161 314.88325	4.161 601.70012	4.161 122.5163
2.081 -50.42899	4.162 314.22723	4.162 601.61511	4.162 122.53155
2.0815 -48.58266	4.163 313.56163	4.163 601.59002	4.163 123.77837
2.082 -45.57274	4.164 313.09338	4.164 601.75859	4.164 126.14173
2.0825 -41.46333	4.165 312.99071	4.165 602.1526	4.165 129.42839
2.083 -36.34251	4.166 313.32756	4.166 602.69976	4.166 133.40464
2.0835 -30.33316	4.167 314.05315	4.167 603.26638	4.167 137.83944
2.084 -23.59344	4.168 314.99991	4.168 603.72761	4.168 142.5438
2.0845 -16.31181	4.169 315.92814	4.169 604.03534	4.169 147.39516
2.085 -8.70572	4.17 316.59172	4.17 604.25408	4.17 152.33744
2.0855 -1.030678	4.171 316.80243	4.171 604.54893	4.171 157.35478
2.086 6.4025396	4.172 316.47404	4.172 605.13044	4.172 162.42577
2.0865 13.21466	4.173 315.63756	4.173 606.17937	4.173 167.47254
2.087 18.966263	4.174 314.42911	4.174 607.78069	4.174 172.32163
2.0875 23.201063	4.175 313.05879	4.175 609.88932	4.175 176.69096
2.088 25.524089	4.176 311.76939	4.176 612.33475	4.176 180.2119
2.0885 25.697439	4.177 310.79285	4.177 614.85623	4.177 182.48684
2.089 23.723522	4.178 310.31081	4.178 617.15257	4.178 183.17363
2.0895 19.884447	4.179 310.42519	4.179 618.93232	4.179 182.07817
2.09 14.71836	4.18 311.14355	4.18 619.95747	4.18 179.22945

2.0905	8.934325	4.181	312.38071	4.181	620.08093	4.181	174.91137
2.091	3.2881024	4.182	313.97436	4.182	619.27873	4.182	169.63522
2.0915	-1.546862	4.183	315.70947	4.183	617.67327	4.183	164.05484
2.092	-5.080142	4.184	317.34721	4.184	615.53721	4.184	158.84581
2.0925	-7.056329	4.185	318.65758	4.185	613.2662	4.185	154.58279
2.093	-7.455715	4.186	319.45699	4.186	611.31621	4.186	151.64872
2.0935	-6.455994	4.187	319.64966	4.187	610.11619	4.187	150.19678
2.094	-4.374085	4.188	319.26411	4.188	609.98051	4.188	150.16725
2.0945	-1.604822	4.189	318.46937	4.189	611.04955	4.189	151.34421
2.095	1.4344327	4.19	317.55494	4.19	613.27746	4.19	153.42862
2.0955	4.3516754	4.191	316.86877	4.191	616.46535	4.191	156.10486
2.096	6.8218091	4.192	316.72511	4.192	620.31958	4.192	159.08582
2.0965	8.6204173	4.193	317.31016	4.193	624.50643	4.193	162.13179
2.097	9.6434345	4.194	318.61937	4.194	628.68254	4.194	165.04761
2.0975	9.9039669	4.195	320.45083	4.195	632.49998	4.195	167.66872
2.098	9.5008641	4.196	322.45866	4.196	635.60403	4.196	169.84924
2.0985	8.5625218	4.197	324.24732	4.197	637.64952	4.197	171.46243
2.099	7.1801184	4.198	325.47362	4.198	638.35188	4.198	172.41752
2.0995	5.3520171	4.199	325.92323	4.199	637.56723	4.199	172.68749
2.1	2.9615156	4.2	325.54199	4.2	635.37255	4.2	172.33446
2.1005	-0.197582	4.201	324.4216	4.201	632.10566	4.201	171.51668
2.101	-4.347138	4.202	322.75523	4.202	628.33397	4.202	170.46643
2.1015	-9.618719	4.203	320.78423	4.203	624.74693	4.203	169.43989
2.102	-15.9458	4.204	318.75268	4.204	621.99973	4.204	168.65259
2.1025	-22.99133	4.205	316.87616	4.205	620.55891	4.205	168.22181
2.103	-30.14354	4.206	315.32257	4.206	620.60358	4.206	168.13572
2.1035	-36.59597	4.207	314.20014	4.207	622.01537	4.207	168.25969
2.104	-41.50205	4.208	313.55062	4.208	624.45681	4.208	168.37753
2.1045	-44.16759	4.209	313.35042	4.209	627.50384	4.209	168.2549
2.105	-44.2269	4.21	313.52282	4.21	630.78052	4.21	167.70757
2.1055	-41.74842	4.211	313.96104	4.211	634.04724	4.211	166.65748
2.106	-37.23463	4.212	314.55558	4.212	637.21725	4.212	165.16358
2.1065	-31.51311	4.213	315.21561	4.213	640.30696	4.213	163.41987
2.107	-25.54889	4.214	315.87635	4.214	643.35122	4.214	161.71914
2.1075	-20.23001	4.215	316.49127	4.215	646.32433	4.215	160.38848
2.108	-16.18343	4.216	317.0161	4.216	649.10017	4.216	159.70989
2.1085	-13.66458	4.217	317.39619	4.217	651.46426	4.217	159.84568
2.109	-12.53978	4.218	317.56754	4.218	653.16843	4.218	160.78906
2.1095	-12.35452	4.219	317.47581	4.219	654.00331	4.219	162.35549
2.11	-12.46037	4.22	317.10898	4.22	653.86135	4.22	164.21947
2.1105	-12.16503	4.221	316.53202	4.221	652.77123	4.221	165.98798
2.111	-10.87243	4.222	315.90783	4.222	650.89869	4.222	167.2914
2.1115	-8.190146	4.223	315.49016	4.223	648.52046	4.223	167.86691
2.112	-3.992538	4.224	315.58126	4.224	645.9837	4.224	167.61216
2.1125	1.5629336	4.225	316.45865	4.225	643.66184	4.225	166.59581
2.113	8.0644774	4.226	318.28901	4.226	641.91302	4.226	165.02481
2.1135	14.915156	4.227	321.05632	4.227	641.04357	4.227	163.18087
2.114	21.433429	4.228	324.53188	4.228	641.27789	4.228	161.34811
2.1145	26.968896	4.229	328.30333	4.229	642.73712	4.229	159.75509
2.115	31.009919	4.23	331.86065	4.23	645.42889	4.23	158.54842
2.1155	33.257654	4.231	334.71634	4.231	649.24854	4.231	157.80246

2.116 33.647875	4.232 336.52361	4.232 653.98849	4.232 157.55529
2.1165 32.317251	4.233 337.15514	4.233 659.35149	4.233 157.85118
2.117 29.529098	4.234 336.71818	4.234 664.96556	4.234 158.76719
2.1175 25.58677	4.235 335.50361	4.235 670.404	4.235 160.40887
2.118 20.764739	4.236 333.88885	4.236 675.21783	4.236 162.87284
2.1185 15.277068	4.237 332.22848	4.237 678.98663	4.237 166.1885
2.119 9.2854551	4.238 330.76732	4.238 681.38547	4.238 170.2607
2.1195 2.9327083	4.239 329.59928	4.239 682.2537	4.239 174.83714
2.12 -3.620437	4.24 328.67741	4.24 681.64281	4.24 179.51731
2.1205 -10.17397	4.241 327.86413	4.241 679.82105	4.241 183.80668
2.121 -16.49015	4.242 327.00158	4.242 677.22444	4.242 187.20523
2.1215 -22.31223	4.243 325.98032	4.243 674.36224	4.243 189.30841
2.122 -27.38702	4.244 324.78975	4.244 671.70226	4.244 189.89392
2.1225 -31.47906	4.245 323.53916	4.245 669.56939	4.245 188.97172
2.123 -34.37319	4.246 322.4441	4.246 668.08645	4.246 186.78505
2.1235 -35.87319	4.247 321.7784	4.247 667.17192	4.247 183.76327
2.124 -35.81084	4.248 321.79983	4.248 666.59078	4.248 180.43982
2.1245 -34.07628	4.249 322.66699	4.249 666.03971	4.249 177.35617
2.125 -30.66961	4.25 324.3726	4.25 665.23972	4.25 174.9748
2.1255 -25.75889	4.251 326.71941	4.251 664.01075	4.251 173.61859
2.126 -19.72035	4.252 329.35481	4.252 662.31036	4.252 173.44528
2.1265 -13.13727	4.253 331.86056	4.253 660.23127	4.253 174.45444
2.127 -6.745578	4.254 333.87161	4.254 657.96435	4.254 176.51681
2.1275 -1.330846	4.255 335.18282	4.255 655.74242	4.255 179.4134
2.128 2.4021782	4.256 335.80314	4.256 653.78317	4.256 182.8744
2.1285 3.9580303	4.257 335.93506	4.257 652.24571	4.257 186.61373
2.129 3.1474274	4.258 335.88617	4.258 651.20844	4.258 190.35907
2.1295 0.131065	4.259 335.94793	4.259 650.66761	4.259 193.87792
2.13 -4.599123	4.26 336.28974	4.26 650.55084	4.26 196.99797
2.1305 -10.29777	4.261 336.90982	4.261 650.73865	4.261 199.61724
2.131 -16.08823	4.262 337.65929	4.262 651.08808	4.262 201.69974
2.1315 -21.10615	4.263 338.32534	4.263 651.45519	4.263 203.25647
2.132 -24.63727	4.264 338.73602	4.264 651.71406	4.264 204.31737
2.1325 -26.22337	4.265 338.84268	4.265 651.77028	4.265 204.90435
2.133 -25.71639	4.266 338.74787	4.266 651.56668	4.266 205.01551
2.1335 -23.27259	4.267 338.66937	4.267 651.08107	4.267 204.62602
2.134 -19.29272	4.268 338.85565	4.268 650.31901	4.268 203.70468
2.1345 -14.32666	4.269 339.4849	4.269 649.3075	4.269 202.23892
2.135 -8.968605	4.27 340.58467	4.27 648.09511	4.27 200.25862
2.1355 -3.767608	4.271 342.00172	4.271 646.75899	4.271 197.84984
2.136 0.8298035	4.272 343.43426	4.272 645.4124	4.272 195.15302
2.1365 4.5010281	4.273 344.51824	4.273 644.20237	4.273 192.34462
2.137 7.041093	4.274 344.94015	4.274 643.29013	4.274 189.60584
2.1375 8.3441121	4.275 344.53874	4.275 642.81669	4.275 187.08581
2.138 8.3877455	4.276 343.3604	4.276 642.86669	4.276 184.86933
2.1385 7.2289531	4.277 341.64855	4.277 643.44819	4.277 182.95943
2.139 5.0091125	4.278 339.76997	4.278 644.50077	4.278 181.28186
2.1395 1.9581023	4.279 338.10361	4.279 645.93051	4.279 179.71293
2.14 -1.615444	4.28 336.92922	4.28 647.65686	4.28 178.12418
2.1405 -5.355314	4.281 336.35165	4.281 649.64928	4.281 176.43154
2.141 -8.907434	4.282 336.28153	4.282 651.9364	4.282 174.63405

2.1415	-11.97457	4.283	336.47305	4.283	654.58296	4.283	172.82967
2.142	-14.35733	4.284	336.60173	4.284	657.64484	4.284	171.20195
2.1425	-15.96642	4.285	336.35657	4.285	661.12199	4.285	169.97941
2.143	-16.80246	4.286	335.52165	4.286	664.92975	4.286	169.37698
2.1435	-16.91443	4.287	334.02989	4.287	668.90146	4.287	169.53476
2.144	-16.35826	4.288	331.98072	4.288	672.82286	4.288	170.47124
2.1445	-15.17836	4.289	329.62136	4.289	676.48652	4.289	172.06646
2.145	-13.42422	4.29	327.29758	4.29	679.74665	4.29	174.08267
2.1455	-11.19578	4.291	325.38496	4.291	682.55401	4.291	176.21885
2.146	-8.693506	4.292	324.21598	4.292	684.95684	4.292	178.18323
2.1465	-6.240788	4.293	324.01974	4.293	687.06582	4.293	179.76083
2.147	-4.254542	4.294	324.88876	4.294	688.99413	4.294	180.8543
2.1475	-3.161734	4.295	326.77989	4.295	690.79416	4.295	181.48705
2.148	-3.285964	4.296	329.54536	4.296	692.41527	4.296	181.77278
2.1485	-4.746083	4.297	332.98107	4.297	693.70101	4.297	181.86738
2.149	-7.408339	4.298	336.87401	4.298	694.43077	4.298	181.92273
2.1495	-10.91411	4.299	341.03363	4.299	694.39471	4.299	182.0562
2.15	-14.77552	4.3	345.2997	4.3	693.47766	4.3	182.33891
2.1505	-18.50501	4.301	349.52966	4.301	691.7234	4.301	182.7971
2.151	-21.73306	4.302	353.5759	4.302	689.35705	4.302	183.41849
2.1515	-24.27589	4.303	357.26625	4.303	686.75771	4.303	184.15796
2.152	-26.13543	4.304	360.39774	4.304	684.38988	4.304	184.94225
2.1525	-27.43942	4.305	362.74818	4.305	682.71393	4.305	185.67567
2.153	-28.34872	4.306	364.10363	4.306	682.09882	4.306	186.24827
2.1535	-28.96633	4.307	364.29607	4.307	682.75484	4.307	186.54612
2.154	-29.27897	4.308	363.2435	4.308	684.69544	4.308	186.46279
2.1545	-29.14835	4.309	360.98352	4.309	687.73027	4.309	185.91223
2.155	-28.35348	4.31	357.69089	4.31	691.48819	4.31	184.84521
2.1555	-26.66911	4.311	353.67053	4.311	695.46904	4.311	183.27051
2.156	-23.95473	4.312	349.32134	4.312	699.12106	4.312	181.27727
2.1565	-20.22455	4.313	345.07502	4.313	701.93624	4.313	179.04952
2.157	-15.67361	4.314	341.32433	4.314	703.54781	4.314	176.8605
2.1575	-10.64839	4.315	338.3618	4.315	703.80751	4.315	175.03834
2.158	-5.568499	4.316	336.3486	4.316	702.81993	4.316	173.90464
2.1585	-0.823704	4.317	335.32162	4.317	700.91979	4.317	173.69962
2.159	3.3192748	4.318	335.23106	4.318	698.59341	4.318	174.51569
2.1595	6.7679553	4.319	335.98778	4.319	696.36373	4.319	176.26087
2.16	9.596014	4.32	337.49738	4.32	694.66979	4.32	178.66417
2.1605	11.980982	4.321	339.66703	4.321	693.77384	4.321	181.32222
2.161	14.113438	4.322	342.3866	4.322	693.7196	4.322	183.775
2.1615	16.113471	4.323	345.49992	4.323	694.34875	4.323	185.59296
2.162	17.985244	4.324	348.78662	4.324	695.36614	4.324	186.45812
2.1625	19.623008	4.325	351.97007	4.325	696.43229	4.325	186.2249
2.163	20.860125	4.326	354.75404	4.326	697.258	4.326	184.95078
2.1635	21.536477	4.327	356.87751	4.327	697.67842	4.327	182.89063
2.164	21.555635	4.328	358.16913	4.328	697.6906	4.328	180.45351
2.1645	20.911424	4.329	358.58328	4.329	697.44708	4.329	178.1281
2.165	19.67841	4.33	358.20726	4.33	697.20711	4.33	176.39049
2.1655	17.974789	4.331	357.24017	4.331	697.25701	4.331	175.61422
2.166	15.913804	4.332	355.95282	4.332	697.81928	4.332	176.00359
2.1665	13.560392	4.333	354.64139	4.333	698.97576	4.333	177.56548

2.167 10.905727	4.334 353.58541	4.334 700.62864	4.334 180.12481
2.1675 7.8666974	4.335 353.01472	4.335 702.51433	4.335 183.37633
2.168 4.3116187	4.336 353.08524	4.336 704.26972	4.336 186.95622
2.1685 0.1075414	4.337 353.86174	4.337 705.53283	4.337 190.51279
2.169 -4.821449	4.338 355.30765	4.338 706.04767	4.338 193.75919
2.1695 -10.44023	4.339 357.28573	4.339 705.74046	4.339 196.49931
2.17 -16.56916	4.34 359.57472	4.34 704.744	4.34 198.62819
2.1705 -22.88296	4.341 361.90475	4.341 703.3639	4.341 200.11585
2.171 -28.945	4.342 364.0082	4.342 701.99924	4.342 200.98511
2.1715 -34.26984	4.343 365.67529	4.343 701.0421	4.343 201.29135
2.172 -38.3993	4.344 366.79981	4.344 700.7842	4.344 201.10729
2.1725 -40.97473	4.345 367.40104	4.345 701.35306	4.345 200.51252
2.173 -41.79104	4.346 367.61502	4.346 702.69047	4.346 199.58716
2.1735 -40.82396	4.347 367.65742	4.347 704.57516	4.347 198.40944
2.174 -38.22847	4.348 367.76906	4.348 706.68219	4.348 197.05731
2.1745 -34.31152	4.349 368.15906	4.349 708.66446	4.349 195.61167
2.175 -29.48506	4.35 368.95952	4.35 710.2368	4.35 194.15683
2.1755 -24.20736	4.351 370.2002	4.351 711.24167	4.351 192.77377
2.176 -18.92186	4.352 371.80552	4.352 711.67885	4.352 191.52485
2.1765 -14.004	4.353 373.61088	4.353 711.69036	4.353 190.43434
2.177 -9.72644	4.354 375.39338	4.354 711.50441	4.354 189.47381
2.1775 -6.250037	4.355 376.91063	4.355 711.35506	4.355 188.56191
2.178 -3.642255	4.356 377.94141	4.356 711.40322	4.356 187.58467
2.1785 -1.916184	4.357 378.32075	4.357 711.68526	4.357 186.43471
2.179 -1.076187	4.358 377.96122	4.358 712.10783	4.358 185.05998
2.1795 -1.152922	4.359 376.85378	4.359 712.49193	4.359 183.50571
2.18 -2.213706	4.36 375.04703	4.36 712.65208	4.36 181.9318
2.1805 -4.343494	4.361 372.61181	4.361 712.48203	4.361 180.59186
2.181 -7.603588	4.362 369.60662	4.362 712.01409	4.362 179.77162
2.1815 -11.98442	4.363 366.0623	4.363 711.42708	4.363 179.7005
2.182 -17.37093	4.364 361.99895	4.364 710.99594	4.364 180.46452
2.1825 -23.53285	4.365 357.47415	4.365 710.99888	4.365 181.955
2.183 -30.14133	4.366 352.64565	4.366 711.61562	4.366 183.87966
2.1835 -36.80277	4.367 347.81995	4.367 712.85581	4.367 185.84091
2.184 -43.09757	4.368 343.45884	4.368 714.54633	4.368 187.45918
2.1845 -48.6148	4.369 340.12886	4.369 716.38449	4.369 188.49791
2.185 -52.98222	4.37 338.39912	4.37 718.0387	4.37 188.9432
2.1855 -55.89688	4.371 338.71293	4.371 719.26027	4.371 189.00739
2.186 -57.16099	4.372 341.26964	4.372 719.96631	4.372 189.05544
2.1865 -56.72131	4.373 345.9512	4.373 720.26567	4.373 189.48288
2.187 -54.70143	4.374 352.31523	4.374 720.42187	4.374 190.59091
2.1875 -51.41178	4.375 359.65757	4.375 720.76955	4.375 192.50185
2.188 -47.32535	4.376 367.12947	4.376 721.61475	4.376 195.13927
2.1885 -43.01607	4.377 373.88169	4.377 723.1503	4.377 198.27076
2.189 -39.06967	4.378 379.20416	4.378 725.40753	4.378 201.58899
2.1895 -35.98597	4.379 382.63287	4.379 728.25088	4.379 204.79604
2.19 -34.09575	4.38 384.00558	4.38 731.40999	4.38 207.66023
2.1905 -33.51137	4.381 383.45971	4.381 734.53812	4.381 210.03083
2.191 -34.12143	4.382 381.37776	4.382 737.28421	4.382 211.81672
2.1915 -35.62775	4.383 378.29465	4.383 739.36619	4.383 212.95157
2.192 -37.61178	4.384 374.78773	4.384 740.63196	4.384 213.37242

2.1925	-39.61089	4.385	371.37215	4.385	741.09405	4.385	213.02841
2.193	-41.1843	4.386	368.42279	4.386	740.92667	4.386	211.91688
2.1935	-41.95483	4.387	366.13747	4.387	740.42266	4.387	210.1251
2.194	-41.62358	4.388	364.54624	4.388	739.92062	4.388	207.84875
2.1945	-39.96625	4.389	363.55903	4.389	739.72324	4.389	205.36809
2.195	-36.82738	4.39	363.03383	4.39	740.03154	4.39	202.98431
2.1955	-32.12805	4.391	362.84287	4.391	740.91298	4.391	200.94076
2.196	-25.89411	4.392	362.91813	4.392	742.30818	4.392	199.36372
2.1965	-18.29822	4.393	363.26698	4.393	744.06724	4.393	198.24873
2.197	-9.69727	4.394	363.96049	4.394	745.99887	4.394	197.49695
2.1975	-0.642214	4.395	365.10475	4.395	747.9158	4.395	196.98232
2.198	8.1561652	4.396	366.80664	4.396	749.66582	4.396	196.61805
2.1985	15.907419	4.397	369.14173	4.397	751.14546	4.397	196.39489
2.199	21.852843	4.398	372.12616	4.398	752.29879	4.398	196.38037
2.1995	25.382106	4.399	375.69249	4.399	753.10717	4.399	196.68743
2.2	26.127761	4.4	379.67184	4.4	753.57625	4.4	197.43176
2.2005	24.01856	4.401	383.78913	4.401	753.72639	4.401	198.69698
2.201	19.285761	4.402	387.68094	4.402	753.59046	4.402	200.51693
2.2015	12.428603	4.403	390.94112	4.403	753.21966	4.403	202.87389
2.202	4.1513961	4.404	393.1899	4.404	752.69363	4.404	205.70529
2.2025	-4.715735	4.405	394.15094	4.405	752.12766	4.405	208.91284
2.203	-13.30469	4.406	393.71493	4.406	751.66993	4.406	212.37228
2.2035	-20.80201	4.407	391.97149	4.407	751.48416	4.407	215.94604
2.204	-26.54276	4.408	389.20156	4.408	751.71923	4.408	219.5009
2.2045	-30.09775	4.409	385.8354	4.409	752.47262	4.409	222.92879
2.205	-31.34016	4.41	382.38935	4.41	753.75808	4.41	226.1649
2.2055	-30.47371	4.411	379.3948	4.411	755.48789	4.411	229.19539
2.206	-28.00672	4.412	377.3284	4.412	757.4765	4.412	232.05001
2.2065	-24.66626	4.413	376.54715	4.413	759.46669	4.413	234.77994
2.207	-21.26167	4.414	377.23221	4.414	761.17357	4.414	237.42625
2.2075	-18.52183	4.415	379.34847	4.415	762.33767	4.415	239.98785
2.208	-16.94113	4.416	382.63209	4.416	762.77683	4.416	242.39762
2.2085	-16.66974	4.417	386.61743	4.417	762.42714	4.417	244.514
2.209	-17.47577	4.418	390.70776	4.418	761.36503	4.418	246.13287
2.2095	-18.79107	4.419	394.28131	4.419	759.80461	4.419	247.0202
2.21	-19.83377	4.42	396.81108	4.42	758.06685	4.42	246.96172
2.2105	-19.78315	4.421	397.96998	4.421	756.52178	4.421	245.81947
2.211	-17.97036	4.422	397.6944	4.422	755.51176	4.422	243.58103
2.2115	-14.04303	4.423	396.18983	4.423	755.27141	4.423	240.38599
2.212	-8.066362	4.424	393.87755	4.424	755.86589	4.424	236.51895
2.2125	-0.535287	4.425	391.29717	4.425	757.1678	4.425	232.36715
2.213	7.7080998	4.426	388.98994	4.426	758.88475	4.426	228.35143
2.2135	15.635746	4.427	387.39078	4.427	760.63439	4.427	224.84812
2.214	22.237941	4.428	386.75224	4.428	762.04853	4.428	222.12189
2.2145	26.723826	4.429	387.11372	4.429	762.87741	4.429	220.28661
2.215	28.671556	4.43	388.31752	4.43	763.06435	4.43	219.30215
2.2155	28.094114	4.431	390.06392	4.431	762.76886	4.431	219.00392
2.216	25.408102	4.432	391.99066	4.432	762.33085	4.432	219.15316
2.2165	21.316923	4.433	393.75898	4.433	762.18393	4.433	219.49079
2.217	16.639951	4.434	395.12852	4.434	762.7397	4.434	219.78034
2.2175	12.130426	4.435	396.00541	4.435	764.27216	4.435	219.83219

2.218 8.3248894	4.436 396.4538	4.436 766.83275	4.436 219.51075
2.2185 5.4568375	4.437 396.66861	4.437 770.21981	4.437 218.73308
2.219 3.4501039	4.438 396.91683	4.438 774.0125	4.438 217.46878
2.2195 1.9872781	4.439 397.46266	4.439 777.6626	4.439 215.74613
2.22 0.6301022	4.44 398.49606	4.44 780.62029	4.44 213.66167
2.2205 -1.043223	4.441 400.08251	4.441 782.46	4.441 211.38341
2.221 -3.320945	4.442 402.1449	4.442 782.97177	4.442 209.13704
2.2215 -6.289235	4.443 404.47838	4.443 782.19401	4.443 207.17011
2.222 -9.823854	4.444 406.79028	4.444 780.3814	4.444 205.69995
2.2225 -13.63488	4.445 408.75225	4.445 777.92126	4.445 204.86112
2.223 -17.34351	4.446 410.05208	4.446 775.22672	4.446 204.67255
2.2235 -20.56523	4.447 410.43741	4.447 772.64012	4.447 205.03964
2.224 -22.97847	4.448 409.74801	4.448 770.37423	4.448 205.79399
2.2245 -24.36744	4.449 407.93722	4.449 768.50414	4.449 206.75755
2.225 -24.63865	4.45 405.083	4.45 767.00402	4.45 207.80711
2.2255 -23.8164	4.451 401.38775	4.451 765.80691	4.451 208.91367
2.226 -22.02527	4.452 397.1649	4.452 764.85988	4.452 210.14135
2.2265 -19.46639	4.453 392.81001	4.453 764.15162	4.453 211.60735
2.227 -16.39225	4.454 388.757	4.454 763.7047	4.454 213.42069
2.2275 -13.08309	4.455 385.4229	4.455 763.54125	4.455 215.62491
2.228 -9.825455	4.456 383.14886	4.456 763.643	4.456 218.16676
2.2285 -6.892216	4.457 382.14733	4.457 763.9275	4.457 220.90047
2.229 -4.521784	4.458 382.46652	4.458 764.25466	4.458 223.62337
2.2295 -2.894853	4.459 383.98178	4.459 764.46388	4.459 226.12788
2.23 -2.108996	4.46 386.41795	4.46 764.43027	4.46 228.2526
2.2305 -2.154536	4.461 389.39992	4.461 764.12036	4.461 229.91821
2.231 -2.897893	4.462 392.52019	4.462 763.62741	4.462 231.14112
2.2315 -4.079552	4.463 395.40774	4.463 763.17102	4.463 232.0244
2.232 -5.332633	4.464 397.78317	4.464 763.05565	4.464 232.73018
2.2325 -6.224761	4.465 399.49081	4.465 763.59477	4.465 233.44059
2.233 -6.321221	4.466 400.50696	4.466 765.01953	4.466 234.31588
2.2335 -5.261745	4.467 400.92899	4.467 767.39823	4.467 235.45892
2.234 -2.83757	4.468 400.95127	4.468 770.59271	4.468 236.89492
2.2345 0.9488279	4.469 400.8308	4.469 774.26771	4.469 238.57217
2.235 5.8592417	4.47 400.84249	4.47 777.95305	4.47 240.38389
2.2355 11.442966	4.471 401.22527	4.471 781.14134	4.471 242.20425
2.236 17.108708	4.472 402.12597	4.472 783.39435	4.472 243.92555
2.2365 22.231654	4.473 403.55486	4.473 784.43019	4.473 245.48278
2.237 26.269967	4.474 405.36921	4.474 784.17314	4.474 246.85635
2.2375 28.860639	4.475 407.2955	4.475 782.76023	4.475 248.05388
2.238 29.870614	4.476 408.98886	4.476 780.5104	4.476 249.08105
2.2385 29.393455	4.477 410.11465	4.477 777.86779	4.477 249.9172
2.239 27.698987	4.478 410.42914	4.478 775.33148	4.478 250.50828
2.2395 25.156625	4.479 409.83661	4.479 773.38221	4.479 250.78079
2.24 22.157986	4.48 408.40809	4.48 772.41361	4.48 250.66885
2.2405 19.06009	4.481 406.35854	4.481 772.67512	4.481 250.13835
2.241 16.159419	4.482 403.99031	4.482 774.23311	4.482 249.19316
2.2415 13.694065	4.483 401.61843	4.483 776.95711	4.483 247.85755
2.242 11.86088	4.484 399.49788	4.484 780.53672	4.484 246.14378
2.2425 10.83052	4.485 397.77261	4.485 784.53075	4.485 244.02474
2.243 10.746615	4.486 396.46112	4.486 788.44436	4.486 241.43282

2.2435	11.704151	4.487	395.48294	4.487	791.82171	4.487	238.29443
2.244	13.712731	4.488	394.71633	4.488	794.33572	4.488	234.59133
2.2445	16.658164	4.489	394.06533	4.489	795.85308	4.489	230.42364
2.245	20.277911	4.49	393.50911	4.49	796.45719	4.49	226.04497
2.2455	24.162207	4.491	393.11344	4.491	796.42055	4.491	221.84924
2.246	27.785411	4.492	392.99959	4.492	796.13192	4.492	218.3078
2.2465	30.564733	4.493	393.28563	4.493	795.99564	4.493	215.87397
2.247	31.938349	4.494	394.02758	4.494	796.32855	4.494	214.88301
2.2475	31.452455	4.495	395.18787	4.495	797.28073	4.495	215.47502
2.248	28.845544	4.496	396.64611	4.496	798.80126	4.496	217.55921
2.2485	24.116471	4.497	398.24729	4.497	800.65898	4.497	220.8254
2.249	17.56053	4.498	399.86604	4.498	802.5148	4.498	224.79697
2.2495	9.7572649	4.499	401.4588	4.499	804.02715	4.499	228.91241
2.25	1.4988942	4.5	403.08157	4.5	804.96103	4.5	232.61893
2.2505	-6.338463	4.501	404.86562	4.501	805.26605	4.501	235.46213
2.251	-12.95915	4.502	406.96087	4.502	805.09551	4.502	237.15794
2.2515	-17.808	4.503	409.46905	4.503	804.75656	4.503	237.63638
2.252	-20.6787	4.504	412.39194	4.504	804.60623	4.504	237.05057
2.2525	-21.73357	4.505	415.61393	4.505	804.93104	4.505	235.74843
2.253	-21.42498	4.506	418.92453	4.506	805.85683	4.506	234.20889
2.2535	-20.34228	4.507	422.07208	4.507	807.32531	4.507	232.95001
2.254	-19.03438	4.508	424.82861	4.508	809.14559	4.508	232.42304
2.2545	-17.86436	4.509	427.04262	4.509	811.09583	4.509	232.91237
2.255	-16.93754	4.51	428.6619	4.51	813.0269	4.51	234.46442
2.2555	-16.11488	4.511	429.72022	4.511	814.91987	4.511	236.86607
2.256	-15.09435	4.512	430.29575	4.512	816.87221	4.512	239.68412
2.2565	-13.52486	4.513	430.45929	4.513	819.02267	4.513	242.36274
2.257	-11.11542	4.514	430.2345	4.514	821.45464	4.514	244.35898
2.2575	-7.713206	4.515	429.58654	4.515	824.12588	4.515	245.28361
2.258	-3.339027	4.516	428.44482	4.516	826.85713	4.516	245.00948
2.2585	1.8177561	4.517	426.75177	4.517	829.38156	4.517	243.7162
2.259	7.4354155	4.518	424.51945	4.518	831.42831	4.518	241.85674
2.2595	13.113911	4.519	421.87304	4.519	832.80065	4.519	240.05389
2.26	18.432764	4.52	419.06409	4.52	833.4169	4.52	238.95479
2.2605	22.999874	4.521	416.44638	4.521	833.30349	4.521	239.08289
2.261	26.482598	4.522	414.41795	4.522	832.55206	4.522	240.72504
2.2615	28.619794	4.523	413.34254	4.523	831.2661	4.523	243.87866
2.262	29.221882	4.524	413.46893	4.524	829.5231	4.524	248.26473
2.2625	28.171121	4.525	414.86855	4.525	827.36741	4.525	253.39561
2.263	25.432675	4.526	417.40819	4.526	824.83439	4.526	258.67602
2.2635	21.078682	4.527	420.76754	4.527	821.99286	4.527	263.51327
2.264	15.316578	4.528	424.50015	4.528	818.98557	4.528	267.41582
2.2645	8.5056303	4.529	428.12423	4.529	816.04764	4.529	270.06441
2.265	1.1464045	4.53	431.22	4.53	813.49073	4.53	271.34501
2.2655	-6.163258	4.531	433.50632	4.531	811.65349	4.531	271.33849
2.266	-12.79958	4.532	434.87527	4.532	810.83146	4.532	270.26959
2.2665	-18.19511	4.533	435.37574	4.533	811.20843	4.533	268.42851
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2.2675	-23.69145	4.535	434.38231	4.535	815.49984	4.535	263.4418
2.268	-23.46999	4.536	433.18152	4.536	819.00096	4.536	260.59111
2.2685	-21.36865	4.537	431.60077	4.537	822.9629	4.537	257.57572

2.269 -17.65828	4.538 429.62333	4.538 827.02449	4.538 254.44353
2.2695 -12.71173	4.539 427.21262	4.539 830.87281	4.539 251.32145
2.27 -6.948924	4.54 424.3684	4.54 834.27909	4.54 248.45469
2.2705 -0.780748	4.541 421.17039	4.541 837.10911	4.541 246.19169
2.271 5.4409935	4.542 417.79446	4.542 839.31362	4.542 244.91504
2.2715 11.458357	4.543 414.49927	4.543 840.90895	4.543 244.94207
2.272 17.117916	4.544 411.59182	4.544 841.95735	4.544 246.43142
2.2725 22.353988	4.545 409.38358	4.545 842.55193	4.545 249.32945
2.273 27.150634	4.546 408.14662	4.546 842.8052	4.546 253.37394
2.2735 31.497465	4.547 408.07467	4.547 842.83661	4.547 258.15187
2.274 35.356653	4.548 409.25241	4.548 842.75498	4.548 263.19049
2.2745 38.652083	4.549 411.63652	4.549 842.63582	4.549 268.05356
2.275 41.27942	4.55 415.05404	4.55 842.49911	4.55 272.4169
2.2755 43.125034	4.551 419.22222	4.551 842.29689	4.551 276.10651
2.276 44.078809	4.552 423.79022	4.552 841.92041	4.552 279.09353
2.2765 44.032598	4.553 428.39651	4.553 841.23091	4.553 281.45063
2.277 42.868231	4.554 432.73016	4.554 840.10844	4.554 283.28316
2.2775 40.448868	4.555 436.58151	4.555 838.50334	4.555 284.65511
2.278 36.628898	4.556 439.86941	4.556 836.46956	4.556 285.53288
2.2785 31.288993	4.557 442.63738	4.557 834.16378	4.557 285.76772
2.279 24.388899	4.558 445.01869	4.558 831.80709	4.558 285.12806
2.2795 16.018625	4.559 447.17921	4.559 829.62368	4.559 283.37671
2.28 6.4256147	4.56 449.25384	4.56 827.78221	4.56 280.37151
2.2805 -3.99645	4.561 451.296	4.561 826.36498	4.561 276.15577
2.281 -14.75599	4.562 453.25754	4.562 825.37664	4.562 271.00592
2.2815 -25.33231	4.563 455.00786	4.563 824.78385	4.563 265.41556
2.282 -35.24044	4.564 456.38813	4.564 824.56183	4.564 260.01649
2.2825 -44.07206	4.565 457.28302	4.565 824.72041	4.565 255.45785
2.283 -51.50587	4.566 457.68476	4.566 825.2937	4.566 252.27729
2.2835 -57.29664	4.567 457.72542	4.567 826.29711	4.567 250.79925
2.284 -61.26068	4.568 457.66384	4.568 827.67394	4.568 251.0848
2.2845 -63.27306	4.569 457.82951	4.569 829.26148	4.569 252.94056
2.285 -63.28007	4.57 458.5398	4.57 830.79958	4.57 255.97715
2.2855 -61.31685	4.571 460.01496	4.571 831.98654	4.571 259.69595
2.286 -57.51451	4.572 462.31437	4.572 832.56559	4.572 263.57923
2.2865 -52.08593	4.573 465.30959	4.573 832.41031	4.573 267.16409
2.287 -45.29306	4.574 468.6994	4.574 831.57597	4.574 270.09015
2.2875 -37.41105	4.575 472.06235	4.575 830.29652	4.575 272.12176
2.288 -28.70777	4.576 474.93617	4.576 828.92819	4.576 273.15155
2.2885 -19.44865	4.577 476.90922	4.577 827.86132	4.577 273.19337
2.289 -9.920147	4.578 477.70734	4.578 827.43128	4.578 272.36848
2.2895 -0.451874	4.579 477.25839	4.579 827.85591	4.579 270.88456
2.29 8.5854382	4.58 475.71856	4.58 829.21164	4.58 269.00521
2.2905 16.817535	4.581 473.44982	4.581 831.44382	4.581 267.00951
2.291 23.931475	4.582 470.94821	4.582 834.39571	4.582 265.14625
2.2915 29.741739	4.583 468.73593	4.583 837.84015	4.583 263.59179
2.292 34.225818	4.584 467.24252	4.584 841.50546	4.584 262.42138
2.2925 37.507659	4.585 466.7066	4.585 845.09708	4.585 261.60126
2.293 39.789405	4.586 467.12614	4.586 848.32155	4.586 261.00296
2.2935 41.255699	4.587 468.2717	4.587 850.91856	4.587 260.4362
2.294 41.989061	4.588 469.75835	4.588 852.69999	4.588 259.69334

2.2945 41.932507	4.589 471.15386	4.589 853.58733	4.589 258.59691
2.295 40.917304	4.59 472.09071	4.59 853.63471	4.59 257.04233
2.2955 38.747475	4.591 472.35006	4.591 853.02592	4.591 255.02801
2.296 35.309785	4.592 471.89711	4.592 852.04105	4.592 252.66634
2.2965 30.667847	4.593 470.86427	4.593 850.99764	4.593 250.17146
2.297 25.105262	4.594 469.49433	4.594 850.18092	4.594 247.82427
2.2975 19.101555	4.595 468.0665	4.595 849.78269	4.595 245.92129
2.298 13.247728	4.596 466.82906	4.596 849.86691	4.596 244.71924
2.2985 8.1265424	4.597 465.95658	4.597 850.37254	4.597 244.38897
2.299 4.1908951	4.598 465.53821	4.598 851.1515	4.598 244.98962
2.2995 1.6714411	4.599 465.59286	4.599 852.02827	4.599 246.46706
2.3 0.5351589	4.6 466.09933	4.6 852.86048	4.6 248.67327
2.3005 0.5036487	4.601 467.02637	4.601 853.58046	4.601 251.39745
2.301 1.1263135	4.602 468.35009	4.602 854.20528	4.602 254.39892
2.3015 1.8907608	4.603 470.05168	4.603 854.81381	4.603 257.43478
2.302 2.3428648	4.604 472.09637	4.604 855.49999	4.604 260.28066
2.3025 2.1851481	4.605 474.40256	4.605 856.3181	4.605 262.74647
2.303 1.3274405	4.606 476.81567	4.606 857.23782	4.606 264.68959
2.3035 -0.121856	4.607 479.10277	4.607 858.12408	4.607 266.02475
2.304 -1.916625	4.608 480.97824	4.608 858.75	4.608 266.72674
2.3045 -3.762791	4.609 482.15988	4.609 858.84249	4.609 266.82191
2.305 -5.407375	4.61 482.44088	4.61 858.15042	4.61 266.36847
2.3055 -6.702262	4.611 481.75354	4.611 856.51786	4.611 265.43332
2.306 -7.630521	4.612 480.19989	4.612 853.94204	4.612 264.07728
2.3065 -8.296052	4.613 478.03487	4.613 850.59938	4.613 262.35958
2.307 -8.885251	4.614 475.60559	4.614 846.83174	4.614 260.36326
2.3075 -9.611106	4.615 473.26735	4.615 843.09635	4.615 258.23089
2.308 -10.64886	4.616 471.30602	4.616 839.89164	4.616 256.19083
2.3085 -12.07217	4.617 469.89239	4.617 837.67591	4.617 254.55441
2.309 -13.80122	4.618 469.07978	4.618 836.79499	4.618 253.67443
2.3095 -15.57792	4.619 468.83785	4.619 837.43189	4.619 253.87129
2.31 -16.98251	4.62 469.10176	4.62 839.58687	4.62 255.34799
2.3105 -17.4986	4.621 469.81237	4.621 843.09212	4.621 258.1209
2.311 -16.61886	4.622 470.93012	4.622 847.65887	4.622 261.98912
2.3115 -13.96775	4.623 472.41929	4.623 852.94699	4.623 266.55189
2.312 -9.40658	4.624 474.21257	4.624 858.63847	4.624 271.26965
2.3125 -3.088054	4.625 476.17351	4.625 864.49175	4.625 275.55332
2.313 4.5587065	4.626 478.07454	4.626 870.35752	4.626 278.86284
2.3135 12.9088	4.627 479.60164	4.627 876.15016	4.627 280.79703
2.314 21.261991	4.628 480.38874	4.628 881.78802	4.628 281.1596
2.3145 28.964942	4.629 480.07747	4.629 887.13176	4.629 279.98965
2.315 35.500086	4.63 478.3925	4.63 891.95414	4.63 277.54926
2.3155 40.522331	4.631 475.21804	4.631 895.96245	4.631 274.26882
2.316 43.846669	4.632 470.65822	4.632 898.87071	4.632 270.66121
2.3165 45.407016	4.633 465.06267	4.633 900.49347	4.633 267.22629
2.317 45.211989	4.634 459.00315	4.634 900.81967	4.634 264.37009
2.3175 43.316281	4.635 453.19782	4.635 900.03147	4.635 262.35728
2.318 39.812487	4.636 448.39385	4.636 898.45656	4.636 261.30174
2.3185 34.836161	4.637 445.23275	4.637 896.47248	4.637 261.18654
2.319 28.572296	4.638 444.12878	4.638 894.40243	4.638 261.89752
2.3195 21.254799	4.639 445.18841	4.639 892.44481	4.639 263.25648

2.32	13.157686	4.64	448.18772	4.64	890.66088	4.64	265.04816
2.3205	4.5821887	4.641	452.61082	4.641	889.01797	4.641	267.04289
2.321	-4.155313	4.642	457.74004	4.642	887.46106	4.642	269.02011
2.3215	-12.73288	4.643	462.7794	4.643	885.97619	4.643	270.79605
2.322	-20.83234	4.644	466.98898	4.644	884.61655	4.644	272.25323
2.3225	-28.15186	4.645	469.80666	4.645	883.4823	4.645	273.36558
2.323	-34.42355	4.646	470.93573	4.646	882.66696	4.646	274.21112
2.3235	-39.43394	4.647	470.38232	4.647	882.19685	4.647	274.96583
2.324	-43.04317	4.648	468.43493	4.648	881.99105	4.648	275.87604
2.3245	-45.19876	4.649	465.59023	4.649	881.85908	4.649	277.21156
2.325	-45.94197	4.65	462.44174	4.65	881.53807	4.65	279.20672
2.3255	-45.40733	4.651	459.55805	4.651	880.75795	4.651	282.00036
2.326	-43.81595	4.652	457.38045	4.652	879.316	4.652	285.58817
2.3265	-41.46168	4.653	456.16358	4.653	877.14141	4.653	289.79956
2.327	-38.68795	4.654	455.96851	4.654	874.33405	4.654	294.30744
2.3275	-35.8533	4.655	456.69996	4.655	871.16736	4.655	298.67213
2.328	-33.28809	4.656	458.16618	4.656	868.05141	4.656	302.41319
2.3285	-31.24995	4.657	460.13712	4.657	865.46081	4.657	305.09574
2.329	-29.89002	4.658	462.38396	4.658	863.84086	4.658	306.41412
2.3295	-29.24123	4.659	464.69756	4.659	863.51356	4.659	306.25516
2.33	-29.23324	4.66	466.89411	4.66	864.60841	4.66	304.72701
2.3305	-29.72859	4.661	468.82052	4.661	867.03748	4.661	302.14595
2.331	-30.56492	4.662	470.36621	4.662	870.52218	4.662	298.9822
2.3315	-31.58543	4.663	471.47959	4.663	874.66276	4.663	295.77492
2.332	-32.64581	4.664	472.18097	4.664	879.02895	4.664	293.03401
2.3325	-33.59921	4.665	472.56384	4.665	883.24469	4.665	291.15033
2.333	-34.27452	4.666	472.78084	4.666	887.04489	4.666	290.33435
2.3335	-34.47003	4.667	473.01596	4.667	890.29301	4.667	290.59637
2.334	-33.9787	4.668	473.44767	4.668	892.96162	4.668	291.77064
2.3345	-32.64473	4.669	474.20826	4.669	895.08849	4.669	293.57383
2.335	-30.43131	4.67	475.3462	4.67	896.7259	4.67	295.68024
2.3355	-27.46762	4.671	476.80128	4.671	897.90045	4.671	297.79282
2.336	-24.04571	4.672	478.40415	4.672	898.59554	4.672	299.69272
2.3365	-20.55652	4.673	479.90915	4.673	898.76044	4.673	301.25828
2.337	-17.37987	4.674	481.05874	4.674	898.34114	4.674	302.45427
2.3375	-14.76474	4.675	481.66387	4.675	897.32043	4.675	303.30011
2.338	-12.74319	4.676	481.67285	4.676	895.7516	4.676	303.83009
2.3385	-11.11034	4.677	481.20135	4.677	893.77211	4.677	304.05871
2.339	-9.479128	4.678	480.50845	4.678	891.59154	4.678	303.96128
2.3395	-7.391331	4.679	479.92391	4.679	889.4573	4.679	303.47574
2.34	-4.448018	4.68	479.75075	4.68	887.60911	4.68	302.52674
2.3405	-0.419018	4.681	480.1752	4.681	886.23537	4.681	301.06675
2.341	4.6976334	4.682	481.21241	4.682	885.44175	4.682	299.12293
2.3415	10.67556	4.683	482.70159	4.683	885.2377	4.683	296.83329
2.342	17.109745	4.684	484.34893	4.684	885.54239	4.684	294.45515
2.3425	23.496059	4.685	485.80314	4.685	886.20972	4.685	292.33505
2.343	29.319862	4.686	486.74347	4.686	887.06901	4.686	290.84109
2.3435	34.138404	4.687	486.95924	4.687	887.97401	4.687	290.27313
2.344	37.647583	4.688	486.40414	4.688	888.84739	4.688	290.77653
2.3445	39.726142	4.689	485.21434	4.689	889.70512	4.689	292.28701
2.345	40.450341	4.69	483.68675	4.69	890.64895	4.69	294.52644

2.3455	40.07335	4.691	482.22228	4.691	891.82556	4.691	297.05412
2.346	38.969214	4.692	481.24672	4.692	893.36426	4.692	299.36165
2.3465	37.550907	4.693	481.12729	4.693	895.31466	4.693	300.98698
2.347	36.181436	4.694	482.10301	4.694	897.6065	4.694	301.61839
2.3475	35.100858	4.695	484.24294	4.695	900.04603	4.695	301.16252
2.348	34.38765	4.696	487.43872	4.696	902.35032	4.696	299.76018
2.3485	33.961617	4.697	491.4301	4.697	904.20907	4.697	297.74615
2.349	33.622423	4.698	495.85557	4.698	905.35609	4.698	295.56234
2.3495	33.108448	4.699	500.31629	4.699	905.63125	4.699	293.6445
2.35	32.158291	4.7	504.4397	4.7	905.01709	4.7	292.31004
2.3505	30.561712	4.701	507.9298	4.701	903.64063	4.701	291.67583
2.351	28.194438	4.702	510.59498	4.702	901.74004	4.702	291.62884
2.3515	25.037712	4.703	512.35056	4.703	899.60482	4.703	291.85937
2.352	21.185538	4.704	513.20136	4.704	897.50675	4.704	291.94893
2.3525	16.840578	4.705	513.21503	4.705	895.64227	4.705	291.48856
2.353	12.296594	4.706	512.49842	4.706	894.10446	4.706	290.19385
2.3535	7.9051179	4.707	511.18498	4.707	892.89325	4.707	287.98478
2.354	4.0280725	4.708	509.43376	4.708	891.95869	4.708	285.01036
2.3545	0.9843807	4.709	507.43402	4.709	891.25975	4.709	281.61621
2.355	-0.997293	4.71	505.40605	4.71	890.81348	4.71	278.27023
2.3555	-1.808904	4.711	503.59053	4.711	890.71186	4.711	275.47073
2.356	-1.472277	4.712	502.22423	4.712	891.09503	4.712	273.66142
2.3565	-0.130746	4.713	501.50578	4.713	892.08802	4.713	273.16904
2.357	1.969457	4.714	501.55956	4.714	893.72529	4.714	274.16831
2.3575	4.5026291	4.715	502.40748	4.715	895.89678	4.715	276.6707
2.358	7.0920713	4.716	503.95629	4.716	898.34384	4.716	280.53053
2.3585	9.3479405	4.717	506.00438	4.717	900.714	4.717	285.46429
2.359	10.917184	4.718	508.26679	4.718	902.65845	4.718	291.08217
2.3595	11.540576	4.719	510.41324	4.719	903.93536	4.719	296.93183
2.36	11.102525	4.72	512.11174	4.72	904.47883	4.72	302.55197
2.3605	9.654716	4.721	513.07034	4.721	904.40705	4.721	307.52955
2.361	7.3995585	4.722	513.07238	4.722	903.9701	4.722	311.55117
2.3615	4.633139	4.723	512.00288	4.723	903.46222	4.723	314.44017
2.362	1.6642496	4.724	509.86609	4.724	903.13593	4.724	316.1736
2.3625	-1.262595	4.725	506.79379	4.725	903.14905	4.725	316.87701
2.363	-4.012744	4.726	503.04278	4.726	903.55677	4.726	316.79821
2.3635	-6.561111	4.727	498.97818	4.727	904.33972	4.727	316.26248
2.364	-8.95089	4.728	495.03897	4.728	905.44505	4.728	315.61392
2.3645	-11.23277	4.729	491.68526	4.729	906.81764	4.729	315.15053
2.365	-13.41239	4.73	489.33197	4.73	908.40896	4.73	315.06516
2.3655	-15.42767	4.731	488.2801	4.731	910.1653	4.731	315.40685
2.366	-17.16334	4.732	488.66128	4.732	912.00694	4.732	316.07557
2.3665	-18.49418	4.733	490.41109	4.733	913.81246	4.733	316.8551
2.367	-19.33811	4.734	493.28062	4.734	915.41803	4.734	317.47632
2.3675	-19.69737	4.735	496.88569	4.735	916.63473	4.735	317.6912
2.368	-19.67169	4.736	500.78151	4.736	917.28168	4.736	317.3333
2.3685	-19.43758	4.737	504.54364	4.737	917.22892	4.737	316.34647
2.369	-19.2009	4.738	507.83518	4.738	916.44146	4.738	314.77756
2.3695	-19.13952	4.739	510.4468	4.739	915.01272	4.739	312.74418
2.37	-19.35738	4.74	512.30608	4.74	913.17393	4.74	310.39636
2.3705	-19.86592	4.741	513.46234	4.741	911.26781	4.741	307.88847

2.371	-20.5974	4.742	514.05753	4.742	909.68376	4.742	305.36687
2.3715	-21.44055	4.743	514.29251	4.743	908.7656	4.743	302.96781
2.372	-22.28101	4.744	514.39336	4.744	908.71704	4.744	300.81524
2.3725	-23.02984	4.745	514.57799	4.745	909.53747	4.745	299.01188
2.373	-23.63353	4.746	515.02263	4.746	911.01477	4.746	297.62492
2.3735	-24.07059	4.747	515.83115	4.747	912.78456	4.747	296.6747
2.374	-24.34676	4.748	517.01385	4.748	914.44067	4.748	296.13495
2.3745	-24.49841	4.749	518.48437	4.749	915.66119	4.749	295.94809
2.375	-24.60422	4.75	520.0796	4.75	916.30657	4.75	296.05119
2.3755	-24.79538	4.751	521.6005	4.751	916.45496	4.751	296.40287
2.376	-25.25079	4.752	522.86398	4.752	916.36326	4.752	297.00108
2.3765	-26.16834	4.753	523.75095	4.753	916.36932	4.753	297.88535
2.377	-27.71567	4.754	524.23608	4.754	916.7726	4.754	299.12234
2.3775	-29.975	4.755	524.39013	4.755	917.7371	4.755	300.77785
2.378	-32.90266	4.756	524.35397	4.756	919.25008	4.756	302.88195
2.3785	-36.32007	4.757	524.29378	4.757	921.14786	4.757	305.3959
2.379	-39.94107	4.758	524.35284	4.758	923.19341	4.758	308.19093
2.3795	-43.42665	4.759	524.6172	4.759	925.17201	4.759	311.04874
2.38	-46.44837	4.76	525.10568	4.76	926.96568	4.76	313.68914
2.3805	-48.74147	4.761	525.7834	4.761	928.578	4.761	315.82324
2.381	-50.13603	4.762	526.58689	4.762	930.10263	4.762	317.22106
2.3815	-50.56606	4.763	527.44513	4.763	931.65222	4.763	317.7762
2.382	-50.06472	4.764	528.28683	4.764	933.28032	4.764	317.5488
2.3825	-48.7548	4.765	529.03684	4.765	934.93059	4.765	316.77397
2.383	-46.83697	4.766	529.61436	4.766	936.43513	4.766	315.83192
2.3835	-44.57067	4.767	529.94618	4.767	937.56305	4.767	315.18589
2.384	-42.23832	4.768	529.99682	4.768	938.10015	4.768	315.29963
2.3845	-40.08952	4.769	529.80292	4.769	937.92901	4.769	316.5486
2.385	-38.27413	4.77	529.49034	4.77	937.08007	4.77	319.13863
2.3855	-36.78629	4.771	529.25776	4.771	935.73635	4.771	323.04592
2.386	-35.44575	4.772	529.32645	4.772	934.19264	4.772	327.99202
2.3865	-33.93435	4.773	529.87368	4.773	932.78596	4.773	333.46542
2.387	-31.88516	4.774	530.97628	4.774	931.82224	4.774	338.79448
2.3875	-28.99906	4.775	532.58529	4.775	931.52159	4.775	343.26467
2.388	-25.14966	4.776	534.53778	4.776	931.99345	4.776	346.2585
2.3885	-20.43905	4.777	536.59603	4.777	933.23916	4.777	347.38576
2.389	-15.18517	4.778	538.49644	4.778	935.16949	4.778	346.56929
2.3895	-9.847435	4.779	539.99298	4.779	937.62381	4.779	344.06067
2.39	-4.919634	4.78	540.88916	4.78	940.38466	4.78	340.37891
2.3905	-0.828378	4.781	541.06019	4.781	943.1915	4.781	336.18727
2.391	2.1315944	4.782	540.46928	4.782	945.76393	4.782	332.14124
2.3915	3.812616	4.783	539.1784	4.783	947.84189	4.783	328.74796
2.392	4.1887739	4.784	537.34857	4.784	949.24017	4.784	326.27118
2.3925	3.3143923	4.785	535.22352	4.785	949.90163	4.785	324.70077
2.393	1.2938252	4.786	533.09501	4.786	949.92709	4.786	323.78668
2.3935	-1.719495	4.787	531.25617	4.787	949.56464	4.787	323.12288
2.394	-5.494717	4.788	529.95603	4.788	949.1557	4.788	322.25831
2.3945	-9.684374	4.789	529.36862	4.789	949.05292	4.789	320.81118
2.395	-13.80351	4.79	529.58392	4.79	949.53692	4.79	318.56449
2.3955	-17.25386	4.791	530.61757	4.791	950.75798	4.791	315.52486
2.396	-19.4042	4.792	532.42837	4.792	952.7174	4.792	311.93172

2.3965	-19.715	4.793	534.93014	4.793	955.28688	4.793	308.21243
2.397	-17.87452	4.794	537.99022	4.794	958.25181	4.794	304.89138
2.3975	-13.9037	4.795	541.41627	4.795	961.36103	4.795	302.47384
2.398	-8.191617	4.796	544.94217	4.796	964.36992	4.796	301.33467
2.3985	-1.442168	4.797	548.22811	4.797	967.07097	4.797	301.64121
2.399	5.4627326	4.798	550.88615	4.798	969.31138	4.798	303.32832
2.3995	11.653462	4.799	552.53353	4.799	970.9985	4.799	306.12545
2.4	16.469863	4.8	552.8638	4.8	972.09385	4.8	309.61946
2.4005	19.613588	4.801	551.71662	4.801	972.59744	4.801	313.32924
2.401	21.212436	4.802	549.12484	4.802	972.52812	4.802	316.77319
2.4015	21.774685	4.803	545.32307	4.803	971.90853	4.803	319.52279
2.402	22.041161	4.804	540.71461	4.804	970.76298	4.804	321.24675
2.4025	22.773297	4.805	535.80587	4.805	969.13058	4.805	321.75305
2.403	24.53676	4.806	531.12632	4.806	967.08669	4.806	321.02864
2.4035	27.543692	4.807	527.1516	4.807	964.75976	4.807	319.26453
2.404	31.599089	4.808	524.24216	4.808	962.33074	4.808	316.84762
2.4045	36.163404	4.809	522.60179	4.809	960.01066	4.809	314.30623
2.405	40.506054	4.81	522.25688	4.81	958.00353	4.81	312.21299
2.4055	43.897177	4.811	523.05742	4.811	956.46941	4.811	311.06866
2.406	45.777882	4.812	524.70341	4.812	955.50295	4.812	311.20221
2.4065	45.863907	4.813	526.79942	4.813	955.13474	4.813	312.71879
2.407	44.16673	4.814	528.93348	4.814	955.35127	4.814	315.50944
2.4075	40.946646	4.815	530.7658	4.815	956.12097	4.815	319.31219
2.408	36.631301	4.816	532.10331	4.816	957.4121	4.816	323.7957
2.4085	31.733954	4.817	532.93531	4.817	959.19428	4.817	328.63146
2.409	26.790895	4.818	533.41532	4.818	961.42477	4.818	333.53103
2.4095	22.317197	4.819	533.79263	4.819	964.02835	4.819	338.24471
2.41	18.766824	4.82	534.31657	4.82	966.8823	4.82	342.53737
2.4105	16.484625	4.821	535.14735	4.821	969.81536	4.821	346.16748
2.411	15.651854	4.822	536.30547	4.822	972.62358	4.822	348.891
2.4115	16.243556	4.823	537.67567	4.823	975.10041	4.823	350.49734
2.412	18.022949	4.824	539.05955	4.824	977.07428	4.824	350.8667
2.4125	20.588712	4.825	540.25228	4.825	978.44501	4.825	350.02555
2.413	23.469273	4.826	541.11107	4.826	979.20951	4.826	348.17632
2.4135	26.235737	4.827	541.59073	4.827	979.46796	4.827	345.68606
2.414	28.594503	4.828	541.73892	4.828	979.40526	4.828	343.03379
2.4145	30.428223	4.829	541.66274	4.829	979.24921	4.829	340.72877
2.415	31.775656	4.83	541.48843	4.83	979.21619	4.83	339.21962
2.4155	32.765968	4.831	541.33318	4.831	979.46189	4.831	338.81526
2.416	33.539004	4.832	541.29452	4.832	980.05509	4.832	339.63481
2.4165	34.183437	4.833	541.448	4.833	980.984	4.833	341.5972
2.417	34.711487	4.834	541.838	4.834	982.18979	4.834	344.45258
2.4175	35.070252	4.835	542.45312	4.835	983.6085	4.835	347.84791
2.418	35.175186	4.836	543.19393	4.836	985.19778	4.836	351.40951
2.4185	34.946368	4.837	543.85429	4.837	986.93387	4.837	354.82048
2.419	34.332715	4.838	544.13924	4.838	988.78116	4.838	357.87239
2.4195	33.31859	4.839	543.72819	4.839	990.65442	4.839	360.48039
2.42	31.915914	4.84	542.36927	4.84	992.39988	4.84	362.66361
2.4205	30.149754	4.841	539.97132	4.841	993.81247	4.841	364.50369
2.421	28.045884	4.842	536.65619	4.842	994.68762	4.842	366.09848
2.4215	25.626501	4.843	532.74884	4.843	994.88665	4.843	367.52505

2.422 22.916302	4.844 528.70814	4.844 994.38744	4.844 368.81908
2.4225 19.956583	4.845 525.02497	4.845 993.2999	4.845 369.97157
2.423 16.820535	4.846 522.12466	4.846 991.8439	4.846 370.93948
2.4235 13.620065	4.847 520.30276	4.847 990.3052	4.847 371.66579
2.424 10.495084	4.848 519.70493	4.848 988.99133	4.848 372.10373
2.4245 7.5813143	4.849 520.34108	4.849 988.20195	4.849 372.23961
2.425 4.9615477	4.85 522.11378	4.85 988.21209	4.85 372.10842
2.4255 2.6147115	4.851 524.84256	4.851 989.25316	4.851 371.7975
2.426 0.3827642	4.852 528.27779	4.852 991.47553	4.852 371.43617
2.4265 -2.025955	4.853 532.11071	4.853 994.88992	4.853 371.17236
2.427 -4.987603	4.854 535.9931	4.854 999.30558	4.854 371.14079
2.4275 -8.873275	4.855 539.57726	4.855 1004.2985	4.855 371.42943
2.428 -13.93941	4.856 542.57518	4.856 1009.2424	4.856 372.05251
2.4285 -20.22842	4.857 544.82306	4.857 1013.4137	4.857 372.93801
2.429 -27.51023	4.858 546.32939	4.858 1016.1512	4.858 373.9344
2.4295 -35.28583	4.859 547.28629	4.859 1017.0232	4.859 374.83668
2.43 -42.85654	4.86 548.03474	4.86 1015.944	4.86 375.42558
2.4305 -49.44419	4.861 548.98941	4.861 1013.198	4.861 375.50983
2.431 -54.33292	4.862 550.54143	4.862 1009.3622	4.862 374.96102
2.4315 -56.99938	4.863 552.96411	4.863 1005.1552	4.863 373.7344
2.432 -57.20302	4.864 556.34473	4.864 1001.2645	4.864 371.8745
2.4325 -55.0213	4.865 560.55789	4.865 998.20518	4.865 369.50867
2.433 -50.82889	4.866 565.28491	4.866 996.24619	4.866 366.83263
2.4335 -45.23119	4.867 570.07351	4.867 995.41001	4.867 364.09044
2.434 -38.96778	4.868 574.42419	4.868 995.52881	4.868 361.54917
2.4345 -32.80249	4.869 577.88576	4.869 996.32636	4.869 359.46809
2.435 -27.41527	4.87 580.14171	4.87 997.49681	4.87 358.06469
2.4355 -23.30978	4.871 581.07111	4.871 998.76163	4.871 357.4833
2.436 -20.74953	4.872 580.7712	4.872 999.89884	4.872 357.77419
2.4365 -19.73187	4.873 579.53477	4.873 1000.7493	4.873 358.89057
2.437 -20.00278	4.874 577.78373	4.874 1001.2105	4.874 360.70578
2.4375 -21.10568	4.875 575.97142	4.875 1001.2297	4.875 363.04715
2.438 -22.45026	4.876 574.47755	4.876 1000.8039	4.876 365.73613
2.4385 -23.38586	4.877 573.52496	4.877 999.98831	4.877 368.62181
2.439 -23.26986	4.878 573.14412	4.878 998.90873	4.878 371.59639
2.4395 -21.53049	4.879 573.1957	4.879 997.76534	4.879 374.5881
2.44 -17.72979	4.88 573.4414	4.88 996.81869	4.88 377.53666
2.4405 -11.62916	4.881 573.63537	4.881 996.35203	4.881 380.36452
2.441 -3.250555	4.882 573.60319	4.882 996.61396	4.882 382.95974
2.4415 7.0847569	4.883 573.28381	4.883 997.75465	4.883 385.18098
2.442 18.761684	4.884 572.72821	4.884 999.7734	4.884 386.8842
2.4425 30.934503	4.885 572.06605	4.885 1002.4942	4.885 387.95912
2.443 42.643915	4.886 571.461	4.886 1005.5791	4.886 388.35884
2.4435 52.964912	4.887 571.07264	4.887 1008.579	4.887 388.10944
2.444 61.150399	4.888 571.03293	4.888 1011.0135	4.888 387.29751
2.4445 66.735858	4.889 571.43446	4.889 1012.4621	4.889 386.0439
2.445 69.582572	4.89 572.32279	4.89 1012.6505	4.89 384.47691
2.4455 69.855608	4.891 573.68742	4.891 1011.5123	4.891 382.71472
2.446 67.950728	4.892 575.45265	4.892 1009.2153	4.892 380.85882
2.4465 64.395736	4.893 577.4757	4.893 1006.1445	4.893 378.99352
2.447 59.753796	4.894 579.56089	4.894 1002.8432	4.894 377.18565

2.4475 54.549855	4.895 581.49399	4.895 999.92289	4.895 375.48286
2.448 49.229595	4.896 583.09258	4.896 997.95645	4.896 373.91438
2.4485 44.147921	4.897 584.25956	4.897 997.3772	4.897 372.49924
2.449 39.574841	4.898 585.02238	4.898 998.40377	4.898 371.26248
2.4495 35.703655	4.899 585.54196	4.899 1001.0068	4.899 370.25297
2.45 32.650281	4.9 586.08354	4.9 1004.9243	4.9 369.55163
2.4505 30.441333	4.901 586.95326	4.901 1009.7204	4.901 369.26153
2.451 28.998392	4.902 588.41661	4.902 1014.8754	4.902 369.4792
2.4515 28.131948	4.903 590.62241	4.903 1019.8822	4.903 370.25722
2.452 27.557465	4.904 593.55586	4.904 1024.33	4.904 371.57403
2.4525 26.937529	4.905 597.03562	4.905 1027.9538	4.905 373.32477
2.453 25.941673	4.906 600.75531	4.906 1030.6436	4.906 375.33748
2.4535 24.30525	4.907 604.35486	4.907 1032.4186	4.907 377.40699
2.454 21.866478	4.908 607.49767	4.908 1033.3814	4.908 379.33055
2.4545 18.56901	4.909 609.93005	4.909 1033.677	4.909 380.93015
2.455 14.433095	4.91 611.50931	4.91 1033.4688	4.91 382.05561
2.4555 9.513878	4.911 612.20124	4.911 1032.9366	4.911 382.57481
2.456 3.8723105	4.912 612.05957	4.912 1032.2831	4.912 382.36642
2.4565 -2.422437	4.913 611.20344	4.913 1031.73	4.913 381.33065
2.457 -9.257812	4.914 609.80312	4.914 1031.4897	4.914 379.42405
2.4575 -16.42872	4.915 608.07348	4.915 1031.7136	4.915 376.71032
2.458 -23.60467	4.916 606.26671	4.916 1032.4341	4.916 373.40637
2.4585 -30.33968	4.917 604.65414	4.917 1033.5279	4.917 369.89858
2.459 -36.13319	4.918 603.49331	4.918 1034.7243	4.918 366.71086
2.4595 -40.52618	4.919 602.98533	4.919 1035.6652	4.919 364.42233
2.46 -43.19926	4.92 603.23349	4.92 1036.0049	4.92 363.55177
2.4605 -44.03719	4.921 604.21497	4.921 1035.5203	4.921 364.44079
2.461 -43.13854	4.922 605.77296	4.922 1034.1937	4.922 367.17038
2.4615 -40.77246	4.923 607.63162	4.923 1032.2418	4.923 371.53561
2.462 -37.30466	4.924 609.4318	4.924 1030.0769	4.924 377.08394
2.4625 -33.12282	4.925 610.78357	4.925 1028.2099	4.925 383.20334
2.463 -28.5839	4.926 611.32938	4.926 1027.1247	4.926 389.23417
2.4635 -23.98963	4.927 610.80861	4.927 1027.158	4.927 394.57743
2.464 -19.58167	4.928 609.11124	4.928 1028.4231	4.928 398.77919
2.4645 -15.54238	4.929 606.30755	4.929 1030.7942	4.929 401.58087
2.465 -11.99342	4.93 602.64423	4.93 1033.9537	4.93 402.93296
2.4655 -8.995135	4.931 598.50565	4.931 1037.4801	4.931 402.97502
2.466 -6.556356	4.932 594.34793	4.932 1040.9463	4.932 401.98727
2.4665 -4.660563	4.933 590.62135	4.933 1043.9983	4.933 400.3232
2.467 -3.302793	4.934 587.69819	4.934 1046.3974	4.934 398.337
2.4675 -2.5194	4.935 585.82051	4.935 1048.0258	4.935 396.32279
2.468 -2.390118	4.936 585.07602	4.936 1048.8672	4.936 394.48099
2.4685 -3.002252	4.937 585.40341	4.937 1048.9816	4.937 392.91971
2.469 -4.386384	4.938 586.62303	4.938 1048.4866	4.938 391.68653
2.4695 -6.451086	4.939 588.48472	4.939 1047.5476	4.939 390.81487
2.47 -8.950219	4.94 590.72195	4.94 1046.372	4.94 390.36322
2.4705 -11.50606	4.941 593.10047	4.941 1045.194	4.941 390.42908
2.471 -13.6887	4.942 595.45122	4.942 1044.2434	4.942 391.13033
2.4715 -15.12776	4.943 597.68127	4.943 1043.7001	4.943 392.56044
2.472 -15.61748	4.944 599.7636	4.944 1043.6464	4.944 394.73506
2.4725 -15.17773	4.945 601.71232	4.945 1044.0385	4.945 397.55131

2.473 -14.04958	4.946 603.5541	4.946 1044.7122	4.946 400.7768
2.4735 -12.62795	4.947 605.30507	4.947 1045.429	4.947 404.07506
2.474 -11.35505	4.948 606.95871	4.948 1045.9507	4.948 407.06152
2.4745 -10.60886	4.949 608.4846	4.949 1046.1184	4.949 409.37393
2.475 -10.61868	4.95 609.83495	4.95 1045.9057	4.95 410.7364
2.4755 -11.42643	4.951 610.9556	4.951 1045.4303	4.951 410.99946
2.476 -12.89544	4.952 611.79979	4.952 1044.9172	4.952 410.14737
2.4765 -14.75351	4.953 612.34409	4.953 1044.6319	4.953 408.27611
2.477 -16.65029	4.954 612.60426	4.954 1044.8064	4.954 405.55504
2.4775 -18.21043	4.955 612.6462	4.955 1045.5824	4.955 402.18977
2.478 -19.07218	4.956 612.58474	4.956 1046.9863	4.956 398.4
2.4785 -18.91125	4.957 612.56449	4.957 1048.9359	4.957 394.41711
2.479 -17.45743	4.958 612.72261	4.958 1051.2716	4.958 390.49539
2.4795 -14.51319	4.959 613.14143	4.959 1053.7996	4.959 386.92322
2.48 -9.980454	4.96 613.80599	4.96 1056.3339	4.96 384.01914
2.4805 -3.893988	4.961 614.58413	4.961 1058.7294	4.961 382.10387
2.481 3.5469202	4.962 615.24262	4.962 1060.8975	4.962 381.45011
2.4815 11.961794	4.963 615.50277	4.963 1062.803	4.963 382.22268
2.482 20.800156	4.964 615.12507	4.964 1064.4419	4.964 384.42781
2.4825 29.388273	4.965 613.99955	4.965 1065.8088	4.965 387.88925
2.483 37.010112	4.966 612.21193	4.966 1066.8668	4.966 392.26056
2.4835 43.010905	4.967 610.05882	4.967 1067.529	4.967 397.0711
2.484 46.903623	4.968 607.99923	4.968 1067.6625	4.968 401.79302
2.4845 48.455447	4.969 606.5508	4.969 1067.1122	4.969 405.91188
2.485 47.734388	4.97 606.15965	4.97 1065.7384	4.97 408.98624
2.4855 45.104524	4.971 607.08434	4.971 1063.4607	4.971 410.68904
2.486 41.169291	4.972 609.3313	4.972 1060.2968	4.972 410.83285
2.4865 36.672812	4.973 612.66212	4.973 1056.3923	4.973 409.38545
2.487 32.377282	4.974 616.66746	4.974 1052.032	4.974 406.48154
2.4875 28.938911	4.975 620.88003	4.975 1047.6257	4.975 402.42933
2.488 26.805766	4.976 624.88687	4.976 1043.6621	4.976 397.70331
2.4885 26.157661	4.977 628.40522	4.977 1040.6326	4.977 392.91021
2.489 26.900713	4.978 631.30322	4.978 1038.9387	4.978 388.71974
2.4895 28.717544	4.979 633.56886	4.979 1038.8065	4.979 385.76275
2.49 31.16065	4.98 635.24894	4.98 1040.2357	4.98 384.51499
2.4905 33.765063	4.981 636.38724	4.981 1043.0006	4.981 385.19551
2.491 36.151817	4.982 636.98616	4.982 1046.705	4.982 387.71059
2.4915 38.098166	4.983 637.00292	4.983 1050.8714	4.983 391.66396
2.492 39.562835	4.984 636.37699	4.984 1055.0416	4.984 396.43536
2.4925 40.669276	4.985 635.07502	4.985 1058.8592	4.985 401.30897
2.493 41.660743	4.986 633.13592	4.986 1062.1202	4.986 405.61957
2.4935 42.843705	4.987 630.70076	4.987 1064.7861	4.987 408.88075
2.494 44.531383	4.988 628.01668	4.988 1066.9633	4.988 410.86691
2.4945 46.991813	4.989 625.41087	4.989 1068.8576	4.989 411.63508
2.495 50.400539	4.99 623.23715	4.99 1070.7101	4.99 411.48738
2.4955 54.799821	4.991 621.80559	4.991 1072.726	4.991 410.88744
2.496 60.072001	4.992 621.31216	4.992 1075.0099	4.992 410.35202
2.4965 65.938859	4.993 621.78815	4.993 1077.5234	4.993 410.34141
2.497 71.996002	4.994 623.0866	4.994 1080.079	4.994 411.17109
2.4975 77.780272	4.995 624.9129	4.995 1082.3779	4.995 412.96036
2.498 82.853352	4.996 626.8937	4.996 1084.0811	4.996 415.62424

2.4985 86.874312	4.997 628.66532	4.997 1084.8943	4.997 418.90475
2.499 89.634954	4.998 629.95658	4.998 1084.6378	4.998 422.4292
2.4995 91.046099	4.999 630.64236	4.999 1083.2774	4.999 425.78029
2.5 91.084642	5 630.75456	5 1080.9069	5 428.56424
2.5005 89.729877	5.001 630.45113	5.001 1077.6881	5.001 430.46695
2.501 86.923248	5.002 629.957	5.002 1073.7732	5.002 431.29316
2.5015 82.574781	5.003 629.49789	5.003 1069.2379	5.003 430.98542
2.502 76.616586	5.004 629.24656	5.004 1064.0508	5.004 429.62174
2.5025 69.080014	5.005 629.293	5.005 1058.0882	5.005 427.39222
2.503 60.159678	5.006 629.63971	5.006 1051.1867	5.006 424.55777
2.5035 50.231088	5.007 630.21504	5.007 1043.2099	5.007 421.39823
2.504 39.807394	5.008 630.89641	5.008 1034.1048	5.008 418.16116
2.5045 29.44621	5.009 631.53809	5.009 1023.9292	5.009 415.02412
2.505 19.638578	5.01 632.00279	5.01 1012.8472	5.01 412.08143
2.5055 10.720008	5.011 632.19687	5.011 1001.1042	5.011 409.36047
2.506 2.835074	5.012 632.10497	5.012 988.99575	5.012 406.86323
2.5065 -4.034152	5.013 631.81395	5.013 976.84311	5.013 404.61962
2.507 -9.9909	5.014 631.51364	5.014 964.97894	5.014 402.73244
2.5075 -15.13193	5.015 631.46682	5.015 953.73763	5.015 401.3937
2.508 -19.48027	5.016 631.95161	5.016 943.44364	5.016 400.8596
2.5085 -22.96966	5.017 633.19124	5.017 934.39284	5.017 401.38591
2.509 -25.48434	5.018 635.29177	5.018 926.82683	5.018 403.14168
2.5095 -26.93258	5.019 638.20525	5.019 920.90457	5.019 406.13076
2.51 -27.31742	5.02 641.72672	5.02 916.67739	5.02 410.15215
2.5105 -26.77029	5.021 645.52282	5.021 914.07398	5.021 414.81783
2.511 -25.53179	5.022 649.18409	5.022 912.90068	5.022 419.62651
2.5115 -23.88867	5.023 652.29143	5.023 912.86042	5.023 424.06936
2.512 -22.09596	5.024 654.48788	5.024 913.58891	5.024 427.73185
2.5125 -20.31779	5.025 655.54615	5.025 914.70173	5.025 430.35856
2.513 -18.60912	5.026 655.41951	5.026 915.8408	5.026 431.86568
2.5135 -16.93958	5.027 654.26231	5.027 916.70832	5.027 432.30924
2.514 -15.24168	5.028 652.40953	5.028 917.0811	5.028 431.83499
2.5145 -13.45685	5.029 650.31462	5.029 916.80703	5.029 430.63797
2.515 -11.55783	5.03 648.45781	5.03 915.79387	5.03 428.94718
2.5155 -9.540767	5.031 647.24724	5.031 914.00244	5.031 427.02973
2.516 -7.396933	5.032 646.93781	5.032 911.45093	5.032 425.19312
2.5165 -5.084544	5.033 647.58674	5.033 908.22603	5.033 423.76272
2.517 -2.521305	5.034 649.05334	5.034 904.4884	5.034 423.02611
2.5175 0.3910217	5.035 651.03914	5.035 900.45933	5.035 423.15722
2.518 3.7135035	5.036 653.15708	5.036 896.38499	5.036 424.15088
2.5185 7.4059786	5.037 655.01513	5.037 892.48755	5.037 425.79987
2.519 11.277675	5.038 656.29962	5.038 888.92186	5.038 427.73272
2.5195 14.976981	5.039 656.84281	5.039 885.75478	5.039 429.50633
2.52 18.034104	5.04 656.66032	5.04 882.97314	5.04 430.72575
2.5205 19.95298	5.041 655.94667	5.041 880.51219	5.041 431.15288
2.521 20.330486	5.042 655.02569	5.042 878.28672	5.042 430.77027
2.5215 18.968533	5.043 654.26518	5.043 876.20838	5.043 429.7814
2.522 15.943481	5.044 653.97845	5.044 874.18257	5.044 428.54837
2.5225 11.609072	5.045 654.34255	5.045 872.09119	5.045 427.48524
2.523 6.5298528	5.046 655.35951	5.046 869.7766	5.046 426.93617
2.5235 1.3641279	5.047 656.87216	5.047 867.04199	5.047 427.07269

2.524	-3.26986	5.048	658.62713	5.048	863.67547	5.048	427.84149
2.5245	-6.908815	5.049	660.36077	5.049	859.49173	5.049	428.98288
2.525	-9.31489	5.05	661.87778	5.05	854.37509	5.05	430.12072
2.5255	-10.49326	5.051	663.09796	5.051	848.30427	5.051	430.89885
2.526	-10.6642	5.052	664.06051	5.052	841.34644	5.052	431.11849
2.5265	-10.2058	5.053	664.89157	5.053	833.62159	5.053	430.82319
2.527	-9.583863	5.054	665.75127	5.054	825.25249	5.054	430.29313
2.5275	-9.279606	5.055	666.7798	5.055	816.32124	5.055	429.94321
2.528	-9.719497	5.056	668.05708	5.056	806.84915	5.056	430.15938
2.5285	-11.20934	5.057	669.58224	5.057	796.80388	5.057	431.13526
2.529	-13.87775	5.058	671.27165	5.058	786.12522	5.058	432.77456
2.5295	-17.64021	5.059	672.97127	5.059	774.75571	5.059	434.70055
2.53	-22.19849	5.06	674.47985	5.06	762.66557	5.06	436.37303
2.5305	-27.08605	5.061	675.58176	5.061	749.87028	5.061	437.27189
2.531	-31.75736	5.062	676.08867	5.062	736.44495	5.062	437.08182
2.5315	-35.70194	5.063	675.88559	5.063	722.53924	5.063	435.8136
2.532	-38.55028	5.064	674.97123	5.064	708.3907	5.064	433.82125
2.5325	-40.13756	5.065	673.47818	5.065	694.32863	5.065	431.71206
2.533	-40.50441	5.066	671.66016	5.066	680.75985	5.066	430.18206
2.5335	-39.83726	5.067	669.84224	5.067	668.13329	5.067	429.83093
2.534	-38.37423	5.068	668.3429	5.068	656.88802	5.068	431.01222
2.5345	-36.31453	5.069	667.39016	5.069	647.39541	5.069	433.75736
2.535	-33.76555	5.07	667.0592	5.07	639.9069	5.07	437.78644
2.5355	-30.74438	5.071	667.25481	5.071	634.51576	5.071	442.59322
2.536	-27.22816	5.072	667.74675	5.072	631.13801	5.072	447.57443
2.5365	-23.22971	5.073	668.24751	5.073	629.51488	5.073	452.16732
2.537	-18.867	5.074	668.50632	5.074	629.23966	5.074	455.96181
2.5375	-14.39862	5.075	668.3881	5.075	629.81029	5.075	458.76358
2.538	-10.20865	5.076	667.91328	5.076	630.70547	5.076	460.59835
2.5385	-6.740007	5.077	667.24944	5.077	631.47419	5.077	461.66351
2.539	-4.391752	5.078	666.66198	5.078	631.82012	5.078	462.24754
2.5395	-3.408792	5.079	666.44102	5.079	631.65685	5.079	462.6448
2.54	-3.79907	5.08	666.82376	5.08	631.11254	5.08	463.09079
2.5405	-5.30941	5.081	667.92843	5.081	630.47536	5.081	463.73116
2.541	-7.475612	5.082	669.71162	5.082	630.0899	5.082	464.62207
2.5415	-9.738234	5.083	671.95845	5.083	630.23392	5.083	465.7478
2.542	-11.59081	5.084	674.31216	5.084	631.01457	5.084	467.03895
2.5425	-12.7124	5.085	676.34292	5.085	632.31934	5.085	468.3811
2.543	-13.03926	5.086	677.64422	5.086	633.83835	5.086	469.61494
2.5435	-12.75162	5.087	677.93243	5.087	635.14952	5.087	470.53757
2.544	-12.18327	5.088	677.11905	5.088	635.83656	5.088	470.91657
2.5445	-11.69044	5.089	675.33104	5.089	635.59992	5.089	470.52343
2.545	-11.52931	5.09	672.8724	5.09	634.32756	5.09	469.18408
2.5455	-11.78396	5.091	670.14241	5.091	632.10902	5.091	466.83563
2.546	-12.36239	5.092	667.54064	5.092	629.19715	5.092	463.57341
2.5465	-13.05012	5.093	665.39059	5.093	625.93534	5.093	459.67267
2.547	-13.59132	5.094	663.901	5.094	622.67362	5.094	455.57376
2.5475	-13.76366	5.095	663.16531	5.095	619.69248	5.095	451.82794
2.548	-13.4241	5.096	663.18504	5.096	617.14655	5.096	449.00994
2.5485	-12.52047	5.097	663.89823	5.097	615.03323	5.097	447.61269
2.549	-11.07887	5.098	665.19985	5.098	613.18841	5.098	447.94533

2.5495	-9.183452	5.099	666.95179	5.099	611.30998	5.099	450.05821
2.55	-6.961731	5.1	668.98831	5.1	609.00828	5.1	453.71488
2.5505	-4.58014	5.101	671.12504	5.101	605.87952	5.101	458.42241
2.551	-2.245604	5.102	673.17505	5.102	601.59212	5.102	463.51782
2.5515	-0.203878	5.103	674.96992	5.103	595.96968	5.103	468.29402
2.552	1.2740851	5.104	676.37968	5.104	589.05026	5.104	472.13693
2.5525	1.9217068	5.105	677.32692	5.105	581.10274	5.105	474.64132
2.553	1.5194423	5.106	677.79347	5.106	572.58928	5.106	475.6774
2.5535	-0.058789	5.107	677.82147	5.107	564.07693	5.107	475.39318
2.554	-2.808673	5.108	677.51036	5.108	556.11756	5.108	474.1545
2.5545	-6.581281	5.109	677.00859	5.109	549.12728	5.109	472.44057
2.555	-11.09983	5.11	676.4975	5.11	543.29951	5.11	470.72371
2.5555	-16.00662	5.111	676.16583	5.111	538.57714	5.111	469.36405
2.556	-20.92875	5.112	676.17797	5.112	534.69141	5.112	468.54399
2.5565	-25.54333	5.113	676.64323	5.113	531.25469	5.113	468.25482
2.557	-29.62227	5.114	677.5945	5.114	527.8776	5.114	468.33298
2.5575	-33.04388	5.115	678.98066	5.115	524.27464	5.115	468.53095
2.558	-35.77208	5.116	680.67227	5.116	520.32784	5.116	468.60058
2.5585	-37.8169	5.117	682.47605	5.117	516.09323	5.117	468.36641
2.559	-39.1963	5.118	684.1553	5.118	511.75414	5.118	467.77158
2.5595	-39.91633	5.119	685.45639	5.119	507.54273	5.119	466.88783
2.56	-39.97498	5.12	686.14451	5.12	503.65957	5.12	465.89053
2.5605	-39.38233	5.121	686.04895	5.121	500.21923	5.121	465.00836
2.561	-38.18124	5.122	685.11098	5.122	497.23777	5.122	464.4635
2.5615	-36.4538	5.123	683.41956	5.123	494.66101	5.123	464.42036
2.562	-34.30831	5.124	681.21738	5.124	492.41696	5.124	464.95755
2.5625	-31.85367	5.125	678.86659	5.125	490.4681	5.125	466.06941
2.563	-29.17633	5.126	676.77821	5.126	488.84078	5.126	467.69194
2.5635	-26.33456	5.127	675.32475	5.127	487.62037	5.127	469.73798
2.564	-23.37507	5.128	674.76419	5.128	486.91536	5.128	472.12338
2.5645	-20.36391	5.129	675.19909	5.129	486.80649	5.129	474.7712
2.565	-17.41361	5.13	676.5802	5.13	487.30247	5.13	477.59405
2.5655	-14.68762	5.131	678.74567	5.131	488.32086	5.131	480.46747
2.566	-12.37262	5.132	681.47503	5.132	489.70248	5.132	483.21458
2.5665	-10.62397	5.133	684.5359	5.133	491.25593	5.133	485.6181
2.567	-9.502464	5.134	687.71073	5.134	492.81845	5.134	487.46236
2.5675	-8.926345	5.135	690.80308	5.135	494.3144	5.135	488.59188
2.568	-8.658158	5.136	693.63256	5.136	495.79274	5.136	488.96275
2.5685	-8.335445	5.137	696.03008	5.137	497.42963	5.137	488.66394
2.569	-7.541438	5.138	697.84135	5.138	499.49032	5.138	487.89788
2.5695	-5.901652	5.139	698.94061	5.139	502.25516	5.139	486.92684
2.57	-3.186074	5.14	699.25162	5.14	505.92596	5.14	486.00541
2.5705	0.6058401	5.141	698.77033	5.141	510.538	5.141	485.32336
2.571	5.1993106	5.142	697.58321	5.142	515.90616	5.142	484.97639
2.5715	10.054724	5.143	695.87571	5.143	521.62765	5.143	484.96862
2.572	14.441823	5.144	693.9256	5.144	527.14943	5.144	485.23709
2.5725	17.570005	5.145	692.07677	5.145	531.88811	5.145	485.68127
2.573	18.750375	5.146	690.69289	5.146	535.37112	5.146	486.1822
2.5735	17.552249	5.147	690.09579	5.147	537.35726	5.147	486.6048
2.574	13.913859	5.148	690.5021	5.148	537.8973	5.148	486.78814
2.5745	8.1766132	5.149	691.97611	5.149	537.31217	5.149	486.53735

2.575	1.032326	5.15	694.41659	5.15	536.09265	5.15	485.6326
2.5755	-6.60334	5.151	697.58501	5.151	534.7506	5.151	483.86476
2.576	-13.75852	5.152	701.16834	5.152	533.66862	5.152	481.09659
2.5765	-19.57239	5.153	704.85571	5.153	532.99511	5.153	477.33575
2.577	-23.42436	5.154	708.40266	5.154	532.61618	5.154	472.79677
2.5775	-25.00221	5.155	711.66225	5.155	532.21016	5.155	467.92677
2.578	-24.30454	5.156	714.57595	5.156	531.3642	5.156	463.37561
2.5785	-21.59042	5.157	717.13374	5.157	529.71408	5.157	459.90513
2.579	-17.29831	5.158	719.32404	5.158	527.0632	5.158	458.25028
2.5795	-11.95772	5.159	721.09682	5.159	523.44517	5.159	458.96233
2.58	-6.110507	5.16	722.3571	5.16	519.11371	5.16	462.27404
2.5805	-0.250447	5.161	722.99307	5.161	514.46752	5.161	468.02385
2.581	5.2181544	5.162	722.92977	5.162	509.93891	5.162	475.66154
2.5815	10.005063	5.163	722.18777	5.163	505.88565	5.163	484.3353
2.582	13.944348	5.164	720.92246	5.164	502.5222	5.164	493.03861
2.5825	16.991071	5.165	719.42384	5.165	499.90931	5.165	500.78233
2.583	19.204693	5.166	718.06855	5.166	497.99766	5.166	506.75522
2.5835	20.72075	5.167	717.23204	5.167	496.7001	5.167	510.44355
2.584	21.714796	5.168	717.18438	5.168	495.95865	5.168	511.69238
2.5845	22.364362	5.169	718.00144	5.169	495.77819	5.169	510.703
2.585	22.814443	5.17	719.52201	5.17	496.21647	5.17	507.97101
2.5855	23.149772	5.171	721.36881	5.171	497.34035	5.171	504.1783
2.586	23.3747	5.172	723.03209	5.172	499.17089	5.172	500.05902
2.5865	23.401086	5.173	723.99442	5.173	501.64136	5.173	496.2655
2.587	23.047086	5.174	723.86164	5.174	504.58246	5.174	493.2615
2.5875	22.053496	5.175	722.46272	5.175	507.73587	5.175	491.2655
2.588	20.125481	5.176	719.8907	5.176	510.78744	5.176	490.25578
2.5885	17.002684	5.177	716.47535	5.177	513.40891	5.177	490.03218
2.589	12.549482	5.178	712.6982	5.178	515.29982	5.178	490.31353
2.5895	6.8435098	5.179	709.07636	5.179	516.22598	5.179	490.83858
2.59	0.2317127	5.18	706.04817	5.18	516.05204	5.18	491.43874
2.5905	-6.674931	5.181	703.88946	5.181	514.76474	5.181	492.06265
2.591	-13.08213	5.182	702.67736	5.182	512.48201	5.182	492.75206
2.5915	-18.15932	5.183	702.30374	5.183	509.44507	5.183	493.58794
2.592	-21.22042	5.184	702.52681	5.184	505.99453	5.184	494.63496
2.5925	-21.8911	5.185	703.04259	5.185	502.53567	5.185	495.90927
2.593	-20.21503	5.186	703.55667	5.186	499.49798	5.186	497.37964
2.5935	-16.66648	5.187	703.84128	5.187	497.29073	5.187	498.9935
2.594	-12.06147	5.188	703.76896	5.188	496.25313	5.188	500.70743
2.5945	-7.387157	5.189	703.32111	5.189	496.59849	5.189	502.50113
2.595	-3.591416	5.19	702.57454	5.19	498.35962	5.19	504.36432
2.5955	-1.384999	5.191	701.67358	5.191	501.35196	5.191	506.26246
2.596	-1.105272	5.192	700.79655	5.192	505.17571	5.192	508.1001
2.5965	-2.67384	5.193	700.1253	5.193	509.27222	5.193	509.70474
2.597	-5.655222	5.194	699.82326	5.194	513.0327	5.194	510.84727
2.5975	-9.396518	5.195	700.02334	5.195	515.93545	5.195	511.29995
2.598	-13.20637	5.196	700.82265	5.196	517.67139	5.196	510.91632
2.5985	-16.52191	5.197	702.27987	5.197	518.21565	5.197	509.70611
2.599	-19.01832	5.198	704.41225	5.198	517.81853	5.198	507.87627
2.5995	-20.63639	5.199	707.19194	5.199	516.9164	5.199	505.8185
2.6	-21.53111	5.2	710.54293	5.2	515.99204	5.2	504.03967

2.6005	-21.9706	5.201	714.3397	5.201	515.43126	5.201	503.05003
2.601	-22.22739	5.202	718.4074	5.202	515.42153	5.202	503.23805
2.6015	-22.50005	5.203	722.52368	5.203	515.92035	5.203	504.76633
2.602	-22.88456	5.204	726.4246	5.204	516.69427	5.204	507.51794
2.6025	-23.39128	5.205	729.8204	5.205	517.40666	5.205	511.10926
2.603	-23.98594	5.206	732.42719	5.206	517.72088	5.206	514.96668
2.6035	-24.62913	5.207	734.01575	5.207	517.38822	5.207	518.44695
2.604	-25.29771	5.208	734.46901	5.208	516.30107	5.208	520.97033
2.6045	-25.98582	5.209	733.8298	5.209	514.50587	5.209	522.1338
2.605	-26.69525	5.21	732.31704	5.21	512.18048	5.21	521.78057
2.6055	-27.42723	5.211	730.29534	5.211	509.58674	5.211	520.0154
2.606	-28.18257	5.212	728.19912	5.212	507.01111	5.212	517.16983
2.6065	-28.96791	5.213	726.43105	5.213	504.70604	5.213	513.73109
2.607	-29.80057	5.214	725.26741	5.214	502.84315	5.214	510.25275
2.6075	-30.70474	5.215	724.80233	5.215	501.48656	5.215	507.26437
2.608	-31.69837	5.216	724.94948	5.216	500.58992	5.216	505.19429
2.6085	-32.77663	5.217	725.49882	5.217	500.01608	5.217	504.3158
2.609	-33.90088	5.218	726.20729	5.218	499.57347	5.218	504.72295
2.6095	-34.99957	5.219	726.89255	5.219	499.06042	5.219	506.33739
2.61	-35.98086	5.22	727.50068	5.22	498.3081	5.22	508.94224
2.6105	-36.75129	5.221	728.12893	5.221	497.21439	5.221	512.23375
2.611	-37.23302	5.222	728.99856	5.222	495.76492	5.222	515.87839
2.6115	-37.37453	5.223	730.38559	5.223	494.0407	5.223	519.56347
2.612	-37.15365	5.224	732.52821	5.224	492.21378	5.224	523.03317
2.6125	-36.57444	5.225	735.53592	5.225	490.53132	5.225	526.10663
2.613	-35.65876	5.226	739.32761	5.226	489.28617	5.226	528.67979
2.6135	-34.43256	5.227	743.62031	5.227	488.77142	5.227	530.71501
2.614	-32.90662	5.228	747.97749	5.228	489.2196	5.228	532.22371
2.6145	-31.05475	5.229	751.90656	5.229	490.736	5.229	533.24718
2.615	-28.79638	5.23	754.9778	5.23	493.24375	5.23	533.83985
2.6155	-25.99261	5.231	756.92659	5.231	496.46274	5.231	534.05841
2.616	-22.46223	5.232	757.70605	5.232	499.93788	5.232	533.95758
2.6165	-18.01759	5.233	757.47406	5.233	503.11767	5.233	533.59116
2.617	-12.51187	5.234	756.523	5.234	505.46496	5.234	533.01538
2.6175	-5.884575	5.235	755.18035	5.235	506.56855	5.235	532.2916
2.618	1.8079204	5.236	753.71573	5.236	506.22251	5.236	531.48676
2.6185	10.383932	5.237	752.2834	5.237	504.45201	5.237	530.6712
2.619	19.549302	5.238	750.91302	5.238	501.48365	5.238	529.91363
2.6195	28.92395	5.239	749.54339	5.239	497.67722	5.239	529.27247
2.62	38.07271	5.24	748.08156	5.24	493.44532	5.24	528.78281
2.6205	46.534405	5.241	746.46624	5.241	489.18513	5.241	528.44002
2.621	53.849409	5.242	744.71687	5.242	485.23623	5.242	528.18479
2.6215	59.591162	5.243	742.95635	5.243	481.8651	5.243	527.8972
2.622	63.40743	5.244	741.40149	5.244	479.26796	5.244	527.4078
2.6225	65.071782	5.245	740.32251	5.245	477.58103	5.245	526.52989
2.623	64.537207	5.246	739.97997	5.246	476.88936	5.246	525.11004
2.6235	61.976727	5.247	740.55535	5.247	477.22995	5.247	523.08637
2.624	57.794505	5.248	742.09637	5.248	478.58901	5.248	520.53856
2.6245	52.596607	5.249	744.49675	5.249	480.89662	5.249	517.71245
2.625	47.121033	5.25	747.51934	5.25	484.02347	5.25	515.0062
2.6255	42.137705	5.251	750.8555	5.251	487.78518	5.251	512.91427

2.626 38.33679	5.252 754.19782	5.252 491.95739	5.252 511.9373
2.6265 36.226368	5.253 757.2979	5.253 496.30016	5.253 512.47755
2.627 36.05827	5.254 759.9884	5.254 500.5858	5.254 514.74622
2.6275 37.795444	5.255 762.16718	5.255 504.62073	5.255 518.70791
2.628 41.1265	5.256 763.76084	5.256 508.25404	5.256 524.0773
2.6285 45.524193	5.257 764.69472	5.257 511.37126	5.257 530.36852
2.629 50.335783	5.258 764.89123	5.258 513.87926	5.258 536.98282
2.6295 54.886648	5.259 764.30089	5.259 515.6935	5.259 543.31263
2.63 58.576676	5.26 762.95002	5.26 516.73826	5.26 548.83926
2.6305 60.952761	5.261 760.97781	5.261 516.96395	5.261 553.20764
2.631 61.748836	5.262 758.63763	5.262 516.37591	5.262 556.26808
2.6315 60.893551	5.263 756.25417	5.263 515.06058	5.263 558.08022
2.632 58.491658	5.264 754.14797	5.264 513.19224	5.264 558.87761
2.6325 54.786775	5.265 752.55443	5.265 511.00977	5.265 558.99635
2.633 50.111934	5.266 751.56769	5.266 508.76548	5.266 558.77913
2.6335 44.832981	5.267 751.12965	5.267 506.66244	5.267 558.47627
2.634 39.290459	5.268 751.06734	5.268 504.80506	5.268 558.17188
2.6345 33.748032	5.269 751.16449	5.269 503.18532	5.269 557.76035
2.635 28.357479	5.27 751.24196	5.27 501.71268	5.27 556.98488
2.6355 23.149572	5.271 751.22021	5.271 500.27739	5.271 555.52865
2.636 18.055491	5.272 751.14365	5.272 498.82096	5.272 553.13046
2.6365 12.955849	5.273 751.1595	5.273 497.38428	5.273 549.68771
2.637 7.7460917	5.274 751.45816	5.274 496.11286	5.274 545.31427
2.6375 2.4008417	5.275 752.19492	5.275 495.21709	5.275 540.33649
2.638 -2.982176	5.276 753.41921	5.276 494.90379	5.276 535.23
2.6385 -8.174133	5.277 755.03626	5.277 495.30649	5.277 530.51608
2.639 -12.84895	5.278 756.81576	5.278 496.44079	5.278 526.64532
2.6395 -16.65152	5.279 758.44627	5.279 498.19973	5.279 523.89702
2.64 -19.27982	5.28 759.61928	5.28 500.38719	5.28 522.31828
2.6405 -20.55344	5.281 760.11715	5.281 502.77275	5.281 521.71762
2.641 -20.44423	5.282 759.87931	5.282 505.14501	5.282 521.71679
2.6415 -19.0588	5.283 759.02859	5.283 507.34458	5.283 521.85159
2.642 -16.58261	5.284 757.85215	5.284 509.27006	5.284 521.69948
2.6425 -13.21182	5.285 756.74273	5.285 510.86398	5.285 521.00275
2.643 -9.104649	5.286 756.11457	5.286 512.09355	5.286 519.75265
2.6435 -4.373444	5.287 756.31238	5.287 512.94028	5.287 518.20715
2.644 0.8816561	5.288 757.53226	5.288 513.40399	5.288 516.83138
2.6445 6.5182745	5.289 759.77124	5.289 513.51597	5.289 516.17266
2.645 12.30819	5.29 762.81722	5.29 513.34976	5.29 516.70491
2.6455 17.931093	5.291 766.28372	5.291 513.01808	5.291 518.68963
2.646 23.013857	5.292 769.6841	5.292 512.65118	5.292 522.09864
2.6465 27.201471	5.293 772.53076	5.293 512.36079	5.293 526.6236
2.647 30.231226	5.294 774.43754	5.294 512.20142	5.294 531.76758
2.6475 31.981332	5.295 775.2019	5.295 512.14393	5.295 536.98558
2.648 32.477882	5.296 774.84789	5.296 512.07441	5.296 541.82493
2.6485 31.862838	5.297 773.62069	5.297 511.82433	5.297 546.02057
2.649 30.341023	5.298 771.93526	5.298 511.22797	5.298 549.51947
2.6495 28.129597	5.299 770.29229	5.299 510.19199	5.299 552.43604
2.65 25.427781	5.3 769.18046	5.3 508.75438	5.3 554.96264
2.6505 22.411881	5.301 768.98527	5.301 507.10921	5.301 557.27062
2.651 19.247515	5.302 769.92114	5.302 505.58214	5.302 559.43468

2.6515	16.10368	5.303	771.99774	5.303	504.55731	5.303	561.40113
2.652	13.154702	5.304	775.025	5.304	504.3744	5.304	563.00478
2.6525	10.56482	5.305	778.65406	5.305	505.22839	5.305	564.02496
2.653	8.461228	5.306	782.44626	5.306	507.10693	5.306	564.26132
2.6535	6.9088641	5.307	785.95679	5.307	509.78973	5.307	563.60611
2.654	5.900423	5.308	788.81762	5.308	512.91319	5.308	562.09196
2.6545	5.3681395	5.309	790.80369	5.309	516.07901	5.309	559.90242
2.655	5.2138015	5.31	791.86944	5.31	518.96778	5.31	557.34474
2.6555	5.3454179	5.311	792.14781	5.311	521.41526	5.311	554.79655
2.656	5.7066017	5.312	791.91157	5.312	523.42273	5.312	552.64548
2.6565	6.2884488	5.313	791.50488	5.313	525.09931	5.313	551.23903
2.657	7.1210923	5.314	791.26046	5.314	526.56253	5.314	550.85358
2.6575	8.2496746	5.315	791.42202	5.315	527.84075	5.315	551.67969
2.658	9.7043605	5.316	792.09134	5.316	528.82049	5.316	553.81351
2.6585	11.474888	5.317	793.21392	5.317	529.26162	5.317	557.24396
2.659	13.497285	5.318	794.60686	5.318	528.875	5.318	561.83315
2.6595	15.655218	5.319	796.02119	5.319	527.43119	5.319	567.29749
2.66	17.793166	5.32	797.21982	5.32	524.85837	5.32	573.20555
2.6605	19.735396	5.321	798.04729	5.321	521.29424	5.321	579.00897
2.661	21.304818	5.322	798.4694	5.322	517.07696	5.322	584.11469
2.6615	22.338758	5.323	798.57118	5.323	512.6826	5.323	587.9907
2.662	22.70238	5.324	798.51631	5.324	508.63262	5.324	590.28006
2.6625	22.302508	5.325	798.48525	5.325	505.39842	5.325	590.88731
2.663	21.10361	5.326	798.61631	5.326	503.32365	5.326	590.00393
2.6635	19.144572	5.327	798.971	5.327	502.57446	5.327	588.05816
2.664	16.551614	5.328	799.53335	5.328	503.11966	5.328	585.60171
2.6645	13.541393	5.329	800.23854	5.329	504.73991	5.329	583.17027
2.665	10.409442	5.33	801.01496	5.33	507.06564	5.33	581.16482
2.6655	7.5019273	5.331	801.82072	5.331	509.64293	5.331	579.79045
2.666	5.1723356	5.332	802.6608	5.332	512.02198	5.332	579.06508
2.6665	3.728579	5.333	803.58099	5.333	513.85344	5.333	578.88326
2.667	3.3798924	5.334	804.64448	5.334	514.9693	5.334	579.10211
2.6675	4.1958922	5.335	805.90288	5.335	515.42312	5.335	579.61452
2.668	6.0903265	5.336	807.37341	5.336	515.47266	5.336	580.38601
2.6685	8.8375671	5.337	809.02935	5.337	515.50498	5.337	581.4493
2.669	12.120727	5.338	810.80494	5.338	515.92426	5.338	582.86588
2.6695	15.599236	5.339	812.61057	5.339	517.03506	5.339	584.67178
2.67	18.975549	5.34	814.35234	5.34	518.95536	5.34	586.82597
2.6705	22.039773	5.341	815.95079	5.341	521.58164	5.341	589.17554
2.671	24.678533	5.342	817.35501	5.342	524.61071	5.342	591.44765
2.6715	26.847859	5.343	818.54961	5.343	527.60554	5.343	593.27279
2.672	28.523558	5.344	819.55261	5.344	530.08406	5.344	594.23978
2.6725	29.651007	5.345	820.40395	5.345	531.60933	5.345	593.97626
2.673	30.116124	5.346	821.14689	5.346	531.86607	5.346	592.24092
2.6735	29.750862	5.347	821.80859	5.347	530.71497	5.347	589.00603
2.674	28.373321	5.348	822.38789	5.348	528.22054	5.348	584.50476
2.6745	25.849669	5.349	822.85628	5.349	524.64896	5.349	579.22204
2.675	22.157274	5.35	823.17252	5.35	520.43343	5.35	573.82072
2.6755	17.42849	5.351	823.30437	5.351	516.10808	5.351	569.01537
2.676	11.961739	5.352	823.24773	5.352	512.21906	5.352	565.42623
2.6765	6.1975225	5.353	823.03541	5.353	509.23073	5.353	563.45636

2.677 0.6666946	5.354 822.73399	5.354 507.44978	5.354 563.23017
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2.679 -9.18952	5.358 822.55208	5.358 512.11265	5.358 574.95869
2.6795 -7.21681	5.359 823.24391	5.359 515.06157	5.359 579.31707
2.68 -3.662768	5.36 824.35957	5.36 518.11003	5.36 583.69806
2.6805 0.9485069	5.361 825.88578	5.361 520.96427	5.361 587.90716
2.681 5.9083699	5.362 827.7425	5.362 523.35152	5.362 591.75511
2.6815 10.433083	5.363 829.78808	5.363 525.0338	5.363 595.06674
2.682 13.806975	5.364 831.84347	5.364 525.84175	5.364 597.72648
2.6825 15.527674	5.365 833.72815	5.365 525.72151	5.365 599.73565
2.683 15.41416	5.366 835.29427	5.366 524.7738	5.366 601.24413
2.6835 13.643873	5.367 836.44567	5.367 523.2598	5.367 602.52819
2.684 10.703353	5.368 837.13645	5.368 521.55833	5.368 603.91234
2.6845 7.26247	5.369 837.35412	5.369 520.07826	5.369 605.66192
2.685 4.0065452	5.37 837.10037	5.37 519.15055	5.37 607.88941
2.6855 1.4750205	5.371 836.3823	5.371 518.93688	5.371 610.51309
2.686 -0.045829	5.372 835.21998	5.372 519.38849	5.372 613.28422
2.6865 -0.545864	5.373 833.66565	5.373 520.27285	5.373 615.8706
2.687 -0.227503	5.374 831.82201	5.374 521.2611	5.374 617.96315
2.6875 0.6174154	5.375 829.84619	5.375 522.04799	5.375 619.36692
2.688 1.7438987	5.376 827.93225	5.376 522.46384	5.376 620.04784
2.6885 3.0546514	5.377 826.27508	5.377 522.54	5.377 620.12622
2.689 4.6329041	5.378 825.02761	5.378 522.50369	5.378 619.82665
2.6895 6.7016942	5.379 824.26624	5.379 522.70075	5.379 619.40592
2.69 9.5309627	5.38 823.97688	5.38 523.46936	5.38 619.08277
2.6905 13.330055	5.381 824.06609	5.381 525.00568	5.381 618.98809
2.691 18.163844	5.382 824.39378	5.382 527.2684	5.382 619.14457
2.6915 23.917777	5.383 824.81692	5.383 529.95787	5.383 619.47519
2.692 30.317591	5.384 825.2312	5.384 532.58093	5.384 619.83245
2.6925 36.99121	5.385 825.59789	5.385 534.58251	5.385 620.0373
2.693 43.549018	5.386 825.94751	5.386 535.50086	5.386 619.91715
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2.694 55.079473	5.388 826.91815	5.388 533.41201	5.388 618.22535
2.6945 59.692674	5.389 827.67635	5.389 530.76048	5.389 616.58989
2.695 63.456612	5.39 828.61284	5.39 527.6368	5.39 614.53587
2.6955 66.375686	5.391 829.62597	5.391 524.60358	5.391 612.27062
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2.6965 69.678266	5.393 831.19342	5.393 520.73436	5.393 608.3529
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2.7025 25.242058	5.405 826.34297	5.405 540.51822	5.405 626.53967
2.703 21.823023	5.406 830.51697	5.406 538.98324	5.406 625.22832
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2.704 17.981093	5.408 840.94528	5.408 534.92244	5.408 620.95066
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2.705 18.183704	5.41 850.40109	5.41 532.19641	5.41 616.55314
2.7055 19.5989	5.411 853.33418	5.411 532.24397	5.411 615.32627
2.706 21.631094	5.412 854.60388	5.412 533.44574	5.412 615.24237
2.7065 23.980302	5.413 854.17877	5.413 535.69219	5.413 616.47659
2.707 26.282315	5.414 852.27966	5.414 538.65761	5.414 618.94752
2.7075 28.152528	5.415 849.30331	5.415 541.86006	5.415 622.29756
2.708 29.242301	5.416 845.71226	5.416 544.76034	5.416 625.95254
2.7085 29.290014	5.417 841.93086	5.417 546.87483	5.417 629.2522
2.709 28.150582	5.418 838.28134	5.418 547.87129	5.418 631.61473
2.7095 25.797626	5.419 834.97249	5.419 547.62079	5.419 632.68397
2.71 22.305813	5.42 832.12906	5.42 546.19227	5.42 632.41323
2.7105 17.82916	5.421 829.83423	5.421 543.79628	5.421 631.06364
2.711 12.589032	5.422 828.15834	5.422 540.70273	5.422 629.1254
2.7115 6.8743219	5.423 827.16203	5.423 537.1659	5.423 627.19356
2.712 1.0430546	5.424 826.88075	5.424 533.38373	5.424 625.83781
2.7125 -4.491746	5.425 827.30955	5.425 529.4997	5.425 625.49771
2.713 -9.303874	5.426 828.40516	5.426 525.63482	5.426 626.41881
2.7135 -13.02092	5.427 830.10956	5.427 521.9238	5.427 628.63017
2.714 -15.3984	5.428 832.38267	5.428 518.53158	5.428 631.95592
2.7145 -16.37537	5.429 835.22341	5.429 515.6405	5.429 636.05264
2.715 -16.09034	5.43 838.66119	5.43 513.41591	5.43 640.46672
2.7155 -14.85005	5.431 842.71412	5.431 511.96884	5.431 644.707
2.716 -13.06007	5.432 847.3281	5.432 511.33393	5.432 648.32583
2.7165 -11.13745	5.433 852.323	5.433 511.47051	5.433 650.99723
2.717 -9.428368	5.434 857.37326	5.434 512.28314	5.434 652.57675
2.7175 -8.149191	5.435 862.03846	5.435 513.64999	5.435 653.12757
2.718 -7.361333	5.436 865.8408	5.436 515.44729	5.436 652.90211
2.7185 -6.981536	5.437 868.36744	5.437 517.56255	5.437 652.27918
2.719 -6.82274	5.438 869.36592	5.438 519.89589	5.438 651.66956
2.7195 -6.655442	5.439 868.80288	5.439 522.3534	5.439 651.41366
2.72 -6.275532	5.44 866.87015	5.44 524.83858	5.44 651.70019
2.7205 -5.562427	5.441 863.9411	5.441 527.24808	5.441 652.52925
2.721 -4.512271	5.442 860.49597	5.442 529.47565	5.442 653.73042
2.7215 -3.236445	5.443 857.04049	5.443 531.42564	5.443 655.02864
2.722 -1.925232	5.444 854.03692	5.444 533.0329	5.444 656.13511
2.7225 -0.787468	5.445 851.85453	5.445 534.28287	5.445 656.83287
2.723 0.0148031	5.446 850.73532	5.446 535.22288	5.446 657.03023
2.7235 0.4159202	5.447 850.76803	5.447 535.95734	5.447 656.76773
2.724 0.4651734	5.448 851.8692	5.448 536.6236	5.448 656.18205
2.7245 0.309513	5.449 853.78085	5.449 537.3521	5.449 655.44534
2.725 0.1468457	5.45 856.09992	5.45 538.22127	5.45 654.70517
2.7255 0.1647569	5.451 858.34975	5.451 539.22109	5.451 654.0468
2.726 0.4829899	5.452 860.08714	5.452 540.23887	5.452 653.48698
2.7265 1.1163332	5.453 861.01894	5.453 541.07515	5.453 652.99458
2.727 1.9684742	5.454 861.08923	5.454 541.48897	5.454 652.52392
2.7275 2.8583373	5.455 860.50219	5.455 541.26238	5.455 652.04559

2.728 3.5707281	5.456 859.66622	5.456 540.26688	5.456 651.56633
2.7285 3.9157768	5.457 859.07402	5.457 538.51196	5.457 651.1379
2.729 3.7794447	5.458 859.15781	5.458 536.16028	5.458 650.85941
2.7295 3.1511375	5.459 860.1674	5.459 533.50324	5.459 650.87548
2.73 2.1225544	5.46 862.10844	5.46 530.90311	5.46 651.36649
2.7305 0.8608525	5.461 864.75377	5.461 528.71823	5.461 652.52292
2.731 -0.434239	5.462 867.71479	5.462 527.23268	5.462 654.49907
2.7315 -1.577032	5.463 870.54294	5.463 526.60866	5.463 657.35176
2.732 -2.434689	5.464 872.82882	5.464 526.87135	5.464 660.98274
2.7325 -2.949789	5.465 874.27721	5.465 527.92419	5.465 665.1102
2.733 -3.142816	5.466 874.75035	5.466 529.58411	5.466 669.28954
2.7335 -3.096236	5.467 874.28309	5.467 531.6221	5.467 672.98796
2.734 -2.92726	5.468 873.07611	5.468 533.79758	5.468 675.6968
2.7345 -2.759905	5.469 871.4698	5.469 535.88121	5.469 677.05071
2.735 -2.706447	5.47 869.8969	5.47 537.66803	5.47 676.91918
2.7355 -2.86331	5.471 868.81315	5.471 538.98653	5.471 675.44431
2.736 -3.318594	5.472 868.61245	5.472 539.70972	5.472 673.01538
2.7365 -4.161631	5.473 869.54337	5.473 539.7704	5.473 670.18769
2.737 -5.482965	5.474 871.65057	5.474 539.17866	5.474 667.56687
2.7375 -7.357429	5.475 874.76096	5.475 538.03582	5.475 665.68603
2.738 -9.811872	5.476 878.52154	5.476 536.5377	5.476 664.90212
2.7385 -12.78836	5.477 882.47788	5.477 534.96095	5.477 665.33174
2.739 -16.11875	5.478 886.16854	5.478 533.62939	5.478 666.83577
2.7395 -19.52469	5.479 889.20753	5.479 532.86262	5.479 669.05188
2.74 -22.64916	5.48 891.3352	5.48 532.9151	5.48 671.46494
2.7405 -25.11391	5.481 892.43253	5.481 533.91988	5.481 673.50094
2.741 -26.58783	5.482 892.50719	5.482 535.85297	5.482 674.62954
2.7415 -26.84675	5.483 891.6659	5.483 538.53108	5.483 674.46154
2.742 -25.80852	5.484 890.08609	5.484 541.64576	5.484 672.82843
2.7425 -23.53636	5.485 887.99322	5.485 544.82496	5.485 669.83086
2.743 -20.21513	5.486 885.64336	5.486 547.7033	5.486 665.84285
2.7435 -16.11356	5.487 883.30785	5.487 549.98077	5.487 661.46226
2.744 -11.54743	5.488 881.2561	5.488 551.45624	5.488 657.40815
2.7445 -6.853042	5.489 879.73551	5.489 552.0346	5.489 654.38036
2.745 -2.370249	5.49 878.94863	5.49 551.71642	5.49 652.91185
2.7455 1.5748334	5.491 879.02993	5.491 550.58187	5.491 653.25227
2.746 4.6992757	5.492 880.02505	5.492 548.77544	5.492 655.31665
2.7465 6.8099335	5.493 881.8773	5.493 546.49007	5.493 658.71533
2.747 7.8589231	5.494 884.4265	5.494 543.94483	5.494 662.85615
2.7475 7.9871998	5.495 887.42466	5.495 541.35364	5.495 667.08768
2.748 7.5314636	5.496 890.56925	5.496 538.89072	5.496 670.84095
2.7485 6.977942	5.497 893.54957	5.497 536.66582	5.497 673.73182
2.749 6.8647718	5.498 896.0961	5.498 534.7223	5.498 675.60252
2.7495 7.6549527	5.499 898.02083	5.499 533.0624	5.499 676.50264
2.75 9.6151956	5.5 899.23846	5.5 531.69115	5.5 676.62704
2.7505 12.736915	5.501 899.76455	5.501 530.65945	5.501 676.2369
2.751 16.724219	5.502 899.69432	5.502 530.0843	5.502 675.58862
2.7515 21.054841	5.503 899.17112	5.503 530.13136	5.503 674.88711
2.752 25.100013	5.504 898.3555	5.504 530.95886	5.504 674.26832
2.7525 28.273766	5.505 897.40332	5.505 532.63807	5.505 673.8061
2.753 30.174305	5.506 896.45648	5.506 535.07643	5.506 673.53157

2.7535 30.681331	5.507 895.64449	5.507 537.97191	5.507 673.45281
2.754 29.983358	5.508 895.09127	5.508 540.81902	5.508 673.56629
2.7545 28.526419	5.509 894.92029	5.509 542.97075	5.509 673.85904
2.755 26.89637	5.51 895.25257	5.51 543.74233	5.51 674.30626
2.7555 25.665585	5.511 896.1951	5.511 542.52895	5.511 674.871
2.756 25.245511	5.512 897.82154	5.512 538.9057	5.512 675.50942
2.7565 25.785343	5.513 900.15003	5.513 532.6857	5.513 676.17878
2.757 27.143917	5.514 903.12485	5.514 523.92694	5.514 676.84143
2.7575 28.940714	5.515 906.60785	5.515 512.89491	5.515 677.45921
2.758 30.668977	5.516 910.38361	5.516 499.99834	5.516 677.97934
2.7585 31.836321	5.517 914.17883	5.517 485.71776	5.517 678.32129
2.759 32.091025	5.518 917.69363	5.518 470.54191	5.518 678.3781
2.7595 31.297524	5.519 920.64029	5.519 454.91946	5.519 678.04088
2.76 29.541092	5.52 922.78344	5.52 439.22756	5.52 677.24313
2.7605 27.064324	5.521 923.97541	5.521 423.75652	5.521 676.0082
2.761 24.159885	5.522 924.17957	5.522 408.70933	5.522 674.47617
2.7615 21.057773	5.523 923.47529	5.523 394.21479	5.523 672.89204
2.762 17.846179	5.524 922.04016	5.524 380.35092	5.524 671.55273
2.7625 14.452563	5.525 920.11021	5.525 367.17182	5.525 670.72957
2.763 10.689973	5.526 917.92652	5.526 354.72906	5.526 670.59434
2.7635 6.3506689	5.527 915.68333	5.527 343.07868	5.527 671.17639
2.764 1.3131122	5.528 913.49522	5.528 332.26939	5.528 672.36455
2.7645 -4.375081	5.529 911.39621	5.529 322.31448	5.529 673.94958
2.765 -10.46545	5.53 909.37147	5.53 313.15786	5.53 675.68869
2.7655 -16.53606	5.531 907.40841	5.531 304.6502	5.531 677.36883
2.766 -22.06516	5.532 905.54436	5.532 296.55183	5.532 678.85111
2.7665 -26.52462	5.533 903.88829	5.533 288.57267	5.533 680.08847
2.767 -29.4654	5.534 902.60545	5.534 280.44638	5.534 681.11778
2.7675 -30.57663	5.535 901.87038	5.535 272.02024	5.535 682.03326
2.768 -29.71464	5.536 901.80824	5.536 263.32935	5.536 682.94921
2.7685 -26.90899	5.537 902.44994	5.537 254.6224	5.537 683.96081
2.769 -22.35524	5.538 903.71963	5.538 246.31858	5.538 685.11151
2.7695 -16.39831	5.539 905.45914	5.539 238.89976	5.539 686.37564
2.77 -9.502554	5.54 907.47827	5.54 232.76815	5.54 687.66211
2.7705 -2.202034	5.541 909.61029	5.541 228.11686	5.541 688.83919
2.771 4.9699756	5.542 911.75137	5.542 224.85879	5.542 689.77344
2.7715 11.561311	5.543 913.8702	5.543 222.63983	5.543 690.37026
2.772 17.269892	5.544 915.98625	5.544 220.93148	5.544 690.60274
2.7725 21.978359	5.545 918.12771	5.545 219.17069	5.545 690.52044
2.773 25.74105	5.546 920.28831	5.546 216.90039	5.546 690.23699
2.7735 28.727374	5.547 922.40373	5.547 213.86808	5.547 689.9027
2.774 31.142828	5.548 924.36088	5.548 210.05843	5.548 689.67152
2.7745 33.157455	5.549 926.03925	5.549 205.65977	5.549 689.67111
2.775 34.867236	5.55 927.36776	5.55 200.9848	5.55 689.9816
2.7755 36.298633	5.551 928.3706	5.551 196.37591	5.551 690.62444
2.776 37.447195	5.552 929.17711	5.552 192.12443	5.552 691.56001
2.7765 38.326634	5.553 929.98488	5.553 188.42243	5.553 692.6913
2.777 39.001726	5.554 930.98568	5.554 185.3516	5.554 693.87192
2.7775 39.587732	5.555 932.28213	5.555 182.90055	5.555 694.91837
2.778 40.216303	5.556 933.82888	5.556 180.99508	5.556 695.62861
2.7785 40.984614	5.557 935.42409	5.557 179.52624	5.557 695.80948

2.779 41.913026	5.558 936.75747	5.558 178.36807	5.558 695.31348
2.7795 42.933051	5.559 937.49958	5.559 177.38616	5.559 694.08062
2.78 43.913525	5.56 937.40184	5.56 176.44468	5.56 692.17565
2.7805 44.715164	5.561 936.3739	5.561 175.42025	5.561 689.80756
2.781 45.249948	5.562 934.51457	5.562 174.22573	5.562 687.31888
2.7815 45.518209	5.563 932.09034	5.563 172.83918	5.563 685.13867
2.782 45.604809	5.564 929.47304	5.564 171.32646	5.564 683.70293
2.7825 45.633298	5.565 927.06044	5.565 169.84546	5.565 683.35778
2.783 45.696423	5.566 925.20419	5.566 168.62413	5.566 684.26982
2.7835 45.794352	5.567 924.16168	5.567 167.91371	5.567 686.37134
2.784 45.811967	5.568 924.07572	5.568 167.92777	5.568 689.36274
2.7845 45.551981	5.569 924.97549	5.569 168.78335	5.569 692.7805
2.785 44.816505	5.57 926.78841	5.57 170.46053	5.57 696.11863
2.7855 43.506306	5.571 929.35589	5.571 172.79142	5.571 698.97219
2.786 41.695457	5.572 932.45241	5.572 175.48007	5.572 701.15934
2.7865 39.646104	5.573 935.81095	5.573 178.14665	5.573 702.78028
2.787 37.751633	5.574 939.15689	5.574 180.38381	5.574 704.18904
2.7875 36.42618	5.575 942.24596	5.575 181.81334	5.575 705.88128
2.788 35.980452	5.576 944.89668	5.576 182.13461	5.576 708.33005
2.7885 36.527962	5.577 947.00627	5.577 181.16017	5.577 711.81998
2.789 37.951255	5.578 948.54483	5.578 178.83621	5.578 716.33234
2.7895 39.932868	5.579 949.53166	5.579 175.24529	5.579 721.51698
2.79 42.033311	5.58 950.00487	5.58 170.58844	5.58 726.75966
2.7905 43.78773	5.581 949.99726	5.581 165.14608	5.581 731.32419
2.791 44.795695	5.582 949.52722	5.582 159.22271	5.582 734.52846
2.7915 44.788894	5.583 948.60621	5.583 153.08796	5.583 735.90699
2.792 43.671353	5.584 947.25796	5.584 146.93113	5.584 735.32053
2.7925 41.531345	5.585 945.54159	5.585 140.84514	5.585 732.98898
2.793 38.624294	5.586 943.56993	5.586 134.84646	5.586 729.44366
2.7935 35.326436	5.587 941.51574	5.587 128.92441	5.587 725.41192
2.794 32.063292	5.588 939.6002	5.588 123.10125	5.588 721.66056
2.7945 29.224994	5.589 938.0622	5.589 117.4794	5.589 718.83274
2.795 27.087742	5.59 937.11269	5.59 112.25673	5.59 717.31472
2.7955 25.762323	5.591 936.88481	5.591 107.70303	5.591 717.16343
2.796 25.184435	5.592 937.39457	5.592 104.10541	5.592 718.11214
2.7965 25.149544	5.593 938.52511	5.593 101.70101	5.593 719.6525
2.797 25.382123	5.594 940.04095	5.594 100.6185	5.594 721.17157
2.7975 25.620195	5.595 941.62958	5.595 100.84407	5.595 722.10834
2.798 25.693748	5.596 942.9601	5.596 102.21795	5.596 722.09057
2.7985 25.579265	5.597 943.7457	5.597 104.45744	5.597 721.01943
2.799 25.419859	5.598 943.79749	5.598 107.19753	5.598 719.08447
2.7995 25.508147	5.599 943.0598	5.599 110.04002	5.599 716.70913
2.8 26.23534	5.6 941.62075	5.6 112.60553	5.6 714.44311
2.8005 28.014491	5.601 939.69498	5.601 114.58466	5.601 712.8292
2.801 31.18947	5.602 937.58037	5.602 115.78432	5.602 712.27691
2.8015 35.944763	5.603 935.59685	5.603 116.16146	5.603 712.97233
2.802 42.234229	5.604 934.02082	5.604 115.83379	5.604 714.84381
2.8025 49.747557	5.605 933.03149	5.605 115.05782	5.605 717.58803
2.803 57.928675	5.606 932.68265	5.606 114.17152	5.606 720.74515
2.8035 66.049741	5.607 932.90576	5.607 113.51048	5.607 723.80084
2.804 73.329562	5.608 933.54022	5.608 113.31865	5.608 726.28971

2.8045 79.071195	5.609 934.37961	5.609 113.68099	5.609 727.87934
2.805 82.785938	5.61 935.21941	5.61 114.5023	5.61 728.42233
2.8055 84.273379	5.611 935.89485	5.611 115.54233	5.611 727.97138
2.806 83.639303	5.612 936.30309	5.612 116.4967	5.612 726.75746
2.8065 81.250612	5.613 936.40968	5.613 117.09484	5.613 725.13476
2.807 77.643034	5.614 936.2431	5.614 117.17824	5.614 723.50134
2.8075 73.40807	5.615 935.88197	5.615 116.73008	5.615 722.2117
2.808 69.087872	5.616 935.43865	5.616 115.84761	5.616 721.50336
2.8085 65.100956	5.617 935.0418	5.617 114.67377	5.617 721.45866
2.809 61.710534	5.618 934.81964	5.618 113.32165	5.618 722.01386
2.8095 59.034291	5.619 934.88572	5.619 111.82711	5.619 723.01011
2.81 57.083444	5.62 935.32869	5.62 110.15075	5.62 724.26512
2.8105 55.812665	5.621 936.20667	5.621 108.22582	5.621 725.63591
2.811 55.162739	5.622 937.5452	5.622 106.02792	5.622 727.04798
2.8115 55.084099	5.623 939.33656	5.623 103.63275	5.623 728.48211
2.812 55.539128	5.624 941.53818	5.624 101.23522	5.624 729.92994
2.8125 56.490246	5.625 944.07003	5.625 99.121989	5.625 731.34412
2.813 57.885269	5.626 946.81326	5.626 97.609928	5.626 732.61213
2.8135 59.649734	5.627 949.61394	5.627 96.976095	5.627 733.57249
2.814 61.689286	5.628 952.29475	5.628 97.404121	5.628 734.07218
2.8145 63.898137	5.629 954.67404	5.629 98.960219	5.629 734.04361
2.815 66.166231	5.63 956.58847	5.63 101.59624	5.63 733.56683
2.8155 68.379978	5.631 957.91387	5.631 105.16622	5.631 732.88446
2.816 70.417437	5.632 958.58021	5.632 109.44195	5.632 732.35385
2.8165 72.144572	5.633 958.57966	5.633 114.12142	5.633 732.34552
2.817 73.420875	5.634 957.96902	5.634 118.83593	5.634 733.11996
2.8175 74.119161	5.635 956.8678	5.635 123.16878	5.635 734.72563
2.818 74.157365	5.636 955.45122	5.636 126.69689	5.636 736.95604
2.8185 73.533295	5.637 953.93511	5.637 129.05552	5.637 739.3844
2.819 72.349454	5.638 952.5499	5.638 130.0121	5.638 741.46908
2.8195 70.815953	5.639 951.50471	5.639 129.52493	5.639 742.69967
2.82 69.224988	5.64 950.9479	5.64 127.76282	5.64 742.74087
2.8205 67.89888	5.641 950.93514	5.641 125.07358	5.641 741.53109
2.821 67.122888	5.642 951.41687	5.642 121.90758	5.642 739.30607
2.8215 67.080653	5.643 952.25221	5.643 118.72033	5.643 736.54009
2.822 67.811372	5.644 953.24744	5.644 115.88533	5.644 733.82176
2.8225 69.202172	5.645 954.20847	5.645 113.64322	5.645 731.70143
2.823 71.018012	5.646 954.99072	5.646 112.0967	5.646 730.5554
2.8235 72.958877	5.647 955.53129	5.647 111.24156	5.647 730.50608
2.824 74.72529	5.648 955.8559	5.648 111.01092	5.648 731.4183
2.8245 76.071991	5.649 956.06325	5.649 111.30933	5.649 732.96786
2.825 76.836496	5.65 956.2977	5.65 112.02406	5.65 734.75587
2.8255 76.940733	5.651 956.72218	5.651 113.01629	5.651 736.43082
2.826 76.374558	5.652 957.49774	5.652 114.10636	5.652 737.78086
2.8265 75.17486	5.653 958.7673	5.653 115.06915	5.653 738.77165
2.827 73.411364	5.654 960.63545	5.654 115.64847	5.654 739.52384
2.8275 71.182278	5.655 963.13816	5.655 115.58905	5.655 740.2438
2.828 68.614556	5.656 966.20529	5.656 114.67684	5.656 741.13384
2.8285 65.859798	5.657 969.62957	5.657 112.77667	5.657 742.31295
2.829 63.079618	5.658 973.0617	5.658 109.85952	5.658 743.77309
2.8295 60.421771	5.659 976.04609	5.659 106.01616	5.659 745.38285

2.83 57.995524	5.66 978.09872	5.66 101.45676	5.66 746.93318
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2.8315 52.429145	5.663 975.53787	5.663 86.979715	5.663 749.34771
2.832 51.0758	5.664 971.84351	5.664 83.259235	5.664 749.17103
2.8325 49.933015	5.665 967.3568	5.665 80.698888	5.665 748.60646
2.833 49.017291	5.666 962.67783	5.666 79.498508	5.666 747.80277
2.8335 48.385768	5.667 958.39432	5.667 79.687625	5.667 746.92825
2.834 48.132823	5.668 954.96293	5.668 81.114627	5.668 746.15133
2.8345 48.378379	5.669 952.62651	5.669 83.470177	5.669 745.62287
2.835 49.247795	5.67 951.38629	5.67 86.34328	5.67 745.4531
2.8355 50.842659	5.671 951.03239	5.671 89.298585	5.671 745.68307
2.836 53.203864	5.672 951.2202	5.672 91.955761	5.672 746.26147
2.8365 56.272875	5.673 951.56872	5.673 94.05025	5.673 747.04206
2.837 59.861647	5.674 951.75395	5.674 95.460944	5.674 747.81148
2.8375 63.643474	5.675 951.57588	5.675 96.202444	5.675 748.34341
2.838 67.174366	5.676 950.98816	5.676 96.391985	5.676 748.46143
2.8385 69.947757	5.677 950.09127	5.677 96.207893	5.677 748.0876
2.839 71.476244	5.678 949.0973	5.678 95.854482	5.678 747.26024
2.8395 71.385214	5.679 948.27702	5.679 95.539619	5.679 746.11796
2.84 69.49732	5.68 947.89891	5.68 95.461449	5.68 744.86093
2.8405 65.885923	5.681 948.16784	5.681 95.795966	5.681 743.70725
2.841 60.881456	5.682 949.17189	5.682 96.679298	5.682 742.85961
2.8415 55.026557	5.683 950.84767	5.683 98.1853	5.683 742.48853
2.842 48.990518	5.684 952.97621	5.684 100.30498	5.684 742.72844
2.8425 43.465494	5.685 955.21861	5.685 102.93569	5.685 743.67742
2.843 39.070642	5.686 957.19051	5.686 105.885	5.686 745.39207
2.8435 36.284173	5.687 958.56094	5.687 108.88965	5.687 747.87518
2.844 35.410382	5.688 959.14689	5.688 111.64775	5.688 751.06047
2.8445 36.575802	5.689 958.97067	5.689 113.86204	5.689 754.80353
2.845 39.741839	5.69 958.25481	5.69 115.29105	5.69 758.88758
2.8455 44.722442	5.691 957.35037	5.691 115.80134	5.691 763.04834
2.846 51.201771	5.692 956.62017	5.692 115.40729	5.692 767.0154
2.8465 58.75349	5.693 956.31842	5.693 114.2814	5.693 770.56082
2.847 66.866535	5.694 956.51219	5.694 112.72188	5.694 773.54156
2.8475 74.98161	5.695 957.07481	5.695 111.07761	5.695 775.92225
2.848 82.539923	5.696 957.75301	5.696 109.64888	5.696 777.76978
2.8485 89.042323	5.697 958.27895	5.697 108.59603	5.697 779.21919
2.849 94.113186	5.698 958.4806	5.698 107.88971	5.698 780.42049
2.8495 97.558643	5.699 958.34566	5.699 107.32353	5.699 781.48292
2.85 99.404046	5.7 958.01597	5.7 106.58725	5.7 782.43435
2.8505 99.894199	5.701 957.71908	5.701 105.3764	5.701 783.2092
2.851 99.445593	5.702 957.6701	5.702 103.50161	5.702 783.66781
2.8515 98.553455	5.703 957.98567	5.703 100.96216	5.703 783.64046
2.852 97.67376	5.704 958.6436	5.704 97.96259	5.704 782.98196
2.8525 97.113447	5.705 959.49931	5.705 94.871211	5.705 781.62102
2.853 96.963438	5.706 960.34732	5.706 92.137233	5.706 779.59235
2.8535 97.096509	5.707 961.00082	5.707 90.192903	5.707 777.04542
2.854 97.230135	5.708 961.36064	5.708 89.365967	5.708 774.2297
2.8545 97.032372	5.709 961.45358	5.709 89.818896	5.709 771.46003
2.855 96.235672	5.71 961.43326	5.71 91.519953	5.71 769.06712

2.8555 94.723552	5.711 961.54799	5.711 94.242916	5.711 767.33995
2.856 92.566837	5.712 962.08656	5.712 97.590214	5.712 766.46877
2.8565 90.003989	5.713 963.31395	5.713 101.03706	5.713 766.50135
2.857 87.377006	5.714 965.40854	5.714 103.99736	5.714 767.32634
2.8575 85.045466	5.715 968.41184	5.715 105.91093	5.715 768.69499
2.858 83.304232	5.716 972.20156	5.716 106.3435	5.716 770.28202
2.8585 82.325566	5.717 976.49742	5.717 105.08012	5.717 771.77284
2.859 82.136439	5.718 980.90292	5.718 102.18482	5.718 772.95164
2.8595 82.630227	5.719 984.97675	5.719 98.002669	5.719 773.76112
2.86 83.602535	5.72 988.31651	5.72 93.095277	5.72 774.31255
2.8605 84.796642	5.721 990.63143	5.721 88.122573	5.721 774.84236
2.861 85.945816	5.722 991.78418	5.722 83.702125	5.722 775.63124
2.8615 86.805885	5.723 991.79352	5.723 80.284145	5.723 776.91448
2.862 87.17842	5.724 990.80457	5.724 78.073084	5.724 778.81343
2.8625 86.928924	5.725 989.04384	5.725 77.010368	5.725 781.30759
2.863 86.003777	5.726 986.77682	5.726 76.815371	5.726 784.24986
2.8635 84.445152	5.727 984.27739	5.727 77.06916	5.727 787.41253
2.864 82.398052	5.728 981.80748	5.728 77.319471	5.728 790.54267
2.8645 80.101304	5.729 979.59869	5.729 77.183591	5.729 793.40673
2.865 77.856966	5.73 977.82968	5.73 76.426702	5.73 795.81234
2.8655 75.979502	5.731 976.60177	5.731 74.997295	5.731 797.60745
2.866 74.734457	5.732 975.92344	5.732 73.010578	5.732 798.66673
2.8665 74.282646	5.733 975.71647	5.733 70.685416	5.733 798.88004
2.867 74.646929	5.734 975.84887	5.734 68.256271	5.734 798.15498
2.8675 75.713485	5.735 976.18719	5.735 65.891602	5.735 796.43786
2.868 77.269292	5.736 976.64952	5.736 63.648486	5.736 793.74771
2.8685 79.065765	5.737 977.23808	5.737 61.479103	5.737 790.21075
2.869 80.889228	5.738 978.03814	5.738 59.283957	5.738 786.08018
2.8695 82.615789	5.739 979.18403	5.739 56.988459	5.739 781.7292
2.87 84.23272	5.74 980.8065	5.74 54.61139	5.74 777.61163
2.8705 85.819555	5.741 982.98234	5.741 52.298405	5.741 774.19361
2.871 87.496233	5.742 985.70326	5.742 50.308054	5.742 771.86848
2.8715 89.357742	5.743 988.87172	5.743 48.955174	5.743 770.8743
2.872 91.420099	5.744 992.31924	5.744 48.530506	5.744 771.23641
2.8725 93.598673	5.745 995.83568	5.745 49.221828	5.745 772.75506
2.873 95.727602	5.746 999.19721	5.746 51.059883	5.746 775.04766
2.8735 97.613145	5.747 1002.1863	5.747 53.903852	5.747 777.63992
2.874 99.100736	5.748 1004.6048	5.748 57.469243	5.748 780.08225
2.8745 100.1307	5.749 1006.2864	5.749 61.389421	5.749 782.05707
2.875 100.76285	5.75 1007.1155	5.75 65.29363	5.75 783.4432
2.8755 101.1624	5.751 1007.0534	5.751 68.88088	5.751 784.31826
2.876 101.55339	5.752 1006.1648	5.752 71.971192	5.752 784.90296
2.8765 102.15491	5.753 1004.6322	5.753 74.522325	5.753 785.47255
2.877 103.11872	5.754 1002.741	5.754 76.609707	5.754 786.27044
2.8775 104.48377	5.755 1000.8314	5.755 78.377195	5.755 787.45267
2.878 106.1575	5.756 999.21989	5.756 79.974155	5.756 789.07397
2.8785 107.92728	5.757 998.11382	5.757 81.497755	5.757 791.10587
2.879 109.49919	5.758 997.54648	5.758 82.957181	5.758 793.46593
2.8795 110.55566	5.759 997.36141	5.759 84.269009	5.759 796.03852
2.88 110.81965	5.76 997.25766	5.76 85.28258	5.76 798.67982
2.8805 110.11145	5.761 996.88712	5.761 85.824628	5.761 801.21422

2.881 108.38685	5.762 995.97447	5.762 85.747291	5.762 803.43703
2.8815 105.75028	5.763 994.4204	5.763 84.964887	5.763 805.13633
2.882 102.44252	5.764 992.35364	5.764 83.471272	5.764 806.13553
2.8825 98.806782	5.765 990.11397	5.765 81.337829	5.765 806.34534
2.883 95.239703	5.766 988.17115	5.766 78.698053	5.766 805.80564
2.8835 92.134687	5.767 987.00385	5.767 75.726132	5.767 804.6986
2.884 89.827091	5.768 986.97338	5.768 72.614786	5.768 803.32326
2.8845 88.551762	5.769 988.22698	5.769 69.554679	5.769 802.03561
2.885 88.422314	5.77 990.65526	5.77 66.716679	5.77 801.17001
2.8855 89.435948	5.771 993.91336	5.771 64.239201	5.771 800.96507
2.886 91.498492	5.772 997.49835	5.772 62.223726	5.772 801.51545
2.8865 94.455974	5.773 1000.8613	5.773 60.739805	5.773 802.76322
2.887 98.116763	5.774 1003.5251	5.774 59.835987	5.774 804.52939
2.8875 102.25507	5.775 1005.18	5.775 59.547915	5.775 806.57321
2.888 106.59981	5.776 1005.7354	5.776 59.893595	5.776 808.65865
2.8885 110.82531	5.777 1005.3206	5.777 60.851176	5.777 810.60568
2.889 114.56402	5.778 1004.2376	5.778 62.325287	5.778 812.31106
2.8895 117.45329	5.779 1002.8818	5.779 64.118819	5.779 813.73488
2.89 119.21052	5.78 1001.6486	5.78 65.931386	5.78 814.86253
2.8905 119.71434	5.781 1000.8481	5.781 67.399508	5.781 815.66157
2.891 119.06121	5.782 1000.6429	5.782 68.177553	5.782 816.05553
2.8915 117.57287	5.783 1001.0227	5.783 68.039009	5.783 815.93167
2.892 115.74645	5.784 1001.8188	5.784 66.963275	5.784 815.18594
2.8925 114.15866	5.785 1002.758	5.785 65.171661	5.785 813.7922
2.893 113.34886	5.786 1003.5415	5.786 63.089978	5.786 811.86835
2.8935 113.70966	5.787 1003.9325	5.787 61.240326	5.787 809.7071
2.894 115.40875	5.788 1003.8275	5.788 60.091995	5.788 807.74731
2.8945 118.35588	5.789 1003.2892	5.789 59.919833	5.789 806.482
2.895 122.21905	5.79 1002.5273	5.79 60.719607	5.79 806.32441
2.8955 126.4857	5.791 1001.8311	5.791 62.21205	5.791 807.47436
2.896 130.55752	5.792 1001.4726	5.792 63.936547	5.792 809.83265
2.8965 133.86145	5.793 1001.6147	5.793 65.403438	5.793 812.99882
2.897 135.95497	5.794 1002.2588	5.794 66.253202	5.794 816.36061
2.8975 136.60268	5.795 1003.2531	5.795 66.369378	5.795 819.25071
2.898 135.80623	5.796 1004.3621	5.796 65.909996	5.796 821.12312
2.8985 133.78103	5.797 1005.3701	5.797 65.25182	5.797 821.69417
2.899 130.88758	5.798 1006.1795	5.798 64.870973	5.798 821.00683
2.8995 127.53834	5.799 1006.8627	5.799 65.201764	5.799 819.40417
2.9 124.10739	5.8 1007.6457	5.8 66.517377	5.8 817.42784
2.9005 120.867	5.801 1008.8285	5.801 68.863472	5.801 815.67909
2.901 117.96383	5.802 1010.6706	5.802 72.055578	5.802 814.68564
2.9015 115.43289	5.803 1013.287	5.803 75.731898	5.803 814.80853
2.902 113.23494	5.804 1016.5893	5.804 79.440631	5.804 816.20384
2.9025 111.29819	5.805 1020.293	5.805 82.736799	5.805 818.8348
2.903 109.5488	5.806 1023.9858	5.806 85.266327	5.806 822.51628
2.9035 107.9243	5.807 1027.2288	5.807 86.821788	5.807 826.9696
2.904 106.37513	5.808 1029.6609	5.808 87.362554	5.808 831.86981
2.9045 104.86582	5.809 1031.0741	5.809 87.000517	5.809 836.87595
2.905 103.38568	5.81 1031.4448	5.81 85.959735	5.81 841.64417
2.9055 101.97068	5.811 1030.9206	5.811 84.522985	5.811 845.83012
2.906 100.72593	5.812 1029.771	5.812 82.978933	5.812 849.09075

2.9065 99.831081	5.813 1028.3218	5.813 81.580256	5.813 851.09598
2.907 99.512692	5.814 1026.8866	5.814 80.517011	5.814 851.55768
2.9075 99.980231	5.815 1025.714	5.815 79.903553	5.815 850.27727
2.908 101.34115	5.816 1024.9548	5.816 79.774158	5.816 847.20482
2.9085 103.52558	5.817 1024.6571	5.817 80.083676	5.817 842.49387
2.909 106.25494	5.818 1024.7826	5.818 80.713608	5.818 836.53113
2.9095 109.07676	5.819 1025.2381	5.819 81.487839	5.819 829.92152
2.91 111.46461	5.82 1025.9087	5.82 82.202087	5.82 823.41876
2.9105 112.95634	5.821 1026.6815	5.821 82.66592	5.821 817.80766
2.911 113.2866	5.822 1027.4527	5.822 82.748148	5.822 813.76151
2.9115 112.46849	5.823 1028.1222	5.823 82.410861	5.823 811.7103
2.912 110.79414	5.824 1028.584	5.824 81.718372	5.824 811.75697
2.9125 108.75107	5.825 1028.7272	5.825 80.815681	5.825 813.66768
2.913 106.87877	5.826 1028.4548	5.826 79.882714	5.826 816.94111
2.9135 105.61065	5.827 1027.719	5.827 79.07959	5.827 820.93822
2.914 105.15152	5.828 1026.559	5.828 78.500495	5.828 825.03522
2.9145 105.42945	5.829 1025.1204	5.829 78.149247	5.829 828.75669
2.915 106.13627	5.83 1023.6405	5.83 77.941874	5.83 831.85401
2.9155 106.84126	5.831 1022.3968	5.831 77.734066	5.831 834.31308
2.916 107.13817	5.832 1021.6297	5.832 77.366151	5.832 836.29829
2.9165 106.77522	5.833 1021.4683	5.833 76.714567	5.833 838.05794
2.917 105.7247	5.834 1021.8858	5.834 75.736174	5.834 839.82527
2.9175 104.17229	5.835 1022.703	5.835 74.490783	5.835 841.74624
2.918 102.43578	5.836 1023.6427	5.836 73.130616	5.836 843.85376
2.9185 100.84873	5.837 1024.4163	5.837 71.854507	5.837 846.09061
2.919 99.654807	5.838 1024.8145	5.838 70.838103	5.838 848.3669
2.9195 98.950827	5.839 1024.7723	5.839 70.163661	5.839 850.62564
2.92 98.693644	5.84 1024.388	5.84 69.777662	5.84 852.88791
2.9205 98.759461	5.841 1023.8912	5.841 69.497053	5.841 855.25708
2.921 99.025045	5.842 1023.5714	5.842 69.067031	5.842 857.87877
2.9215 99.436475	5.843 1023.6907	5.843 68.252141	5.843 860.87175
2.922 100.04188	5.844 1024.4084	5.844 66.927784	5.844 864.25762
2.9225 100.983	5.845 1025.7401	5.845 65.138113	5.845 867.91759
2.923 102.4563	5.846 1027.5632	5.846 63.099418	5.846 871.59328
2.9235 104.66154	5.847 1029.6644	5.847 61.149023	5.847 874.93089
2.924 107.7526	5.848 1031.8123	5.848 59.658832	5.848 877.55337
2.9245 111.79777	5.849 1033.8305	5.849 58.941801	5.849 879.13792
2.925 116.75032	5.85 1035.6471	5.85 59.176821	5.85 879.47904
2.9255 122.42927	5.851 1037.3055	5.851 60.366762	5.851 878.52464
2.926 128.51419	5.852 1038.9357	5.852 62.332803	5.852 876.38206
2.9265 134.56133	5.853 1040.6968	5.853 64.740891	5.853 873.29717
2.927 140.04797	5.854 1042.7101	5.854 67.154027	5.854 869.61371
2.9275 144.44414	5.855 1045.0039	5.855 69.103775	5.855 865.72176
2.928 147.29973	5.856 1047.4869	5.856 70.172336	5.856 862.00478
2.9285 148.32564	5.857 1049.9566	5.857 70.071881	5.857 858.79351
2.929 147.44547	5.858 1052.1392	5.858 68.703533	5.858 856.33264
2.9295 144.802	5.859 1053.7506	5.859 66.178996	5.859 854.76271
2.93 140.71756	5.86 1054.5617	5.86 62.795858	5.86 854.11619
2.9305 135.62269	5.861 1054.4497	5.861 58.971322	5.861 854.32482
2.931 129.97707	5.862 1053.4269	5.862 55.152931	5.862 855.23459
2.9315 124.20609	5.863 1051.6396	5.863 51.732259	5.863 856.62542

2.932 118.66611	5.864 1049.3431	5.864 48.984828	5.864 858.23421
2.9325 113.63812	5.865 1046.8601	5.865 47.047756	5.865 859.78082
2.933 109.33754	5.866 1044.5331	5.866 45.93138	5.866 860.99769
2.9335 105.92447	5.867 1042.676	5.867 45.549491	5.867 861.66258
2.934 103.50303	5.868 1041.5297	5.868 45.750214	5.868 861.63211
2.9345 102.10899	5.869 1041.2224	5.869 46.33641	5.869 860.87018
2.935 101.69453	5.87 1041.7404	5.87 47.076625	5.87 859.4629
2.9355 102.12376	5.871 1042.9174	5.871 47.717606	5.871 857.61159
2.936 103.18874	5.872 1044.4563	5.872 48.011401	5.872 855.60032
2.9365 104.64613	5.873 1045.9885	5.873 47.762152	5.873 853.74198
2.937 106.26346	5.874 1047.1657	5.874 46.883965	5.874 852.3152
2.9375 107.85802	5.875 1047.7605	5.875 45.44926	5.875 851.50895
2.938 109.31472	5.876 1047.7404	5.876 43.704045	5.876 851.39052
2.9385 110.57921	5.877 1047.2838	5.877 42.035399	5.877 851.90503
2.939 111.63574	5.878 1046.7236	5.878 40.89375	5.878 852.90436
2.9395 112.48632	5.879 1046.4352	5.879 40.690454	5.879 854.19441
2.94 113.14558	5.88 1046.7079	5.88 41.701298	5.88 855.58433
2.9405 113.65456	5.881 1047.648	5.881 44.004512	5.881 856.92335
2.941 114.10296	5.882 1049.1492	5.882 47.468957	5.882 858.11671
2.9415 114.64039	5.883 1050.9368	5.883 51.790485	5.883 859.12095
2.942 115.46005	5.884 1052.6625	5.884 56.559712	5.884 859.9261
2.9425 116.75116	5.885 1054.0084	5.885 61.337919	5.885 860.53593
2.943 118.63431	5.886 1054.7578	5.886 65.720855	5.886 860.95711
2.9435 121.10614	5.887 1054.8126	5.887 69.380022	5.887 861.20337
2.944 124.01984	5.888 1054.1581	5.888 72.082128	5.888 861.31445
2.9445 127.1146	5.889 1052.8023	5.889 73.69488	5.889 861.38199
2.945 130.08567	5.89 1050.7229	5.89 74.188041	5.89 861.56951
2.9455 132.66911	5.891 1047.8497	5.891 73.63356	5.891 862.1125
2.946 134.70825	5.892 1044.0888	5.892 72.201418	5.892 863.28883
2.9465 136.17762	5.893 1039.3791	5.893 70.143419	5.893 865.35924
2.947 137.1585	5.894 1033.7525	5.894 67.758805	5.894 868.48916
2.9475 137.78016	5.895 1027.3718	5.895 65.34295	5.895 872.67286
2.948 138.15369	5.896 1020.528	5.896 63.129886	5.896 877.68506
2.9485 138.32529	5.897 1013.5949	5.897 61.245906	5.897 883.08142
2.949 138.26609	5.898 1006.9534	5.898 59.691343	5.898 888.25729
2.9495 137.89941	5.899 1000.9086	5.899 58.359963	5.899 892.5576
2.95 137.15261	5.9 995.62324	5.9 57.092807	5.9 895.41266
2.9505 136.01197	5.901 991.08479	5.901 55.750476	5.901 896.46353
2.951 134.55958	5.902 987.1138	5.902 54.279861	5.902 895.63947
2.9515 132.97796	5.903 983.40725	5.903 52.751783	5.903 893.16393
2.952 131.51987	5.904 979.60316	5.904 51.355391	5.904 889.48817
2.9525 130.45218	5.905 975.34839	5.905 50.350256	5.905 885.17655
2.953 129.99136	5.906 970.35443	5.906 49.992119	5.906 880.78222
2.9535 130.2507	5.907 964.43338	5.907 50.457181	5.907 876.7506
2.954 131.2151	5.908 957.51432	5.908 51.789373	5.908 873.37233
2.9545 132.74996	5.909 949.64564	5.909 53.885979	5.909 870.78493
2.955 134.63877	5.91 940.98936	5.91 56.52328	5.91 869.00508
2.9555 136.63448	5.911 931.81046	5.911 59.410896	5.911 867.96836
2.956 138.50651	5.912 922.46005	5.912 62.255415	5.912 867.5595
2.9565 140.06931	5.913 913.34912	5.913 64.812791	5.913 867.62855
2.957 141.18798	5.914 904.91009	5.914 66.91474	5.914 867.99799

2.9575 141.76687	5.915 897.54741	5.915 68.464886	5.915 868.46911
2.958 141.73344	5.916 891.58278	5.916 69.41213	5.916 868.83307
2.9585 141.02948	5.917 887.20444	5.917 69.717483	5.917 868.88735
2.959 139.6156	5.918 884.43199	5.918 69.332937	5.918 868.45543
2.9595 137.48759	5.919 883.10627	5.919 68.205664	5.919 867.40849
2.96 134.69716	5.92 882.90981	5.92 66.309781	5.92 865.68932
2.9605 131.36836	5.921 883.41617	5.921 63.695501	5.921 863.33846
2.961 127.7025	5.922 884.15878	5.922 60.53632	5.922 860.51772
2.9615 123.96742	5.923 884.70399	5.923 57.152584	5.923 857.52017
2.962 120.47044	5.924 884.71128	5.924 53.995166	5.924 854.75163
2.9625 117.51739	5.925 883.96754	5.925 51.584496	5.925 852.67356
2.963 115.36423	5.926 882.39099	5.926 50.414548	5.926 851.71018
2.9635 114.17159	5.927 880.01046	5.927 50.844276	5.927 852.14055
2.964 113.97339	5.928 876.93315	5.928 53.006242	5.928 854.00957
2.9645 114.66806	5.929 873.31502	5.929 56.760696	5.929 857.09196
2.965 116.03402	5.93 869.34273	5.93 61.71246	5.93 860.92856
2.9655 117.76362	5.931 865.22699	5.931 67.290088	5.931 864.92984
2.966 119.50645	5.932 861.19928	5.932 72.867607	5.932 868.51751
2.9665 120.91426	5.933 857.50108	5.933 77.895553	5.933 871.2627
2.967 121.68464	5.934 854.35893	5.934 82.005551	5.934 872.98153
2.9675 121.60329	5.935 851.94675	5.935 85.062509	5.935 873.76521
2.968 120.58388	5.936 850.34595	5.936 87.156512	5.936 873.94279
2.9685 118.69807	5.937 849.51762	5.937 88.545	5.937 873.99357
2.969 116.18417	5.938 849.29877	5.938 89.567405	5.938 874.43628
2.9695 113.42286	5.939 849.42644	5.939 90.5559	5.939 875.72238
2.97 110.87743	5.94 849.58366	5.94 91.759745	5.94 878.15367
2.9705 109.00853	5.941 849.45503	5.941 93.292727	5.941 881.83333
2.971 108.18519	5.942 848.77847	5.942 95.10855	5.942 886.6509
2.9715 108.61764	5.943 847.38376	5.943 97.008189	5.943 892.29651
2.972 110.33129	5.944 845.21464	5.944 98.682379	5.944 898.29974
2.9725 113.18701	5.945 842.33541	5.945 99.787003	5.945 904.09024
2.973 116.93663	5.946 838.92486	5.946 100.03814	5.946 909.07762
2.9735 121.29119	5.947 835.25931	5.947 99.301822	5.947 912.74497
2.974 125.97678	5.948 831.6855	5.948 97.648931	5.948 914.74358
2.9745 130.76055	5.949 828.58307	5.949 95.353406	5.949 914.97005
2.975 135.443	5.95 826.31747	5.95 92.830908	5.95 913.60419
2.9755 139.8274	5.951 825.18548	5.951 90.536694	5.951 911.09097
2.976 143.6865	5.952 825.3583	5.952 88.855624	5.952 908.06217
2.9765 146.74778	5.953 826.83089	5.953 88.017374	5.953 905.21015
2.977 148.71148	5.954 829.38963	5.954 88.05747	5.954 903.14282
2.9775 149.30276	5.955 832.61213	5.955 88.827263	5.955 902.25781
2.978 148.34604	5.956 835.91002	5.956 90.042093	5.956 902.67166
2.9785 145.83906	5.957 838.61674	5.957 91.351245	5.957 904.22471
2.979 142.00091	5.958 840.10913	5.958 92.414261	5.958 906.55905
2.9795 137.27319	5.959 839.93832	5.959 92.970946	5.959 909.24252
2.98 132.26625	5.96 837.93684	5.96 92.8934	5.96 911.89692
2.9805 127.65925	5.961 834.27077	5.961 92.208133	5.961 914.28808
2.981 124.07748	5.962 829.41688	5.962 91.079088	5.962 916.35142
2.9815 121.97868	5.963 824.06511	5.963 89.751183	5.963 918.15226
2.982 121.5763	5.964 818.96803	5.964 88.467915	5.964 919.80504
2.9825 122.81611	5.965 814.7764	5.965 87.38921	5.965 921.38997

2.983 125.40545	5.966 811.90544	5.966 86.539388	5.966 922.90258
2.9835 128.88155	5.967 810.46819	5.967 85.805852	5.967 924.25433
2.984 132.69894	5.968 810.29152	5.968 84.989755	5.968 925.31809
2.9845 136.31848	5.969 811.0035	5.969 83.88921	5.969 925.99274
2.985 139.28721	5.97 812.15902	5.97 82.383187	5.97 926.25497
2.9855 141.30359	5.971 813.36067	5.971 80.485467	5.971 926.17515
2.986 142.26412	5.972 814.33931	5.972 78.351315	5.972 925.89206
2.9865 142.28383	5.973 814.97791	5.973 76.238138	5.973 925.56021
2.987 141.68057	5.974 815.28498	5.974 74.437239	5.974 925.29379
2.9875 140.91535	5.975 815.33977	5.975 73.201499	5.975 925.13031
2.988 140.49128	5.976 815.2352	5.976 72.692	5.976 925.0264
2.9885 140.82929	5.977 815.03771	5.977 72.957367	5.977 924.88471
2.989 142.15234	5.978 814.77132	5.978 73.946804	5.978 924.59976
2.9895 144.41376	5.979 814.42315	5.979 75.545759	5.979 924.1063
2.99 147.2949	5.98 813.96294	5.98 77.615865	5.98 923.41603
2.9905 150.27625	5.981 813.36854	5.981 80.020908	5.981 922.63356
2.991 152.76113	5.982 812.65058	5.982 82.628388	5.982 921.94855
2.9915 154.21498	5.983 811.86989	5.983 85.289062	5.983 921.6053
2.992 154.28002	5.984 811.14161	5.984 87.809336	5.984 921.85411
2.9925 152.83786	5.985 810.6205	5.985 89.937871	5.985 922.89205
2.993 150.01234	5.986 810.46662	5.986 91.384348	5.986 924.8045
2.9935 146.12428	5.987 810.79709	5.987 91.875708	5.987 927.5217
2.994 141.62004	5.988 811.63716	5.988 91.237885	5.988 930.80512
2.9945 136.99614	5.989 812.8877	5.989 89.476552	5.989 934.27379
2.995 132.73404	5.99 814.32425	5.99 86.825073	5.99 937.4717
2.9955 129.24977	5.991 815.63419	5.991 83.73484	5.991 939.96437
2.996 126.85685	5.992 816.48606	5.992 80.800372	5.992 941.4412
2.9965 125.74012	5.993 816.61373	5.993 78.633272	5.993 941.79396
2.997 125.94095	5.994 815.8913	5.994 77.717659	5.994 941.14504
2.9975 127.35799	5.995 814.37618	5.995 78.28863	5.995 939.81244
2.998 129.76777	5.996 812.30633	5.996 80.271092	5.996 938.21899
2.9985 132.86545	5.997 810.05068	5.997 83.299624	5.997 936.77278
2.999 136.31904	5.998 808.02525	5.998 86.815674	5.998 935.75807
2.9995 139.82414	5.999 806.59727	5.999 90.214233	5.999 935.27312
3 143.14423	6 806.00286	6 92.996501	6 935.23549
3.0005 146.12615	6.001 806.29956	6.001 94.883806	6.001 935.45116
3.001 148.68926	6.002 807.36437	6.002 95.861422	6.002 935.72024
3.0015 150.79704	6.003 808.93423	6.003 96.143903	6.003 935.93956
3.002 152.42586	6.004 810.67388	6.004 96.077621	6.004 936.1634
3.0025 153.54528	6.005 812.24983	6.005 96.013448	6.005 936.59952
3.003 154.11717	6.006 813.39078	6.006 96.188694	6.006 937.54099
3.0035 154.11182	6.007 813.92229	6.007 96.65219	6.007 939.25799
3.004 153.53133	6.008 813.77392	6.008 97.252554	6.008 941.88872
3.0045 152.42931	6.009 812.96498	6.009 97.691307	6.009 945.36953
3.005 150.91934	6.01 811.57953	6.01 97.624043	6.01 949.42971
3.0055 149.17186	6.011 809.74178	6.011 96.778974	6.011 953.65227
3.006 147.40401	6.012 807.59977	6.012 95.056863	6.012 957.57768
3.0065 145.86744	6.013 805.32102	6.013 92.581648	6.013 960.81298
3.007 144.83427	6.014 803.09689	6.014 89.685899	6.014 963.11039
3.0075 144.57601	6.015 801.14648	6.015 86.834951	6.015 964.39509
3.008 145.32791	6.016 799.70717	6.016 84.512086	6.016 964.7438

3.0085 147.23668	6.017 799.00147	6.017 83.098572	6.017 964.33358
3.009 150.30025	6.018 799.18001	6.018 82.783711	6.018 963.38671
3.0095 154.31993	6.019 800.25488	6.019 83.530848	6.019 962.13152
3.01 158.89031	6.02 802.05008	6.02 85.108431	6.02 960.78536
3.0105 163.4455	6.021 804.19743	6.021 87.175117	6.021 959.55195
3.011 167.36225	6.022 806.19501	6.022 89.39052	6.022 958.61869
3.0115 170.09756	6.023 807.52235	6.023 91.51428	6.023 958.14205
3.012 171.32087	6.024 807.78222	6.024 93.459604	6.024 958.2198
3.0125 170.9966	6.025 806.82437	6.025 95.283291	6.025 958.86015
3.013 169.3874	6.026 804.80828	6.026 97.117753	6.026 959.96465
3.0135 166.97519	6.027 802.181	6.027 99.072758	6.027 961.33876
3.014 164.32682	6.028 799.57445	6.028 101.14654	6.028 962.73317
3.0145 161.95029	6.029 797.65335	6.029 103.18195	6.029 963.90546
3.015 160.18795	6.03 796.95985	6.03 104.885	6.03 964.68211
3.0155 159.17476	6.031 797.79951	6.031 105.89831	6.031 964.99932
3.016 158.86205	6.032 800.1966	6.032 105.9011	6.032 964.90875
3.0165 159.08274	6.033 803.92208	6.033 104.6991	6.033 964.54678
3.017 159.62391	6.034 808.57438	6.034 102.27452	6.034 964.07857
3.0175 160.27889	6.035 813.67975	6.035 98.783121	6.035 963.63655
3.018 160.86899	6.036 818.77912	6.036 94.505589	6.036 963.27441
3.0185 161.24277	6.037 823.48126	6.037 89.775459	6.037 962.95178
3.019 161.26989	6.038 827.48072	6.038 84.910804	6.038 962.55456
3.0195 160.84427	6.039 830.55515	6.039 80.172228	6.039 961.94329
3.02 159.9012	6.04 832.56205	6.04 75.756931	6.04 961.01204
3.0205 158.44206	6.041 833.4485	6.041 71.823106	6.041 959.73638
3.021 156.5552	6.042 833.27146	6.042 68.525854	6.042 958.19265
3.0215 154.42183	6.043 832.21198	6.043 66.040603	6.043 956.54119
3.022 152.30094	6.044 830.56092	6.044 64.55552	6.044 954.97945
3.0225 150.49289	6.045 828.66347	6.045 64.229556	6.045 953.68203
3.023 149.28645	6.046 826.82941	6.046 65.131381	6.046 952.74923
3.0235 148.89937	6.047 825.23754	6.047 67.18766	6.047 952.18193
3.024 149.42713	6.048 823.87294	6.048 70.169149	6.048 951.89044
3.0245 150.81728	6.049 822.5286	6.049 73.728393	6.049 951.73265
3.025 152.883	6.05 820.87931	6.05 77.479501	6.05 951.56585
3.0255 155.35868	6.051 818.60587	6.051 81.090024	6.051 951.29266
3.026 157.9835	6.052 815.52542	6.052 84.348311	6.052 950.88434
3.0265 160.58521	6.053 811.67955	6.053 87.180771	6.053 950.37383
3.027 163.13203	6.054 807.34857	6.054 89.616992	6.054 949.82408
3.0275 165.73034	6.055 802.98965	6.055 91.724582	6.055 949.2876
3.028 168.56679	6.056 799.12592	6.056 93.547753	6.056 948.77809
3.0285 171.81536	6.057 796.22897	6.057 95.07847	6.057 948.2698
3.029 175.54352	6.058 794.63374	6.058 96.269865	6.058 947.72721
3.0295 179.65083	6.059 794.50487	6.059 97.079322	6.059 947.15119
3.03 183.85939	6.06 795.8499	6.06 97.514367	6.06 946.61668
3.0305 187.75681	6.061 798.55708	6.061 97.654838	6.061 946.27799
3.031 190.87661	6.062 802.43284	6.062 97.638127	6.062 946.33112
3.0315 192.79426	6.063 807.22311	6.063 97.612942	6.063 946.94404
3.032 193.21827	6.064 812.61816	6.064 97.681549	6.064 948.18266
3.0325 192.06099	6.065 818.25238	6.065 97.854671	6.065 949.96489
3.033 189.47733	6.066 823.7139	6.066 98.036602	6.066 952.0638
3.0335 185.86248	6.067 828.57427	6.067 98.045111	6.067 954.1599

3.034 181.80286	6.068 832.43777	6.068 97.657873	6.068 955.92296
3.0345 177.98291	6.069 835.00056	6.069 96.669476	6.069 957.09438
3.035 175.06289	6.07 836.10343	6.07 94.942286	6.07 957.5449
3.0355 173.55525	6.071 835.76155	6.071 92.438977	6.071 957.29533
3.036 173.7318	6.072 834.16031	6.072 89.231301	6.072 956.50104
3.0365 175.58669	6.073 831.61506	6.073 85.485906	6.073 955.40996
3.037 178.86272	6.074 828.50384	6.074 81.432512	6.074 954.30624
3.0375 183.12776	6.075 825.19081	6.075 77.322531	6.075 953.45137
3.038 187.87369	6.076 821.96204	6.076 73.387526	6.076 953.03341
3.0385 192.60771	6.077 818.99218	6.077 69.806762	6.077 953.1347
3.039 196.915	6.078 816.35021	6.078 66.690852	6.078 953.7265
3.0395 200.48697	6.079 814.03929	6.079 64.083983	6.079 954.69359
3.04 203.12269	6.08 812.05296	6.08 61.981467	6.08 955.88299
3.0405 204.71714	6.081 810.42357	6.081 60.354337	6.081 957.16229
3.041 205.24765	6.082 809.24226	6.082 59.170925	6.082 958.46769
3.0415 204.76272	6.083 808.64142	6.083 58.407698	6.083 959.82475
3.042 203.371	6.084 808.74752	6.084 58.047287	6.084 961.3339
3.0425 201.226	6.085 809.62613	6.085 58.067922	6.085 963.12463
3.043 198.50484	6.086 811.24556	6.086 58.432206	6.086 965.2933
3.0435 195.38404	6.087 813.4775	6.087 59.082569	6.087 967.84372
3.044 192.01863	6.088 816.13531	6.088 59.946062	6.088 970.64889
3.0445 188.5305	6.089 819.03199	6.089 60.944999	6.089 973.44589
3.045 185.00932	6.09 822.02923	6.09 62.005808	6.09 975.86821
3.0455 181.52524	6.091 825.05317	6.091 63.059188	6.091 977.51157
3.046 178.14912	6.092 828.0696	6.092 64.030506	6.092 978.02254
3.0465 174.9733	6.093 831.03255	6.093 64.827704	6.093 977.19358
3.047 172.12431	6.094 833.83483	6.094 65.339725	6.094 975.04338
3.0475 169.75893	6.095 836.28959	6.095 65.457202	6.095 971.85996
3.048 168.03887	6.096 838.15719	6.096 65.117563	6.096 968.18711
3.0485 167.08638	6.097 839.2099	6.097 64.362351	6.097 964.74514
3.049 166.9325	6.098 839.30873	6.098 63.382857	6.098 962.2941
3.0495 167.47659	6.099 838.46042	6.099 62.528246	6.099 961.46712
3.05 168.47676	6.1 836.83157	6.1 62.261162	6.1 962.61628
3.0505 169.58351	6.101 834.71515	6.101 63.065473	6.101 965.71572
3.051 170.41493	6.102 832.46358	6.102 65.330574	6.102 970.35301
3.0515 170.6565	6.103 830.41347	6.103 69.247175	6.103 975.81414
3.052 170.1572	6.104 828.82634	6.104 74.746053	6.104 981.2389
3.0525 168.991	6.105 827.85905	6.105 81.496054	6.105 985.80358
3.053 167.46055	6.106 827.56359	6.106 88.957944	6.106 988.88336
3.0535 166.03618	6.107 827.90559	6.107 96.474872	6.107 990.15824
3.054 165.24258	6.108 828.78723	6.108 103.37348	6.108 989.64556
3.0545 165.52211	6.109 830.06471	6.109 109.05234	6.109 987.66261
3.055 167.11125	6.11 831.55857	6.11 113.04326	6.11 984.73617
3.0555 169.96364	6.111 833.06201	6.111 115.04139	6.111 981.48289
3.056 173.74024	6.112 834.35535	6.112 114.90888	6.112 978.48513
3.0565 177.87006	6.113 835.2317	6.113 112.6616	6.113 976.18563
3.057 181.66723	6.114 835.53267	6.114 108.44974	6.114 974.82026
3.0575 184.47816	6.115 835.18592	6.115 102.5405	6.115 974.40092
3.058 185.82566	6.116 834.23243	6.116 95.305886	6.116 974.74983
3.0585 185.51764	6.117 832.83228	6.117 87.212559	6.117 975.57368
3.059 183.69444	6.118 831.24273	6.118 78.805672	6.118 976.5557

3.0595 180.80126	6.119 829.77029	6.119 70.677787	6.119 977.43995
3.06 177.48853	6.12 828.70661	6.12 63.417668	6.12 978.0865
3.0605 174.46089	6.121 828.26314	6.121 57.541573	6.121 978.48821
3.061 172.30968	6.122 828.52105	6.122 53.418051	6.122 978.75255
3.0615 171.37105	6.123 829.40952	6.123 51.202862	6.123 979.06156
3.062 171.64706	6.124 830.71898	6.124 50.801167	6.124 979.62525
3.0625 172.81247	6.125 832.14729	6.125 51.869985	6.125 980.64015
3.063 174.30612	6.126 833.36882	6.126 53.866761	6.126 982.2579
3.0635 175.48205	6.127 834.11113	6.127 56.141293	6.127 984.56406
3.064 175.77757	6.128 834.22177	6.128 58.058844	6.128 987.56594
3.0645 174.85069	6.129 833.70907	6.129 59.132459	6.129 991.18862
3.065 172.65028	6.13 832.74629	6.13 59.13449	6.13 995.27995
3.0655 169.4047	6.131 831.63538	6.131 58.155377	6.131 999.62431
3.066 165.54155	6.132 830.73687	6.132 56.586241	6.132 1003.964
3.0665 161.57207	6.133 830.38113	6.133 55.021606	6.133 1008.026
3.067 157.98158	6.134 830.78364	6.134 54.104386	6.134 1011.5525
3.0675 155.15895	6.135 831.98731	6.135 54.35702	6.135 1014.3323
3.068 153.37804	6.136 833.84833	6.136 56.050247	6.136 1016.2318
3.0685 152.82116	6.137 836.06934	6.137 59.149482	6.137 1017.2179
3.069 153.61792	6.138 838.26937	6.138 63.351896	6.138 1017.3665
3.0695 155.86966	6.139 840.06914	6.139 68.195505	6.139 1016.8496
3.07 159.64016	6.14 841.16805	6.14 73.197802	6.14 1015.9003
3.0705 164.91305	6.141 841.39411	6.141 77.974641	6.141 1014.766
3.071 171.53549	6.142 840.71915	6.142 82.302058	6.142 1013.6613
3.0715 179.17846	6.143 839.2423	6.143 86.108318	6.143 1012.7393
3.072 187.34014	6.144 837.1523	6.144 89.410159	6.144 1012.0846
3.0725 195.403	6.145 834.68256	6.145 92.225496	6.145 1011.729
3.073 202.7329	6.146 832.07121	6.146 94.498936	6.146 1011.6763
3.0735 208.79071	6.147 829.53546	6.147 96.066982	6.147 1011.9236
3.074 213.2216	6.148 827.26455	6.148 96.672556	6.148 1012.4711
3.0745 215.89537	6.149 825.42999	6.149 96.021149	6.149 1013.315
3.075 216.89065	6.15 824.2054	6.15 93.859399	6.15 1014.4303
3.0755 216.43533	6.151 823.7829	6.151 90.053432	6.151 1015.752
3.076 214.8283	6.152 824.37109	6.152 84.647654	6.152 1017.1643
3.0765 212.3686	6.153 826.16432	6.153 77.891659	6.153 1018.5087
3.077 209.30925	6.154 829.28383	6.154 70.23068	6.154 1019.6128
3.0775 205.84131	6.155 833.70553	6.155 62.26166	6.155 1020.3384
3.078 202.10292	6.156 839.20077	6.156 54.662295	6.156 1020.6323
3.0785 198.20422	6.157 845.31797	6.157 48.104287	6.157 1020.5619
3.079 194.25765	6.158 851.42317	6.158 43.164773	6.158 1020.3151
3.0795 190.4049	6.159 856.7985	6.159 40.250538	6.159 1020.1556
3.08 186.83223	6.16 860.77714	6.16 39.547575	6.16 1020.3418
3.0805 183.76684	6.161 862.88021	6.161 41.003332	6.161 1021.0368
3.081 181.44935	6.162 862.91989	6.162 44.341894	6.162 1022.2416
3.0815 180.08418	6.163 861.04336	6.163 49.105799	6.163 1023.7815
3.082 179.77872	6.164 857.70828	6.164 54.714686	6.164 1025.3554
3.0825 180.49121	6.165 853.59607	6.165 60.53159	6.165 1026.6333
3.083 182.00979	6.166 849.48143	6.166 65.931012	6.166 1027.3697
3.0835 183.97847	6.167 846.08372	6.167 70.365945	6.167 1027.4931
3.084 185.96987	6.168 843.93049	6.168 73.4311	6.168 1027.1409
3.0845 187.58627	6.169 843.26332	6.169 74.916309	6.169 1026.6271

3.085 188.55674	6.17 844.01063	6.17 74.839853	6.17 1026.3549
3.0855 188.79817	6.171 845.83736	6.171 73.449995	6.171 1026.6989
3.086 188.41994	6.172 848.25993	6.172 71.186923	6.172 1027.8932
3.0865 187.67299	6.173 850.79352	6.173 68.606507	6.173 1029.9548
3.087 186.86338	6.174 853.08622	6.174 66.278404	6.174 1032.665
3.0875 186.26059	6.175 854.99847	6.175 64.679751	6.175 1035.6112
3.088 186.0284	6.176 856.60557	6.176 64.108234	6.176 1038.2817
3.0885 186.19462	6.177 858.12888	6.177 64.633696	6.177 1040.1865
3.089 186.66155	6.178 859.82554	6.178 66.097366	6.178 1040.9744
3.0895 187.24751	6.179 861.878	6.179 68.155685	6.179 1040.5131
3.09 187.74563	6.18 864.32012	6.18 70.355523	6.18 1038.9114
3.0905 187.98593	6.181 867.02047	6.181 72.222227	6.181 1036.4802
3.091 187.88977	6.182 869.72231	6.182 73.342386	6.182 1033.6457
3.0915 187.50746	6.183 872.12263	6.183 73.428381	6.183 1030.8411
3.092 187.03088	6.184 873.96268	6.184 72.358784	6.184 1028.4079
3.0925 186.77425	6.185 875.10138	6.185 70.194351	6.185 1026.528
3.093 187.12093	6.186 875.54927	6.186 67.171727	6.186 1025.2018
3.0935 188.44169	6.187 875.45226	6.187 63.676495	6.187 1024.2702
3.094 191.00061	6.188 875.02992	6.188 60.196063	6.188 1023.4755
3.0945 194.87198	6.189 874.48737	6.189 57.25386	6.189 1022.5463
3.095 199.89301	6.19 873.93071	6.19 55.330278	6.19 1021.2885
3.0955 205.66905	6.191 873.31659	6.191 54.781594	6.191 1019.6615
3.096 211.63262	6.192 872.457	6.192 55.77281	6.192 1017.8169
3.0965 217.141	6.193 871.08199	6.193 58.241151	6.193 1016.0824
3.097 221.58538	6.194 868.94259	6.194 61.902493	6.194 1014.8875
3.0975 224.4838	6.195 865.92069	6.195 66.303645	6.195 1014.6441
3.098 225.53886	6.196 862.10906	6.196 70.911414	6.196 1015.617
3.0985 224.65566	6.197 857.83295	6.197 75.218186	6.197 1017.8263
3.099 221.92802	6.198 853.60323	6.198 78.837322	6.198 1021.0194
3.0995 217.60653	6.199 850.0129	6.199 81.563224	6.199 1024.7261
3.1 212.0596	6.2 847.60686	6.2 83.381198	6.2 1028.3831
3.1005 205.73163	6.201 846.76255	6.201 84.428207	6.201 1031.482
3.101 199.09702	6.202 847.61505	6.202 84.921409	6.202 1033.6918
3.1015 192.60858	6.203 850.04431	6.203 85.080567	6.203 1034.9132
3.102 186.64475	6.204 853.72221	6.204 85.06941	6.204 1035.2536
3.1025 181.46731	6.205 858.19942	6.205 84.970568	6.205 1034.9435
3.103 177.20375	6.206 863.00302	6.206 84.793968	6.206 1034.2341
3.1035 173.8633	6.207 867.71754	6.207 84.505904	6.207 1033.3157
3.104 171.3827	6.208 872.03235	6.208 84.060719	6.208 1032.2813
3.1045 169.68457	6.209 875.75183	6.209 83.420661	6.209 1031.1342
3.105 168.72431	6.21 878.77616	6.21 82.559359	6.21 1029.8185
3.1055 168.50593	6.211 881.06697	6.211 81.455089	6.211 1028.25
3.106 169.06126	6.212 882.61257	6.212 80.085559	6.212 1026.3278
3.1065 170.40382	6.213 883.40322	6.213 78.433286	6.213 1023.928
3.107 172.47892	6.214 883.42173	6.214 76.501499	6.214 1020.8916
3.1075 175.13204	6.215 882.64937	6.215 74.330906	6.215 1017.024
3.108 178.10732	6.216 881.08404	6.216 72.004267	6.216 1012.1196
3.1085 181.07536	6.217 878.76591	6.217 69.631637	6.217 1006.0098
3.109 183.68041	6.218 875.80413	6.218 67.320955	6.218 998.61921
3.1095 185.59551	6.219 872.39709	6.219 65.148906	6.219 990.01001
3.11 186.57789	6.22 868.83704	6.22 63.148424	6.22 980.39488

3.1105	186.5205	6.221	865.49122	6.221	61.320564	6.221	970.11281
3.111	185.49461	6.222	862.7564	6.222	59.664883	6.222	959.57478
3.1115	183.77266	6.223	860.99243	6.223	58.212105	6.223	949.19702
3.112	181.81568	6.224	860.44953	6.224	57.041506	6.224	939.34148
3.1125	180.21184	6.225	861.20909	6.225	56.273084	6.225	930.27687
3.113	179.56566	6.226	863.15542	6.226	56.036091	6.226	922.1647
3.1135	180.35818	6.227	865.98654	6.227	56.424944	6.227	915.06597
3.114	182.81652	6.228	869.25942	6.228	57.457347	6.228	908.96058
3.1145	186.8374	6.229	872.45608	6.229	59.047946	6.229	903.77185
3.115	191.99636	6.23	875.05348	6.23	61.006172	6.23	899.39072
3.1155	197.64517	6.231	876.5843	6.231	63.061116	6.231	895.69592
3.116	203.06747	6.232	876.6815	6.232	64.909934	6.232	892.56647
3.1165	207.64	6.233	875.10567	6.233	66.27966	6.233	889.88303
3.117	210.94699	6.234	871.75577	6.234	66.986621	6.234	887.5166
3.1175	212.81712	6.235	866.66479	6.235	66.975479	6.235	885.30742
3.118	213.28651	6.236	859.98202	6.236	66.324005	6.236	883.04385
3.1185	212.51992	6.237	851.94602	6.237	65.210371	6.237	880.45562
3.119	210.73383	6.238	842.85487	6.238	63.853762	6.238	877.23563
3.1195	208.1545	6.239	833.04055	6.239	62.450222	6.239	873.09633
3.12	205.02018	6.24	822.85088	6.24	61.128049	6.24	867.85177
3.1205	201.6124	6.241	812.63587	6.241	59.938669	6.241	861.50023
3.121	198.28695	6.242	802.73132	6.242	58.883322	6.242	854.27341
3.1215	195.47694	6.243	793.43397	6.243	57.960308	6.243	846.62258
3.122	193.65328	6.244	784.96987	6.244	57.209226	6.244	839.13265
3.1225	193.24646	6.245	777.46708	6.245	56.730887	6.245	832.38371
3.123	194.54954	6.246	770.94721	6.246	56.672573	6.246	826.80439
3.1235	197.63095	6.247	765.34549	6.247	57.182632	6.247	822.56821
3.124	202.28521	6.248	760.55627	6.248	58.35046	6.248	819.56994
3.1245	208.03979	6.249	756.48884	6.249	60.153838	6.249	817.48707
3.125	214.22033	6.25	753.11246	6.25	62.434111	6.25	815.89923
3.1255	220.05955	6.251	750.47377	6.251	64.911461	6.251	814.4183
3.126	224.82315	6.252	748.68093	6.252	67.239584	6.252	812.78429
3.1265	227.92323	6.253	747.8604	6.253	69.085138	6.253	810.90157
3.127	228.99711	6.254	748.10032	6.254	70.207373	6.254	808.81715
3.1275	227.94229	6.255	749.39648	6.255	70.51229	6.255	806.66316
3.128	224.91052	6.256	751.61516	6.256	70.065073	6.256	804.59278
3.1285	220.2707	6.257	754.48341	6.257	69.061022	6.257	802.73233
3.129	214.55079	6.258	757.61264	6.258	67.770911	6.258	801.15916
3.1295	208.36564	6.259	760.55554	6.259	66.483661	6.259	799.90369
3.13	202.33716	6.26	762.88816	6.26	65.464303	6.26	798.96745
3.1305	197.01545	6.261	764.30011	6.261	64.932246	6.261	798.34827
3.131	192.81426	6.262	764.66941	6.262	65.052406	6.262	798.06414
3.1315	189.97575	6.263	764.09781	6.263	65.927381	6.263	798.16741
3.132	188.57384	6.264	762.89061	6.264	67.58438	6.264	798.74096
3.1325	188.55321	6.265	761.48025	6.265	69.961153	6.265	799.87201
3.133	189.78733	6.266	760.31162	6.266	72.902833	6.266	801.60676
3.1335	192.13057	6.267	759.72115	6.267	76.180746	6.267	803.89975
3.134	195.44239	6.268	759.84591	6.268	79.534879	6.268	806.57786
3.1345	199.57465	6.269	760.59012	6.269	82.72932	6.269	809.3371
3.135	204.33144	6.27	761.65762	6.27	85.601574	6.27	811.77977
3.1355	209.42564	6.271	762.63754	6.271	88.087108	6.271	813.48567

3.136 214.46039	6.272 763.11455	6.272 90.209773	6.272 814.09992
3.1365 218.95495	6.273 762.77155	6.273 92.042585	6.273 813.41597
3.137 222.41588	6.274 761.45918	6.274 93.655526	6.274 811.43508
3.1375 224.43469	6.275 759.2214	6.275 95.072238	6.275 808.38963
3.138 224.78045	6.276 756.2791	6.276 96.253636	6.276 804.72321
3.1385 223.45649	6.277 752.9825	6.277 97.115248	6.277 801.02648
3.139 220.70292	6.278 749.74507	6.278 97.571016	6.278 797.93525
3.1395 216.94619	6.279 746.97042	6.279 97.585108	6.279 796.00666
3.14 212.71345	6.28 744.9826	6.28 97.209289	6.28 795.59976
3.1405 208.53746	6.281 743.97084	6.281 96.588269	6.281 796.79081
3.141 204.87483	6.282 743.96027	6.282 95.927267	6.282 799.34884
3.1415 202.05141	6.283 744.81772	6.283 95.430524	6.283 802.78056
3.142 200.23843	6.284 746.29349	6.284 95.231289	6.284 806.4326
3.1425 199.4565	6.285 748.08953	6.285 95.338705	6.285 809.62072
3.143 199.60187	6.286 749.93419	6.286 95.622891	6.286 811.74865
3.1435 200.48809	6.287 751.6412	6.287 95.84748	6.287 812.38681
3.144 201.89387	6.288 753.1367	6.288 95.742547	6.288 811.29845
3.1445 203.60587	6.289 754.45038	6.289 95.095946	6.289 808.42141
3.145 205.44484	6.29 755.68016	6.29 93.833304	6.29 803.82677
3.1455 207.26869	6.291 756.94676	6.291 92.059804	6.291 797.67858
3.146 208.95548	6.292 758.35381	6.292 90.049848	6.292 790.21067
3.1465 210.37895	6.293 759.96191	6.293 88.18879	6.293 781.72289
3.147 211.394	6.294 761.77695	6.294 86.886566	6.294 772.58707
3.1475 211.84515	6.295 763.74845	6.295 86.489892	6.295 763.24599
3.148 211.59932	6.296 765.77391	6.296 87.215678	6.296 754.18991
3.1485 210.59067	6.297 767.70825	6.297 89.116642	6.297 745.90302
3.149 208.8566	6.298 769.38007	6.298 92.077586	6.298 738.7844
3.1495 206.54593	6.299 770.61563	6.299 95.833589	6.299 733.06138
3.15 203.8918	6.3 771.26815	6.3 100.00166	6.3 728.72275
3.1505 201.15785	6.301 771.24624	6.301 104.12247	6.301 725.50045
3.151 198.57965	6.302 770.53454	6.302 107.71297	6.302 722.91812
3.1515 196.32556	6.303 769.20183	6.303 110.32973	6.303 720.40408
3.152 194.49278	6.304 767.39603	6.304 111.63632	6.304 717.44204
3.1525 193.13697	6.305 765.32875	6.305 111.46094	6.305 713.71526
3.153 192.31639	6.306 763.25293	6.306 109.82754	6.306 709.19771
3.1535 192.12354	6.307 761.43573	6.307 106.94902	6.307 704.16211
3.154 192.68154	6.308 760.12788	6.308 103.18242	6.308 699.10327
3.1545 194.10042	6.309 759.5312	6.309 98.957427	6.309 694.60379
3.155 196.40956	6.31 759.76918	6.31 94.696889	6.31 691.18685
3.1555 199.4988	6.311 760.86758	6.311 90.747676	6.311 689.20032
3.156 203.10133	6.312 762.75219	6.312 87.335057	6.312 688.76026
3.1565 206.83646	6.313 765.26646	6.313 84.546968	6.313 689.75802
3.157 210.30416	6.314 768.20504	6.314 82.348492	6.314 691.91498
3.1575 213.1986	6.315 771.35359	6.315 80.621642	6.315 694.85818
3.158 215.39671	6.316 774.5229	6.316 79.220209	6.316 698.19193
3.1585 216.98523	6.317 777.56878	6.317 78.024252	6.317 701.54978
3.159 218.21476	6.318 780.39476	6.318 76.97649	6.318 704.62306
3.1595 219.39873	6.319 782.94116	6.319 76.086758	6.319 707.17085
3.16 220.79737	6.32 785.16729	6.32 75.40171	6.32 709.01961
3.1605 222.53036	6.321 787.03495	6.321 74.951647	6.321 710.06071
3.161 224.54741	6.322 788.50018	6.322 74.698147	6.322 710.25045

3.1615 226.66061	6.323 789.51793	6.323 74.508576	6.323 709.61404
3.162 228.61926	6.324 790.06121	6.324 74.174353	6.324 708.25077
3.1625 230.19554	6.325 790.15063	6.325 73.472273	6.325 706.33503
3.163 231.25177	6.326 789.88421	6.326 72.249473	6.326 704.10629
3.1635 231.77223	6.327 789.45257	6.327 70.500581	6.327 701.84325
3.164 231.85698	6.328 789.12587	6.328 68.405327	6.328 699.82223
3.1645 231.68585	6.329 789.20729	6.329 66.307022	6.329 698.26742
3.165 231.46563	6.33 789.96119	6.33 64.632791	6.33 697.30664
3.1655 231.37454	6.331 791.53646	6.331 63.777975	6.331 696.9483
3.166 231.51702	6.332 793.91101	6.332 63.991511	6.332 697.09069
3.1665 231.90084	6.333 796.87787	6.333 65.300179	6.333 697.56445
3.167 232.44473	6.334 800.08048	6.334 67.49645	6.334 698.19709
3.1675 233.01726	6.335 803.0885	6.335 70.192128	6.335 698.87911
3.168 233.49732	6.336 805.49336	6.336 72.917395	6.336 699.60886
3.1685 233.83589	6.337 806.99734	6.337 75.231534	6.337 700.49933
3.169 234.09463	6.338 807.47286	6.338 76.812482	6.338 701.74159
3.1695 234.442	6.339 806.97863	6.339 77.505409	6.339 703.53355
3.17 235.10213	6.34 805.73242	6.34 77.328259	6.34 705.99411
3.1705 236.27056	6.341 804.05266	6.341 76.44566	6.341 709.08895
3.171 238.02598	6.342 802.28912	6.342 75.126533	6.342 712.59272
3.1715 240.2716	6.343 800.76227	6.343 73.695846	6.343 716.10404
3.172 242.73086	6.344 799.72371	6.344 72.483204	6.344 719.11492
3.1725 245.00293	6.345 799.33903	6.345 71.767389	6.345 721.11939
3.173 246.66099	6.346 799.68555	6.346 71.719811	6.346 721.73222
3.1735 247.36026	6.347 800.7556	6.347 72.358492	6.347 720.7826
3.174 246.91869	6.348 802.45949	6.348 73.530479	6.348 718.35371
3.1745 245.34436	6.349 804.63009	6.349 74.937658	6.349 714.75488
3.175 242.80394	6.35 807.03557	6.35 76.207329	6.35 710.43525
3.1755 239.5496	6.351 809.40661	6.351 76.99004	6.351 705.86636
3.176 235.83664	6.352 811.47844	6.352 77.052756	6.352 701.43099
3.1765 231.86551	6.353 813.03993	6.353 76.334019	6.353 697.35169
3.177 227.76883	6.354 813.97561	6.354 74.941298	6.354 693.67801
3.1775 223.64193	6.355 814.28535	6.355 73.093691	6.355 690.33114
3.178 219.59516	6.356 814.07221	6.356 71.034981	6.356 687.18613
3.1785 215.79632	6.357 813.49937	6.357 68.952756	6.357 684.16119
3.179 212.47738	6.358 812.72891	6.358 66.934251	6.358 681.28268
3.1795 209.89832	6.359 811.86353	6.359 64.971609	6.359 678.70415
3.18 208.28239	6.36 810.91313	6.36 63.007246	6.36 676.67345
3.1805 207.75095	6.361 809.79983	6.361 60.994346	6.361 675.45931
3.181 208.28519	6.362 808.40013	6.362 58.944858	6.362 675.26248
3.1815 209.72819	6.363 806.60752	6.363 56.947538	6.363 676.14103
3.182 211.82249	6.364 804.39006	6.364 55.154511	6.364 677.97436
3.1825 214.26499	6.365 801.81961	6.365 53.747459	6.365 680.47659
3.183 216.75965	6.366 799.06195	6.366 52.898098	6.366 683.25301
3.1835 219.0559	6.367 796.33452	6.367 52.732801	6.367 685.87967
3.184 220.97183	6.368 793.85158	6.368 53.304307	6.368 687.98102
3.1845 222.40712	6.369 791.78007	6.369 54.570585	6.369 689.28516
3.185 223.34979	6.37 790.22138	6.37 56.384001	6.37 689.64792
3.1855 223.87514	6.371 789.21974	6.371 58.498748	6.371 689.0486
3.186 224.13144	6.372 788.785	6.372 60.604934	6.372 687.56812
3.1865 224.30902	6.373 788.91206	6.373 62.390138	6.373 685.36001

3.187 224.59727	6.374 789.58419	6.374 63.616131	6.374 682.62093
3.1875 225.14264	6.375 790.75893	6.375 64.1869	6.375 679.56212
3.188 226.02308	6.376 792.34759	6.376 64.181226	6.376 676.38187
3.1885 227.24769	6.377 794.20536	6.377 63.832141	6.377 673.24081
3.189 228.778	6.378 796.14599	6.378 63.453644	6.378 670.24502
3.1895 230.55599	6.379 797.98437	6.379 63.335143	6.379 667.44282
3.19 232.52187	6.38 799.59572	6.38 63.638044	6.38 664.83803
3.1905 234.61275	6.381 800.97014	6.381 64.331046	6.381 662.41697
3.191 236.74701	6.382 802.2384	6.382 65.189453	6.382 660.18069
3.1915 238.81	6.383 803.65334	6.383 65.862526	6.383 658.17165
3.192 240.65708	6.384 805.52618	6.384 65.988571	6.384 656.48546
3.1925 242.14041	6.385 808.13472	6.385 65.319159	6.385 655.2624
3.193 243.15142	6.386 811.6315	6.386 63.80907	6.386 654.65933
3.1935 243.66	6.387 815.9816	6.387 61.640329	6.387 654.80705
3.194 243.7309	6.388 820.94923	6.388 59.173159	6.388 655.7627
3.1945 243.50623	6.389 826.13585	6.389 56.844141	6.389 657.4697
3.195 243.15739	6.39 831.05619	6.39 55.050677	6.39 659.73855
3.1955 242.82203	6.391 835.22943	6.391 54.062886	6.391 662.25931
3.196 242.54745	6.392 838.26333	6.392 53.989099	6.392 664.64901
3.1965 242.25982	6.393 839.91629	6.393 54.796832	6.393 666.52604
3.197 241.76998	6.394 840.13134	6.394 56.368982	6.394 667.59315
3.1975 240.81644	6.395 839.04222	6.395 58.564719	6.395 667.70521
3.198 239.13604	6.396 836.95306	6.396 61.258883	6.396 666.9014
3.1985 236.54663	6.397 834.29333	6.397 64.348484	6.397 665.39211
3.199 233.02255	6.398 831.55109	6.398 67.731908	6.398 663.50471
3.1995 228.74455	6.399 829.19254	6.399 71.277779	6.399 661.60385
3.2 224.1089	6.4 827.58274	6.4 74.802569	6.4 660.00744
3.2005 219.68778	6.401 826.9259	6.401 78.06983	6.401 658.91865
3.201 216.14257	6.402 827.24014	6.402 80.813708	6.402 658.38935
3.2015 214.10371	6.403 828.37163	6.403 82.779915	6.403 658.32169
3.202 214.04115	6.404 830.03956	6.404 83.771905	6.404 658.50544
3.2025 216.15578	6.405 831.89458	6.405 83.689558	6.405 658.67873
3.203 220.32008	6.406 833.57336	6.406 82.550892	6.406 658.59362
3.2035 226.08594	6.407 834.74037	6.407 80.492302	6.407 658.06714
3.204 232.75995	6.408 835.11957	6.408 77.747758	6.408 657.00504
3.2045 239.52849	6.409 834.52567	6.409 74.611482	6.409 655.39731
3.205 245.60099	6.41 832.90172	6.41 71.391626	6.41 653.29547
3.2055 250.33724	6.411 830.35831	6.411 68.364225	6.411 650.78687
3.206 253.33161	6.412 827.19649	6.412 65.736861	6.412 647.97829
3.2065 254.4426	6.413 823.891	6.413 63.62957	6.413 644.99179
3.207 253.77207	6.414 821.01852	6.414 62.076579	6.414 641.96786
3.2075 251.6098	6.415 819.13586	6.415 61.047062	6.415 639.06699
3.208 248.36344	6.416 818.63654	6.416 60.477489	6.416 636.46482
3.2085 244.49015	6.417 819.63031	6.417 60.304151	6.417 634.34132
3.209 240.44033	6.418 821.88954	6.418 60.483874	6.418 632.86846
3.2095 236.61682	6.419 824.8877	6.419 60.994905	6.419 632.19985
3.21 233.34883	6.42 827.92553	6.42 61.818026	6.42 632.46072
3.2105 230.87781	6.421 830.31052	6.421 62.907224	6.421 633.7339
3.211 229.35187	6.422 831.53656	6.422 64.165695	6.422 636.03777
3.2115 228.82532	6.423 831.40984	6.423 65.442587	6.423 639.2979
3.212 229.26023	6.424 830.08443	6.424 66.558108	6.424 643.32052

3.2125 230.52827	6.425 828.0004	6.425 67.352111	6.425 647.78001
3.213 232.41388	6.426 825.74808	6.426 67.739818	6.426 652.23181
3.2135 234.62312	6.427 823.90414	6.427 67.753224	6.427 656.15767
3.214 236.80401	6.428 822.89059	6.428 67.550446	6.428 659.04181
3.2145 238.58309	6.429 822.89595	6.429 67.385913	6.429 660.46803
3.215 239.61749	6.43 823.87348	6.43 67.547334	6.43 660.21868
3.2155 239.65528	6.431 825.60422	6.431 68.275698	6.431 658.34982
3.216 238.59067	6.432 827.79309	6.432 69.689201	6.432 655.21611
3.2165 236.49887	6.433 830.16085	6.433 71.730708	6.433 651.42622
3.217 233.63841	6.434 832.5036	6.434 74.152776	6.434 647.72705
3.2175 230.41662	6.435 834.709	6.435 76.54627	6.435 644.83762
3.218 227.3241	6.436 836.73693	6.436 78.409592	6.436 643.27501
3.2185 224.85366	6.437 838.58261	6.437 79.246367	6.437 643.22429
3.219 223.42315	6.438 840.24212	6.438 78.671587	6.438 644.49654
3.2195 223.31936	6.439 841.69285	6.439 76.502135	6.439 646.59317
3.22 224.67135	6.44 842.89174	6.44 72.809595	6.44 648.85906
3.2205 227.4502	6.441 843.78671	6.441 67.921967	6.441 650.67605
3.221 231.48413	6.442 844.33333	6.442 62.374045	6.442 651.63392
3.2215 236.47808	6.443 844.511	6.443 56.819113	6.443 651.62548
3.222 242.03266	6.444 844.3358	6.444 51.922666	6.444 650.84186
3.2225 247.66732	6.445 843.86967	6.445 48.259945	6.445 649.68025
3.223 252.85665	6.446 843.22479	6.446 46.234625	6.446 648.60522
3.2235 257.08605	6.447 842.55988	6.447 46.029408	6.447 648.01489
3.224 259.9226	6.448 842.06362	6.448 47.593419	6.448 648.15305
3.2245 261.0863	6.449 841.92257	6.449 50.666733	6.449 649.08452
3.225 260.50152	6.45 842.27684	6.45 54.837524	6.45 650.72556
3.2255 258.31229	6.451 843.1746	6.451 59.621096	6.451 652.90423
3.226 254.8562	6.452 844.54087	6.452 64.543615	6.452 655.42259
3.2265 250.6048	6.453 846.17504	6.453 69.210151	6.453 658.10139
3.227 246.0874	6.454 847.78213	6.454 73.3403	6.454 660.80177
3.2275 241.81734	6.455 849.03064	6.455 76.765534	6.455 663.42955
3.228 238.23397	6.456 849.61927	6.456 79.396586	6.456 665.93176
3.2285 235.665	6.457 849.33197	6.457 81.180037	6.457 668.29173
3.229 234.30584	6.458 848.06609	6.458 82.065457	6.458 670.52391
3.2295 234.20883	6.459 845.82965	6.459 81.997131	6.459 672.66535
3.23 235.2781	6.46 842.71348	6.46 80.931649	6.46 674.76223
3.2305 237.27198	6.461 838.8485	6.461 78.870998	6.461 676.85371
3.231 239.82068	6.462 834.35754	6.462 75.895297	6.462 678.95937
3.2315 242.46811	6.463 829.30794	6.463 72.181194	6.463 681.07668
3.232 244.74067	6.464 823.67134	6.464 67.998876	6.464 683.1902
3.2325 246.23423	6.465 817.29998	6.465 63.688675	6.465 685.28742
3.233 246.69923	6.466 809.93287	6.466 59.624231	6.466 687.37107
3.2335 246.09809	6.467 801.2418	6.467 56.171826	6.467 689.45815
3.234 244.61402	6.468 790.91549	6.468 53.654672	6.468 691.56301
3.2345 242.60489	6.469 778.76314	6.469 52.327646	6.469 693.67126
3.235 240.51449	6.47 764.80411	6.47 52.363198	6.47 695.71947
3.2355 238.76922	6.471 749.31007	6.471 53.844798	6.471 697.59504
3.236 237.69236	6.472 732.78034	6.472 56.762292	6.472 699.16223
3.2365 237.45996	6.473 715.85613	6.473 61.005254	6.473 700.30574
3.237 238.10439	6.474 699.20292	6.474 66.355219	6.474 700.97168
3.2375 239.55328	6.475 683.40007	6.475 72.482913	6.475 701.18295

3.238 241.67996	6.476 668.86956	6.476 78.958846	6.476 701.01674
3.2385 244.34309	6.477 655.85587	6.477 85.283027	6.477 700.55104
3.239 247.40397	6.478 644.44686	6.478 90.933212	6.478 699.80573
3.2395 250.72443	6.479 634.61332	6.479 95.424405	6.479 698.71118
3.24 254.15786	6.48 626.24478	6.48 98.368911	6.48 697.12751
3.2405 257.54605	6.481 619.17124	6.481 99.527215	6.481 694.91406
3.241 260.7269	6.482 613.17349	6.482 98.843812	6.482 692.0224
3.2415 263.54866	6.483 607.99286	6.483 96.465686	6.483 688.57075
3.242 265.88156	6.484 603.34939	6.484 92.742088	6.484 684.86241
3.2425 267.6203	6.485 598.96928	6.485 88.202802	6.485 681.33273
3.243 268.67936	6.486 594.61328	6.486 83.510737	6.486 678.43903
3.2435 268.99047	6.487 590.09506	6.487 79.386455	6.487 676.52975
3.244 268.51263	6.488 585.28322	6.488 76.508626	6.488 675.73476
3.2445 267.25791	6.489 580.0904	6.489 75.403814	6.489 675.90729
3.245 265.32468	6.49 574.46044	6.49 76.347323	6.49 676.62816
3.2455 262.92062	6.491 568.36488	6.491 79.299602	6.491 677.26498
3.246 260.35804	6.492 561.81281	6.492 83.897545	6.492 677.0696
3.2465 258.01336	6.493 554.86717	6.493 89.507938	6.493 675.29514
3.247 256.25806	6.494 547.65431	6.494 95.335186	6.494 671.3159
3.2475 255.3814	6.495 540.35485	6.495 100.56193	6.495 664.73386
3.248 255.53001	6.496 533.17356	6.496 104.49273	6.496 655.45421
3.2485 256.68353	6.497 526.29748	6.497 106.66941	6.497 643.71317
3.249 258.67176	6.498 519.85825	6.498 106.93244	6.498 630.04796
3.2495 261.22381	6.499 513.91339	6.499 105.41523	6.499 615.21152
3.25 264.02947	6.5 508.453	6.5 102.4757	6.5 600.04989
3.2505 266.79149	6.501 503.4271	6.501 98.587343	6.501 585.37137
3.251 269.25501	6.502 498.781	6.502 94.224298	6.502 571.83772
3.2515 271.21243	6.503 494.48354	6.503 89.775219	6.503 559.89972
3.252 272.49433	6.504 490.53724	6.504 85.507756	6.504 549.78451
3.2525 272.96202	6.505 486.96754	6.505 81.583555	6.505 541.52769
3.253 272.51489	6.506 483.79755	6.506 78.102821	6.506 535.03326
3.2535 271.11512	6.507 481.02105	6.507 75.147553	6.507 530.14084
3.254 268.82045	6.508 478.58735	6.508 72.798446	6.508 526.6821
3.2545 265.80785	6.509 476.40605	6.509 71.118824	6.509 524.51411
3.255 262.37174	6.51 474.37017	6.51 70.120222	6.51 523.52477
3.2555 258.8896	6.511 472.38691	6.511 69.737125	6.511 523.61296
3.256 255.76088	6.512 470.4022	6.512 69.835937	6.512 524.6524
3.2565 253.33594	6.513 468.40914	6.513 70.266028	6.513 526.45221
3.257 251.85503	6.514 466.43964	6.514 70.936725	6.514 528.72878
3.2575 251.41298	6.515 464.54673	6.515 71.885264	6.515 531.10186
3.258 251.95584	6.516 462.78776	6.516 73.297299	6.516 533.12252
3.2585 253.30635	6.517 461.21446	6.517 75.457207	6.517 534.33261
3.259 255.20858	6.518 459.86944	6.518 78.634792	6.518 534.34573
3.2595 257.37995	6.519 458.78434	6.519 82.945321	6.519 532.93129
3.26 259.55938	6.52 457.97634	6.52 88.236944	6.52 530.0785
3.2605 261.54272	6.521 457.4447	6.521 94.054391	6.521 526.01947
3.261 263.20024	6.522 457.1726	6.522 99.701335	6.522 521.19934
3.2615 264.47546	6.523 457.1378	6.523 104.38685	6.523 516.19569
3.262 265.36871	6.524 457.328	6.524 107.40972	6.524 511.6048
3.2625 265.91185	6.525 457.74965	6.525 108.32104	6.525 507.92324
3.263 266.14148	6.526 458.4165	6.526 107.01566	6.526 505.45623

3.2635 266.07697	6.527 459.31218	6.527 103.7308	6.527 504.27614
3.264 265.70838	6.528 460.33564	6.528 98.962884	6.528 504.23929
3.2645 264.99806	6.529 461.25199	6.529 93.338536	6.529 505.05061
3.265 263.89789	6.53 461.67669	6.53 87.482812	6.53 506.3523
3.2655 262.38068	6.531 461.11251	6.531 81.918746	6.531 507.80817
3.266 260.47826	6.532 459.0395	6.532 77.013161	6.532 509.16172
3.2665 258.31298	6.533 455.03572	6.533 72.965493	6.533 510.2589
3.267 256.1071	6.534 448.89194	6.534 69.82629	6.534 511.03944
3.2675 254.15968	6.535 440.68251	6.535 67.531431	6.535 511.50888
3.268 252.79188	6.536 430.76905	6.536 65.943004	6.536 511.70377
3.2685 252.27498	6.537 419.73674	6.537 64.892142	6.537 511.65899
3.269 252.7641	6.538 408.2847	6.538 64.219634	6.538 511.38213
3.2695 254.25895	6.539 397.10422	6.539 63.807621	6.539 510.83849
3.27 256.60208	6.54 386.77617	6.54 63.594183	6.54 509.95173
3.2705 259.51053	6.541 377.70616	6.541 63.565556	6.541 508.62529
3.271 262.62554	6.542 370.09926	6.542 63.728495	6.542 506.78565
3.2715 265.56351	6.543 363.96445	6.543 64.07425	6.543 504.43913
3.272 267.95786	6.544 359.13599	6.544 64.550692	6.544 501.7234
3.2725 269.49222	6.545 355.30402	6.545 65.056424	6.545 498.9293
3.273 269.9318	6.546 352.05369	6.546 65.4609	6.546 496.47337
3.2735 269.15907	6.547 348.91626	6.547 65.642296	6.547 494.81758
3.274 267.21157	6.548 345.4329	6.548 65.526544	6.548 494.35413
3.2745 264.30915	6.549 341.22569	6.549 65.110879	6.549 495.29117
3.275 260.85222	6.55 336.06236	6.55 64.46311	6.55 497.5799
3.2755 257.37641	6.551 329.89853	6.551 63.69894	6.551 500.91131
3.276 254.46176	6.552 322.88333	6.552 62.948137	6.552 504.78575
3.2765 252.61319	6.553 315.32204	6.553 62.322583	6.553 508.6322
3.277 252.14445	6.554 307.60048	6.554 61.895767	6.554 511.93741
3.2775 253.10337	6.555 300.08619	6.555 61.69726	6.555 514.34593
3.278 255.2672	6.556 293.02989	6.556 61.720407	6.556 515.70791
3.2785 258.21412	6.557 286.49353	6.557 61.938255	6.557 516.0732
3.279 261.44942	6.558 280.32757	6.558 62.320956	6.558 515.64752
3.2795 264.54231	6.559 274.20829	6.559 62.847228	6.559 514.7321
3.28 267.22411	6.56 267.72899	6.56 63.503391	6.56 513.66368
3.2805 269.41371	6.561 260.5209	6.561 64.267426	6.561 512.76276
3.281 271.16703	6.562 252.3686	6.562 65.08255	6.562 512.2905
3.2815 272.58006	6.563 243.28482	6.563 65.832533	6.563 512.41229
3.282 273.69448	6.564 233.52368	6.564 66.335056	6.564 513.16842
3.2825 274.45095	6.565 223.53181	6.565 66.366063	6.565 514.45605
3.283 274.7104	6.566 213.85697	6.566 65.716768	6.566 516.02918
3.2835 274.32914	6.567 205.0433	6.567 64.269857	6.567 517.52342
3.284 273.24762	6.568 197.54021	6.568 62.069269	6.568 518.50812
3.2845 271.54733	6.569 191.64094	6.569 59.355179	6.569 518.56108
3.285 269.44756	6.57 187.45403	6.57 56.544888	6.57 517.35286
3.2855 267.24473	6.571 184.90283	6.571 54.158261	6.571 514.72141
3.286 265.22463	6.572 183.7458	6.572 52.706141	6.572 510.71733
3.2865 263.58936	6.573 183.61285	6.573 52.573837	6.573 505.60693
3.287 262.43106	6.574 184.05518	6.574 53.933942	6.574 499.8317
3.2875 261.75965	6.575 184.60589	6.575 56.712794	6.575 493.93498
3.288 261.56552	6.576 184.8458	6.576 60.616928	6.576 488.47353
3.2885 261.88296	6.577 184.46483	6.577 65.206668	6.577 483.93274

3.289 262.82141	6.578 183.30758	6.578 69.990356	6.578 480.66071
3.2895 264.54788	6.579 181.39335	6.579 74.509131	6.579 478.83058
3.29 267.22543	6.58 178.90672	6.58 78.389479	6.58 478.43591
3.2905 270.93025	6.581 176.16097	6.581 81.35611	6.581 479.31828
3.291 275.57746	6.582 173.54226	6.582 83.215153	6.582 481.21956
3.2915 280.88177	6.583 171.44422	6.583 83.830117	6.583 483.84424
3.292 286.36795	6.584 170.20237	6.584 83.114392	6.584 486.91306
3.2925 291.43099	6.585 170.03668	6.585 81.052633	6.585 490.19213
3.293 295.43302	6.586 171.01095	6.586 77.743516	6.586 493.49225
3.2935 297.81546	6.587 173.01733	6.587 73.438011	6.587 496.64716
3.294 298.2019	6.588 175.79267	6.588 68.541374	6.588 499.48897
3.2945 296.47033	6.589 178.9673	6.589 63.559121	6.589 501.8392
3.295 292.7809	6.59 182.13791	6.59 58.993597	6.59 503.52431
3.2955 287.55521	6.591 184.94786	6.591 55.225572	6.591 504.41164
3.296 281.41326	6.592 187.15428	6.592 52.429473	6.592 504.45153
3.2965 275.08141	6.593 188.6643	6.593 50.562164	6.593 503.7091
3.297 269.28881	6.594 189.53209	6.594 49.435915	6.594 502.37327
3.2975 264.66948	6.595 189.91945	6.595 48.849316	6.595 500.73746
3.298 261.68407	6.596 190.03265	6.596 48.72267	6.596 499.15306
3.2985 260.56924	6.597 190.05303	6.597 49.179614	6.597 497.96185
3.299 261.31707	6.598 190.07936	6.598 50.536747	6.598 497.41865
3.2995 263.68168	6.599 190.09568	6.599 53.199431	6.599 497.62104
3.3 267.20935	6.6 189.97166	6.6 57.499466	6.6 498.46636
3.3005 271.28904	6.601 189.49407	6.601 63.534007	6.601 499.65409
3.301 275.22304	6.602 188.41957	6.602 71.065969	6.602 500.74179
3.3015 278.31626	6.603 186.53378	6.603 79.524427	6.603 501.24605
3.302 279.97878	6.604 183.70098	6.604 88.107931	6.604 500.76259
3.3025 279.82763	6.605 179.89434	6.605 95.958033	6.605 499.07029
3.303 277.76642	6.606 175.20427	6.606 102.34784	6.606 496.18743
3.3035 274.02003	6.607 169.82972	6.607 106.82871	6.607 492.36475
3.304 269.10861	6.608 164.0588	6.608 109.29599	6.608 488.02241
3.3045 263.76009	6.609 158.24191	6.609 109.96411	6.609 483.6559
3.305 258.77807	6.61 152.75644	6.61 109.26902	6.61 479.7421
3.3055 254.89446	6.611 147.96128	6.611 107.73428	6.611 476.66878
3.306 252.63963	6.612 144.14452	6.612 105.84031	6.612 474.6954
3.3065 252.25674	6.613 141.47541	6.613 103.92791	6.613 473.93809
3.307 253.67381	6.614 139.97683	6.614 102.15248	6.614 474.36659
3.3075 256.53344	6.615 139.53107	6.615 100.49068	6.615 475.80442
3.308 260.26896	6.616 139.92028	6.616 98.790204	6.616 477.93364
3.3085 264.20912	6.617 140.88817	6.617 96.846403	6.617 480.31214
3.309 267.69078	6.618 142.19946	6.618 94.487186	6.618 482.41063
3.3095 270.16073	6.619 143.67427	6.619 91.647043	6.619 483.66872
3.31 271.25153	6.62 145.18646	6.62 88.41314	6.62 483.55917
3.3105 270.82325	6.621 146.63256	6.621 85.030963	6.621 481.64415
3.311 268.96934	6.622 147.89204	6.622 81.865232	6.622 477.60983
3.3115 265.99065	6.623 148.80415	6.623 79.323014	6.623 471.27449
3.312 262.3445	6.624 149.17853	6.624 77.757613	6.624 462.57577
3.3125 258.57602	6.625 148.84055	6.625 77.379214	6.625 451.54957
3.313 255.23965	6.626 147.6954	6.626 78.197567	6.626 438.31339
3.3135 252.81935	6.627 145.78518	6.627 80.012603	6.627 423.06223
3.314 251.65832	6.628 143.31393	6.628 82.454144	6.628 406.07645

3.3145 251.90983	6.629 140.6268	6.629 85.057839	6.629 387.73373
3.315 253.51941	6.63 138.14531	6.63 87.356214	6.63 368.51263
3.3155 256.24364	6.631 136.27543	6.631 88.963059	6.631 348.97668
3.316 259.7029	6.632 135.31362	6.632 89.634702	6.632 329.73446
3.3165 263.45781	6.633 135.37645	6.633 89.299578	6.633 311.38093
3.317 267.09281	6.634 136.37275	6.634 88.054989	6.634 294.43284
3.3175 270.28883	6.635 138.02608	6.635 86.135708	6.635 279.27373
3.318 272.86892	6.636 139.94181	6.636 83.862803	6.636 266.12017
3.3185 274.80701	6.637 141.70124	6.637 81.583014	6.637 255.01321
3.319 276.19878	6.638 142.95688	6.638 79.609497	6.638 245.83285
3.3195 277.20312	6.639 143.50203	6.639 78.173746	6.639 238.32976
3.32 277.97123	6.64 143.29506	6.64 77.396307	6.64 232.16932
3.3205 278.58493	6.641 142.43339	6.641 77.280342	6.641 226.98308
3.321 279.02437	6.642 141.08888	6.642 77.727495	6.642 222.42156
3.3215 279.17677	6.643 139.42916	6.643 78.570349	6.643 218.19977
3.322 278.88484	6.644 137.55369	6.644 79.611755	6.644 214.12566
3.3225 278.0192	6.645 135.46653	6.645 80.660254	6.645 210.10546
3.323 276.55	6.646 133.09358	6.646 81.553996	6.646 206.1274
3.3235 274.59232	6.647 130.33559	6.647 82.171878	6.647 202.23287
3.324 272.40808	6.648 127.13518	6.648 82.436986	6.648 198.48707
3.3245 270.3614	6.649 123.53152	6.649 82.32001	6.649 194.95797
3.325 268.83942	6.65 119.68165	6.65 81.847258	6.65 191.70485
3.3255 268.16073	6.651 115.84	6.651 81.110631	6.651 188.77073
3.326 268.49697	6.652 112.3032	6.652 80.269936	6.652 186.1715
3.3265 269.82849	6.653 109.33964	6.653 79.535925	6.653 183.8788
3.327 271.94512	6.654 107.12706	6.654 79.128141	6.654 181.80097
3.3275 274.4909	6.655 105.71663	6.655 79.213111	6.655 179.77231
3.328 277.04102	6.656 105.03119	6.656 79.840691	6.656 177.56131
3.3285 279.19221	6.657 104.89381	6.657 80.902972	6.657 174.90262
3.329 280.64663	6.658 105.07623	6.658 82.136739	6.658 171.54832
3.3295 281.27212	6.659 105.35485	6.659 83.177104	6.659 167.32545
3.33 281.12744	6.66 105.56425	6.66 83.65107	6.66 162.18314
3.3305 280.44795	6.661 105.6396	6.661 83.283021	6.661 156.21594
3.331 279.59416	6.662 105.63988	6.662 81.976781	6.662 149.65737
3.3315 278.97192	6.663 105.74381	6.663 79.844629	6.663 142.84719
3.332 278.93924	6.664 106.21352	6.664 77.171163	6.664 136.18185
3.3325 279.71929	6.665 107.32906	6.665 74.323002	6.665 130.05992
3.333 281.3405	6.666 109.30749	6.666 71.635358	6.666 124.83207
3.3335 283.62128	6.667 112.2286	6.667 69.3158	6.667 120.76131
3.334 286.20782	6.668 115.99061	6.668 67.399979	6.668 117.99646
3.3345 288.66075	6.669 120.31115	6.669 65.775221	6.669 116.56008
3.335 290.57235	6.67 124.77458	6.67 64.262272	6.67 116.35226
3.3355 291.68552	6.671 128.91166	6.671 62.722903	6.671 117.17087
3.336 291.98139	6.672 132.2887	6.672 61.15058	6.672 118.74669
3.3365 291.70786	6.673 134.58301	6.673 59.707476	6.673 120.7872
3.337 291.33562	6.674 135.6287	6.674 58.691634	6.674 123.01905
3.3375 291.44895	6.675 135.42813	6.675 58.444815	6.675 125.21828
3.338 292.59857	6.676 134.1332	6.676 59.234032	6.676 127.22152
3.3385 295.15729	6.677 132.00569	6.677 61.149397	6.677 128.91902
3.339 299.21882	6.678 129.36633	6.678 64.054614	6.678 130.23728
3.3395 304.56728	6.679 126.5408	6.679 67.607361	6.679 131.12181

3.34 310.72226	6.68 123.81	6.68 71.342266	6.68 131.52666
3.3405 317.04186	6.681 121.37279	6.681 74.788124	6.681 131.41174
3.341 322.85102	6.682 119.3291	6.682 77.580334	6.682 130.74407
3.3415 327.56069	6.683 117.68852	6.683 79.532542	6.683 129.49946
3.342 330.75286	6.684 116.40288	6.684 80.64666	6.684 127.66492
3.3425 332.2216	6.685 115.4121	6.685 81.062454	6.685 125.2452
3.343 331.97473	6.686 114.68683	6.686 80.969032	6.686 122.27489
3.3435 330.2079	6.687 114.25097	6.687 80.513335	6.687 118.83176
3.344 327.26338	6.688 114.17548	6.688 79.740366	6.688 115.04061
3.3445 323.58204	6.689 114.54678	6.689 78.586346	6.689 111.0577
3.345 319.65243	6.69 115.42449	6.69 76.924417	6.69 107.03419
3.3455 315.95879	6.691 116.80684	6.691 74.641498	6.691 103.07127
3.346 312.92982	6.692 118.61742	6.692 71.713141	6.692 99.189407
3.3465 310.8916	6.693 120.71581	6.693 68.245441	6.693 95.332754
3.347 310.02894	6.694 122.92369	6.694 64.468047	6.694 91.414671
3.3475 310.36047	6.695 125.05189	6.695 60.683127	6.695 87.388968
3.348 311.7323	6.696 126.91667	6.696 57.192616	6.696 83.314684
3.3485 313.83401	6.697 128.34123	6.697 54.233004	6.697 79.38077
3.349 316.23815	6.698 129.149	6.698 51.941044	6.698 75.872712
3.3495 318.46077	6.699 129.16128	6.699 50.358607	6.699 73.088954
3.35 320.03577	6.7 128.21158	6.7 49.467831	6.7 71.238478
3.3505 320.59206	6.701 126.18128	6.701 49.236163	6.701 70.360687
3.351 319.92033	6.702 123.04945	6.702 49.649375	6.702 70.300472
3.3515 318.01632	6.703 118.93933	6.703 50.718612	6.703 70.749126
3.352 315.09046	6.704 114.13987	6.704 52.460521	6.704 71.335686
3.3525 311.53946	6.705 109.08593	6.705 54.861214	6.705 71.734169
3.353 307.88297	6.706 104.29441	6.706 57.840494	6.706 71.747374
3.3535 304.67742	6.707 100.26926	6.707 61.231131	6.707 71.3382
3.354 302.42506	6.708 97.401202	6.708 64.781089	6.708 70.600062
3.3545 301.49773	6.709 95.890653	6.709 68.178425	6.709 69.680644
3.355 302.08964	6.71 95.715576	6.71 71.092421	6.71 68.689744
3.3555 304.20377	6.711 96.65198	6.711 73.222059	6.711 67.626715
3.356 307.66688	6.712 98.339115	6.712 74.343303	6.712 66.355049
3.3565 312.16304	6.713 100.36969	6.713 74.348346	6.713 64.63415
3.357 317.27617	6.714 102.38038	6.714 73.271145	6.714 62.197985
3.3575 322.53659	6.715 104.12021	6.715 71.294046	6.715 58.854215
3.358 327.47012	6.716 105.4822	6.716 68.730905	6.716 54.571015
3.3585 331.64881	6.717 106.49502	6.717 65.984538	6.717 49.523521
3.359 334.73925	6.718 107.28202	6.718 63.481615	6.718 44.085057
3.3595 336.54154	6.719 108.00326	6.719 61.595594	6.719 38.76489
3.36 337.01119	6.72 108.79863	6.72 60.575182	6.72 34.108927
3.3605 336.25881	6.721 109.74706	6.721 60.498424	6.721 30.588989
3.361 334.52701	6.722 110.84955	6.722 61.26791	6.722 28.508537
3.3615 332.14796	6.723 112.03563	6.723 62.650943	6.723 27.947862
3.362 329.48809	6.724 113.18646	6.724 64.353663	6.724 28.760994
3.3625 326.8883	6.725 114.16543	6.725 66.105981	6.725 30.622344
3.363 324.60931	6.726 114.84758	6.726 67.730214	6.726 33.107644
3.3635 322.79236	6.727 115.14191	6.727 69.172287	6.727 35.785628
3.364 321.44391	6.728 115.00319	6.728 70.487942	6.728 38.296948
3.3645 320.44925	6.729 114.43214	6.729 71.79204	6.729 40.404471
3.365 319.61316	6.73 113.46473	6.73 73.190965	6.73 42.010133

3.3655 318.71889	6.731 112.15367	6.731 74.722613	6.731 43.143058
3.366 317.59093	6.732 110.54803	6.732 76.324589	6.732 43.928446
3.3665 316.14517	6.733 108.67882	6.733 77.840863	6.733 44.546914
3.367 314.41258	6.734 106.55876	6.734 79.063839	6.734 45.191874
3.3675 312.53	6.735 104.20031	6.735 79.79677	6.735 46.030646
3.368 310.70153	6.736 101.64824	6.736 79.914752	6.736 47.17436
3.3685 309.14398	6.737 99.014282	6.737 79.403737	6.737 48.661551
3.369 308.03546	6.738 96.495738	6.738 78.36556	6.738 50.459368
3.3695 307.4845	6.739 94.362367	6.739 76.989381	6.739 52.483366
3.37 307.52747	6.74 92.907337	6.74 75.500801	6.74 54.632225
3.3705 308.14936	6.741 92.374455	6.741 74.104907	6.741 56.828897
3.371 309.31198	6.742 92.887358	6.742 72.937986	6.742 59.056518
3.3715 310.97144	6.743 94.409251	6.743 72.037328	6.743 61.377568
3.372 313.07451	6.744 96.751237	6.744 71.333514	6.744 63.928306
3.3725 315.53699	6.745 99.62761	6.745 70.666498	6.745 66.886613
3.373 318.22064	6.746 102.73694	6.746 69.82434	6.746 70.418218
3.3735 320.92959	6.747 105.83764	6.747 68.598716	6.747 74.612563
3.374 323.441	6.748 108.79054	6.748 66.844007	6.748 79.423922
3.3745 325.56898	6.749 111.55596	6.749 64.520606	6.749 84.634851
3.375 327.24227	6.75 114.15212	6.75 61.704209	6.75 89.856115
3.3755 328.56369	6.751 116.59587	6.751 58.554283	6.751 94.569594
3.376 329.81947	6.752 118.85212	6.752 55.253171	6.752 98.209233
3.3765 331.42102	6.753 120.81212	6.753 51.942714	6.753 100.26331
3.377 333.78682	6.754 122.30798	6.754 48.688058	6.754 100.37362
3.3775 337.19733	6.755 123.15578	6.755 45.485527	6.755 98.40688
3.378 341.67117	6.756 123.20879	6.756 42.309338	6.756 94.481384
3.3785 346.90856	6.757 122.39937	6.757 39.172747	6.757 88.944849
3.379 352.32813	6.758 120.75442	6.758 36.173096	6.758 82.312249
3.3795 357.19302	6.759 118.38219	6.759 33.499424	6.759 75.181353
3.38 360.79283	6.76 115.44077	6.76 31.399565	6.76 68.145744
3.3805 362.6289	6.761 112.10627	6.761 30.12084	6.761 61.721426
3.381 362.54855	6.762 108.55581	6.762 29.847014	6.762 56.296383
3.3815 360.78875	6.763 104.96984	6.763 30.65236	6.763 52.10576
3.382 357.916	6.764 101.54542	6.764 32.484781	6.764 49.230822
3.3825 354.68067	6.765 98.50329	6.765 35.179131	6.765 47.617492
3.383 351.82871	6.766 96.073679	6.766 38.493341	6.766 47.109226
3.3835 349.92553	6.767 94.456258	6.767 42.155243	6.767 47.487962
3.384 349.24019	6.768 93.765089	6.768 45.907191	6.768 48.515746
3.3845 349.71621	6.769 93.980856	6.769 49.537858	6.769 49.96905
3.385 351.02596	6.77 94.934599	6.77 52.894935	6.77 51.658916
3.3855 352.68103	6.771 96.337647	6.771 55.87821	6.771 53.433638
3.386 354.15946	6.772 97.85508	6.772 58.418487	6.772 55.166386
3.3865 355.01477	6.773 99.202107	6.773 60.452729	6.773 56.736166
3.387 354.94698	6.774 100.23161	6.774 61.907537	6.774 58.0143
3.3875 353.83233	6.775 100.9817	6.775 62.700314	6.775 58.867488
3.388 351.71975	6.776 101.66442	6.776 62.759983	6.776 59.181787
3.3885 348.80487	6.777 102.5962	6.777 62.059712	6.777 58.901404
3.389 345.38961	6.778 104.09031	6.778 60.64713	6.778 58.066592
3.3895 341.83278	6.779 106.34421	6.779 58.657374	6.779 56.831247
3.39 338.49643	6.78 109.35669	6.78 56.301651	6.78 55.445979
3.3905 335.69548	6.781 112.90008	6.781 53.835309	6.781 54.205197

3.391 333.65912	6.782 116.55626	6.782 51.51796	6.782 53.371885
3.3915 332.51053	6.783 119.80577	6.783 49.578978	6.783 53.104491
3.392 332.26641	6.784 122.14443	6.784 48.19479	6.784 53.411656
3.3925 332.8515	6.785 123.19448	6.785 47.475281	6.785 54.151574
3.393 334.12127	6.786 122.78018	6.786 47.452421	6.786 55.077311
3.3935 335.88723	6.787 120.94987	6.787 48.068088	6.787 55.913617
3.394 337.94329	6.788 117.94367	6.788 49.166703	6.788 56.440687
3.3945 340.09427	6.789 114.12308	6.789 50.504546	6.789 56.559146
3.395 342.1864	6.79 109.88887	6.79 51.785347	6.79 56.317886
3.3955 344.13614	6.791 105.61416	6.791 52.721018	6.791 55.898712
3.396 345.94884	6.792 101.60948	6.792 53.103052	6.792 55.564792
3.3965 347.71819	6.793 98.121012	6.793 52.861889	6.793 55.58955
3.397 349.60035	6.794 95.348974	6.794 52.093233	6.794 56.186889
3.3975 351.7636	6.795 93.465869	6.795 51.040928	6.795 57.46186
3.398 354.32243	6.796 92.617892	6.796 50.04053	6.796 59.394096
3.3985 357.27205	6.797 92.903659	6.797 49.440136	6.797 61.856258
3.399 360.44245	6.798 94.33791	6.798 49.521082	6.798 64.659117
3.3995 363.48949	6.799 96.817043	6.799 50.439668	6.799 67.606821
3.4 365.93308	6.8 100.10459	6.8 52.203257	6.8 70.543249
3.4005 367.24011	6.801 103.848	6.801 54.682794	6.801 73.374435
3.401 366.9363	6.802 107.62684	6.802 57.652778	6.802 76.061786
3.4015 364.72056	6.803 111.02114	6.803 60.842604	6.803 78.592497
3.402 360.55245	6.804 113.6819	6.804 63.982515	6.804 80.942444
3.4025 354.68988	6.805 115.38485	6.805 66.833065	6.805 83.04918
3.403 347.6672	6.806 116.0538	6.806 69.196198	6.806 84.807628
3.4035 340.21945	6.807 115.74891	6.807 70.914352	6.807 86.091098
3.404 333.17028	6.808 114.62502	6.808 71.867543	6.808 86.78974
3.4045 327.3061	6.809 112.87399	6.809 71.976187	6.809 86.851649
3.405 323.25837	6.81 110.66892	6.81 71.211326	6.81 86.310818
3.4055 321.41138	6.811 108.12786	6.811 69.607844	6.811 85.290832
3.406 321.84856	6.812 105.30784	6.812 67.273183	6.812 83.981393
3.4065 324.3463	6.813 102.22968	6.813 64.384987	6.813 82.593717
3.407 328.41941	6.814 98.922166	6.814 61.174777	6.814 81.307597
3.4075 333.41425	6.815 95.466841	6.815 57.899027	6.815 80.225638
3.408 338.63477	6.816 92.024066	6.816 54.80243	6.816 79.347989
3.4085 343.47525	6.817 88.829107	6.817 52.080261	6.817 78.574571
3.409 347.52796	6.818 86.159485	6.818 49.847699	6.818 77.733472
3.4095 350.63716	6.819 84.285852	6.819 48.12368	6.819 76.626819
3.41 352.88478	6.82 83.423181	6.82 46.834809	6.82 75.081561
3.4105 354.51322	6.821 83.695907	6.821 45.840687	6.821 72.993282
3.411 355.81033	6.822 85.122871	6.822 44.976154	6.822 70.355274
3.4115 356.99381	6.823 87.620398	6.823 44.100178	6.823 67.269814
3.412 358.13241	6.824 91.017844	6.824 43.137452	6.824 63.94137
3.4125 359.12888	6.825 95.079621	6.825 42.099223	6.825 60.651441
3.413 359.769	6.826 99.529075	6.826 41.075023	6.826 57.714065
3.4135 359.81822	6.827 104.07093	6.827 40.195813	6.827 55.413195
3.414 359.13075	6.828 108.41003	6.828 39.579149	6.828 53.930287
3.4145 357.73117	6.829 112.26556	6.829 39.274873	6.829 53.280569
3.415 355.83738	6.83 115.38207	6.83 39.232236	6.83 53.283476
3.4155 353.81496	6.831 117.54047	6.831 39.304225	6.831 53.589368
3.416 352.07781	6.832 118.57222	6.832 39.29276	6.832 53.767967

3.4165 350.96997	6.833 118.37739	6.833 39.022892	6.833 53.438675
3.417 350.66968	6.834 116.94376	6.834 38.420937	6.834 52.400515
3.4175 351.14697	6.835 114.36097	6.835 37.566616	6.835 50.712401
3.418 352.18373	6.836 110.82356	6.836 36.695918	6.836 48.689098
3.4185 353.44164	6.837 106.61889	6.837 36.14807	6.837 46.809938
3.419 354.54862	6.838 102.09969	6.838 36.270633	6.838 45.572357
3.4195 355.17426	6.839 97.645034	6.839 37.312993	6.839 45.344309
3.42 355.0778	6.84 93.61614	6.84 39.343587	6.84 46.268573
3.4205 354.12887	6.841 90.314334	6.841 42.217973	6.841 48.248847
3.421 352.31264	6.842 87.947921	6.842 45.606767	6.842 51.013668
3.4215 349.73172	6.843 86.612553	6.843 49.072012	6.843 54.224788
3.422 346.60904	6.844 86.287058	6.844 52.165755	6.844 57.583526
3.4225 343.28559	6.845 86.844141	6.845 54.520578	6.845 60.895351
3.423 340.20078	6.846 88.073531	6.846 55.908745	6.846 64.074582
3.4235 337.84538	6.847 89.714268	6.847 56.260109	6.847 67.097536
3.424 336.68561	6.848 91.492682	6.848 55.643033	6.848 69.933036
3.4245 337.06858	6.849 93.162619	6.849 54.222138	6.849 72.486472
3.425 339.12955	6.85 94.543947	6.85 52.209802	6.85 74.585755
3.4255 342.72631	6.851 95.554301	6.851 49.825671	6.851 76.018287
3.426 347.42483	6.852 96.227714	6.852 47.272193	6.852 76.605601
3.4265 352.5502	6.853 96.713599	6.853 44.726974	6.853 76.285643
3.427 357.30164	6.854 97.251654	6.854 42.346652	6.854 75.16829
3.4275 360.91039	6.855 98.123322	6.855 40.273843	6.855 73.539089
3.428 362.80354	6.856 99.587354	6.856 38.639264	6.856 71.805339
3.4285 362.72918	6.857 101.81333	6.857 37.554957	6.857 70.399953
3.429 360.80616	6.858 104.82985	6.858 37.099601	6.858 69.67398
3.4295 357.48244	6.859 108.50155	6.859 37.300897	6.859 69.812266
3.43 353.41462	6.86 112.54201	6.86 38.121547	6.86 70.797328
3.4305 349.30666	6.861 116.5596	6.861 39.454619	6.861 72.4279
3.431 345.75784	6.862 120.12513	6.862 41.132081	6.862 74.378744
3.4315 343.16371	6.863 122.84479	6.863 42.947866	6.863 76.275937
3.432 341.6913	6.864 124.4225	6.864 44.693784	6.864 77.762056
3.4325 341.32144	6.865 124.69935	6.865 46.20273	6.865 78.537247
3.433 341.92777	6.866 123.66501	6.866 47.389549	6.866 78.377829
3.4335 343.35317	6.867 121.4427	6.867 48.277676	6.867 77.14483
3.434 345.4535	6.868 118.25494	6.868 49.001282	6.868 74.795175
3.4345 348.09815	6.869 114.38015	6.869 49.77884	6.869 71.399055
3.435 351.14	6.87 110.11081	6.87 50.862728	6.87 67.155122
3.4355 354.38077	6.871 105.72159	6.871 52.477257	6.871 62.388434
3.436 357.55869	6.872 101.45267	6.872 54.760988	6.872 57.519138
3.4365 360.37246	6.873 97.508777	6.873 57.727425	6.873 53.001608
3.437 362.53719	6.874 94.069195	6.874 61.252337	6.874 49.247909
3.4375 363.85236	6.875 91.299332	6.875 65.088972	6.875 46.558751
3.438 364.2556	6.876 89.352363	6.876 68.906464	6.876 45.084489
3.4385 363.8416	6.877 88.352438	6.877 72.342873	6.877 44.828256
3.439 362.83972	6.878 88.359388	6.878 75.062351	6.878 45.687645
3.4395 361.5595	6.879 89.326151	6.879 76.805685	6.879 47.517323
3.44 360.32525	6.88 91.068584	6.88 77.425394	6.88 50.188346
3.4405 359.42219	6.881 93.267219	6.881 76.900874	6.881 53.62281
3.441 359.06878	6.882 95.509782	6.882 75.335057	6.882 57.792975
3.4415 359.4158	6.883 97.366194	6.883 72.938927	6.883 62.687402

3.442 360.55912	6.884 98.472749	6.884 70.010988	6.884 68.257988
3.4425 362.548	6.885 98.59753	6.885 66.914436	6.885 74.367551
3.443 365.37552	6.886 97.667588	6.886 64.048204	6.886 80.756712
3.4435 368.95156	6.887 95.755352	6.887 61.804832	6.887 87.042258
3.444 373.07337	6.888 93.038183	6.888 60.512566	6.888 92.749716
3.4445 377.41634	6.889 89.752642	6.889 60.370449	6.889 97.373586
3.445 381.56336	6.89 86.161351	6.89 61.39676	6.89 100.45235
3.4455 385.07604	6.891 82.538727	6.891 63.41437	6.891 101.64331
3.446 387.5919	6.892 79.169431	6.892 66.086805	6.892 100.78411
3.4465 388.91764	6.893 76.346168	6.893 68.99937	6.893 97.930977
3.447 389.0866	6.894 74.354209	6.894 71.760433	6.894 93.367757
3.4475 388.35929	6.895 73.437418	6.895 74.089131	6.895 87.582299
3.448 387.16577	6.896 73.750837	6.896 75.861961	6.896 81.210521
3.4485 386.00707	6.897 75.313754	6.897 77.107751	6.897 74.953792
3.449 385.34417	6.898 77.981088	6.898 77.959505	6.898 69.48222
3.4495 385.50302	6.899 81.448092	6.899 78.583812	6.899 65.342273
3.45 386.6155	6.9 85.294217	6.9 79.110935	6.9 62.887998
3.4505 388.60438	6.901 89.059393	6.901 79.583661	6.901 62.248929
3.451 391.20991	6.902 92.334233	6.902 79.935368	6.902 63.336666
3.4515 394.04802	6.903 94.839507	6.903 80.000679	6.903 65.881307
3.452 396.68609	6.904 96.472348	6.904 79.556072	6.904 69.483987
3.4525 398.72	6.905 97.306663	6.905 78.38162	6.905 73.674277
3.453 399.83688	6.906 97.549741	6.906 76.328959	6.906 77.967838
3.4535 399.85271	6.907 97.470737	6.907 73.376578	6.907 81.924556
3.454 398.72171	6.908 97.324778	6.908 69.654747	6.908 85.206106
3.4545 396.52306	6.909 97.296098	6.909 65.430332	6.909 87.625226
3.455 393.43604	6.91 97.475158	6.91 61.054581	6.91 89.171949
3.4555 389.71435	6.911 97.871306	6.911 56.890155	6.911 90.000934
3.456 385.66443	6.912 98.449204	6.912 53.241646	6.912 90.37227
3.4565 381.62533	6.913 99.169292	6.913 50.312535	6.913 90.553963
3.457 377.94373	6.914 100.01317	6.914 48.200851	6.914 90.711607
3.4575 374.93962	6.915 100.98363	6.915 46.929623	6.915 90.821701
3.458 372.86522	6.916 102.08212	6.916 46.493667	6.916 90.643386
3.4585 371.86748	6.917 103.27719	6.917 46.898297	6.917 89.767565
3.459 371.96758	6.918 104.48163	6.918 48.171262	6.918 87.736756
3.4595 373.06628	6.919 105.55096	6.919 50.343817	6.919 84.202565
3.46 374.97429	6.92 106.30602	6.92 53.412487	6.92 79.070954
3.4605 377.45611	6.921 106.57137	6.921 57.301782	6.921 72.58593
3.461 380.27088	6.922 106.21571	6.922 61.84595	6.922 65.320757
3.4615 383.19728	6.923 105.18083	6.923 66.797623	6.923 58.075842
3.462 386.03929	6.924 103.49218	6.924 71.8595	6.924 51.712873
3.4625 388.62016	6.925 101.25111	6.925 76.728141	6.925 46.974373
3.463 390.77728	6.926 98.613758	6.926 81.138122	6.926 44.339837
3.4635 392.36754	6.927 95.762754	6.927 84.897773	6.927 43.954388
3.464 393.28432	6.928 92.876109	6.928 87.910915	6.928 45.640023
3.4645 393.47783	6.929 90.097493	6.929 90.181183	6.929 48.973293
3.465 392.96623	6.93 87.513142	6.93 91.797938	6.93 53.396028
3.4655 391.82787	6.931 85.142856	6.931 92.907102	6.931 58.32278
3.466 390.17367	6.932 82.951518	6.932 93.675617	6.932 63.218972
3.4665 388.10885	6.933 80.881343	6.933 94.261319	6.933 67.6411
3.467 385.69999	6.934 78.895223	6.934 94.797637	6.934 71.246213

3.4675 382.96382	6.935 77.01356	6.935 95.394556	6.935 73.785769
3.468 379.88699	6.936 75.326823	6.936 96.147926	6.936 75.097251
3.4685 376.4738	6.937 73.975271	6.937 97.143931	6.937 75.099357
3.469 372.80649	6.938 73.102042	6.938 98.448209	6.938 73.789005
3.4695 369.09432	6.939 72.798251	6.939 100.07848	6.939 71.23552
3.47 365.68783	6.94 73.062611	6.94 101.97073	6.94 67.569563
3.4705 363.04424	6.941 73.79159	6.941 103.95579	6.941 62.968577
3.471 361.64553	6.942 74.803111	6.942 105.76177	6.942 57.643032
3.4715 361.88753	6.943 75.883706	6.943 107.04886	6.943 51.82691
3.472 363.96946	6.944 76.841268	6.944 107.47009	6.944 45.772973
3.4725 367.81574	6.945 77.545503	6.945 106.74143	6.945 39.751008
3.473 373.05413	6.946 77.944648	6.946 104.70084	6.946 34.046835
3.4735 379.05956	6.947 78.056898	6.947 101.34058	6.947 28.96054
3.474 385.05623	6.948 77.94443	6.948 96.80738	6.948 24.802252
3.4745 390.25581	6.949 77.683761	6.949 91.376355	6.949 21.881904
3.475 394.00117	6.95 77.346305	6.95 85.410901	6.95 20.487437
3.4755 395.88341	6.951 76.997174	6.951 79.320634	6.951 20.847026
3.476 395.80672	6.952 76.710575	6.952 73.523205	6.952 23.077042
3.4765 393.98723	6.953 76.590818	6.953 68.408841	6.953 27.127367
3.477 390.88832	6.954 76.783512	6.954 64.303358	6.954 32.744103
3.4775 387.10982	6.955 77.465056	6.955 61.428516	6.955 39.470851
3.478 383.26017	6.956 78.808779	6.956 59.865788	6.956 46.700328
3.4785 379.84377	6.957 80.938334	6.957 59.535808	6.957 53.770671
3.479 377.18909	6.958 83.886538	6.958 60.205948	6.958 60.082651
3.4795 375.42971	6.959 87.576465	6.959 61.531271	6.959 65.203768
3.48 374.53308	6.96 91.831715	6.96 63.122391	6.96 68.928278
3.4805 374.35883	6.961 96.40959	6.961 64.623279	6.961 71.277388
3.481 374.72347	6.962 101.04154	6.962 65.777731	6.962 72.444552
3.4815 375.45216	6.963 105.46456	6.963 66.466869	6.963 72.707793
3.482 376.40874	6.964 109.43525	6.964 66.709745	6.964 72.338008
3.4825 377.50513	6.965 112.72998	6.965 66.630799	6.965 71.527985
3.483 378.69746	6.966 115.14352	6.966 66.407336	6.966 70.355647
3.4835 379.97608	6.967 116.49959	6.967 66.214594	6.967 68.782942
3.484 381.35272	6.968 116.67938	6.968 66.184609	6.968 66.683635
3.4845 382.84479	6.969 115.66253	6.969 66.388632	6.969 63.890178
3.485 384.45627	6.97 113.56523	6.97 66.843654	6.97 60.250266
3.4855 386.15866	6.971 110.65641	6.971 67.534528	6.971 55.684732
3.486 387.8793	6.972 107.33851	6.972 68.437652	6.972 50.238772
3.4865 389.50544	6.973 104.08982	6.973 69.532624	6.973 44.117975
3.487 390.9076	6.974 101.37899	6.974 70.795239	6.974 37.700626
3.4875 391.97704	6.975 99.572217	6.975 72.176089	6.975 31.519533
3.488 392.66339	6.976 98.858456	6.976 73.578764	6.976 26.210871
3.4885 392.99575	6.977 99.214071	6.977 74.854847	6.977 22.434018
3.489 393.075	6.978 100.41818	6.978 75.826644	6.978 20.773855
3.4895 393.0369	6.979 102.11488	6.979 76.335188	6.979 21.643108
3.49 392.99771	6.98 103.90445	6.98 76.297003	6.98 25.204668
3.4905 393.00186	6.981 105.43696	6.981 75.745971	6.981 31.330757
3.491 392.99101	6.982 106.48216	6.982 74.840581	6.982 39.607933
3.4915 392.80647	6.983 106.95881	6.983 73.830018	6.983 49.387003
3.492 392.22541	6.984 106.92047	6.984 72.988399	6.984 59.86832
3.4925 391.02087	6.985 106.50888	6.985 72.537665	6.985 70.207959

3.493 389.02881	6.986 105.89415	6.986 72.58224	6.986 79.628597
3.4935 386.20316	6.987 105.2218	6.987 73.073333	6.987 87.518969
3.494 382.6433	6.988 104.5805	6.988 73.81158	6.988 93.506257
3.4945 378.58511	6.989 103.99421	6.989 74.487519	6.989 97.487451
3.495 374.35765	6.99 103.43336	6.99 74.751784	6.99 99.610761
3.4955 370.31733	6.991 102.83472	6.991 74.300991	6.991 100.20805
3.496 366.77904	6.992 102.12106	6.992 72.960769	6.992 99.692473
3.4965 363.96397	6.993 101.21666	6.993 70.745337	6.993 98.447736
3.497 361.97726	6.994 100.05997	6.994 67.875654	6.994 96.740383
3.4975 360.81692	6.995 98.615951	6.995 64.746669	6.995 94.681204
3.498 360.40469	6.996 96.886792	6.996 61.847656	6.996 92.246016
3.4985 360.62377	6.997 94.915691	6.997 59.653883	6.997 89.345698
3.499 361.35072	6.998 92.777059	6.998 58.517754	6.998 85.918228
3.4995 362.47608	6.999 90.552453	6.999 58.588962	6.999 82.008576
3.5 363.9167	7 88.301056	7 59.785027	7 77.808512
3.5005 365.62493	7.001 86.040502	7.001 61.818717	7.001 73.644435
3.501 367.59707	7.002 83.751992	7.002 64.272255	7.002 69.920007
3.5015 369.8757	7.003 81.411816	7.003 66.695588	7.003 67.033928
3.502 372.5365	7.004 79.035531	7.004 68.70105	7.004 65.297385
3.5025 375.65255	7.005 76.710561	7.005 70.030578	7.005 64.871316
3.503 379.23928	7.006 74.595422	7.006 70.582006	7.006 65.734834
3.5035 383.19574	7.007 72.879267	7.007 70.393995	7.007 67.687463
3.504 387.26565	7.008 71.716238	7.008 69.600365	7.008 70.381256
3.5045 391.03946	7.009 71.16365	7.009 68.371188	7.009 73.374386
3.505 394.00707	7.01 71.153011	7.01 66.859052	7.01 76.194709
3.5055 395.65419	7.011 71.50792	7.011 65.165254	7.011 78.400663
3.506 395.58023	7.012 72.00128	7.012 63.333903	7.012 79.629031
3.5065 393.60836	7.013 72.427566	7.013 61.373417	7.013 79.624876
3.507 389.85873	7.014 72.662131	7.014 59.29641	7.014 78.256267
3.5075 384.76398	7.015 72.688799	7.015 57.162549	7.015 75.521342
3.508 379.01883	7.016 72.592362	7.016 55.107136	7.016 71.554382
3.5085 373.46965	7.017 72.525373	7.017 53.342405	7.017 66.630922
3.509 368.96472	7.018 72.663853	7.018 52.128116	7.018 61.163233
3.5095 366.19664	7.019 73.16472	7.019 51.719512	7.019 55.672942
3.51 365.57376	7.02 74.13302	7.02 52.309405	7.02 50.73132
3.5105 367.15251	7.021 75.602715	7.021 53.983418	7.021 46.869959
3.511 370.64801	7.022 77.531984	7.022 56.702391	7.022 44.479846
3.5115 375.5187	7.023 79.811706	7.023 60.315992	7.023 43.727379
3.512 381.09942	7.024 82.283546	7.024 64.600622	7.024 44.515247
3.5125 386.744	7.025 84.762487	7.025 69.306924	7.025 46.503295
3.513 391.9384	7.026 87.058898	7.026 74.200195	7.026 49.184649
3.5135 396.35819	7.027 88.997342	7.027 79.081354	7.027 51.99415
3.514 399.86538	7.028 90.432005	7.028 83.78506	7.028 54.417402
3.5145 402.4594	7.029 91.260016	7.029 88.161479	7.029 56.072255
3.515 404.20999	7.03 91.43343	7.03 92.054945	7.03 56.747394
3.5155 405.19985	7.031 90.969	7.031 95.293339	7.031 56.398357
3.516 405.49521	7.032 89.953478	7.032 97.696291	7.032 55.113276
3.5165 405.14714	7.033 88.541729	7.033 99.101098	7.033 53.065425
3.517 404.21273	7.034 86.945236	7.034 99.397099	7.034 50.467467
3.5175 402.77863	7.035 85.409165	7.035 98.555847	7.035 47.535954
3.518 400.97146	7.036 84.177468	7.036 96.646657	7.036 44.467612

3.5185 398.94822	7.037 83.448397	7.037 93.833181	7.037 41.424213
3.519 396.8707	7.038 83.327649	7.038 90.353087	7.038 38.52168
3.5195 394.87522	7.039 83.79155	7.039 86.486955	7.039 35.821107
3.52 393.05046	7.04 84.675124	7.04 82.523471	7.04 33.32292
3.5205 391.43142	7.041 85.696345	7.041 78.72681	7.041 30.968075
3.521 390.00956	7.042 86.517873	7.042 75.310519	7.042 28.650427
3.5215 388.75254	7.043 86.833978	7.043 72.421059	7.043 26.241777
3.522 387.62458	7.044 86.458936	7.044 70.132992	7.044 23.626913
3.5225 386.60045	7.045 85.389237	7.045 68.455831	7.045 20.741798
3.523 385.67083	7.046 83.818138	7.046 67.349526	7.046 17.605721
3.5235 384.84014	7.047 82.095517	7.047 66.742879	7.047 14.338429
3.524 384.11911	7.048 80.643469	7.048 66.548885	7.048 11.156272
3.5245 383.51334	7.049 79.852117	7.049 66.674329	7.049 8.3464269
3.525 383.00884	7.05 79.985871	7.05 67.026339	7.05 6.223904
3.5255 382.55713	7.051 81.126021	7.051 67.522294	7.051 5.0802609
3.526 382.06597	7.052 83.163192	7.052 68.107538	7.052 5.1341552
3.5265 381.40383	7.053 85.837235	7.053 68.777494	7.053 6.4919336
3.527 380.42402	7.054 88.808027	7.054 69.591419	7.054 9.1228848
3.5275 379.00707	7.055 91.732882	7.055 70.661684	7.055 12.850922
3.528 377.10976	7.056 94.326974	7.056 72.110187	7.056 17.363703
3.5285 374.80172	7.057 96.391748	7.057 74.00074	7.057 22.240916
3.529 372.27079	7.058 97.809443	7.058 76.273844	7.058 27.003292
3.5295 369.78741	7.059 98.514858	7.059 78.716782	7.059 31.180587
3.53 367.63498	7.06 98.463552	7.06 80.991125	7.06 34.389934
3.5305 366.02862	7.061 97.615538	7.061 82.715128	7.061 36.408191
3.531 365.05324	7.062 95.945215	7.062 83.572629	7.062 37.217687
3.5315 364.64682	7.063 93.474938	7.063 83.4068	7.063 37.00817
3.532 364.63747	7.064 90.317077	7.064 82.26384	7.064 36.129582
3.5325 364.82063	7.065 86.703262	7.065 80.374526	7.065 35.006919
3.533 365.0449	7.066 82.982794	7.066 78.088124	7.066 34.04274
3.5335 365.27187	7.067 79.583672	7.067 75.789679	7.067 33.537812
3.534 365.58697	7.068 76.944056	7.068 73.83097	7.068 33.652854
3.5345 366.16131	7.069 75.432841	7.069 72.490357	7.069 34.417384
3.535 367.1851	7.07 75.280722	7.07 71.958047	7.07 35.773057
3.5355 368.80313	7.071 76.537417	7.071 72.332321	7.071 37.627169
3.536 371.07672	7.072 79.060523	7.072 73.614424	7.072 39.892043
3.5365 373.98044	7.073 82.532449	7.073 75.701355	7.073 42.496598
3.537 377.4243	7.074 86.498257	7.074 78.387183	7.074 45.371495
3.5375 381.28297	7.075 90.418915	7.075 81.385671	7.075 48.421479
3.538 385.41501	7.076 93.737764	7.076 84.377721	7.076 51.502697
3.5385 389.66513	7.077 95.958004	7.077 87.072257	7.077 54.418512
3.539 393.85385	7.078 96.723685	7.078 89.258523	7.078 56.938045
3.5395 397.76672	7.079 95.888797	7.079 90.828812	7.079 58.832429
3.54 401.15606	7.08 93.55464	7.08 91.763602	7.08 59.91828
3.5405 403.76318	7.081 90.059779	7.081 92.088886	7.081 60.096896
3.541 405.3603	7.082 85.919947	7.082 91.828408	7.082 59.379659
3.5415 405.80267	7.083 81.73181	7.083 90.974567	7.083 57.89299
3.542 405.075	7.084 78.066501	7.084 89.490771	7.084 55.859615
3.5425 403.31557	7.085 75.380504	7.085 87.341058	7.085 53.557457
3.543 400.8069	7.086 73.962436	7.086 84.5288	7.086 51.263965
3.5435 397.93176	7.087 73.919528	7.087 81.122309	7.087 49.200302

3.544 395.10501	7.088 75.19424	7.088 77.252899	7.088 47.492996
3.5445 392.6988	7.089 77.594916	7.089 73.086058	7.089 46.166838
3.545 390.98051	7.09 80.82642	7.09 68.780828	7.09 45.171794
3.5455 390.0776	7.091 84.514748	7.091 64.458646	7.091 44.432698
3.546 389.97499	7.092 88.229026	7.092 60.197628	7.092 43.900386
3.5465 390.54251	7.093 91.5099	7.093 56.054505	7.093 43.582307
3.547 391.58288	7.094 93.912233	7.094 52.101778	7.094 43.540454
3.5475 392.88683	7.095 95.062697	7.095 48.459882	7.095 43.85985
3.548 394.27991	7.096 94.723076	7.096 45.306926	7.096 44.604142
3.5485 395.64738	7.097 92.843253	7.097 42.859609	7.097 45.779298
3.549 396.92948	7.098 89.587585	7.098 41.331675	7.098 47.320221
3.5495 398.0909	7.099 85.325001	7.099 40.884292	7.099 49.102211
3.55 399.07992	7.1 80.583214	7.1 41.583326	7.1 50.967034
3.5505 399.80004	7.101 75.976213	7.101 43.373228	7.101 52.748402
3.551 400.11309	7.102 72.11859	7.102 46.070551	7.102 54.285935
3.5515 399.87806	7.103 69.540087	7.103 49.375311	7.103 55.426563
3.552 399.0103	7.104 68.611416	7.104 52.896756	7.104 56.021291
3.5525 397.53225	7.105 69.490227	7.105 56.190456	7.105 55.92803
3.553 395.58833	7.106 72.094872	7.106 58.804326	7.106 55.026659
3.5535 393.41263	7.107 76.112135	7.107 60.331078	7.107 53.244084
3.554 391.2617	7.108 81.041459	7.108 60.463549	7.108 50.579975
3.5545 389.34226	7.109 86.271659	7.109 59.047399	7.109 47.121833
3.555 387.76544	7.11 91.178059	7.11 56.123293	7.11 43.04167
3.5555 386.54505	7.111 95.221337	7.111 51.948416	7.111 38.573745
3.556 385.63541	7.112 98.027188	7.112 46.986663	7.112 33.98018
3.5565 384.98539	7.113 99.429939	7.113 41.859773	7.113 29.516155
3.557 384.58077	7.114 99.472577	7.114 37.259482	7.114 25.406785
3.5575 384.455	7.115 98.36752	7.115 33.832295	7.115 21.843205
3.558 384.66658	7.116 96.432714	7.116 32.060287	7.116 18.996873
3.5585 385.25721	7.117 94.022712	7.117 32.167905	7.117 17.041709
3.559 386.2137	7.118 91.472324	7.118 34.081864	7.118 16.167938
3.5595 387.45359	7.119 89.062443	7.119 37.457967	7.119 16.573267
3.56 388.84311	7.12 87.007085	7.12 41.769171	7.12 18.426813
3.5605 390.24077	7.121 85.452587	7.121 46.430574	7.121 21.815133
3.561 391.54828	7.122 84.477881	7.122 50.926566	7.122 26.690792
3.5615 392.74652	7.123 84.089337	7.123 54.906889	7.123 32.845762
3.562 393.90075	7.124 84.211919	7.124 58.230555	7.124 39.923018
3.5625 395.13204	7.125 84.685344	7.125 60.954091	7.125 47.46397
3.563 396.56681	7.126 85.27555	7.126 63.276423	7.126 54.974947
3.5635 398.28539	7.127 85.707252	7.127 65.461657	7.127 61.989907
3.564 400.29008	7.128 85.71494	7.128 67.76127	7.128 68.111564
3.5645 402.50382	7.129 85.1016	7.129 70.351025	7.129 73.025703
3.565 404.79677	7.13 83.789978	7.13 73.289709	7.13 76.49639
3.5655 407.02656	7.131 81.851824	7.131 76.500774	7.131 78.356544
3.566 409.07457	7.132 79.505542	7.132 79.77584	7.132 78.506351
3.5665 410.86515	7.133 77.080371	7.133 82.799543	7.133 76.923954
3.567 412.36502	7.134 74.953596	7.134 85.195459	7.134 73.683991
3.5675 413.56979	7.135 73.47434	7.135 86.590356	7.135 68.974415
3.568 414.48993	7.136 72.891492	7.136 86.688832	7.136 63.101809
3.5685 415.1466	7.137 73.302584	7.137 85.344492	7.137 56.478566
3.569 415.58085	7.138 74.634897	7.138 82.610447	7.138 49.589577

3.5695 415.87067	7.139 76.661176	7.139 78.753492	7.139 42.940779
3.57 416.1434	7.14 79.043303	7.14 74.223507	7.14 36.99719
3.5705 416.56951	7.141 81.39153	7.141 69.580981	7.141 32.123681
3.571 417.32907	7.142 83.326351	7.142 65.397693	7.142 28.544904
3.5715 418.5538	7.143 84.533743	7.143 62.154284	7.143 26.337831
3.572 420.26099	7.144 84.809563	7.144 60.16003	7.144 25.459699
3.5725 422.30535	7.145 84.091675	7.145 59.513354	7.145 25.79923
3.573 424.37499	7.146 82.477721	7.146 60.108725	7.146 27.227666
3.5735 426.04554	7.147 80.223716	7.147 61.681696	7.147 29.625952
3.574 426.88583	7.148 77.717351	7.148 63.874576	7.148 32.877194
3.5745 426.58611	7.149 75.423156	7.149 66.303997	7.149 36.832806
3.575 425.06641	7.15 73.804782	7.15 68.617542	7.15 41.275707
3.5755 422.52429	7.151 73.239488	7.151 70.535198	7.151 45.905648
3.576 419.39963	7.152 73.946465	7.152 71.8776	7.152 50.359649
3.5765 416.26239	7.153 75.949443	7.153 72.583579	7.153 54.262336
3.577 413.65749	7.154 79.084595	7.154 72.715671	7.154 57.287416
3.5775 411.95748	7.155 83.050165	7.155 72.44801	7.155 59.209504
3.578 411.27161	7.156 87.480469	7.156 72.031106	7.156 59.933778
3.5785 411.44027	7.157 92.019658	7.157 71.734224	7.157 59.502524
3.579 412.11299	7.158 96.372749	7.158 71.776215	7.158 58.084808
3.5795 412.87917	7.159 100.32218	7.159 72.264051	7.159 55.955362
3.58 413.40352	7.16 103.71301	7.16 73.159702	7.16 53.464184
3.5805 413.5197	7.161 106.42305	7.161 74.28812	7.161 50.995056
3.581 413.25389	7.162 108.33983	7.162 75.385085	7.162 48.913115
3.5815 412.77782	7.163 109.36204	7.163 76.169783	7.163 47.508227
3.582 412.31565	7.164 109.42948	7.164 76.419648	7.164 46.947359
3.5825 412.04377	7.165 108.56908	7.165 76.026375	7.165 47.250188
3.583 412.02067	7.166 106.93209	7.166 75.020055	7.166 48.295631
3.5835 412.16943	7.167 104.79607	7.167 73.5582	7.167 49.855629
3.584 412.31407	7.168 102.51772	7.168 71.884456	7.168 51.642487
3.5845 412.2521	7.169 100.44359	7.169 70.267302	7.169 53.353067
3.585 411.83461	7.17 98.807708	7.17 68.932955	7.17 54.698542
3.5855 411.02645	7.171 97.655755	7.171 68.009414	7.171 55.418696
3.586 409.92851	7.172 96.829177	7.172 67.49818	7.172 55.288541
3.5865 408.75898	7.173 96.020329	7.173 67.284158	7.173 54.127423
3.587 407.8032	7.174 94.881525	7.174 67.182433	7.174 51.816293
3.5875 407.34852	7.175 93.149394	7.175 67.006709	7.175 48.321225
3.588 407.62073	7.176 90.741124	7.176 66.634894	7.176 43.715461
3.5885 408.73346	7.177 87.791889	7.177 66.047828	7.177 38.19137
3.589 410.65787	7.178 84.62581	7.178 65.328086	7.178 32.056904
3.5895 413.21675	7.179 81.675012	7.179 64.622309	7.179 25.715677
3.59 416.10649	7.18 79.374513	7.18 64.084615	7.18 19.632868
3.5905 418.94746	7.181 78.062377	7.181 63.824239	7.181 14.290373
3.591 421.3564	7.182 77.90804	7.182 63.875839	7.182 10.135189
3.5915 423.02502	7.183 78.881903	7.183 64.199579	7.183 7.5263771
3.592 423.78251	7.184 80.769389	7.184 64.705896	7.184 6.6878915
3.5925 423.62176	7.185 83.223735	7.185 65.292122	7.185 7.675682
3.593 422.68022	7.186 85.843623	7.186 65.876623	7.186 10.365983
3.5935 421.18282	7.187 88.255383	7.187 66.419847	7.187 14.467802
3.594 419.36818	7.188 90.177334	7.188 66.927873	7.188 19.557873
3.5945 417.42408	7.189 91.448362	7.189 67.440181	7.189 25.132819

3.595 415.45313	7.19 92.014496	7.19 68.007886	7.19 30.67163
3.5955 413.47746	7.191 91.882769	7.191 68.670689	7.191 35.700994
3.596 411.47786	7.192 91.064849	7.192 69.440269	7.192 39.855254
3.5965 409.45187	7.193 89.53758	7.193 70.294995	7.193 42.921688
3.597 407.46932	7.194 87.240372	7.194 71.186686	7.194 44.861925
3.5975 405.70393	7.195 84.11282	7.195 72.056147	7.195 45.80313
3.598 404.42517	7.196 80.157234	7.196 72.851622	7.196 45.9986
3.5985 403.94654	7.197 75.498612	7.197 73.543871	7.197 45.764885
3.599 404.5403	7.198 70.414782	7.198 74.133124	7.198 45.408961
3.5995 406.34219	7.199 65.321365	7.199 74.646053	7.199 45.16225
3.6 409.2762	7.2 60.713863	7.2 75.124156	7.2 45.137514
3.6005 413.02665	7.201 57.084191	7.201 75.607787	7.201 45.319982
3.601 417.07229	7.202 54.835671	7.202 76.121744	7.202 45.59614
3.6015 420.77876	7.203 54.21779	7.203 76.66828	7.203 45.813215
3.602 423.52772	7.204 55.293447	7.204 77.231317	7.204 45.851871
3.6025 424.84916	7.205 57.941488	7.205 77.79189	7.205 45.687567
3.603 424.5215	7.206 61.889545	7.206 78.350298	7.206 45.416603
3.6035 422.6137	7.207 66.767608	7.207 78.94682	7.207 45.233417
3.604 419.46008	7.208 72.170843	7.208 79.671846	7.208 45.363959
3.6045 415.57775	7.209 77.720079	7.209 80.659053	7.209 45.979282
3.605 411.55186	7.21 83.109552	7.21 82.061155	7.21 47.124415
3.6055 407.92059	7.211 88.133866	7.211 84.014563	7.211 48.693691
3.606 405.0884	7.212 92.68978	7.212 86.603797	7.212 50.464679
3.6065 403.28466	7.213 96.753503	7.213 89.836262	7.213 52.176979
3.607 402.56969	7.214 100.34029	7.214 93.633258	7.214 53.621655
3.6075 402.87648	7.215 103.45908	7.215 97.836442	7.215 54.702719
3.608 404.06851	7.216 106.07839	7.216 102.22429	7.216 55.446242
3.6085 405.99376	7.217 108.11765	7.217 106.53285	7.217 55.958022
3.609 408.52082	7.218 109.47051	7.218 110.47837	7.218 56.353901
3.6095 411.55235	7.219 110.05376	7.219 113.78311	7.219 56.696214
3.61 415.01972	7.22 109.86389	7.22 116.20569	7.22 56.961917
3.6105 418.86738	7.221 109.01778	7.221 117.57331	7.221 57.049229
3.611 423.03488	7.222 107.75814	7.222 117.8074	7.222 56.811493
3.6115 427.44166	7.223 106.41762	7.223 116.93226	7.223 56.099157
3.612 431.97578	7.224 105.351	7.224 115.06064	7.224 54.79482
3.6125 436.48699	7.225 104.8566	7.225 112.36042	7.225 52.836467
3.613 440.7852	7.226 105.11028	7.226 109.01621	7.226 50.231687
3.6135 444.64686	7.227 106.12887	7.227 105.20242	7.227 47.066113
3.614 447.83127	7.228 107.7678	7.228 101.0779	7.228 43.504373
3.6145 450.10656	7.229 109.74785	7.229 96.799081	7.229 39.778051
3.615 451.28198	7.23 111.70065	7.23 92.537295	7.23 36.15759
3.6155 451.24089	7.231 113.22358	7.231 88.482959	7.231 32.913026
3.616 449.96827	7.232 113.93865	7.232 84.827408	7.232 30.275961
3.6165 447.56701	7.233 113.55205	7.233 81.726916	7.233 28.415423
3.617 444.2583	7.234 111.90985	7.234 79.265401	7.234 27.432104
3.6175 440.36294	7.235 109.04074	7.235 77.435107	7.235 27.364118
3.618 436.26395	7.236 105.17273	7.236 76.146757	7.236 28.191557
3.6185 432.3549	7.237 100.71134	7.237 75.2666	7.237 29.831318
3.619 428.98286	7.238 96.175197	7.238 74.665082	7.238 32.125311
3.6195 426.39748	7.239 92.098201	7.239 74.257035	7.239 34.835737
3.62 424.71632	7.24 88.921253	7.24 74.018331	7.24 37.662491

3.6205 423.91286	7.241 86.903327	7.241 73.975581	7.241 40.287995
3.621 423.82831	7.242 86.077253	7.242 74.177159	7.242 42.43953
3.6215 424.20427	7.243 86.260989	7.243 74.659904	7.243 43.947542
3.622 424.73144	7.244 87.116699	7.244 75.424082	7.244 44.777434
3.6225 425.1083	7.245 88.236031	7.245 76.422179	7.245 45.02253
3.623 425.10313	7.246 89.226215	7.246 77.559669	7.246 44.861843
3.6235 424.61017	7.247 89.777659	7.247 78.702633	7.247 44.499944
3.624 423.68803	7.248 89.704236	7.248 79.688988	7.248 44.111794
3.6245 422.56713	7.249 88.95604	7.249 80.344759	7.249 43.811237
3.625 421.61559	7.25 87.607937	7.25 80.509941	7.25 43.650804
3.6255 421.26105	7.251 85.827565	7.251 80.076455	7.251 43.64758
3.626 421.87948	7.252 83.827255	7.252 79.033358	7.252 43.820039
3.6265 423.67614	7.253 81.808077	7.253 77.505129	7.253 44.217195
3.627 426.59424	7.254 79.908921	7.254 75.763545	7.254 44.92511
3.6275 430.2865	7.255 78.175257	7.255 74.197157	7.255 46.045457
3.628 434.17091	7.256 76.557819	7.256 73.235783	7.256 47.653055
3.6285 437.5663	7.257 74.941804	7.257 73.245882	7.257 49.749338
3.629 439.87412	7.258 73.196755	7.258 74.427792	7.258 52.232189
3.6295 440.75133	7.259 71.230869	7.259 76.7496	7.259 54.897265
3.63 440.21657	7.26 69.033593	7.26 79.941849	7.26 57.47389
3.6305 438.65063	7.261 66.695598	7.261 83.556644	7.261 59.685029
3.631 436.6881	7.262 64.402607	7.262 87.072934	7.262 61.312078
3.6315 435.03469	7.263 62.405957	7.263 90.015987	7.263 62.244633
3.632 434.27059	7.264 60.977417	7.264 92.057819	7.264 62.5023
3.6325 434.70241	7.265 60.358396	7.265 93.074901	7.265 62.225409
3.633 436.30611	7.266 60.714647	7.266 93.154089	7.266 61.639606
3.6335 438.76915	7.267 62.106116	7.267 92.551286	7.267 61.00342
3.634 441.60684	7.268 64.477516	7.268 91.616735	7.268 60.549096
3.6345 444.30719	7.269 67.669175	7.269 90.705725	7.269 60.427407
3.635 446.45686	7.27 71.442021	7.27 90.094913	7.27 60.667829
3.6355 447.81478	7.271 75.507812	7.271 89.922657	7.271 61.164873
3.636 448.32294	7.272 79.557023	7.272 90.16622	7.272 61.697202
3.6365 448.06556	7.273 83.281209	7.273 90.659321	7.273 61.977543
3.637 447.20217	7.274 86.391154	7.274 91.142403	7.274 61.720766
3.6375 445.90265	7.275 88.634162	7.275 91.32902	7.275 60.709686
3.638 444.30536	7.276 89.812534	7.276 90.968816	7.276 58.837604
3.6385 442.50552	7.277 89.802182	7.277 89.892112	7.277 56.114861
3.639 440.56708	7.278 88.568272	7.278 88.030629	7.278 52.640636
3.6395 438.543	7.279 86.175282	7.279 85.418596	7.279 48.554952
3.64 436.48912	7.28 82.791308	7.28 82.183298	7.28 43.993278
3.6405 434.46535	7.281 78.688152	7.281 78.532387	7.281 39.063812
3.641 432.52945	7.282 74.237205	7.282 74.738899	7.282 33.856608
3.6415 430.73498	7.283 69.896639	7.283 71.119011	7.283 28.478709
3.642 429.14247	7.284 66.181325	7.284 67.996639	7.284 23.096807
3.6425 427.84141	7.285 63.607796	7.285 65.654433	7.285 17.963969
3.643 426.96844	7.286 62.614994	7.286 64.279707	7.286 13.41194
3.6435 426.70239	7.287 63.474773	7.287 63.92084	7.287 9.8036829
3.644 427.22502	7.288 66.217485	7.288 64.47003	7.288 7.4569448
3.6445 428.65424	7.289 70.599812	7.289 65.680858	7.289 6.5621992
3.645 430.97397	7.29 76.131256	7.29 67.217138	7.29 7.122257
3.6455 433.9924	7.291 82.156252	7.291 68.718794	7.291 8.9347579

3.646 437.35174	7.292 87.969651	7.292 69.865676	7.292 11.62542
3.6465 440.59221	7.293 92.933657	7.293 70.423215	7.293 14.724479
3.647 443.25118	7.294 96.567903	7.294 70.262237	7.294 17.766247
3.6475 444.96487	7.295 98.5979	7.295 69.355024	7.295 20.385436
3.648 445.5411	7.296 98.962568	7.296 67.756386	7.296 22.384819
3.6485 444.98558	7.297 97.791667	7.297 65.58012	7.297 23.75681
3.649 443.48252	7.298 95.365919	7.298 62.978275	7.298 24.654808
3.6495 441.34481	7.299 92.068984	7.299 60.125652	7.299 25.325529
3.65 438.95423	7.3 88.336088	7.3 57.208156	7.3 26.025855
3.6505 436.70752	7.301 84.602357	7.301 54.412511	7.301 26.951737
3.651 434.97424	7.302 81.254931	7.302 51.916282	7.302 28.199852
3.6515 434.06397	7.303 78.594281	7.303 49.878954	7.303 29.767559
3.652 434.19633	7.304 76.809391	7.304 48.435165	7.304 31.580485
3.6525 435.47029	7.305 75.968336	7.305 47.689536	7.305 33.527798
3.653 437.83585	7.306 76.022179	7.306 47.710732	7.306 35.487252
3.6535 441.078	7.307 76.818458	7.307 48.522529	7.307 37.333237
3.654 444.82571	7.308 78.121716	7.308 50.092643	7.308 38.934014
3.6545 448.59512	7.309 79.640981	7.309 52.324275	7.309 40.151404
3.655 451.8672	7.31 81.064943	7.31 55.05756	7.31 40.853674
3.6555 454.18727	7.311 82.103188	7.311 58.086148	7.311 40.942936
3.656 455.26345	7.312 82.527148	7.312 61.18828	7.312 40.388377
3.6565 455.03609	7.313 82.20084	7.313 64.165068	7.313 39.252142
3.657 453.6952	7.314 81.09247	7.314 66.874743	7.314 37.697545
3.6575 451.6366	7.315 79.264276	7.315 69.252586	7.315 35.976461
3.658 449.36565	7.316 76.846671	7.316 71.311358	7.316 34.399335
3.6585 447.3751	7.317 74.008723	7.317 73.123854	7.317 33.293825
3.659 446.03172	7.318 70.936354	7.318 74.794547	7.318 32.957067
3.6595 445.50387	7.319 67.822696	7.319 76.429581	7.319 33.605013
3.66 445.74769	7.32 64.866138	7.32 78.113152	7.32 35.323245
3.6605 446.54997	7.321 62.266405	7.321 79.894744	7.321 38.027449
3.661 447.60804	7.322 60.210714	7.322 81.78739	7.322 41.445533
3.6615 448.61776	7.323 58.849346	7.323 83.773619	7.323 45.13342
3.662 449.34322	7.324 58.267957	7.324 85.814217	7.324 48.530506
3.6625 449.65238	7.325 58.467813	7.325 87.855655	7.325 51.049547
3.663 449.51759	7.326 59.362823	7.326 89.834445	7.326 52.183365
3.6635 448.99101	7.327 60.795413	7.327 91.679545	7.327 51.602387
3.664 448.17006	7.328 62.565733	7.328 93.315628	7.328 49.216912
3.6645 447.16581	7.329 64.464198	7.329 94.669753	7.329 45.186995
3.665 446.08187	7.33 66.297718	7.33 95.681799	7.33 39.878329
3.6655 445.0047	7.331 67.90466	7.331 96.316269	7.331 33.778737
3.666 444.00275	7.332 69.160044	7.332 96.571296	7.332 27.400947
3.6665 443.13073	7.333 69.97743	7.333 96.480903	7.333 21.198985
3.667 442.43624	7.334 70.314657	7.334 96.10856	7.334 15.517693
3.6675 441.9676	7.335 70.186294	7.335 95.532914	7.335 10.580909
3.668 441.78165	7.336 69.678401	7.336 94.828969	7.336 6.5096801
3.6685 441.94956	7.337 68.954785	7.337 94.049587	7.337 3.3532054
3.669 442.55734	7.338 68.242607	7.338 93.212722	7.338 1.1151574
3.6695 443.69768	7.339 67.79091	7.339 92.299375	7.339 -0.234069
3.67 445.45209	7.34 67.807115	7.34 91.265187	7.34 -0.757595
3.6705 447.86595	7.341 68.38904	7.341 90.06466	7.341 -0.555113
3.671 450.92318	7.342 69.477535	7.342 88.681563	7.342 0.2417508

3.6715 454.52884	7.343 70.852556	7.343 87.154481	7.343 1.4859267
3.672 458.5065	7.344 72.182556	7.344 85.585461	7.344 3.0384916
3.6725 462.61343	7.345 73.117471	7.345 84.124487	7.345 4.7890368
3.673 466.57125	7.346 73.397196	7.346 82.932186	7.346 6.6637824
3.6735 470.10564	7.347 72.938697	7.347 82.133727	7.347 8.619495
3.674 472.98584	7.348 71.870608	7.348 81.782809	7.348 10.629336
3.6745 475.05482	7.349 70.502738	7.349 81.851821	7.349 12.670746
3.675 476.24306	7.35 69.241634	7.35 82.253253	7.35 14.723145
3.6755 476.56363	7.351 68.481948	7.351 82.883118	7.351 16.776457
3.676 476.09242	7.352 68.509104	7.352 83.66704	7.352 18.844472
3.6765 474.94357	7.353 69.440401	7.353 84.588975	7.353 20.973738
3.677 473.25162	7.354 71.214617	7.354 85.691559	7.354 23.240419
3.6775 471.16832	7.355 73.623169	7.355 87.050825	7.355 25.732767
3.678 468.87222	7.356 76.366332	7.356 88.739012	7.356 28.522848
3.6785 466.57802	7.357 79.117773	7.357 90.792027	7.357 31.63523
3.679 464.52796	7.358 81.586446	7.358 93.19223	7.358 35.021634
3.6795 462.95257	7.359 83.57061	7.359 95.86677	7.359 38.549069
3.68 462.00366	7.36 85.000129	7.36 98.693285	7.36 42.005556
3.6805 461.681	7.361 85.96027	7.361 101.50295	7.361 45.122932
3.681 461.78566	7.362 86.68712	7.362 104.0767	7.362 47.611774
3.6815 461.93048	7.363 87.526385	7.363 106.14016	7.363 49.200783
3.682 461.61971	7.364 88.856171	7.364 107.37096	7.364 49.673533
3.6825 460.38393	7.365 90.987904	7.365 107.43234	7.365 48.898998
3.683 457.93214	7.366 94.071674	7.366 106.03849	7.366 46.856257
3.6835 454.27192	7.367 98.0362	7.367 103.04063	7.367 43.654486
3.684 449.75463	7.368 102.58586	7.368 98.50728	7.368 39.544989
3.6845 445.02456	7.369 107.25957	7.369 92.76438	7.369 34.915125
3.685 440.88083	7.37 111.5355	7.37 86.368638	7.37 30.250545
3.6855 438.08882	7.371 114.94987	7.371 80.00955	7.371 26.058255
3.686 437.19432	7.372 117.19463	7.372 74.363837	7.372 22.759156
3.6865 438.3931	7.373 118.1675	7.373 69.947664	7.373 20.578258
3.687 441.49132	7.374 117.96622	7.374 67.015393	7.374 19.472497
3.6875 445.96398	7.375 116.8376	7.375 65.536142	7.375 19.130766
3.688 451.08913	7.376 115.10403	7.376 65.249015	7.376 19.057612
3.6885 456.11525	7.377 113.0921	7.377 65.769475	7.377 18.719941
3.689 460.41438	7.378 111.08037	7.378 66.705864	7.378 17.709556
3.6895 463.58405	7.379 109.27195	7.379 67.750835	7.379 15.866083
3.69 465.48188	7.38 107.78793	7.38 68.730511	7.38 13.31883
3.6905 466.19761	7.381 106.67328	7.381 69.612766	7.381 10.436227
3.691 465.98187	7.382 105.90837	7.382 70.485479	7.382 7.7045708
3.6915 465.15608	7.383 105.42246	7.383 71.515058	7.383 5.5804861
3.692 464.02515	7.384 105.10909	7.384 72.890877	7.384 4.3658816
3.6925 462.80954	7.385 104.84353	7.385 74.76033	7.385 4.1407964
3.693 461.60714	7.386 104.50173	7.386 77.164527	7.386 4.7658438
3.6935 460.39007	7.387 103.97872	7.387 79.992174	7.387 5.9425546
3.694 459.03478	7.388 103.20433	7.388 82.971299	7.388 7.3053632
3.6945 457.37642	7.389 102.15452	7.389 85.710104	7.389 8.5165449
3.695 455.27296	7.39 100.85691	7.39 87.781185	7.39 9.3424085
3.6955 452.66206	7.391 99.38912	7.391 88.825497	7.391 9.6993539
3.696 449.59706	7.392 97.868666	7.392 88.643026	7.392 9.6664898
3.6965 446.25478	7.393 96.43403	7.393 87.241457	7.393 9.465634

3.697 442.91482	7.394 95.218695	7.394 84.82993	7.394 9.4118062
3.6975 439.91588	7.395 94.322177	7.395 81.764598	7.395 9.8410014
3.698 437.59838	7.396 93.783662	7.396 78.467192	7.396 11.027955
3.6985 436.24559	7.397 93.564505	7.397 75.342017	7.397 13.1121
3.699 436.03665	7.398 93.545533	7.398 72.711496	7.398 16.050805
3.6995 437.02317	7.399 93.543738	7.399 70.780409	7.399 19.61316
3.7 439.13543	7.4 93.34949	7.4 69.629756	7.4 23.416773
3.7005 442.21465	7.401 92.779322	7.401 69.235443	7.401 26.998696
3.701 446.05815	7.402 91.731997	7.402 69.504243	7.402 29.903834
3.7015 450.45971	7.403 90.230422	7.403 70.317706	7.403 31.771338
3.702 455.23113	7.404 88.433044	7.404 71.572982	7.404 32.400772
3.7025 460.20202	7.405 86.606997	7.405 73.208883	7.405 31.784073
3.703 465.20698	7.406 85.068526	7.406 75.208141	7.406 30.096196
3.7035 470.0761	7.407 84.108281	7.407 77.573795	7.407 27.647192
3.704 474.64082	7.408 83.92417	7.408 80.287492	7.408 24.809763
3.7045 478.75583	7.409 84.580653	7.409 83.266101	7.409 21.945182
3.705 482.32489	7.41 86.002948	7.41 86.336065	7.41 19.351748
3.7055 485.31342	7.411 88.002656	7.411 89.239797	7.411 17.250958
3.706 487.73627	7.412 90.322736	7.412 91.676458	7.412 15.809867
3.7065 489.62291	7.413 92.686885	7.413 93.365472	7.413 15.181212
3.707 490.97566	7.414 94.840933	7.414 94.111149	7.414 15.534292
3.7075 491.74283	7.415 96.57948	7.415 93.845472	7.415 17.054129
3.708 491.82285	7.416 97.757091	7.416 92.634263	7.416 19.901756
3.7085 491.10206	7.417 98.287891	7.417 90.64621	7.417 24.147053
3.709 489.51293	7.418 98.139621	7.418 88.098639	7.418 29.698844
3.7095 487.08964	7.419 97.328082	7.419 85.202279	7.419 36.26018
3.71 483.99828	7.42 95.915829	7.42 82.126161	7.42 43.329844
3.7105 480.52887	7.421 94.015525	7.421 78.993735	7.421 50.257937
3.711 477.05173	7.422 91.794422	7.422 75.90701	7.422 56.347959
3.7115 473.95436	7.423 89.473362	7.423 72.983197	7.423 60.983871
3.712 471.58078	7.424 87.313392	7.424 70.383648	7.424 63.751087
3.7125 470.19129	7.425 85.586647	7.425 68.319324	7.425 64.518312
3.713 469.949	7.426 84.534953	7.426 67.02819	7.426 63.454875
3.7135 470.92658	7.427 84.326621	7.427 66.732203	7.427 60.975374
3.714 473.1191	7.428 85.025338	7.428 67.589465	7.428 57.625689
3.7145 476.449	7.429 86.582318	7.429 69.657554	7.429 53.943948
3.715 480.75744	7.43 88.854648	7.43 72.877934	7.43 50.339044
3.7155 485.78667	7.431 91.643001	7.431 77.082206	7.431 47.02327
3.716 491.16638	7.432 94.735335	7.432 82.013484	7.432 44.0165
3.7165 496.41907	7.433 97.942887	7.433 87.353617	7.433 41.213971
3.717 500.99523	7.434 101.12017	7.434 92.749748	7.434 38.487923
3.7175 504.3397	7.435 104.16824	7.435 97.839395	7.435 35.783125
3.718 505.97982	7.436 107.02607	7.436 102.27789	7.436 33.171084
3.7185 505.61703	7.437 109.65645	7.437 105.77216	7.437 30.84537
3.719 503.19957	7.438 112.03048	7.438 108.11984	7.438 29.063733
3.7195 498.95616	7.439 114.11164	7.439 109.24529	7.439 28.062692
3.72 493.37892	7.44 115.83918	7.44 109.21871	7.44 27.979122
3.7205 487.15476	7.441 117.11254	7.441 108.24616	7.441 28.807903
3.721 481.05679	7.442 117.78267	7.442 106.62714	7.442 30.407756
3.7215 475.81634	7.443 117.65885	7.443 104.68925	7.443 32.546711
3.722 472.00099	7.444 116.53898	7.444 102.71977	7.444 34.963817

3.7225 469.92382	7.445 114.26454	7.445 100.9164	7.445 37.421169
3.723 469.60215	7.446 110.79072	7.446 99.370791	7.446 39.730212
3.7235 470.77272	7.447 106.25173	7.447 98.084946	7.447 41.75238
3.724 472.95625	7.448 100.99581	7.448 97.007147	7.448 43.387298
3.7245 475.55256	7.449 95.568139	7.449 96.069004	7.449 44.565139
3.725 477.94249	7.45 90.633613	7.45 95.209017	7.45 45.252461
3.7255 479.57682	7.451 86.850956	7.451 94.377982	7.451 45.468147
3.726 480.04226	7.452 84.728587	7.452 93.531043	7.452 45.296006
3.7265 479.10523	7.453 84.503178	7.453 92.61576	7.453 44.87923
3.727 476.73819	7.454 86.079013	7.454 91.564564	7.454 44.390013
3.7275 473.13	7.455 89.049931	7.455 90.29619	7.455 43.980791
3.728 468.67424	7.456 92.800852	7.456 88.727217	7.456 43.734513
3.7285 463.92533	7.457 96.660918	7.457 86.792833	7.457 43.634186
3.729 459.51678	7.458 100.06396	7.458 84.474001	7.458 43.5652
3.7295 456.04946	7.459 102.66988	7.459 81.824827	7.459 43.350638
3.73 453.97273	7.46 104.41352	7.46 78.989952	7.46 42.806396
3.7305 453.49028	7.461 105.47099	7.461 76.200201	7.461 41.79539
3.731 454.51871	7.462 106.15897	7.462 73.739037	7.462 40.261759
3.7315 456.71141	7.463 106.80246	7.463 71.882801	7.463 38.23552
3.732 459.54024	7.464 107.6132	7.464 70.830213	7.464 35.811334
3.7325 462.41058	7.465 108.61483	7.465 70.644427	7.465 33.115621
3.733 464.77886	7.466 109.63418	7.466 71.228872	7.466 30.279682
3.7335 466.24579	7.467 110.35699	7.467 72.345948	7.467 27.431091
3.734 466.61014	7.468 110.42842	7.468 73.671008	7.468 24.704086
3.7345 465.88108	7.469 109.56798	7.469 74.86124	7.469 22.257735
3.735 464.25672	7.47 107.66672	7.47 75.616259	7.47 20.284509
3.7355 462.08072	7.471 104.84109	7.471 75.715263	7.471 18.995228
3.736 459.78769	7.472 101.42892	7.472 75.029217	7.472 18.577988
3.7365 457.84436	7.473 97.92687	7.473 73.518172	7.473 19.14314
3.737 456.6895	7.474 94.882258	7.474 71.227276	7.474 20.676169
3.7375 456.67488	7.475 92.763911	7.475 68.28928	7.475 23.020225
3.738 458.01135	7.476 91.844734	7.476 64.93028	7.476 25.899449
3.7385 460.72838	7.477 92.129107	7.477 61.466298	7.477 28.977899
3.739 464.65823	7.478 93.349244	7.478 58.277007	7.478 31.934275
3.7395 469.45395	7.479 95.035651	7.479 55.751538	7.479 34.526368
3.74 474.64389	7.48 96.642994	7.48 54.21574	7.48 36.623992
3.7405 479.71388	7.481 97.69264	7.481 53.862866	7.481 38.202486
3.741 484.19853	7.482 97.886248	7.482 54.712571	7.482 39.304679
3.7415 487.75829	7.483 97.155411	7.483 56.613741	7.483 39.990295
3.742 490.22209	7.484 95.636959	7.484 59.289198	7.484 40.293777
3.7425 491.58664	7.485 93.591586	7.485 62.403876	7.485 40.204416
3.743 491.97753	7.486 91.302717	7.486 65.631132	7.486 39.670991
3.7435 491.58939	7.487 88.995237	7.487 68.697383	7.487 38.623009
3.744 490.62754	7.488 86.800029	7.488 71.398918	7.488 36.996804
3.7445 489.2694	7.489 84.767921	7.489 73.598243	7.489 34.757407
3.745 487.65364	7.49 82.916104	7.49 75.213458	7.49 31.913138
3.7455 485.89245	7.491 81.279692	7.491 76.2113	7.491 28.524592
3.746 484.093	7.492 79.943781	7.492 76.606416	7.492 24.710555
3.7465 482.37274	7.493 79.043783	7.493 76.46244	7.493 20.651087
3.747 480.85751	7.494 78.73731	7.494 75.888897	7.494 16.585151
3.7475 479.66101	7.495 79.162269	7.495 75.03151	7.495 12.799253

3.748 478.85283	7.496 80.39916	7.496 74.058366	7.496 9.6049943
3.7485 478.42772	7.497 82.450695	7.497 73.146277	7.497 7.3062677
3.749 478.28956	7.498 85.242506	7.498 72.469315	7.498 6.1596995
3.7495 478.2589	7.499 88.6395	7.499 72.187297	7.499 6.3344071
3.75 478.1068	7.5 92.467495	7.5 72.430063	7.5 7.8790297
3.7505 477.60903	7.501 96.530433	7.501 73.276123	7.501 10.704676
3.751 476.60833	7.502 100.61881	7.502 74.730042	7.502 14.590539
3.7515 475.06773	7.503 104.51194	7.503 76.707816	7.503 19.21358
3.752 473.09791	7.504 107.98196	7.504 79.039476	7.504 24.196063
3.7525 470.94749	7.505 110.80805	7.505 81.49286	7.505 29.158231
3.753 468.95494	7.506 112.80475	7.506 83.814668	7.506 33.762065
3.7535 467.47326	7.507 113.86019	7.507 85.778965	7.507 37.737251
3.754 466.78782	7.508 113.97205	7.508 87.23147	7.508 40.889801
3.7545 467.05056	7.509 113.26577	7.509 88.120003	7.509 43.10165
3.755 468.24823	7.51 111.98317	7.51 88.504864	7.51 44.331241
3.7555 470.21076	7.511 110.43943	7.511 88.546235	7.511 44.619491
3.756 472.65288	7.512 108.95861	7.512 88.469003	7.512 44.096188
3.7565 475.23325	7.513 107.80679	7.513 88.510039	7.513 42.975078
3.757 477.61304	7.514 107.1441	7.514 88.858799	7.514 41.526223
3.7575 479.50119	7.515 107.00986	7.515 89.606626	7.515 40.022631
3.758 480.68194	7.516 107.343	7.516 90.71979	7.516 38.670854
3.7585 481.02827	7.517 108.02667	7.517 92.044425	7.517 37.546179
3.759 480.50797	7.518 108.93811	7.518 93.340908	7.518 36.556768
3.7595 479.18724	7.519 109.98528	7.519 94.336344	7.519 35.455074
3.76 477.23068	7.52 111.12008	7.52 94.781477	7.52 33.900678
3.7605 474.89159	7.521 112.32965	7.521 94.502409	7.521 31.561362
3.761 472.48523	7.522 113.61734	7.522 93.443048	7.522 28.225072
3.7615 470.34243	7.523 114.98755	7.523 91.695543	7.523 23.890092
3.762 468.74924	7.524 116.44316	7.524 89.511856	7.524 18.806364
3.7625 467.88674	7.525 117.99407	7.525 87.284645	7.525 13.455486
3.763 467.78848	7.526 119.66543	7.526 85.487448	7.526 8.4748221
3.7635 468.33001	7.527 121.49145	7.527 84.57646	7.527 4.5458197
3.764 469.25585	7.528 123.48713	7.528 84.874998	7.528 2.2734166
3.7645 470.23758	7.529 125.60412	7.529 86.476592	7.529 2.0815994
3.765 470.94796	7.53 127.68991	7.53 89.203141	7.53 4.1427272
3.7655 471.1319	7.531 129.47539	7.531 92.637756	7.531 8.3493448
3.766 470.65799	7.532 130.60768	7.532 96.224446	7.532 14.329894
3.7665 469.54105	7.533 130.72754	7.533 99.402061	7.533 21.504407
3.767 467.93429	7.534 129.56989	7.534 101.72941	7.534 29.17163
3.7675 466.09689	7.535 127.0533	7.535 102.96617	7.535 36.613985
3.768 464.34661	7.536 123.32568	7.536 103.09463	7.536 43.202067
3.7685 463.00754	7.537 118.74857	7.537 102.28917	7.537 48.478381
3.769 462.36075	7.538 113.82413	7.538 100.8542	7.538 52.203205
3.7695 462.60187	7.539 109.08816	7.539 99.152965	7.539 54.354399
3.77 463.80703	7.54 105.00073	7.54 97.542819	7.54 55.08538
3.7705 465.90922	7.541 101.86352	7.541 96.323417	7.541 54.656938
3.771 468.69047	7.542 99.780572	7.542 95.699119	7.542 53.364837
3.7715 471.79973	7.543 98.666121	7.543 95.756566	7.543 51.483678
3.772 474.80507	7.544 98.291293	7.544 96.460416	7.544 49.239433
3.7725 477.28082	7.545 98.355467	7.545 97.670261	7.545 46.811673
3.773 478.9138	7.546 98.565014	7.546 99.177616	7.546 44.356295

3.7735 479.59749	7.547 98.701744	7.547 100.75492	7.547 42.033838
3.774 479.47742	7.548 98.664704	7.548 102.20297	7.548 40.028163
3.7745 478.92191	7.549 98.47354	7.549 103.383	7.549 38.544702
3.775 478.41897	7.55 98.230783	7.55 104.22532	7.55 37.784764
3.7755 478.43064	7.551 98.053413	7.551 104.7157	7.551 37.900638
3.776 479.25648	7.552 97.996949	7.552 104.86835	7.552 38.943722
3.7765 480.95753	7.553 98.001896	7.553 104.69677	7.553 40.822427
3.777 483.36882	7.554 97.887675	7.554 104.19147	7.554 43.286305
3.7775 486.19314	7.555 97.402365	7.555 103.30875	7.555 45.946852
3.778 489.13534	7.556 96.313609	7.556 101.97097	7.556 48.335109
3.7785 492.02104	7.557 94.506753	7.557 100.07793	7.557 49.985004
3.779 494.85124	7.558 92.050607	7.558 97.528936	7.558 50.523421
3.7795 497.77303	7.559 89.202906	7.559 94.254454	7.559 49.745844
3.78 500.98201	7.56 86.351833	7.56 90.252919	7.56 47.660157
3.7805 504.59979	7.561 83.915538	7.561 85.623926	7.561 44.488959
3.781 508.57813	7.562 82.236268	7.562 80.586186	7.562 40.629942
3.7815 512.66787	7.563 81.503644	7.563 75.470006	7.563 36.582859
3.782 516.46318	7.564 81.725739	7.564 70.679784	7.564 32.858855
3.7825 519.50241	7.565 82.746521	7.565 66.630715	7.565 29.892205
3.783 521.38857	7.566 84.294255	7.566 63.672506	7.566 27.974078
3.7835 521.89009	7.567 86.042191	7.567 62.018713	7.567 27.221832
3.784 520.99511	7.568 87.667904	7.568 61.701287	7.568 27.586654
3.7845 518.91135	7.569 88.904368	7.569 62.565047	7.569 28.890667
3.785 516.0206	7.57 89.578841	7.57 64.306519	7.57 30.87685
3.7855 512.80604	7.571 89.634563	7.571 66.548133	7.571 33.254951
3.786 509.77072	7.572 89.12931	7.572 68.926414	7.572 35.733877
3.7865 507.36086	7.573 88.208304	7.573 71.166518	7.573 38.041747
3.787 505.90281	7.574 87.057475	7.574 73.119073	7.574 39.942624
3.7875 505.56011	7.575 85.852106	7.575 74.748699	7.575 41.259344
3.788 506.31708	7.576 84.719267	7.576 76.082295	7.576 41.904583
3.7885 507.99399	7.577 83.726594	7.577 77.141416	7.577 41.911712
3.789 510.294	7.578 82.897317	7.578 77.889458	7.578 41.449746
3.7895 512.87234	7.579 82.238575	7.579 78.217746	7.579 40.807414
3.79 515.40965	7.58 81.764296	7.58 77.977675	7.58 40.340754
3.7905 517.66679	7.581 81.498233	7.581 77.046205	7.581 40.392504
3.791 519.50475	7.582 81.454804	7.582 75.397743	7.582 41.203726
3.7915 520.86687	7.583 81.608561	7.583 73.152279	7.583 42.843271
3.792 521.73746	7.584 81.870699	7.584 70.578142	7.584 45.176725
3.7925 522.10158	7.585 82.089348	7.585 68.043931	7.585 47.885154
3.793 521.92892	7.586 82.080352	7.586 65.931865	7.586 50.529518
3.7935 521.19097	7.587 81.681637	7.587 64.538256	7.587 52.644217
3.794 519.9014	7.588 80.813206	7.588 63.992096	7.588 53.836506
3.7945 518.15527	7.589 79.520703	7.589 64.218493	7.589 53.868851
3.795 516.14114	7.59 77.984937	7.59 64.961054	7.59 52.707393
3.7955 514.11311	7.591 76.490415	7.591 65.859559	7.591 50.52864
3.796 512.32989	7.592 75.358865	7.592 66.561664	7.592 47.685472
3.7965 510.98513	7.593 74.864599	7.593 66.835459	7.593 44.640607
3.797 510.15776	7.594 75.154582	7.594 66.647937	7.594 41.880394
3.7975 509.80148	7.595 76.195911	7.595 66.183912	7.595 39.824587
3.798 509.77453	7.596 77.767341	7.596 65.797959	7.596 38.748725
3.7985 509.89351	7.597 79.500587	7.597 65.912761	7.597 38.734715

3.799 509.98771	7.598 80.963653	7.598 66.893988	7.598 39.661102
3.7995 509.93461	7.599 81.765737	7.599 68.93894	7.599 41.23701
3.8 509.66941	7.6 81.65549	7.6 72.011507	7.6 43.073411
3.8005 509.17309	7.601 80.584875	7.601 75.841021	7.601 44.77475
3.801 508.45009	7.602 78.72047	7.602 79.982451	7.602 46.026852
3.8015 507.50639	7.603 76.400041	7.603 83.916842	7.603 46.657036
3.802 506.33555	7.604 74.049005	7.604 87.160283	7.604 46.650803
3.8025 504.91661	7.605 72.08269	7.605 89.350393	7.605 46.123988
3.803 503.22669	7.606 70.822121	7.606 90.290398	7.606 45.264327
3.8035 501.26812	7.607 70.443253	7.607 89.947521	7.607 44.265644
3.804 499.10471	7.608 70.966043	7.608 88.417566	7.608 43.277653
3.8045 496.89391	7.609 72.276585	7.609 85.875579	7.609 42.3851
3.805 494.89589	7.61 74.167762	7.61 82.531193	7.61 41.616409
3.8055 493.44286	7.611 76.383849	7.611 78.598965	7.611 40.970147
3.806 492.86476	7.612 78.660479	7.612 74.283781	7.612 40.442196
3.8065 493.38693	7.613 80.75895	7.613 69.774386	7.613 40.038949
3.807 495.03291	7.614 82.498194	7.614 65.236955	7.614 39.770052
3.8075 497.57163	7.615 83.786161	7.615 60.804658	7.615 39.624355
3.808 500.53737	7.616 84.645889	7.616 56.565271	7.616 39.540651
3.8085 503.3269	7.617 85.224548	7.617 52.553304	7.617 39.387739
3.809 505.34907	7.618 85.771934	7.618 48.753578	7.618 38.965577
3.8095 506.18068	7.619 86.581754	7.619 45.119674	7.619 38.032019
3.81 505.67728	7.62 87.903577	7.62 41.605027	7.62 36.350692
3.8105 504.00152	7.621 89.849502	7.621 38.199479	7.621 33.748122
3.811 501.55963	7.622 92.32885	7.622 34.96155	7.622 30.164941
3.8115 498.86844	7.623 95.040232	7.623 32.037208	7.623 25.687569
3.812 496.39926	7.624 97.532591	7.624 29.658585	7.624 20.55196
3.8125 494.45077	7.625 99.321834	7.625 28.119898	7.625 15.117371
3.813 493.09052	7.626 100.02794	7.626 27.732093	7.626 9.8139317
3.8135 492.17713	7.627 99.488422	7.627 28.762443	7.627 5.0726782
3.814 491.44611	7.628 97.811675	7.628 31.369994	7.628 1.2512168
3.8145 490.62231	7.629 95.35426	7.629 35.551228	7.629 -1.427894
3.815 489.518	7.63 92.631795	7.63 41.110614	7.63 -2.90804
3.8155 488.08832	7.631 90.1933	7.631 47.666546	7.631 -3.286015
3.816 486.43565	7.632 88.49781	7.632 54.695016	7.632 -2.756135
3.8165 484.773	7.633 87.827693	7.633 61.603403	7.633 -1.528006
3.817 483.36585	7.634 88.258594	7.634 67.818613	7.634 0.2516963
3.8175 482.47192	7.635 89.68701	7.635 72.870125	7.635 2.5411416
3.818 482.29169	7.636 91.899477	7.636 76.450596	7.636 5.389433
3.8185 482.93562	7.637 94.656996	7.637 78.443458	7.637 8.8703125
3.819 484.40918	7.638 97.766996	7.638 78.915934	7.638 12.989925
3.8195 486.61548	7.639 101.12232	7.639 78.083919	7.639 17.607298
3.82 489.37424	7.64 104.69936	7.64 76.259883	7.64 22.401864
3.8205 492.45509	7.641 108.52121	7.641 73.795711	7.641 26.903682
3.821 495.62083	7.642 112.60249	7.642 71.030174	7.642 30.577744
3.8215 498.67317	7.643 116.89687	7.643 68.247704	7.643 32.934771
3.822 501.49119	7.644 121.266	7.644 65.652502	7.644 33.634677
3.8225 504.05168	7.645 125.48066	7.645 63.359994	7.645 32.556387
3.823 506.42218	7.646 129.25457	7.646 61.405067	7.646 29.82316
3.8235 508.72355	7.647 132.30114	7.647 59.762896	7.647 25.787473
3.824 511.06808	7.648 134.39722	7.648 58.374556	7.648 20.987266

3.8245 513.48938	7.649 135.4361	7.649 57.168338	7.649 16.084555
3.825 515.88771	7.65 135.4556	7.65 56.070692	7.65 11.792119
3.8255 518.01342	7.651 134.6339	7.651 55.007261	7.651 8.79001
3.826 519.50179	7.652 133.25421	7.652 53.901003	7.652 7.6351459
3.8265 519.95603	7.653 131.64696	7.653 52.676464	7.653 8.6739706
3.827 519.05747	7.654 130.12271	7.654 51.274986	7.654 11.975767
3.8275 516.67093	7.655 128.91093	7.655 49.677308	7.655 17.306935
3.828 512.91133	7.656 128.11816	7.656 47.923212	7.656 24.160393
3.8285 508.14815	7.657 127.71515	7.657 46.117612	7.657 31.839607
3.829 502.94263	7.658 127.5566	7.658 44.419179	7.658 39.578744
3.8295 497.93381	7.659 127.42875	7.659 43.016895	7.659 46.667114
3.83 493.70598	7.66 127.11256	7.66 42.105106	7.66 52.544235
3.8305 490.67586	7.661 126.44454	7.661 41.865022	7.661 56.843534
3.831 489.03072	7.662 125.35729	7.662 42.452163	7.662 59.383031
3.8315 488.73053	7.663 123.8887	7.663 43.981556	7.663 60.121315
3.832 489.56551	7.664 122.15902	7.664 46.502139	7.664 59.107438
3.8325 491.24377	7.665 120.32641	7.665 49.960505	7.665 56.449951
3.833 493.4772	7.666 118.53753	7.666 54.166911	7.666 52.315714
3.8335 496.03982	7.667 116.88923	7.667 58.784917	7.667 46.951209
3.834 498.78685	7.668 115.4116	7.668 63.363256	7.668 40.70638
3.8345 501.63852	7.669 114.07464	7.669 67.413956	7.669 34.038923
3.835 504.5445	7.67 112.81454	7.67 70.520492	7.67 27.48545
3.8355 507.44859	7.671 111.57167	7.671 72.443658	7.671 21.600471
3.836 510.26943	7.672 110.33041	7.672 73.188832	7.672 16.878194
3.8365 512.90347	7.673 109.14982	7.673 73.009037	7.673 13.679975
3.837 515.24621	7.674 108.17461	7.674 72.339248	7.674 12.189058
3.8375 517.21969	7.675 107.619	7.675 71.680592	7.675 12.404926
3.838 518.79312	7.676 107.72321	7.676 71.469297	7.676 14.175922
3.8385 519.98716	7.677 108.69199	7.677 71.96896	7.677 17.256284
3.839 520.86103	7.678 110.6331	7.678 73.215355	7.678 21.367201
3.8395 521.48881	7.679 113.51525	7.679 75.024912	7.679 26.243068
3.84 521.93607	7.68 117.15919	7.68 77.058308	7.68 31.65249
3.8405 522.2467	7.681 121.26377	7.681 78.915855	7.681 37.394667
3.841 522.44479	7.682 125.45692	7.682 80.235545	7.682 43.280731
3.8415 522.54922	7.683 129.35605	7.683 80.76787	7.683 49.11303
3.842 522.59294	7.684 132.62438	7.684 80.411336	7.684 54.673005
3.8425 522.63607	7.685 135.01604	7.685 79.205275	7.685 59.72217
3.843 522.76423	7.686 136.40876	7.686 77.288723	7.686 64.014553
3.8435 523.0693	7.687 136.82308	7.687 74.842842	7.687 67.31545
3.844 523.6181	7.688 136.42369	7.688 72.037605	7.688 69.421813
3.8445 524.42094	7.689 135.49576	7.689 68.999932	7.689 70.182438
3.845 525.41473	7.69 134.39168	7.69 65.811144	7.69 69.518479
3.8455 526.47057	7.691 133.45366	7.691 62.529426	7.691 67.444121
3.846 527.4273	7.692 132.92931	7.692 59.223038	7.692 64.083117
3.8465 528.14126	7.693 132.90544	7.693 55.996464	7.693 59.672424
3.847 528.5356	7.694 133.28308	7.694 52.996187	7.694 54.543605
3.8475 528.63137	7.695 133.8049	7.695 50.392933	7.695 49.078644
3.848 528.54864	7.696 134.12859	7.696 48.347905	7.696 43.647864
3.8485 528.47619	7.697 133.92487	7.697 46.976881	7.697 38.547879
3.849 528.61836	7.698 132.97103	7.698 46.325631	7.698 33.960871
3.8495 529.13501	7.699 131.2131	7.699 46.364462	7.699 29.949706

3.85 530.092	7.7 128.78025	7.7 47.002098	7.7 26.489224
3.8505 531.4372	7.701 125.94918	7.701 48.113085	7.701 23.519045
3.851 533.00975	7.702 123.07072	7.702 49.569929	7.702 20.994671
3.8515 534.58196	7.703 120.48108	7.703 51.270979	7.703 18.915497
3.852 535.92319	7.704 118.42358	7.704 53.15686	7.704 17.319635
3.8525 536.86764	7.705 117.00151	7.705 55.211391	7.705 16.250744
3.853 537.36399	7.706 116.17155	7.706 57.447317	7.706 15.714535
3.8535 537.48844	7.707 115.77349	7.707 59.882106	7.707 15.646548
3.854 537.41319	7.708 115.58266	7.708 62.512859	7.708 15.906603
3.8545 537.33758	7.709 115.36893	7.709 65.30011	7.709 16.302257
3.855 537.40335	7.71 114.9507	7.71 68.166792	7.71 16.630267
3.8555 537.62259	7.711 114.23736	7.711 71.011947	7.711 16.718287
3.856 537.84348	7.712 113.25581	7.712 73.73196	7.712 16.451932
3.8565 537.76572	7.713 112.15441	7.713 76.238717	7.713 15.782561
3.857 537.00077	7.714 111.17616	7.714 78.466335	7.714 14.722037
3.8575 535.15816	7.715 110.59768	7.715 80.365172	7.715 13.335834
3.858 531.93353	7.716 110.64288	7.716 81.889935	7.716 11.742382
3.8585 527.17814	7.717 111.39573	7.717 82.993116	7.717 10.117511
3.859 520.93797	7.718 112.74497	7.718 83.632457	7.718 8.6946176
3.8595 513.45996	7.719 114.38851	7.719 83.79228	7.719 7.7493321
3.86 505.16763	7.72 115.90544	7.72 83.507816	7.72 7.5635978
3.8605 496.60985	7.721 116.87766	7.721 82.875746	7.721 8.3745472
3.861 488.38706	7.722 117.02204	7.722 82.037723	7.722 10.322353
3.8615 481.06285	7.723 116.28709	7.723 81.136142	7.723 13.413205
3.862 475.07518	7.724 114.87937	7.724 80.257077	7.724 17.507717
3.8625 470.66827	7.725 113.2087	7.725 79.385134	7.725 22.334977
3.863 467.86664	7.726 111.77045	7.726 78.393072	7.726 27.524014
3.8635 466.50344	7.727 111.00438	7.727 77.075534	7.727 32.642401
3.864 466.29796	7.728 111.17738	7.728 75.218094	7.728 37.236222
3.8645 466.95783	7.729 112.32645	7.729 72.67921	7.729 40.872496
3.865 468.27005	7.73 114.27508	7.73 69.459355	7.73 43.188166
3.8655 470.14737	7.731 116.70835	7.731 65.737997	7.731 43.945559
3.866 472.61338	7.732 119.27254	7.732 61.869587	7.732 43.084692
3.8665 475.73353	7.733 121.65975	7.733 58.338801	7.733 40.754494
3.867 479.52108	7.734 123.65034	7.734 55.681053	7.734 37.304795
3.8675 483.85636	7.735 125.10753	7.735 54.379157	7.735 33.231176
3.868 488.45274	7.736 125.94105	7.736 54.753678	7.736 29.081623
3.8685 492.88443	7.737 126.06944	7.737 56.87218	7.737 25.34921
3.869 496.66859	7.738 125.40836	7.738 60.506267	7.738 22.381262
3.8695 499.3749	7.739 123.89616	7.739 65.158854	7.739 20.330098
3.87 500.72724	7.74 121.54612	7.74 70.165451	7.74 19.156274
3.8705 500.66634	7.741 118.49721	7.741 74.847425	7.741 18.678651
3.871 499.35614	7.742 115.03169	7.742 78.672841	7.742 18.65247
3.8715 497.13496	7.743 111.54098	7.743 81.372759	7.743 18.850395
3.872 494.42893	7.744 108.44533	7.744 82.973424	7.744 19.123005
3.8725 491.65417	7.745 106.09516	7.745 83.734224	7.745 19.423262
3.873 489.1351	7.746 104.69187	7.746 84.016074	7.746 19.791815
3.8735 487.05894	7.747 104.25706	7.747 84.130496	7.747 20.312985
3.874 485.47366	7.748 104.65733	7.748 84.224976	7.748 21.060546
3.8745 484.32299	7.749 105.66811	7.749 84.243052	7.749 22.054328
3.875 483.50083	7.75 107.04698	7.75 83.96584	7.75 23.24241

3.8755 482.90321	7.751 108.58836	7.751 83.109453	7.751 24.51209
3.876 482.45931	7.752 110.14569	7.752 81.43418	7.752 25.721353
3.8765 482.13437	7.753 111.6242	7.753 78.823291	7.753 26.736066
3.877 481.91006	7.754 112.95908	7.754 75.309089	7.754 27.458444
3.8775 481.75789	7.755 114.0961	7.755 71.050274	7.755 27.838072
3.878 481.62335	7.756 114.98589	7.756 66.284521	7.756 27.864568
3.8785 481.43087	7.757 115.59367	7.757 61.284976	7.757 27.548038
3.879 481.10797	7.758 115.91809	7.758 56.338813	7.758 26.898133
3.8795 480.61551	7.759 116.00871	7.759 51.74782	7.759 25.913826
3.88 479.9672	7.76 115.97287	7.76 47.835656	7.76 24.593129
3.8805 479.22653	7.761 115.96647	7.761 44.941729	7.761 22.96438
3.881 478.48059	7.762 116.16948	7.762 43.389168	7.762 21.129709
3.8815 477.80229	7.763 116.75154	7.763 43.429326	7.763 19.300869
3.882 477.21831	7.764 117.83637	7.764 45.179906	7.764 17.803429
3.8825 476.69799	7.765 119.47392	7.765 48.580981	7.765 17.032048
3.883 476.16896	7.766 121.62712	7.766 53.389606	7.766 17.356881
3.8835 475.55306	7.767 124.17604	7.767 59.220608	7.767 19.003429
3.884 474.80712	7.768 126.93818	7.768 65.623824	7.768 21.945176
3.8845 473.95074	7.769 129.69958	7.769 72.173474	7.769 25.851393
3.885 473.06837	7.77 132.24968	7.77 78.539883	7.77 30.118051
3.8855 472.28406	7.771 134.41287	7.771 84.520074	7.771 33.982511
3.886 471.71822	7.772 136.07131	7.772 90.019814	7.772 36.693162
3.8865 471.44326	7.773 137.17581	7.773 94.99896	7.773 37.685133
3.887 471.45531	7.774 137.74311	7.774 99.406436	7.774 36.710475
3.8875 471.67187	7.775 137.83956	7.775 103.13464	7.775 33.88612
3.888 471.95495	7.776 137.55301	7.776 106.01412	7.776 29.649694
3.8885 472.14886	7.777 136.95826	7.777 107.85199	7.777 24.641856
3.889 472.11798	7.778 136.08548	7.778 108.4986	7.778 19.55472
3.8895 471.77224	7.779 134.90413	7.779 107.91497	7.779 14.992472
3.89 471.07571	7.78 133.3333	7.78 106.2119	7.78 11.380929
3.8905 470.04184	7.781 131.28178	7.781 103.64237	7.781 8.94167
3.891 468.72246	7.782 128.70916	7.782 100.54622	7.782 7.7216219
3.8915 467.1964	7.783 125.6874	7.783 97.264003	7.783 7.6507969
3.892 465.55906	7.784 122.43719	7.784 94.048329	7.784 8.5961808
3.8925 463.91033	7.785 119.31975	7.785 91.001928	7.785 10.389914
3.893 462.33882	7.786 116.7797	7.786 88.061593	7.786 12.828922
3.8935 460.9038	7.787 115.25334	7.787 85.031067	7.787 15.661136
3.894 459.6213	7.788 115.06879	7.788 81.649325	7.788 18.581308
3.8945 458.46254	7.789 116.36584	7.789 77.670245	7.789 21.253762
3.895 457.36997	7.79 119.05415	7.79 72.928769	7.79 23.363829
3.8955 456.28939	7.791 122.81503	7.791 67.377127	7.791 24.682909
3.896 455.20847	7.792 127.14244	7.792 61.088403	7.792 25.122731
3.8965 454.18723	7.793 131.41442	7.793 54.23741	7.793 24.757038
3.897 453.36644	7.794 134.98631	7.794 47.074966	7.794 23.801587
3.8975 452.94644	7.795 137.29596	7.795 39.908754	7.795 22.559265
3.898 453.13932	7.796 137.96581	7.796 33.094159	7.796 21.348592
3.8985 454.10725	7.797 136.88027	7.797 27.027439	7.797 20.436464
3.899 455.9056	7.798 134.21561	7.798 22.127504	7.798 19.990445
3.8995 458.44889	7.799 130.40749	7.799 18.795394	7.799 20.057009
3.9 461.51111	7.8 126.05895	7.8 17.351356	7.8 20.564979
3.9005 464.76204	7.801 121.81119	7.801 17.963205	7.801 21.35035

3.901 467.83113	7.802 118.21182	7.802 20.589539	7.802 22.198197
3.9015 470.38346	7.803 115.61504	7.803 24.961627	7.803 22.896136
3.902 472.18876	7.804 114.13532	7.804 30.617304	7.804 23.290009
3.9025 473.16607	7.805 113.65789	7.805 36.982484	7.805 23.327528
3.903 473.39248	7.806 113.89383	7.806 43.478295	7.806 23.073951
3.9035 473.07401	7.807 114.45923	7.807 49.621739	7.807 22.689405
3.904 472.48749	7.808 114.9588	7.808 55.089634	7.808 22.370425
3.9045 471.91146	7.809 115.05925	7.809 59.72883	7.809 22.273865
3.905 471.56763	7.81 114.54451	7.81 63.515125	7.81 22.451482
3.9055 471.58996	7.811 113.34834	7.811 66.481422	7.811 22.82173
3.906 472.02752	7.812 111.56153	7.812 68.645702	7.812 23.190927
3.9065 472.87406	7.813 109.41115	7.813 69.967633	7.813 23.315211
3.907 474.10743	7.814 107.2125	7.814 70.349966	7.814 22.978144
3.9075 475.71986	7.815 105.30041	7.815 69.682424	7.815 22.05467
3.908 477.72625	7.816 103.95462	7.816 67.908969	7.816 20.541849
3.9085 480.1487	7.817 103.3398	7.817 65.090844	7.817 18.553874
3.909 482.98545	7.818 103.4788	7.818 61.440566	7.818 16.293348
3.9095 486.1774	7.819 104.2675	7.819 57.313831	7.819 14.015336
3.91 489.58425	7.82 105.52388	7.82 53.161157	7.82 11.994991
3.9105 492.97691	7.821 107.04981	7.821 49.452892	7.821 10.49957
3.911 496.04743	7.822 108.67985	7.822 46.596756	7.822 9.759243
3.9115 498.43484	7.823 110.29964	7.823 44.866852	7.823 9.9328618
3.912 499.76538	7.824 111.83288	7.824 44.359604	7.824 11.073214
3.9125 499.70628	7.825 113.21289	7.825 44.987123	7.825 13.10515
3.913 498.03013	7.826 114.36166	7.826 46.5117	7.826 15.832196
3.9135 494.68175	7.827 115.1935	7.827 48.615822	7.827 18.979486
3.914 489.83152	7.828 115.64451	7.828 50.990881	7.828 22.265269
3.9145 483.89514	7.829 115.71196	7.829 53.418542	7.829 25.477391
3.915 477.50225	7.83 115.47928	7.83 55.816836	7.83 28.523814
3.9155 471.40869	7.831 115.10727	7.831 58.232295	7.831 31.432788
3.916 466.36484	7.832 114.78779	7.832 60.77859	7.832 34.2976
3.9165 462.96974	7.833 114.67533	7.833 63.544497	7.833 37.184698
3.917 461.54955	7.834 114.82389	7.834 66.509415	7.834 40.041482
3.9175 462.09438	7.835 115.15654	7.835 69.504763	7.835 42.642667
3.918 464.27223	7.836 115.4818	7.836 72.242045	7.836 44.600321
3.9185 467.51691	7.837 115.55153	7.837 74.399687	7.837 45.438765
3.919 471.16736	7.838 115.13808	7.838 75.733372	7.838 44.711877
3.9195 474.62324	7.839 114.10117	7.839 76.162046	7.839 42.126552
3.92 477.47881	7.84 112.42059	7.84 75.790982	7.84 37.636191
3.9205 479.60257	7.841 110.18541	7.841 74.860937	7.841 31.479868
3.921 481.14274	7.842 107.54829	7.842 73.645775	7.842 24.15985
3.9215 482.45616	7.843 104.66608	7.843 72.343904	7.843 16.366003
3.922 483.9787	7.844 101.65113	7.844 71.010735	7.844 8.866154
3.9225 486.07305	7.845 98.551108	7.845 69.559607	7.845 2.3862452
3.923 488.89939	7.846 95.362004	7.846 67.827633	7.846 -2.496261
3.9235 492.34961	7.847 92.065923	7.847 65.675345	7.847 -5.426539
3.924 496.06641	7.848 88.676468	7.848 63.077118	7.848 -6.30265
3.9245 499.54005	7.849 85.273618	7.849 60.166413	7.849 -5.26055
3.925 502.24899	7.85 82.015374	7.85 57.220729	7.85 -2.622927
3.9255 503.79675	7.851 79.122569	7.851 54.594981	7.851 1.1715186
3.926 504.00127	7.852 76.842227	7.852 52.629087	7.852 5.6397679

3.9265 502.91394	7.853 75.400928	7.853 51.560439	7.853 10.312684
3.927 500.77251	7.854 74.961517	7.854 51.465614	7.854 14.773586
3.9275 497.91531	7.855 75.594323	7.855 52.243037	7.855 18.679871
3.928 494.69339	7.856 77.268878	7.856 53.635326	7.856 21.775863
3.9285 491.41052	7.857 79.865545	7.857 55.281147	7.857 23.905135
3.929 488.30305	7.858 83.200478	7.858 56.782753	7.858 25.025341
3.9295 485.55126	7.859 87.053849	7.859 57.775975	7.859 25.220863
3.93 483.30172	7.86 91.191809	7.86 57.991722	7.86 24.702625
3.9305 481.67926	7.861 95.377123	7.861 57.300276	7.861 23.784306
3.931 480.77862	7.862 99.370223	7.862 55.731252	7.862 22.831345
3.9315 480.64044	7.863 102.9284	7.863 53.464171	7.863 22.191224
3.932 481.22829	7.864 105.81292	7.864 50.788662	7.864 22.124373
3.9325 482.42528	7.865 107.81067	7.865 48.040072	7.865 22.758374
3.933 484.06055	7.866 108.76983	7.866 45.524318	7.866 24.080556
3.9335 485.96127	7.867 108.6408	7.867 43.452028	7.867 25.968522
3.934 488.01134	7.868 107.5081	7.868 41.902393	7.868 28.242098
3.9345 490.19143	7.869 105.59877	7.869 40.829467	7.869 30.712362
3.935 492.58007	7.87 103.25774	7.87 40.109326	7.87 33.208023
3.9355 495.31006	7.871 100.88999	7.871 39.610711	7.871 35.574095
3.936 498.49407	7.872 98.879893	7.872 39.261713	7.872 37.654377
3.9365 502.14715	7.873 97.506798	7.873 39.086062	7.873 39.278567
3.937 506.1373	7.874 96.878871	7.874 39.19484	7.874 40.271944
3.9375 510.18454	7.875 96.903806	7.875 39.737704	7.875 40.492163
3.938 513.91049	7.876 97.305295	7.876 40.833498	7.876 39.88125
3.9385 516.92063	7.877 97.682205	7.877 42.506766	7.877 38.509973
3.939 518.89097	7.878 97.597174	7.878 44.652206	7.878 36.592082
3.9395 519.6313	7.879 96.675825	7.879 47.037118	7.879 34.456751
3.94 519.10963	7.88 94.696962	7.88 49.338469	7.88 32.483773
3.9405 517.43938	7.881 91.656198	7.881 51.201817	7.881 31.019965
3.941 514.84388	7.882 87.788925	7.882 52.30594	7.882 30.301454
3.9415 511.61763	7.883 83.543779	7.883 52.418835	7.883 30.403427
3.942 508.09672	7.884 79.50622	7.884 51.43527	7.884 31.229193
3.9425 504.63848	7.885 76.283821	7.885 49.391233	7.885 32.538549
3.943 501.59935	7.886 74.377476	7.886 46.455341	7.886 34.005776
3.9435 499.29803	7.887 74.070435	7.887 42.901271	7.887 35.292066
3.944 497.95965	7.888 75.36504	7.888 39.068188	7.888 36.115737
3.9445 497.6527	7.889 77.984289	7.889 35.317453	7.889 36.304975
3.945 498.24313	7.89 81.436177	7.89 31.99295	7.89 35.821618
3.9455 499.39258	7.891 85.120584	7.891 29.389458	7.891 34.750752
3.946 500.61555	7.892 88.448037	7.892 27.729625	7.892 33.259715
3.9465 501.38891	7.893 90.939901	7.893 27.147314	7.893 31.539679
3.947 501.28537	7.894 92.289077	7.894 27.674849	7.894 29.749424
3.9475 500.09087	7.895 92.374455	7.895 29.234306	7.895 27.980338
3.948 497.86901	7.896 91.236235	7.896 31.636748	7.896 26.252999
3.9485 494.95278	7.897 89.028639	7.897 34.595559	7.897 24.542285
3.949 491.86696	7.898 85.969273	7.898 37.758397	7.898 22.816458
3.9495 489.20529	7.899 82.300414	7.899 40.756426	7.899 21.071873
3.95 487.49723	7.9 78.268762	7.9 43.261842	7.9 19.350343
3.9505 487.09788	7.901 74.120505	7.901 45.039186	7.901 17.736911
3.951 488.12322	7.902 70.101921	7.902 45.975973	7.902 16.345241
3.9515 490.43805	7.903 66.454948	7.903 46.084467	7.903 15.300791

3.952 493.6911	7.904 63.401846	7.904 45.476252	7.904 14.727922
3.9525 497.38458	7.905 61.120268	7.905 44.320132	7.905 14.739832
3.953 500.96375	7.906 59.715864	7.906 42.798085	7.906 15.425513
3.9535 503.91352	7.907 59.201389	7.907 41.072362	7.907 16.829158
3.954 505.8486	7.908 59.489131	7.908 39.271051	7.908 18.924191
3.9545 506.58292	7.909 60.39931	7.909 37.492347	7.909 21.591828
3.955 506.16228	7.91 61.683048	7.91 35.821804	7.91 24.617619
3.9555 504.8481	7.911 63.055936	7.911 34.352974	7.911 27.715611
3.956 503.0501	7.912 64.237002	7.912 33.200495	7.912 30.57969
3.9565 501.22145	7.913 64.987616	7.913 32.496188	7.913 32.949736
3.957 499.7442	7.914 65.144813	7.914 32.363617	7.914 34.672163
3.9575 498.83911	7.915 64.64386	7.915 32.874781	7.915 35.734106
3.958 498.52749	7.916 63.52556	7.916 34.002201	7.916 36.258373
3.9585 498.65507	7.917 61.925498	7.917 35.586652	7.917 36.459256
3.959 498.96587	7.918 60.045484	7.918 37.340697	7.918 36.572476
3.9595 499.19698	7.919 58.111872	7.919 38.898167	7.919 36.781092
3.96 499.16001	7.92 56.330351	7.92 39.902014	7.92 37.160411
3.9605 498.7827	7.921 54.849783	7.921 40.1042	7.921 37.658592
3.961 498.1017	7.922 53.746373	7.922 39.441039	7.922 38.118273
3.9615 497.21622	7.923 53.032852	7.923 38.052424	7.923 38.331936
3.962 496.22596	7.924 52.687275	7.924 36.233599	7.924 38.113909
3.9625 495.18072		7.925 34.335457	7.925 37.367643
3.963 494.0623		7.926 32.650974	7.926 36.129041
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0.27	3.3333333	0.27	8.6666667	0.27	7.6666667	0.27	8.3333333
0.28	3	0.28	7.6666667	0.28	7.3333333	0.28	8
0.29	3.3333333	0.29	8	0.29	7	0.29	7
0.3	3.3333333	0.3	7.6666667	0.3	7.6666667	0.3	7.6666667
0.31	3	0.31	8.3333333	0.31	7.6666667	0.31	7.3333333
0.32	2.6666667	0.32	8.3333333	0.32	8	0.32	8.6666667
0.33	4	0.33	8.6666667	0.33	8	0.33	8
0.34	2.6666667	0.34	8.3333333	0.34	7.3333333	0.34	8.3333333
0.35	3	0.35	8.6666667	0.35	7.6666667	0.35	8.3333333
0.36	3.3333333	0.36	8.3333333	0.36	7	0.36	8.6666667
0.37	3.6666667	0.37	8.6666667	0.37	7.3333333	0.37	9
0.38	4	0.38	8.6666667	0.38	7.6666667	0.38	9
0.39	3.3333333	0.39	8.3333333	0.39	7.6666667	0.39	9
0.4	3.6666667	0.4	8.3333333	0.4	7	0.4	9.3333333
0.41	2.6666667	0.41	8.3333333	0.41	7.3333333	0.41	8.3333333
0.42	2.6666667	0.42	8.6666667	0.42	7.6666667	0.42	8.6666667
0.43	2.6666667	0.43	8	0.43	7.6666667	0.43	8
0.44	3	0.44	7.3333333	0.44	7.3333333	0.44	8.3333333
0.45	3.3333333	0.45	8	0.45	7.6666667	0.45	8
0.46	3.6666667	0.46	8.6666667	0.46	7.6666667	0.46	8.3333333
0.47	3.3333333	0.47	8.3333333	0.47	7.3333333	0.47	8.3333333
0.48	4	0.48	8	0.48	7.3333333	0.48	7.6666667
0.49	3	0.49	8	0.49	7	0.49	7.6666667
0.5	3	0.5	7.6666667	0.5	7.3333333	0.5	9

0.51	4	0.51	8	0.51 7.3333333	0.51 7.6666667
0.52	3.6666667	0.52	8.6666667	0.52	8
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0.55	3.6666667	0.55	8	0.55	7.3333333
0.56	3.6666667	0.56	8.6666667	0.56	8
0.57	3	0.57	8.3333333	0.57	7.3333333
0.58	3.3333333	0.58	8	0.58	7.3333333
0.59	3.3333333	0.59	7.6666667	0.59	7
0.6	3.6666667	0.6	8.3333333	0.6	7.3333333
0.61	3.6666667	0.61	7.6666667	0.61	7.6666667
0.62	3.3333333	0.62	7.6666667	0.62	7.6666667
0.63	3.3333333	0.63	8.3333333	0.63	7.3333333
0.64	3.3333333	0.64	8.3333333	0.64	7.3333333
0.65	3.6666667	0.65	7.6666667	0.65	7
0.66	3	0.66	8.3333333	0.66	7.3333333
0.67	3	0.67	8	0.67	8
0.68	4	0.68	7.3333333	0.68	8
0.69	3.6666667	0.69	8.3333333	0.69	7.3333333
0.7	3	0.7	8.3333333	0.7	7.3333333
0.71	2.3333333	0.71	8	0.71	7.6666667
0.72	3	0.72	8	0.72	7.3333333
0.73	4	0.73	8	0.73	7.6666667
0.74	3.3333333	0.74	7.6666667	0.74	7.6666667
0.75	3.6666667	0.75	7.6666667	0.75	7.6666667
0.76	3	0.76	8	0.76	8
0.77	2.3333333	0.77	8.6666667	0.77	7.3333333
0.78	3.6666667	0.78	8	0.78	8
0.79	3.6666667	0.79	8.6666667	0.79	8
0.8	3.6666667	0.8	8	0.8	8
0.81	3	0.81	8.3333333	0.81	7.6666667
0.82	4	0.82	7.3333333	0.82	7
0.83	3.3333333	0.83	8	0.83	7
0.84	3.3333333	0.84	8.3333333	0.84	7.6666667
0.85	3.6666667	0.85	8.3333333	0.85	8
0.86	2.3333333	0.86	7.6666667	0.86	7
0.87	2.6666667	0.87	8.6666667	0.87	8
0.88	3	0.88	8	0.88	7
0.89	4	0.89	8.3333333	0.89	8
0.9	3.6666667	0.9	8.6666667	0.9	8
0.91	3.6666667	0.91	7.6666667	0.91	7.6666667
0.92	3.6666667	0.92	7.3333333	0.92	7.6666667
0.93	3	0.93	8	0.93	7.3333333
0.94	3	0.94	8.3333333	0.94	8
0.95	3.3333333	0.95	8	0.95	8
0.96	4	0.96	7.6666667	0.96	8
0.97	3.3333333	0.97	8.3333333	0.97	7.6666667
0.98	3	0.98	7.6666667	0.98	7.6666667
0.99	3	0.99	7.3333333	0.99	8
1	3	1	8.3333333	1	8
1.01	3	1.01	7.6666667	1.01	7.3333333

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1.05 3.3333333	1.05 7.3333333	1.05 7	1.05 8.3333333
1.06 3	1.06 8	1.06 7.6666667	1.06 8
1.07 3	1.07 8	1.07 7.6666667	1.07 8.6666667
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1.16 3	1.16 9	1.16 7.6666667	1.16 8
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1.19 3.3333333	1.19 8	1.19 7.3333333	1.19 8.6666667
1.2 3.6666667	1.2 9	1.2 8	1.2 9
1.21 3.3333333	1.21 8.6666667	1.21 7.3333333	1.21 9
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1.29 4	1.29 8	1.29 8	1.29 9.3333333
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2.08 4	2.08 8.6666667	2.08 7.3333333	2.08 8.6666667
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2.6	3.3333333	2.6	8	2.6	7.6666667	2.6	8
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2.67	3.3333333	2.67	8.6666667	2.67	7.3333333	2.67	7.6666667
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2.69	4	2.69	8.3333333	2.69	7.3333333	2.69	7.6666667
2.7	4	2.7	8	2.7	8	2.7	7.3333333
2.71	3.6666667	2.71	7.6666667	2.71	8	2.71	8
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2.73	3.3333333	2.73	8.6666667	2.73	8	2.73	7.6666667
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2.8	2.6666667	2.8	8.3333333	2.8	8	2.8	8.3333333
2.81	3.6666667	2.81	8.3333333	2.81	7	2.81	8
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2.85	3	2.85	7.3333333	2.85	7.6666667	2.85	8.3333333
2.86	4	2.86	8	2.86	7.6666667	2.86	8.3333333
2.87	3.6666667	2.87	7.6666667	2.87	7.6666667	2.87	8
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2.89	3	2.89	7.6666667	2.89	6.6666667	2.89	8
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2.92	3.3333333	2.92	8.3333333	2.92	7.6666667	2.92	8
2.93	3.3333333	2.93	8.3333333	2.93	6.6666667	2.93	7.6666667
2.94	3.3333333	2.94	8.3333333	2.94	7.3333333	2.94	9
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2.97	2.6666667	2.97	8.3333333	2.97	7.6666667	2.97	8.3333333
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3.01	3.3333333	3.01	8.6666667	3.01	8	3.01	7.6666667
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3.03	3.6666667	3.03	8.3333333	3.03	8	3.03	6.3333333
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5.6	0	5.6 6.3333333	5.6	0	5.6	6.6666667

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5.62	0	5.62 7	5.62	0	5.62 6.6666667
5.63	0	5.63 6	5.63	0	5.63 6.3333333
5.64	0	5.64 5	5.64	0	5.64 7
5.65	0	5.65 6.6666667	5.65	0	5.65 6
5.66	0	5.66 4.3333333	5.66	0	5.66 7.6666667
5.67	0	5.67 6	5.67	0	5.67 4.6666667
5.68	0	5.68 5	5.68	0	5.68 6.3333333
5.69	0	5.69 4.6666667	5.69	0	5.69 7
5.7	0	5.7 5.6666667	5.7	0	5.7 7.3333333
5.71	0	5.71 5	5.71	0	5.71 6.6666667
5.72	0	5.72 5.6666667	5.72	0	5.72 5.6666667
5.73	0	5.73 5	5.73	0	5.73 5
5.74	0	5.74 5.6666667	5.74	0	5.74 6
5.75	0	5.75 6	5.75	0	5.75 7
5.76	0	5.76 5	5.76	0	5.76 5.6666667
5.77	0	5.77 5.3333333	5.77	0	5.77 6
5.78	0	5.78 5.6666667	5.78	0	5.78 5
5.79	0	5.79 4.6666667	5.79	0	5.79 5.3333333
5.8	0	5.8 5.3333333	5.8	0	5.8 5.6666667
5.81	0	5.81 5.6666667	5.81	0	5.81 7
5.82	0	5.82 4.6666667	5.82	0	5.82 5.3333333
5.83	0	5.83 4.6666667	5.83	0	5.83 6.6666667
5.84	0	5.84 2.3333333	5.84	0	5.84 5.6666667
5.85	0	5.85 4.3333333	5.85	0	5.85 6
5.86	0	5.86 4	5.86	0	5.86 5
5.87	0	5.87 5.3333333	5.87	0	5.87 5.6666667
5.88	0	5.88 4	5.88	0	5.88 3.6666667
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5.9	0	5.9 4.6666667	5.9	0	5.9 7
5.91	0	5.91 3.6666667	5.91	0	5.91 6.6666667
5.92	0	5.92 4.3333333	5.92	0	5.92 5.3333333
5.93	0	5.93 5	5.93	0	5.93 5.6666667
5.94	0	5.94 5.3333333	5.94	0	5.94 4.3333333
5.95	0	5.95 5	5.95	0	5.95 5.6666667
5.96	0	5.96 4.6666667	5.96	0	5.96 5
5.97	0	5.97 5.3333333	5.97	0	5.97 6.3333333
5.98	0	5.98 5	5.98	0	5.98 5.3333333
5.99	0	5.99 4	5.99	0	5.99 6
6	0	6 3	6	0	6 5.6666667
6.01	0	6.01 5.6666667	6.01	0	6.01 5.6666667
6.02	0	6.02 4	6.02	0	6.02 6.6666667
6.03	0	6.03 3.3333333	6.03	0	6.03 6.6666667
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6.05	0	6.05 2.6666667	6.05	0	6.05 5.3333333
6.06	0	6.06 3.3333333	6.06	0	6.06 4.6666667
6.07	0	6.07 4	6.07	0	6.07 4
6.08	0	6.08 2.3333333	6.08	0	6.08 3
6.09	0	6.09 2	6.09	0	6.09 4.6666667
6.1	0	6.1 1.6666667	6.1	0	6.1 4
6.11	0	6.11 2.3333333	6.11	0	6.11 4

6.12	0	6.12 2.6666667	6.12	0	6.12 4.6666667
6.13	0	6.13 1.6666667	6.13	0	6.13 5
6.14	0	6.14 2.3333333	6.14	0	6.14 5
6.15	0	6.15 1	6.15	0	6.15 5.3333333
6.16	0	6.16 1.3333333	6.16	0	6.16 4.3333333
6.17	0	6.17 1.6666667	6.17	0	6.17 5.6666667
6.18	0	6.18 1.3333333	6.18	0	6.18 4.6666667
6.19	0	6.19 1.6666667	6.19	0	6.19 4.6666667
6.2	0	6.2 1.3333333	6.2 0.3333333		6.2 4
6.21	0	6.21 1.3333333	6.21	0	6.21 4.3333333
6.22	0	6.22 1	6.22	0	6.22 2.3333333
6.23	0	6.23 1.3333333	6.23	0	6.23 3.3333333
6.24	0	6.24 1.3333333	6.24	0	6.24 3.3333333
6.25	0	6.25 2	6.25	0	6.25 2.6666667
6.26	0	6.26 2.3333333	6.26	0	6.26 2
6.27	0	6.27 2.6666667	6.27	0	6.27 3
6.28	0	6.28 1	6.28	0	6.28 2.3333333
6.29	0	6.29 1.6666667	6.29	0	6.29 3.6666667
6.3	0	6.3 1	6.3	0	6.3 2.6666667
6.31	0	6.31 1.3333333	6.31	0	6.31 2.3333333
6.32	0	6.32 1.3333333	6.32	0	6.32 3
6.33	0	6.33 1.3333333	6.33	0	6.33 2.3333333
6.34	0	6.34 0.3333333	6.34	0	6.34 2.3333333
6.35	0	6.35 0	6.35	0	6.35 2.6666667
6.36	0	6.36 0	6.36	0	6.36 2.6666667
6.37	0	6.37 0	6.37	0	6.37 2.6666667
6.38	0	6.38 0	6.38	0	6.38 2.6666667
6.39	0	6.39 0	6.39	0	6.39 2.3333333
6.4	0	6.4 0	6.4	0	6.4 2
6.41	0	6.41 0	6.41	0	6.41 2.3333333
6.42	0	6.42 0	6.42	0	6.42 2.6666667
6.43	0	6.43 0	6.43	0	6.43 3
6.44	0	6.44 0	6.44	0	6.44 2
6.45	0	6.45 0	6.45	0	6.45 2.3333333
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6.48	0	6.48 0	6.48	0	6.48 1.6666667
6.49	0	6.49 0	6.49	0	6.49 2
6.5	0	6.5 0	6.5	0	6.5 1
6.51	0	6.51 0	6.51	0	6.51 1.3333333
6.52	0	6.52 0	6.52	0	6.52 1.6666667
6.53	0	6.53 0	6.53	0	6.53 1.6666667
6.54	0	6.54 0	6.54	0	6.54 1.3333333
6.55	0	6.55 0	6.55	0	6.55 1.3333333
6.56	0	6.56 0	6.56	0	6.56 1.6666667
6.57	0	6.57 0	6.57	0	6.57 1.6666667
6.58	0	6.58 0	6.58	0	6.58 2.3333333
6.59	0	6.59 0	6.59	0	6.59 1.6666667
6.6	0	6.6 0	6.6	0	6.6 1.3333333
6.61 0.3333333		6.61 0	6.61	0	6.61 2.3333333
6.62	0	6.62 0	6.62	0	6.62 1.3333333

6.63	0	6.63	0	6.63	0	6.63	0
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6.66	0	6.66	0	6.66	0	6.66	0
6.67	0	6.67 0.3333333		6.67	0	6.67	0
6.68	0	6.68	0	6.68	0	6.68	0
6.69	0	6.69	0	6.69	0	6.69	0
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6.73	0	6.73	0	6.73	0	6.73	0
6.74	0	6.74	0	6.74	0	6.74	0
6.75	0	6.75	0	6.75	0	6.75	0
6.76	0	6.76 0.3333333		6.76	0	6.76	0
6.77	0	6.77 0.3333333		6.77	0	6.77	0
6.78	0	6.78	0	6.78	0	6.78	0
6.79	0	6.79	0	6.79	0	6.79	0
6.8	0	6.8 0.3333333		6.8	0	6.8	0
6.81	0	6.81	0	6.81	0	6.81	0
6.82	0	6.82	0	6.82	0	6.82	0
6.83	0	6.83	0	6.83	0	6.83	0
6.84 0.3333333		6.84	0	6.84	0	6.84	0
6.85	0	6.85	0	6.85	0	6.85	0
6.86	0	6.86	0	6.86	0	6.86	0
6.87	0	6.87	0	6.87	0	6.87	0
6.88	0	6.88	0	6.88	0	6.88	0
6.89	0	6.89	0	6.89	0	6.89	0
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6.91	0	6.91	0	6.91	0	6.91	0
6.92	0	6.92 0.3333333		6.92	0	6.92	0
6.93	0	6.93	0	6.93	0	6.93	0
6.94	0	6.94 0.3333333		6.94 0.3333333		6.94	0
6.95	0	6.95	0	6.95	0	6.95	0
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6.98	0	6.98	0	6.98	0	6.98	0
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7	0	7	0	7	0	7	0
7.01	0	7.01	0	7.01 0.3333333		7.01	0
7.02	0	7.02	0	7.02	0	7.02	0
7.03	0	7.03	0	7.03	0	7.03	0
7.04	0	7.04	0	7.04 0.3333333		7.04	0
7.05	0	7.05	0	7.05	0	7.05	0
7.06	0	7.06	0	7.06	0	7.06	0
7.07	0	7.07	0	7.07	0	7.07	0
7.08	0	7.08	0	7.08	0	7.08	0
7.09	0	7.09	0	7.09	0	7.09	0
7.1	0	7.1	0	7.1	0	7.1	0
		7.11 0.3333333		7.11	0	7.11	0
		7.12	0	7.12	0	7.12	0
		7.13	0	7.13	0	7.13	0

7.14	0.3333333	7.14	0	7.14	0
7.15	0	7.15	0	7.15	0
7.16	0	7.16	0	7.16	0
7.17	0	7.17	0	7.17	0
7.18	0	7.18	0	7.18	0
7.19	0.3333333	7.19	0	7.19	0
7.2	0	7.2	0	7.2	0
7.21	0	7.21	0	7.21	0
7.22	0.3333333	7.22	0	7.22	0
7.23	0	7.23	0	7.23	0
7.24	0	7.24	0	7.24	0.3333333
7.25	0	7.25	0	7.25	0
7.26	0	7.26	0	7.26	0
7.27	0	7.27	0	7.27	0
7.28	0	7.28	0	7.28	0
7.29	0.3333333	7.29	0	7.29	0
7.3	0	7.3	0	7.3	0.3333333
7.31	0	7.31	0	7.31	0
7.32	0	7.32	0	7.32	0
7.33	0	7.33	0	7.33	0
7.34	0.3333333	7.34	0	7.34	0
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7.36	0	7.36	0	7.36	0
7.37	0	7.37	0	7.37	0
7.38	0	7.38	0	7.38	0
7.39	0	7.39	0	7.39	0
7.4	0	7.4	0	7.4	0
7.41	0.3333333	7.41	0	7.41	0
7.42	0	7.42	0	7.42	0
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7.48	0	7.48	0	7.48	0
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7.5	0	7.5	0	7.5	0
7.51	0	7.51	0	7.51	0
7.52	0	7.52	0	7.52	0
7.53	0	7.53	0	7.53	0
7.54	0.3333333	7.54	0	7.54	0
7.55	0	7.55	0	7.55	0
7.56	0	7.56	0	7.56	0
7.57	0	7.57	0	7.57	0
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7.6	0	7.6	0	7.6	0
7.61	0	7.61	0	7.61	0
7.62	0	7.62	0.3333333	7.62	0
7.63	0	7.63	0	7.63	0
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7.67	0	7.67 0.3333333		7.67	0
7.68	0	7.68	0	7.68	0
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7.7	0	7.7	0	7.7	0
7.71	0	7.71	0	7.71	0
7.72	0	7.72	0	7.72	0
7.73	0	7.73 0.3333333		7.73	0
7.74	0	7.74	0	7.74	0
7.75	0	7.75	0	7.75	0
7.76	0	7.76	0	7.76	0
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7.78	0	7.78	0	7.78	0
7.79	0	7.79	0	7.79	0
7.8	0	7.8	0	7.8	0
7.81	0	7.81	0	7.81	0
7.82	0	7.82	0	7.82	0
7.83	0	7.83	0	7.83	0
7.84	0	7.84	0	7.84 0.3333333	
7.85	0	7.85	0	7.85	0
7.86	0	7.86	0	7.86	0
7.87	0	7.87	0	7.87	0
7.88	0	7.88 0.3333333		7.88	0
7.89 0.3333333		7.89	0	7.89	0
7.9	0	7.9	0	7.9	0
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		7.93	0	7.93	0
		7.94 0.3333333		7.94	0
		7.95	0	7.95	0
		7.96	0	7.96	0
		7.97	0	7.97	0
		7.98	0	7.98	0
		7.99	0	7.99	0

sion (nm)	ce (pN) of	sion (nm)	ce (pN) of	sion (nm)	ce (pN) of	sion (nm)	ce (pN) of
-0.097757	-329.9314	-10.53559	-522.4251	-0.498769	-626.9133	0	-489.2623
-0.017437	-331.579	-10.53007	-522.1079	-0.446595	-636.1972	-0.308615	-484.9939
-0.100357	-332.4431	-10.69791	-521.0936	-0.373107	-641.7094	-0.265732	-481.6363
-0.110958	-332.5237	-10.7385	-519.382	-0.370846	-643.4497	-0.387261	-479.1895
-0.584935	-331.8209	-10.67095	-516.9733	-0.441405	-641.4181	-0.411954	-477.6535
-0.003621	-330.6189	-10.84058	-512.282	-0.291149	-634.8836	-0.250826	-478.2267
-0.261346	-327.8123	-11.04069	-507.7558	-0.368258	-626.1075	-0.27736	-478.4959
0.050572	-325.689	-11.12287	-504.0307	-0.538072	-617.3594	-0.346399	-478.7226
-0.19909	-323.2168	-11.09371	-504.4786	-0.634709	-608.9125	-0.206914	-478.4256
-0.132718	-321.6728	-10.96256	-504.9042	-0.714783	-601.3765	-0.142537	-477.9279
-0.214599	-320.3939	-10.94053	-505.5856	-0.76621	-593.9057	-0.056488	-476.0224
-0.189842	-319.3139	-10.82039	-506.6207	-0.629737	-589.0339	-0.02205	-475.4932
-0.269403	-317.5177	-10.72815	-507.1413	-0.696704	-584.7122	-0.048945	-474.4329
-0.078705	-314.5917	-10.65929	-506.5985	-0.663687	-576.0742	-0.151306	-472.4789
-0.362299	-312.5221	-10.5717	-505.3252	-0.666769	-569.7707	-0.127518	-469.1301
-0.299594	-312.2072	-10.81044	-503.7126	-0.750439	-564.6552	-0.106556	-465.9496
0.0328189	-311.9056	-10.57762	-502.686	-0.717542	-559.2275	-0.224801	-462.4402
-0.062892	-311.3453	-10.577	-502.7735	-0.853721	-553.9392	-0.333166	-458.6595
0.1779471	-310.1588	-10.711719	-499.6728	-0.750362	-543.9379	-0.243118	-454.7552
-0.112775	-308.4067	-10.75141	-497.2408	-0.751762	-536.4021	-0.32543	-451.2289
-0.121587	-305.4719	-10.60077	-494.3886	-0.773637	-533.1539	-0.247104	-448.3433
-0.347042	-303.1352	-10.7027	-492.4745	-0.750005	-527.7971	-0.293134	-445.1401
-0.132176	-301.7665	-10.77903	-490.6407	-0.806539	-523.0592	-0.375734	-441.7406
0.1703642	-300.4797	-10.70657	-488.5419	-0.684986	-514.6909	-0.289187	-438.5209
0.0841255	-297.5418	-10.53921	-484.3609	-0.761256	-505.3204	-0.196745	-434.6126
-0.295942	-295.9769	-10.75921	-480.2588	-0.634653	-494.5184	-0.239364	-430.5838
0.070124	-294.3488	-10.95048	-471.8121	-0.859627	-480.1625	-0.351652	-426.9729
-0.09768	-292.8414	-11.27929	-463.9524	-0.80904	-467.6555	-0.373522	-423.7289
-0.066401	-290.3668	-11.38555	-456.2634	-0.738921	-462.3304	-0.251476	-420.5705
0.2374285	-289.6448	-11.43536	-452.0945	-0.848917	-452.3867	-0.371241	-417.2273
0.1819814	-287.4028	-11.49071	-447.1903	-0.97732	-442.9882	-0.343051	-413.7697
0.0769471	-285.1	-11.60348	-443.0475	-0.894782	-432.6043	-0.360679	-410.0928
-0.123088	-281.7732	-11.72914	-440.4046	-0.986677	-423.4576	-0.499558	-405.1579
-0.273962	-279.8707	-11.64195	-439.1583	-0.860835	-410.9935	-0.538088	-399.7271
6.684E-05	-277.2973	-11.55053	-435.6531	-1.009234	-403.5991	-0.44841	-395.7572
0.0774563	-274.8396	-11.50851	-434.7021	-0.992129	-396.6814	-0.441499	-392.5956
-0.021941	-271.6009	-11.510619	-433.0814	-0.832462	-390.5689	-0.424977	-388.8774
0.2269143	-269.8553	-11.42752	-429.7891	-0.830407	-377.1162	-0.362197	-387.4162
0.1677374	-267.7555	-11.65864	-424.6296	-0.952498	-364.164	-0.294874	-386.2129
0.4823701	-266.6689	-11.725911	-419.3275	-1.029703	-351.2208	-0.145647	-384.6331
0.2552094	-264.914	-11.73637	-415.4777	-0.961304	-339.0259	-0.206824	-382.5942
0.3157565	-262.8537	-11.77705	-413.1838	-1.027826	-328.1505	-0.137264	-379.7469
0.3102292	-260.1266	-11.87502	-411.3168	-0.937601	-323.945	-0.025145	-377.5375
0.0242772	-257.4157	-11.63855	-412.6682	-1.014537	-321.0851	-0.174778	-373.2107
0.0052545	-253.7278	-11.4158	-412.2708	-0.880206	-314.3973	-0.231314	-368.5523
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69.19032 28.013258 53.80971 -4.745369 75.485725 21.967838 68.53201 54.139904
69.46304 26.666079 53.83655 -0.787524 75.70356 26.102573 68.68432 54.226982
69.77866 26.038124 53.858814 3.3242314 75.723946 26.915361 68.7816 50.641766
69.92175 24.583166 53.989937 0.49615 75.70207 30.294167 69.15265 48.67348
69.84113 20.667654 54.047226 3.1224241 75.91048 28.496014 69.037994 49.621613
70.394806 15.753478 54.189518 4.385759 76.012314 23.36114 69.12272 51.946903
70.70027 13.61024 54.49656 -1.952352 76.14892 18.619434 69.20863 51.99125
70.843285 15.702482 54.75655 -4.77246 76.29655 25.079908 69.4579 51.335037
70.55837 17.01137 54.6872 -0.724902 76.40412 29.344273 69.36632 53.19974
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70.474266 20.977995 54.58372 6.7457914 76.459274 21.407288 69.59505 55.195114
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70.65085 28.233358 54.449936 18.316864 76.92182 14.368903 69.70979 61.459267
71.20684 28.611464 54.735416 14.450708 77.08713 8.490777 69.7762 59.0852
70.89632 30.141108 54.81231 13.174824 77.143616 19.387745 69.95882 59.03202
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70.93849 31.531055 55.300148 7.75998 77.29692 25.543034 70.10364 61.552624
71.12351 29.76023 55.382614 5.0466595 77.32921 30.877008 70.256714 61.060566
71.56774 25.64961 55.43278 6.043357 77.42257 27.968788 70.23001 64.12597
72.11921 19.49164 55.763466 3.3066275 77.43201 29.960087 70.24225 66.638565
72.27317 12.949156 55.864723 0.9462032 77.620255 27.196842 70.31917 68.43373
72.22405 9.524437 55.994347 -1.062078 77.76583 31.175156 70.261765 70.46752

72.46572	7.553515	56.042793	0.1166168	77.730225	35.9776	70.48784	72.52053
72.70071	10.511104	56.239098	1.3571817	77.838104	30.743086	70.45634	74.3916
72.22143	17.57679	56.266087	2.9015992	78.1246	25.975464	70.57211	72.712906
72.271416	25.053925	56.125656	7.9918623	78.16967	25.034458	70.84228	68.93552
71.82696	31.871532	56.220512	10.648629	78.38965	17.949282	70.949524	63.91558
71.80698	37.321167	56.359074	8.593658	78.41525	17.238863	71.39471	57.3625
71.77983	40.380444	56.389744	9.524997	78.751305	12.014377	71.65521	50.11491
72.13924	38.95345	56.282345	10.980304	78.49284	19.301434	71.760086	49.485123
72.30651	34.27666	56.316467	14.561993	78.55729	26.88976	71.70796	51.404896
72.6544	31.346165	56.537212	13.524073	78.45261	28.81386	71.82555	53.536785
72.505974	33.859146	56.79852	8.563627	78.72092	27.659695	71.919395	54.011883
72.671646	34.50645	57.122627	3.7804706	78.99318	25.75603	71.941055	54.654778
72.67262	37.10943	57.33715	-0.671491	78.95683	30.281336	72.202866	52.337147
72.67768	41.075146	57.47006	-1.52259	79.061226	25.946278	72.39603	53.12396
73.005264	38.851875	57.444084	1.6466411	79.22859	20.806877	72.37859	54.73803
73.14449	32.772568	57.438457	6.954501	79.25255	31.814308	72.2789	60.83967
73.43064	24.750687	57.162197	12.595406	79.21476	43.291634	72.18029	67.13232
73.942085	20.81143	57.346657	9.725458	79.24372	46.418423	72.391754	67.080635
73.75978	21.617931	57.77128	5.9170256	79.37397	43.09073	72.40545	65.418755
73.79094	23.733822	57.96276	-0.15819	79.514885	33.996845	72.6218	62.54172
73.42259	28.340391	58.254166	-4.706646	79.73979	35.256203	72.92511	57.23537
73.51149	32.51892	58.395412	-6.059189	79.91114	34.91653	72.90344	56.27495
73.73673	35.61425	58.57615	-5.873699	79.9686	31.50443	73.10874	54.71881
73.772064	37.66772	58.418423	-1.821804	79.98373	32.12414	73.22291	53.694412
73.8353	39.48795	58.453033	4.046976	80.16447	36.56729	73.36272	52.379627
73.91121	42.68436	58.308052	7.601291	80.17724	43.79174	73.34232	54.337772
73.61253	49.350132	58.159367	14.006516	80.07444	46.689285	73.40311	57.84395
73.08439	56.819305	58.187794	15.580643	80.31353	46.24289	73.45986	57.477547
73.2211	57.149155	58.47063	13.879375	80.33667	45.65964	73.56426	59.248035
73.67432	52.873096	58.50758	13.729525	80.5459	47.135803	73.51395	61.19405
73.92436	49.232933	58.654408	12.692262	80.59491	48.342606	73.84438	58.611595
74.4002	43.898552	58.789177	12.540915	80.88656	39.27151	73.97819	55.150074
74.5148	39.3402	58.694027	15.546101	80.954056	32.22076	74.158615	51.886066
74.73269	37.228306	58.83181	18.185024	80.92302	32.77643	74.18423	56.128895
74.761826	39.518517	58.6881	21.537912	81.226265	24.79335	74.24224	59.327114
74.90064	40.033997	58.943287	19.770332	81.34554	22.626263	74.0976	64.1615
75.04269	37.473255	58.897285	21.66533	81.4512	21.06505	74.16293	68.58796
74.969864	33.712715	58.86075	25.978388	81.4292	24.804182	74.20192	72.13601
75.66463	28.433277	59.275097	20.86456	81.53098	34.717094	74.2136	73.66364
75.89498	23.41046	59.62364	14.038772	81.61053	39.70562	74.24715	73.16879
75.83981	20.049805	59.877274	7.2348204	81.62554	44.407303	74.53762	67.94378
76.02286	20.019398	60.133884	1.8323832	81.686676	46.521763	74.68907	63.995796
76.032364	22.516829	60.345512	-1.658819	81.85011	40.017532	74.99605	60.795612
76.368324	24.484882	60.421173	1.5358218	82.036156	41.645157	74.93798	63.44777
76.12314	30.311323	59.992943	14.560133	82.00208	38.528988	75.047066	62.56358
76.10593	33.951122	60.004383	19.38308	82.24362	34.951626	75.00498	69.27279
75.90219	34.795296	60.01833	18.418514	82.31947	41.469837	74.816124	78.7042
76.36108	31.984652	60.219185	15.968478	82.28655	42.531445	74.88072	79.408356
76.42857	28.168903	60.34752	14.27051	82.545876	50.31411	75.099686	75.46949
76.656876	25.298443	60.43382	16.185368	82.533615	46.067326	75.39358	72.531845
76.7745	24.759935	60.506424	18.044682	82.60601	42.598	75.57614	69.651436

76.75054	24.913076	60.374035	22.093494	82.681816	44.831184	75.57115	67.96538
77.168785	27.568998	60.45677	22.349396	82.895195	41.05436	75.86693	65.46398
76.84095	32.114254	60.955997	14.518385	83.03268	33.204075	75.72521	69.13007
76.95327	37.890293	60.97595	11.82371	83.19168	39.271084	75.79205	73.49945
76.63393	39.05079	61.25329	8.217654	83.1714	33.35373	75.88702	71.369446
77.07878	37.745445	61.38142	8.7879305	83.36943	34.291035	76.02099	70.68825
77.41798	36.25151	61.291595	13.511341	83.41119	30.401945	76.06364	71.59492
77.46533	33.74179	61.192245	18.597334	83.52381	33.377472	76.225586	72.13454
77.3619	32.529167	61.15281	22.105705	83.593155	37.840343	76.29344	73.8681
77.52859	32.83601	61.226692	21.628014	83.61688	44.015377	76.20649	78.30106
77.871	33.909565	61.4663	20.469288	83.75267	44.098145	76.43305	79.59592
77.908104	34.97565	61.658207	20.609509	83.70515	51.413177	76.44707	81.31059
77.85518	32.59285	61.96329	14.224165	83.924225	47.78752	76.39004	83.37295
78.205414	29.359018	62.20658	8.7938595	84.061195	43.12064	76.642685	83.68985
78.56179	25.19059	62.46534	6.8876987	84.06078	44.205017	76.61738	83.64105
78.46463	22.364595	62.491493	4.835271	84.256325	41.09227	76.90278	81.93633
78.712776	24.080956	62.62576	1.6768636	84.30127	39.44443	76.942955	80.82954
78.42917	27.62202	63.112152	-5.960158	84.56008	40.70108	77.05345	80.950134
78.822624	30.935463	63.33535	-9.507895	84.58586	39.146782	77.30481	77.65177
78.484985	32.99118	63.502384	-11.92132	84.67493	42.549664	77.27228	76.465706
78.76187	29.797157	63.83862	-16.50269	84.81326	44.325798	77.35303	80.265724
79.16941	24.995417	63.835186	-12.51199	84.836876	47.50716	77.402306	81.64444
79.37861	22.028812	63.76424	-7.170598	84.89502	51.432297	77.464485	84.3666
79.255745	27.022993	63.720108	-5.02191	84.86058	53.57541	77.44056	88.694496
78.95673	33.818695	63.704845	-2.930451	85.03455	53.333637	77.458305	89.485405
78.803635	39.445858	63.875015	-2.416762	85.22488	45.51699	77.46086	90.43792
78.75672	45.971565	63.85504	0.7499236	85.36895	39.123707	77.66038	92.3515
78.7337	48.80068	63.97576	-1.008805	85.43661	39.939117	77.652725	93.78525
78.51259	47.163376	64.02935	-3.460853	85.61644	45.056805	77.75484	95.039856
79.07529	42.564648	63.986805	0.3389684	85.502426	53.99173	77.967766	93.290184
79.60931	38.24362	64.167625	-0.867359	85.77906	52.846237	77.98472	93.29394
79.86852	37.302982	64.17782	-0.745248	85.58983	55.355026	78.11577	95.23428
79.75425	34.68968	64.21807	2.492411	85.856995	51.9803	78.17339	95.247734
79.59937	32.06785	64.24903	5.7229724	86.09945	45.072643	78.13113	94.37835
80.10353	31.915245	64.3416	7.8700967	86.205124	43.5102	78.38834	92.60416
80.12525	34.450344	64.38039	6.6108384	86.18962	44.646152	78.78905	88.41318
79.79882	39.464745	64.531334	3.2589123	86.23038	50.1268	78.787605	85.99918
80.05559	41.941216	64.690834	2.446236	86.32955	55.434586	78.95861	83.91764
79.997665	37.13416	64.94397	1.2142769	86.41392	51.166454	78.89124	87.19672
80.53287	32.951023	65.15248	0.0410921	86.486755	54.141987	78.92668	91.61847
80.84822	31.968355	65.17214	1.5868453	86.659584	53.333878	78.983734	94.895874
80.86448	31.07914	65.34671	2.2130613	86.72689	52.789173	79.05553	94.82931
80.98702	32.146557	65.28187	4.878648	86.88002	52.47404	79.119446	96.11837
80.96151	36.295803	65.348114	5.934548	86.9246	51.210297	79.34541	94.51179
80.59384	41.607933	65.508644	1.9442486	87.03564	47.04476	79.35215	96.63922
80.687836	46.447136	65.86767	0.0386011	87.182686	43.15419	79.33103	98.80538
80.6068	47.5107	65.70172	1.7775451	87.356224	43.30092	79.18745	104.78706
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81.25468	43.112923	66.12471	2.2471104	87.55522	55.379265	79.73426	100.64201
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81.468094	36.368374	66.51257	-5.572406	87.880394	47.14775	80.1896	90.505714
81.6546	34.43731	66.80235	-13.93798	87.851105	45.314983	80.31883	90.04665
81.80159	36.472683	67.11225	-16.6977	88.18545	47.090622	80.395996	92.382774
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83.48398	37.29725	68.05573	0.8465199	89.64818	49.198734	81.147514	119.894
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84.18488	48.01359	68.915016	1.5849406	90.41866	63.09502	81.88177	129.45522
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84.481544	43.692383	68.94333	10.001418	90.557495	68.78625	81.76728	139.63376
84.236824	43.862835	68.73121	13.00295	90.773445	70.3149	81.89726	139.73996
84.303665	45.394386	69.13344	11.007821	90.70415	69.54818	82.123886	138.07433
84.86938	46.55187	69.3735	5.5339255	90.97929	64.714195	82.28562	138.57858
84.59067	51.000126	69.69119	-2.020505	91.03059	63.50325	82.32679	140.7283
84.459694	53.99081	69.96297	-5.610759	91.186806	58.734066	82.2651	141.6429
84.11635	54.919487	70.21077	-7.47725	91.28678	56.433384	82.45408	142.90593
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85.17785	46.71663	70.16398	-0.54385	91.55553	60.439842	82.48169	143.82242
85.31555	47.50264	70.15128	2.1512773	91.61301	67.78104	82.77728	144.15738
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85.721825	50.28349	70.550095	-0.697827	91.702835	74.09219	82.731316	148.45909
85.49133	52.44003	70.5736	1.3201557	91.78756	67.72165	82.96257	145.96437
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85.56067	58.294807	70.85973	1.0179288	92.16471	61.915707	83.17822	143.84486
85.22058	61.4283	70.80546	4.2030478	92.41376	58.88271	83.44379	143.34619
85.09211	63.388134	70.68219	7.690201	92.33638	63.06928	83.500626	146.22786
85.28828	64.07098	70.70205	10.658262	92.52641	63.835854	83.389656	149.78001
85.846634	61.636833	70.831856	8.001256	92.49626	60.257263	83.36852	154.69899
86.01095	57.689842	71.18919	3.7078898	92.67279	56.526237	83.33888	155.4073

86.11314	53.3644	71.475975	-0.029018	92.790215	52.576614	83.528885	156.71754
86.24111	52.91318	71.66707	-3.93271	93.00524	54.433834	83.55503	162.95323
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85.97537	58.15079	71.894394	-5.429157	93.098076	61.611675	83.371506	171.03024
86.064735	62.099846	72.00324	-6.651064	93.08407	67.001175	84.04384	151.77422
86.227974	62.498367	72.225525	-8.478007	93.10066	73.75092	84.92735	123.10276
86.502846	60.852863	72.382675	-10.37828	93.122185	72.49529	86.00834	90.26423
86.71294	59.23703	72.529816	-10.84453	93.399284	70.36834	86.79412	56.69745
86.94857	55.111225	72.6553	-9.893837	93.47976	74.11423	87.70592	32.580555
87.13841	54.3217	72.64851	-8.65203	93.68897	78.269394	88.04818	24.07255
87.04628	49.794815	72.44719	-1.24942	93.553665	78.27157	87.931335	31.872108
87.69877	46.070793	72.33579	4.7544	93.71086	79.41768	87.831635	36.004356
87.51783	45.104694	72.428154	4.5362673	93.836006	81.89041	87.82352	39.14967
87.95522	39.99392	72.676384	2.2179759	93.74464	84.95655	87.69411	44.913506
88.27147	34.67074	72.7676	-0.778803	93.87204	79.24607	87.73853	46.062443
88.60716	31.171375	73.1201	-6.262442	93.95008	78.370476	88.06096	44.42801
88.62395	30.29221	73.213356	-7.990675	94.12898	80.093834	88.17013	40.978264
88.47296	34.53728	73.3286	-3.942115	94.20402	78.91822	88.37286	39.028763
88.54034	37.86327	72.99	4.8038845	94.35798	76.912544	88.391556	38.50249
88.44739	42.378033	72.98721	9.891822	94.478134	78.361855	88.53917	38.130768
88.512505	46.632328	73.064674	8.198428	94.405045	83.726425	88.628265	39.689056
88.43156	47.40419	73.38097	2.110926	94.60986	81.59818	88.59811	42.756004
88.48744	46.16361	73.55772	-0.950753	94.71854	81.35915	88.83559	40.120655
88.95626	46.393253	73.749435	-0.671493	94.95259	78.390495	89.02652	36.467606
88.896355	48.174664	73.601074	5.7565985	94.87717	81.105225	89.07875	36.358055
88.40203	51.804752	73.35121	14.526514	95.04363	87.13321	89.04529	40.87484
88.71196	56.730114	73.32055	18.432543	95.16234	91.39862	89.22301	41.41998
88.51565	60.850475	73.35276	18.543182	95.15039	94.84986	89.3708	38.797165
88.32513	64.98619	73.66539	15.911052	95.00379	106.92603	89.606964	36.348625
88.31115	70.05966	74.04557	9.045825	95.22574	107.6422	89.61877	38.233154
88.228325	74.64341	74.16384	6.7503104	95.226746	107.65429	89.624954	39.873814
88.542175	75.268524	74.27336	5.1654115	95.496	100.16039	89.58834	44.320614
89.066505	69.82998	74.39475	6.676739	95.63007	92.179115	89.44548	52.786186
89.117676	61.937233	74.24794	10.69025	95.799255	84.666626	89.46664	59.020752
89.73589	54.94977	74.43356	12.192	95.967476	81.1657	89.35705	65.27301
89.56382	50.516838	74.579834	14.287002	96.05098	79.17918	89.304085	67.37099
89.899216	49.919453	74.54988	16.312265	96.13261	90.56469	89.565765	65.32518
89.83654	54.86137	74.71811	12.476026	96.224	90.02176	89.74609	65.09221
89.85685	60.520874	74.912254	7.613623	96.1716	97.58552	89.74421	63.56376
89.63174	64.63306	75.15223	3.3915422	96.37579	100.24021	89.881	60.032536
89.42578	66.838745	75.22915	3.606412	96.39611	97.03235	90.18045	58.578987
89.35431	70.34975	75.146385	5.894566	96.523	95.98564	90.328026	54.862976
89.64979	71.82365	75.22334	8.645111	96.56294	96.31992	90.50902	55.37921
89.84693	71.95009	75.43159	11.106314	96.92401	91.37835	90.66364	51.680733
89.93792	68.45206	75.379166	11.59429	96.878815	93.96402	90.782936	46.067547
89.96995	62.36943	75.62554	8.104033	96.99279	87.79682	90.93013	43.793697
90.512924	57.11165	75.84009	5.9842095	97.0695	89.92198	91.08349	42.792103
90.727325	54.60984	75.82911	5.8904634	97.11876	91.34554	91.148575	44.260376
91.034195	53.177082	75.767815	7.672415	97.17146	90.935776	91.23795	50.33179
90.85686	55.660667	76.13975	5.3409758	97.40684	91.41084	91.02067	57.183117
90.89258	56.160686	76.2408	3.9294558	97.38776	95.088455	91.16044	63.274616

91.16819	57.96855	76.427956	3.6993914	97.45652	94.055336	91.06353	63.972958
90.96141	61.83596	76.470085	2.7541564	97.64368	93.7261	91.150696	65.698616
90.96633	63.99635	76.71328	-0.710426	97.69744	91.234436	91.33307	66.34273
91.06623	66.7496	76.93031	-2.899999	97.84922	90.11359	91.36436	64.97872
91.00441	68.678276	76.949585	-1.273158	97.92258	83.67711	91.46851	61.856075
91.10636	68.55545	77.05332	1.950419	98.15848	80.160965	91.67554	60.879814
91.45499	70.42893	76.886116	5.076075	98.414375	77.29965	91.69881	63.981724
90.94849	72.98295	76.88098	10.236206	98.33156	84.42393	91.71302	69.01716
91.17957	74.066216	76.817314	13.984166	98.238976	88.54169	91.88344	71.02551
91.297356	75.33247	76.83474	15.286596	98.36911	95.28263	91.64794	77.42185
91.51647	74.24899	76.779305	15.183314	98.47966	99.04487	91.56374	80.14217
91.525795	73.23003	77.13606	13.48138	98.56439	95.3301	91.79994	78.4754
91.69115	72.51106	77.315186	8.797936	98.73061	91.910675	91.94803	74.38744
91.92249	71.22395	77.68528	4.045049	98.948845	91.24041	92.286896	71.43444
92.06401	73.42833	77.78629	5.3817487	98.90702	87.62571	92.39565	69.10112
91.95296	78.350716	77.8121	7.3290715	98.94208	89.581024	92.332596	69.38757
92.11428	77.30472	77.91667	9.177937	99.143074	95.32872	92.650635	68.64157
92.06524	74.89089	77.73896	13.815516	99.09261	102.59731	92.61352	68.99628
92.30444	73.299065	77.655556	19.882284	99.13706	102.26049	92.749504	68.883835
92.48061	76.00756	77.72487	20.373993	99.39272	100.11816	92.796036	70.40923
92.30127	77.70025	78.119415	18.868498	99.38866	103.38109	92.88365	71.945724
92.339775	75.71452	78.08181	15.314166	99.5069	102.48785	92.85957	76.778404
92.8931	71.798355	78.15378	12.487535	99.60579	100.18185	92.8295	79.88558
93.07904	68.29063	78.55267	8.9602995	99.81961	97.06064	92.93966	81.79898
93.338295	65.08167	78.71553	7.575416	100.00033	93.05873	92.92698	79.49194
93.39246	64.48937	78.88069	2.875587	99.92382	92.742836	93.33426	74.82019
93.428925	69.04527	79.01257	2.0595555	100.1771	87.93298	93.585785	72.298454
92.89191	77.56965	79.18828	4.4131103	100.43128	83.49469	93.68779	69.81615
92.812485	81.605156	79.004684	7.6665983	100.45578	79.7557	93.666534	71.39392
92.63721	81.28489	79.164566	6.4354963	100.39838	83.64111	93.67807	76.625534
93.28694	79.41831	79.30392	6.2196584	100.55727	91.09001	93.55673	81.25804
93.38446	77.194405	79.39006	7.1572056	100.65653	93.97318	93.58424	85.472404
93.55809	76.35224	79.484566	7.593176	100.71048	96.20957	93.79797	82.7373
93.5299	76.979294	79.69762	6.560417	100.84091	101.52868	94.00325	80.27072
93.80218	79.55074	79.595695	8.53812	100.88065	100.8589	94.096794	80.16402
93.467804	83.08758	79.53145	12.302259	101.16462	95.28865	94.21356	79.35065
93.541756	84.8405	79.76672	10.417148	101.05306	95.4553	94.34882	82.18999
93.51442	87.49481	79.894745	5.272921	101.27708	99.802376	94.22995	84.39867
93.55927	91.39422	80.04412	4.572235	101.41151	101.0381	94.295265	87.139656
93.52189	91.78261	80.104866	7.5412507	101.40574	96.60629	94.386314	87.07579
94.00736	86.6026	80.11078	10.218331	101.56879	101.69772	94.68107	79.58189
94.45654	80.334984	80.078636	14.070577	101.55353	106.40286	94.7533	75.06931
94.09062	74.60324	80.05839	20.119667	101.68504	109.20202	94.99567	72.06864
94.67311	72.78352	80.12099	19.384607	101.8818	106.10377	95.21296	70.02431
94.81284	75.1559	80.63428	11.905006	101.84558	109.09219	95.3697	69.25597
94.54026	81.41908	80.69912	7.7482204	101.81625	107.74282	95.39604	73.05866
94.57713	90.932434	80.889626	7.0479	102.04475	100.55981	95.29107	79.858604
94.13497	97.13447	80.861916	8.704375	102.16165	101.73245	95.22675	82.66117
94.1811	100.05939	81.06609	8.232888	102.19126	107.69222	95.52885	80.462685
94.43942	99.576355	81.04817	9.175043	102.35621	108.44365	95.585205	80.756195
94.36028	97.237335	80.98014	15.046438	102.27955	109.53606	95.57742	81.231544

94.73718	97.80638	81.22368	12.012029	102.67982	108.35143	95.75518	75.875046
94.5282	97.58395	81.53784	6.4877286	102.5887	107.47532	96.02592	70.072395
94.77398	95.86596	81.7439	4.166202	102.59152	105.46343	96.11658	70.8915
94.76044	97.72028	81.702934	3.7593486	102.70165	105.67284	96.034966	78.50254
94.999176	98.28717	81.801285	5.6743913	102.98236	106.09606	96.04673	83.49277
95.287605	96.6439	81.79394	8.251351	103.09319	105.89093	95.910545	90.43315
95.42495	90.542	81.882965	11.141475	103.20618	106.17551	96.06862	92.49533
95.774	86.32656	81.86838	13.985255	103.23245	107.36137	96.18957	89.79522
95.78197	88.16528	81.844025	12.704917	103.34467	105.99934	96.64152	80.0966
95.948425	88.74382	82.283424	8.5141945	103.32974	105.68798	96.69155	74.0932
96.20875	89.87172	82.49073	5.4816775	103.36388	105.66261	96.92861	70.15755
95.959816	95.26693	82.65477	4.165732	103.41602	112.92661	97.18134	71.701225
95.494125	100.59748	82.770966	4.84111	103.52652	117.28143	97.088936	76.60688
95.94937	103.76781	82.71461	6.6249695	103.60983	125.47894	96.8794	85.67631
95.75745	104.29872	82.62627	9.369255	103.67033	125.02124	96.86944	90.35354
96.0689	104.91515	82.738495	12.558667	103.75791	129.13077	97.06026	90.127754
96.07577	105.21529	82.677246	15.320829	103.89966	129.31747	97.12696	88.97252
96.26302	99.7193	82.73989	14.310745	103.94463	127.21033	97.30454	91.259834
96.3611	94.70687	82.83227	12.262993	104.24303	121.54248	97.25585	93.28226
96.676384	93.147354	83.1497	10.140078	104.25864	123.2916	97.23811	97.24696
96.62176	94.23424	83.163185	11.119408	104.23004	121.63248	97.17107	100.32489
96.86035	96.73421	83.049515	14.777676	104.54999	120.95383	97.174706	104.2123
96.98417	99.86633	83.22298	17.633692	104.62386	117.93056	97.17428	106.8345
96.72883	103.98425	83.13343	21.36775	104.57402	125.94624	97.23269	107.36872
96.7163	106.96931	83.12057	25.214693	104.67319	129.40414	97.432304	107.8167
96.90375	106.02623	83.27384	24.812584	104.85117	131.80379	97.445465	109.9162
97.11578	102.86364	83.35677	21.404242	104.91902	126.67904	97.38054	116.75839
97.31191	99.640495	83.68307	18.656624	104.96622	124.35928	97.23648	123.35119
97.75419	95.12373	83.67181	19.921997	105.01489	124.55384	97.40834	123.70498
97.57485	93.43986	83.71993	21.148008	105.28308	124.8037	97.70817	118.16935
98.03134	93.05596	84.03802	19.643934	105.25081	127.89415	97.9649	109.32691
98.019875	96.7124	83.92794	18.2936	105.22192	136.90704	98.24522	103.84119
97.61672	104.33997	84.23517	17.572227	105.4211	137.84328	98.44057	99.694565
97.51891	110.16515	84.44707	14.850823	105.60856	125.7954	98.58417	95.68178
97.600006	108.25592	84.7264	11.558638	105.88743	102.20753	98.64953	98.00858
97.732445	105.78113	84.67542	11.668413	106.26691	77.10803	98.54086	104.76762
98.178955	102.28555	84.487656	16.460287	106.61131	53.734196	98.57178	106.3419
98.454834	100.30012	84.474686	21.865587	106.94928	38.486813	98.62075	104.72165
98.251366	98.146736	84.43378	26.262934	106.96944	37.469906	98.87824	106.90246
98.347046	100.16777	84.4396	29.318506	106.97505	49.777416	98.801735	111.8602
98.37428	105.25777	84.512024	31.01696	106.87824	55.346077	98.82014	114.95696
98.444786	107.05394	84.748405	29.030617	107.04531	54.980324	98.85486	116.15514
98.579315	104.08953	85.23797	20.042757	107.08466	54.086323	98.88535	118.74274
98.48768	105.38583	85.45625	11.654778	107.34929	46.44893	98.9337	123.13228
99.07946	104.98393	85.723015	6.719958	107.50947	39.211136	99.0444	123.56344
98.67635	104.94093	85.92778	1.72567	107.57452	39.579063	99.05412	123.69424
99.04839	105.56658	86.29365	-3.386916	107.84847	39.2558	99.23779	124.70252
98.78115	109.34892	86.290405	0.4008148	107.80775	45.13576	99.13502	128.7278
98.93142	112.21365	86.068794	10.673316	107.97646	47.138584	99.21746	131.6382
98.96823	111.11688	85.85684	19.323797	108.0211	44.01747	99.44071	130.54704
99.34758	108.38918	85.79615	24.549648	108.20638	43.868946	99.548386	127.98782

99.261154 109.23399 85.781685 27.593985 108.35603 37.747177 99.609535 124.29885
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99.23659 112.17662 86.03048 25.59757 108.52535 42.697166 100.17474 114.62499
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100.23248 107.18438 86.061066 37.309494 108.84085 57.138542 100.1944 135.31361
100.46658 100.97659 86.20032 37.160297 108.9203 57.869003 100.17754 137.86949
100.71819 94.135925 86.4406 34.184967 108.96041 58.77466 100.22062 140.07562
100.82876 89.757 86.61211 29.855444 109.05438 60.750065 100.24174 143.48271
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100.84811 108.7548 87.41034 23.362265 109.64294 62.47927 100.68771 142.19765
100.90035 109.8294 87.50482 24.538103 109.64609 70.146645 100.85917 143.11714
101.20793 108.81186 87.75991 22.703264 109.6396 68.35111 100.87402 147.30284
101.22714 108.30259 87.77569 20.673903 109.79403 67.78109 100.74744 149.62231
101.37968 105.46346 87.75174 23.308336 109.87124 62.239246 100.92379 150.53737
101.51273 105.40807 87.86276 24.428482 110.11976 56.62247 101.05029 147.94571
101.49905 109.0748 88.03832 22.043854 110.14253 57.446663 101.15758 147.41385
101.4033 111.20418 88.30316 21.363218 110.19417 58.162968 101.12724 152.80959
101.51705 112.14274 88.0561 26.389652 110.40325 57.236183 100.9208 156.91173
101.42299 111.2124 88.05514 33.12177 110.48244 64.00052 101.25021 157.88539
101.91764 110.63667 88.275 30.005123 110.55636 68.483 101.21759 157.61433
101.84037 106.14997 88.57828 23.43484 110.64355 68.93007 101.49249 155.1201
102.07894 101.63238 88.6964 23.342197 110.72697 64.29581 101.50796 154.72412
102.39674 103.88912 88.54124 26.78053 110.86922 62.583946 101.87902 152.38503
102.15585 110.15653 88.63261 29.401287 110.99631 63.847225 101.80365 150.9359
102.21742 116.43427 88.63788 31.420435 110.90234 69.012886 101.84621 153.7124
101.6444 122.10262 88.53811 36.550034 111.15428 67.79347 101.81364 158.47046
102.04756 120.35963 88.50682 40.849747 111.21016 69.14868 101.9237 159.92368
102.28173 117.18871 88.625275 39.084396 111.28806 74.42455 101.9242 161.68472
102.66294 111.95185 89.10556 31.006823 111.24798 66.57222 101.89018 164.11548
102.87911 110.29545 89.33017 27.929222 111.42428 60.44687 101.96671 166.61334
102.84824 115.57555 89.21577 33.067535 111.62472 59.65145 102.02986 167.93147
102.50747 117.93151 89.06488 36.95947 111.67569 60.56177 102.2128 169.32822
102.62703 120.40469 89.08536 38.0107 111.72834 73.91578 102.37476 170.32361
102.97034 121.74367 89.13697 39.814636 111.82654 72.13367 102.39006 170.34659
102.83599 117.08229 89.12559 42.300842 111.98141 73.04529 102.53485 168.66269
103.31728 112.61606 89.28474 43.63316 112.02742 74.191185 102.69251 166.07909
103.21931 110.89711 89.53927 37.6453 112.42474 59.74899 102.88059 165.4498
103.30455 111.98899 89.7779 35.226433 112.44072 57.869698 102.94773 167.21042
103.35608 115.95255 89.74725 39.674015 112.55287 58.017593 102.78964 175.74435
103.38673 119.89096 89.808846 38.41922 112.59992 59.97871 102.84805 171.75499
103.34921 125.08203 90.04569 34.086914 112.64566 66.35318 103.5953 150.75742
103.56654 132.10129 90.28997 30.553782 112.78147 68.632225 104.48386 125.82528
102.99149 135.41191 90.491005 31.827389 112.68085 80.225815 105.33019 97.244125
102.97022 137.35066 90.66339 30.213957 112.90761 79.21737 106.0307 67.36755
103.17692 137.51299 90.87706 26.862993 112.9861 80.496925 106.75995 45.717903

103.51733 138.0366 90.80765 27.35553 113.0221 80.85977 107.12695 36.910015
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103.25215 140.79965 91.10677 30.487988 113.25963 74.55394 107.3699 38.049763
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192.7393	324.05643	358.5488	351.63916
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235.4679	355.36465	366.33682	361.31717
274.258	324.4704	359.12302	343.16711
226.69165	314.58875	346.60767	363.13477
246.93446	361.55972	360.39313	341.34351
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232.92291	355.68787	295.17822	341.97009
257.38812	363.13208	400.60281	290.97934
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Wavelength (cm⁻¹ dmol⁻¹)

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sion (nm)	ce (pN) of	ion(nm)	ce(pN) of	sion (nm)	ce (pN) of	ion (nm)	ce (pN) of
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0.0015	43.672373	0.003	-5.600838	0.003	-29.99346	0.003	7.7394941
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0.0055	-7.902592	0.011	16.395665	0.011	-1.825044	0.011	5.8995771
0.006	-5.965771	0.012	16.340407	0.012	5.5588389	0.012	9.1628833
0.0065	-3.540834	0.013	15.520866	0.013	12.050447	0.013	12.305146
0.007	-2.221014	0.014	14.275763	0.014	17.036008	0.014	14.839971
0.0075	-3.195933	0.015	12.935194	0.015	20.092638	0.015	16.526935
0.008	-6.627805	0.016	11.706113	0.016	21.04008	0.016	17.250236
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0.009	-15.90811	0.018	9.4392598	0.018	17.326692	0.018	15.08636
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0.0105	-13.23323	0.021	2.8123426	0.021	7.7365477	0.021	0.6079674
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0.0115	-1.381022	0.023	-4.901621	0.023	8.8718528	0.023	-10.13961
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0.0125	5.9465934	0.025	-12.14628	0.025	17.203783	0.025	-10.7482
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0.102	-22.55081	0.204	25.076356	0.204	3.3522867	0.204	-0.591543
0.1025	-21.67175	0.205	26.217795	0.205	6.128161	0.205	3.0390847
0.103	-19.46791	0.206	26.813181	0.206	7.5921459	0.206	6.948497
0.1035	-17.44773	0.207	26.557579	0.207	7.8756743	0.207	10.219497
0.104	-16.42819	0.208	25.19533	0.208	7.8849255	0.208	11.967962
0.1045	-16.19198	0.209	22.587459	0.209	8.6058886	0.209	11.697311
0.105	-15.73022	0.21	18.763674	0.21	10.465899	0.21	9.5522476
0.1055	-13.90374	0.211	13.943154	0.211	13.171318	0.211	6.3240202
0.106	-10.08303	0.212	8.5153519	0.212	16.073287	0.212	3.1534926
0.1065	-4.434723	0.213	2.9822542	0.213	18.737915	0.213	1.0834274
0.107	2.2098168	0.214	-2.126203	0.214	21.247609	0.214	0.6916605
0.1075	8.7111652	0.215	-6.344584	0.215	23.990545	0.215	1.9179974
0.108	14.001479	0.216	-9.351123	0.216	27.141769	0.216	4.1422184
0.1085	17.324352	0.217	-11.01573	0.217	30.262505	0.217	6.4210496
0.109	18.285371	0.218	-11.40651	0.218	32.390536	0.218	7.7877403
0.1095	16.793956	0.219	-10.75456	0.219	32.566559	0.219	7.5878792
0.11	13.021303	0.22	-9.386907	0.22	30.468197	0.22	5.7340263
0.1105	7.4578929	0.221	-7.645868	0.221	26.628157	0.221	2.8024796
0.111	1.0401335	0.222	-5.817433	0.222	22.14915	0.222	-0.119762
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0.112	-8.826535	0.224	-2.54528	0.224	14.622774	0.224	-1.57146
0.1125	-9.862729	0.225	-1.204808	0.225	11.497104	0.225	0.8357506
0.113	-8.126236	0.226	-0.068921	0.226	7.8783808	0.226	4.7609183
0.1135	-4.982187	0.227	0.8322977	0.227	3.1973254	0.227	9.1281459
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0.1155	-13.07647	0.231	0.6817284	0.231	-18.72346	0.231	12.098343
0.116	-21.37303	0.232	-0.250666	0.232	-21.05469	0.232	7.3910798
0.1165	-29.44776	0.233	-1.163604	0.233	-20.79483	0.233	1.2514838
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0.1185	-43.92305	0.237	0.5131896	0.237	7.9227699	0.237	-14.2275
0.119	-44.42981	0.238	2.3690154	0.238	17.861657	0.238	-13.36648
0.1195	-44.20607	0.239	4.2638406	0.239	25.733963	0.239	-12.2065
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0.1225	-4.665095	0.245	5.050085	0.245	16.82889	0.245	-20.35399
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0.1235	13.102009	0.247	4.7179793	0.247	9.1385722	0.247	-19.45781
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0.126	-3.108477	0.252	11.389993	0.252	2.2067011	0.252	-5.595063
0.1265	-12.54098	0.253	12.607522	0.253	4.1808394	0.253	-1.228128

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0.128 -28.95537	0.256 14.100453	0.256 14.175209	0.256 9.2873747
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0.13 -28.21783	0.26 15.173973	0.26 25.4107	0.26 15.215803
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0.132 -7.448391	0.264 16.700785	0.264 30.801123	0.264 8.4221032
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0.1335 19.147148	0.267 13.325407	0.267 17.055778	0.267 -5.44186
0.134 22.30908	0.268 10.939065	0.268 7.382146	0.268 -8.955084
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0.2065	-10.6054	0.413	21.206045	0.413	13.360423	0.413	-5.513881
0.207	-8.655146	0.414	19.017564	0.414	13.710353	0.414	-2.815676
0.2075	-8.795608	0.415	15.885483	0.415	14.312461	0.415	0.5966133
0.208	-10.661	0.416	12.321389	0.416	14.783808	0.416	4.0379468
0.2085	-13.51019	0.417	8.933482	0.417	14.674824	0.417	7.0686698
0.209	-16.45654	0.418	6.2966846	0.418	13.670544	0.418	9.6773534
0.2095	-18.64274	0.419	4.8329268	0.419	11.767128	0.419	12.103079
0.21	-19.35895	0.42	4.7328111	0.42	9.2994144	0.42	14.426205
0.2105	-18.10732	0.421	5.9338193	0.421	6.8358749	0.421	16.282129
0.211	-14.7023	0.422	8.1523074	0.422	5.0480087	0.422	16.973723
0.2115	-9.399179	0.423	10.953239	0.423	4.5912295	0.423	15.931619
0.212	-3.014226	0.424	13.836195	0.424	5.9719129	0.424	13.158275
0.2125	3.1437354	0.425	16.318025	0.425	9.4098877	0.425	9.3007508
0.213	7.5989878	0.426	17.99858	0.426	14.719839	0.426	5.2988553
0.2135	9.2306425	0.427	18.602858	0.427	21.291123	0.427	1.8574574
0.214	7.718291	0.428	17.99875	0.428	28.19988	0.428	-0.821641
0.2145	3.6522087	0.429	16.193766	0.429	34.372482	0.429	-2.903982
0.215	-1.703287	0.43	13.317082	0.43	38.762628	0.43	-4.591814
0.2155	-6.855357	0.431	9.594707	0.431	40.49113	0.431	-5.836886
0.216	-10.45816	0.432	5.3248035	0.432	39.031615	0.432	-6.366736
0.2165	-11.53849	0.433	0.8565	0.433	34.423011	0.433	-5.912344
0.217	-9.562796	0.434	-3.42986	0.434	27.377449	0.434	-4.45586
0.2175	-4.490813	0.435	-7.147372	0.435	19.165802	0.435	-2.340868
0.218	3.1479389	0.436	-9.938136	0.436	11.258504	0.436	-0.179316
0.2185	12.192459	0.437	-11.51976	0.437	4.8888241	0.437	1.340669
0.219	20.916328	0.438	-11.73394	0.438	0.7717998	0.438	1.6850654
0.2195	27.316072	0.439	-10.58182	0.439	-0.957663	0.439	0.6921096
0.22	29.601384	0.44	-8.231888	0.44	-0.6362	0.44	-1.34109
0.2205	26.790494	0.441	-4.994477	0.441	1.0817883	0.441	-3.73939
0.221	19.133124	0.442	-1.26878	0.442	3.3678343	0.442	-5.686862
0.2215	8.1711847	0.443	2.5229281	0.443	5.4208416	0.443	-6.515504
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0.223	-20.58285	0.446	10.919197	0.446	6.871005	0.446	-0.630974
0.2235	-22.78106	0.447	12.113853	0.447	6.5307413	0.447	3.4602391
0.224	-20.67117	0.448	12.478365	0.448	6.3370347	0.448	8.0580707
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0.226	5.3049771	0.452	8.2237376	0.452	4.213348	0.452	22.287533
0.2265	8.4991487	0.453	6.3927728	0.453	3.8339439	0.453	23.014103
0.227	8.6065205	0.454	4.4429603	0.454	4.7603082	0.454	22.410896
0.2275	6.1951127	0.455	2.4497361	0.455	7.519078	0.455	20.512094
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0.229 -1.009718	0.458 -2.920589	0.458 24.638509	0.458 8.7283497
0.2295 1.0754949	0.459 -4.247844	0.459 30.718015	0.459 4.226517
0.23 5.8605973	0.46 -5.280277	0.46 35.471783	0.46 0.212353
0.2305 12.436177	0.461 -6.026461	0.461 38.126695	0.461 -3.259715
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0.239 24.696522	0.478 19.699528	0.478 45.606754	0.478 2.4254757
0.2395 31.247115	0.479 23.306177	0.479 50.696068	0.479 1.9072819
0.24 33.977993	0.48 26.350178	0.48 52.86491	0.48 2.3351681
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0.311 0.4876988	0.622 -1.364629	0.622 33.872048	0.622 -5.420315
0.3115 -2.854792	0.623 -1.229165	0.623 42.026381	0.623 -11.08372
0.312 -2.691598	0.624 -1.233037	0.624 50.219557	0.624 -15.65394
0.3125 1.4135813	0.625 -1.268357	0.625 56.352915	0.625 -19.09137
0.313 8.3168396	0.626 -1.194276	0.626 58.906158	0.626 -21.44484
0.3135 15.791148	0.627 -0.875508	0.627 57.481819	0.627 -22.59938
0.314 21.500057	0.628 -0.220854	0.628 52.924708	0.628 -22.20033
0.3145 23.926526	0.629 0.7958186	0.629 46.993977	0.629 -19.87905
0.315 22.814923	0.63 2.1404648	0.63 41.743978	0.63 -15.65091
0.3155 19.01825	0.631 3.7445961	0.631 38.896298	0.631 -10.14787
0.316 13.947332	0.632 5.5365778	0.632 39.443627	0.632 -4.501631
0.3165 8.9172951	0.633 7.4613081	0.633 43.60517	0.633 0.1502017
0.317 4.7018612	0.634 9.4780894	0.634 51.025247	0.634 3.1740013
0.3175 1.4200034	0.635 11.538405	0.635 61.021812	0.635 4.6410345
0.318 -1.251792	0.636 13.556074	0.636 72.706697	0.636 5.1302545
0.3185 -3.711765	0.637 15.38693	0.637 84.945289	0.637 5.2893313
0.319 -6.096395	0.638 16.83186	0.638 96.312243	0.638 5.4783044
0.3195 -8.112865	0.639 17.667495	0.639 105.17914	0.639 5.6954766
0.32 -9.112556	0.64 17.697058	0.64 110.05665	0.64 5.7939325
0.3205 -8.336999	0.641 16.804858	0.641 110.07508	0.641 5.7788676
0.321 -5.244399	0.642 14.995229	0.642 105.37459	0.642 5.9935726
0.3215 0.1594239	0.643 12.401649	0.643 97.146346	0.643 7.067504
0.322 7.1636801	0.644 9.2623112	0.644 87.21125	0.644 9.6179615
0.3225 14.459847	0.645 5.8702525	0.645 77.341999	0.645 13.89214
0.323 20.538043	0.646 2.5143762	0.646 68.703281	0.646 19.523251
0.3235 24.207212	0.647 -0.570679	0.647 61.688969	0.647 25.513549
0.324 25.042233	0.648 -3.232966	0.648 56.202997	0.648 30.522311
0.3245 23.467966	0.649 -5.405835	0.649 52.088989	0.649 33.329622
0.325 20.521477	0.65 -7.089021	0.65 49.409157	0.65 33.306242
0.3255 17.416147	0.651 -8.317496	0.651 48.346508	0.651 30.648792
0.326 15.11653	0.652 -9.128431	0.652 48.921915	0.652 26.280793
0.3265 14.04305	0.653 -9.535048	0.653 50.746524	0.653 21.394424
0.327 14.028024	0.654 -9.51389	0.654 53.061044	0.654 16.944255
0.3275 14.505935	0.655 -9.009916	0.655 55.039174	0.655 13.361005
0.328 14.887598	0.656 -7.960965	0.656 56.097011	0.656 10.629851
0.3285 14.899851	0.657 -6.338127	0.657 56.037738	0.657 8.6105096
0.329 14.704515	0.658 -4.191555	0.658 54.949491	0.658 7.2571529
0.3295 14.677711	0.659 -1.684762	0.659 53.059666	0.659 6.6210999
0.33 15.041642	0.66 0.9010642	0.66 50.667891	0.66 6.6783648
0.3305 15.618277	0.661 3.2041692	0.661 48.178189	0.661 7.2113885

0.331 15.887621	0.662 4.8574067	0.662 46.1409	0.662 7.8389755
0.3315 15.295079	0.663 5.5810623	0.663 45.147079	0.663 8.1584575
0.332 13.601583	0.664 5.2621736	0.664 45.587543	0.664 7.8521222
0.3325 11.069415	0.665 3.9911478	0.665 47.431994	0.665 6.7789314
0.333 8.3671279	0.666 2.0415321	0.666 50.191379	0.666 5.022407
0.3335 6.3170505	0.667 -0.199487	0.667 53.161927	0.667 2.948681
0.334 5.627023	0.668 -2.323821	0.668 55.7473	0.668 1.1263135
0.3345 6.7507569	0.669 -3.985466	0.669 57.691841	0.669 0.086206
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0.337 35.903686	0.674 -0.335655	0.674 58.934677	0.674 0.592175
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0.338 42.057753	0.676 6.8826363	0.676 53.600698	0.676 -2.650523
0.3385 39.15101	0.677 11.412375	0.677 49.702744	0.677 -4.569898
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0.3395 22.14443	0.679 21.019266	0.679 41.642948	0.679 -7.70268
0.34 10.786123	0.68 25.409592	0.68 38.754782	0.68 -8.530108
0.3405 -0.031147	0.681 29.123293	0.681 37.328959	0.681 -8.839611
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0.3415 -13.5021	0.683 34.070598	0.683 39.155505	0.683 -9.619835
0.342 -14.01375	0.684 35.453895	0.684 41.987311	0.684 -11.24131
0.3425 -9.954555	0.685 36.370234	0.685 45.784793	0.685 -13.82184
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0.3525 -56.11559	0.705 7.002322	0.705 69.721555	0.705 4.8488244
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0.3555 -21.46702	0.711 32.814703	0.711 60.717569	0.711 33.333676
0.356 -14.77854	0.712 31.99802	0.712 64.407002	0.712 32.092089

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0.3575 -0.793257	0.715 23.016165	0.715 71.549206	0.715 16.88782
0.358 2.5343599	0.716 18.976408	0.716 72.822792	0.716 9.1745831
0.3585 6.147794	0.717 14.986211	0.717 74.586873	0.717 1.6185253
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0.36 20.703334	0.72 5.7668164	0.72 85.404321	0.72 -10.55112
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0.361 27.878357	0.722 2.9286122	0.722 94.639379	0.722 -6.579292
0.3615 27.989299	0.723 2.433729	0.723 99.015805	0.723 -1.741141
0.362 24.946687	0.724 2.4480382	0.724 103.05217	0.724 4.2201335
0.3625 18.70928	0.725 2.9013478	0.725 106.49663	0.725 10.54905
0.363 9.8124324	0.726 3.745159	0.726 108.90155	0.726 16.37685
0.3635 -0.69985	0.727 4.9497962	0.727 109.71669	0.727 20.806366
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0.366 -30.92795	0.732 15.572098	0.732 86.338614	0.732 7.5879543
0.3665 -27.84475	0.733 18.347746	0.733 80.797978	0.733 1.4668393
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0.3675 -18.70332	0.735 23.8324	0.735 75.58405	0.735 -4.535796
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0.3685 -14.68407	0.737 27.869093	0.737 75.400909	0.737 -0.523036
0.369 -15.96109	0.738 28.718141	0.738 74.45996	0.738 3.1402745
0.3695 -18.83632	0.739 28.510163	0.739 71.993197	0.739 6.3354106
0.37 -22.37104	0.74 27.166662	0.74 68.34715	0.74 8.4709642
0.3705 -25.59336	0.741 24.760589	0.741 64.603111	0.741 9.7210486
0.371 -27.71753	0.742 21.525032	0.742 61.950497	0.742 10.849507
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0.372 -27.38972	0.744 14.138454	0.744 61.82663	0.744 15.959741
0.3725 -25.31359	0.745 10.929373	0.745 63.58861	0.745 20.267768
0.373 -22.70688	0.746 8.6316944	0.746 65.626717	0.746 24.784286
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0.3755 -6.958039	0.751 14.454915	0.751 72.847435	0.751 13.190905
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0.3835	-1.504193	0.767	-11.16321	0.767	75.525406	0.767	36.090206
0.384	1.044465	0.768	-10.36293	0.768	64.540318	0.768	36.988061
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0.3855	-4.452907	0.771	-0.420733	0.771	54.14214	0.771	36.794237
0.386	-8.783174	0.772	3.8888077	0.772	58.58399	0.772	34.307164
0.3865	-12.65936	0.773	7.9196028	0.773	64.236341	0.773	29.886444
0.387	-15.31656	0.774	11.399521	0.774	69.11982	0.774	24.027218
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0.388	-15.24982	0.776	16.549133	0.776	73.079295	0.776	12.671692
0.3885	-12.16487	0.777	18.483438	0.777	72.524315	0.777	9.1509855
0.389	-7.319099	0.778	20.244769	0.778	70.966705	0.778	7.2976523
0.3895	-1.530643	0.779	21.969164	0.779	68.593224	0.779	6.6041493
0.39	3.9700972	0.78	23.695915	0.78	65.313309	0.78	6.5955542
0.3905	8.0137921	0.781	25.366671	0.781	61.074886	0.781	7.2407613
0.391	10.061699	0.782	26.854649	0.782	56.175261	0.782	8.9595312
0.3915	10.507075	0.783	28.00766	0.783	51.282176	0.783	12.244893
0.392	10.439731	0.784	28.68862	0.784	47.19945	0.784	17.130232
0.3925	11.020985	0.785	28.803838	0.785	44.505885	0.785	22.892153
0.393	12.855897	0.786	28.317702	0.786	43.349464	0.786	28.12963
0.3935	15.71693	0.787	27.257457	0.787	43.434949	0.787	31.15278
0.394	18.716844	0.788	25.711314	0.788	44.219819	0.788	30.507221
0.3945	20.734044	0.789	23.819586	0.789	45.154013	0.789	25.432737
0.395	20.804125	0.79	21.756148	0.79	45.835616	0.79	16.137877
0.3955	18.370203	0.791	19.699711	0.791	46.10403	0.791	3.8207287
0.396	13.360546	0.792	17.800417	0.792	46.040012	0.792	-9.596024
0.3965	6.1520616	0.793	16.15281	0.793	45.964027	0.793	-21.95288
0.397	-2.549506	0.794	14.786597	0.794	46.328526	0.794	-31.41964
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0.398	-20.99309	0.796	12.789917	0.796	49.399309	0.796	-38.62267
0.3985	-29.11132	0.797	12.084659	0.797	51.602041	0.797	-37.3276
0.399	-35.53362	0.798	11.563066	0.798	53.381474	0.798	-34.68315
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0.4005	-38.57805	0.801	11.339376	0.801	53.283334	0.801	-33.35867
0.401	-33.27314	0.802	11.68065	0.802	52.33089	0.802	-36.67949
0.4015	-25.37285	0.803	12.081478	0.803	51.489846	0.803	-40.55822
0.402	-15.80292	0.804	12.379114	0.804	50.827496	0.804	-43.48649
0.4025	-5.645106	0.805	12.405163	0.805	50.334575	0.805	-44.16514
0.403	3.9985341	0.806	12.031322	0.806	50.090807	0.806	-41.93603
0.4035	12.096273	0.807	11.208615	0.807	50.28076	0.807	-36.93517
0.404	17.772486	0.808	9.986875	0.808	51.103204	0.808	-29.98657
0.4045	20.55281	0.809	8.5067501	0.809	52.667425	0.809	-22.30448
0.405	20.634391	0.81	6.9655578	0.81	54.918919	0.81	-15.14792
0.4055	18.962269	0.811	5.5685078	0.811	57.622659	0.811	-9.526316
0.406	16.900058	0.812	4.4836582	0.812	60.413107	0.812	-5.965045
0.4065	15.599444	0.813	3.8180764	0.813	62.89561	0.813	-4.419043
0.407	15.448316	0.814	3.6227438	0.814	64.800474	0.814	-4.348616

0.4075	15.994811	0.815	3.9187759	0.815	66.095788	0.815	-4.929265
0.408	16.368194	0.816	4.725498	0.816	66.936382	0.816	-5.354146
0.4085	15.895947	0.817	6.0692574	0.817	67.492932	0.817	-5.088333
0.409	14.444522	0.818	7.9626048	0.818	67.753192	0.818	-4.029354
0.4095	12.303196	0.819	10.361403	0.819	67.472765	0.819	-2.518934
0.41	9.8025528	0.82	13.12272	0.82	66.270037	0.82	-1.191214
0.4105	7.0415438	0.821	15.99034	0.821	63.814815	0.821	-0.69742
0.411	3.924872	0.822	18.624708	0.822	59.98239	0.822	-1.352085
0.4115	0.4388776	0.823	20.674906	0.823	54.932735	0.823	-2.972587
0.412	-3.125556	0.824	21.871094	0.824	49.073475	0.824	-4.985226
0.4125	-6.207088	0.825	22.105804	0.825	42.982793	0.825	-6.756864
0.413	-8.246246	0.826	21.475583	0.826	37.284882	0.826	-7.929506
0.4135	-9.003423	0.827	20.268674	0.827	32.543348	0.827	-8.460709
0.414	-8.747122	0.828	18.902824	0.828	29.191795	0.828	-8.357059
0.4145	-8.169947	0.829	17.831911	0.829	27.500192	0.829	-7.353487
0.415	-8.049687	0.83	17.44592	0.83	27.582966	0.83	-4.863418
0.4155	-8.81541	0.831	17.985937	0.831	29.32379	0.831	-0.356476
0.416	-10.27875	0.832	19.488247	0.832	32.289697	0.832	6.0394713
0.4165	-11.6914	0.833	21.764624	0.833	35.708768	0.833	13.16121
0.417	-12.17519	0.834	24.421764	0.834	38.618595	0.834	19.018614
0.4175	-11.22539	0.835	26.920255	0.835	40.153265	0.835	21.580172
0.418	-9.038268	0.836	28.668751	0.836	39.784364	0.836	19.738989
0.4185	-6.459021	0.837	29.140428	0.837	37.446581	0.837	13.89262
0.419	-4.605183	0.838	27.988571	0.838	33.517378	0.838	5.8639864
0.4195	-4.340135	0.839	25.132065	0.839	28.744959	0.839	-1.790684
0.42	-5.863904	0.84	20.785043	0.84	24.15483	0.84	-6.703681
0.4205	-8.594913	0.841	15.419	0.841	20.878018	0.841	-7.400159
0.421	-11.40637	0.842	9.6656612	0.842	19.90516	0.842	-3.588684
0.4215	-13.10449	0.843	4.1869389	0.843	21.800825	0.843	3.9648252
0.422	-12.91831	0.844	-0.452574	0.844	26.490049	0.844	13.785193
0.4225	-10.77714	0.845	-3.877931	0.845	33.236887	0.845	24.108082
0.423	-7.252254	0.846	-5.941132	0.846	40.818291	0.846	33.200458
0.4235	-3.227732	0.847	-6.701553	0.847	47.892567	0.847	39.614242
0.424	0.4933344	0.848	-6.364766	0.848	53.38174	0.848	42.346781
0.4245	3.463284	0.849	-5.206033	0.849	56.758312	0.849	41.008323
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0.519	-4.303814	1.038	-7.372751	1.038	56.506476	1.038	-13.89638
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0.52	-2.88944	1.04	-0.0116	1.04	51.18595	1.04	-5.764552
0.5205	-2.750381	1.041	3.2175297	1.041	47.868027	1.041	-0.818115
0.521	-1.997426	1.042	5.5084574	1.042	45.242594	1.042	3.7139673
0.5215	-0.26574	1.043	6.6434149	1.043	44.200612	1.043	7.4830119
0.522	2.187239	1.044	6.6445283	1.044	45.197059	1.044	10.365943
0.5225	4.6297297	1.045	5.7476315	1.045	47.999992	1.045	12.155864
0.523	6.1899542	1.046	4.3436451	1.046	51.737668	1.046	12.364518
0.5235	6.1430633	1.047	2.9017771	1.047	55.223752	1.047	10.353379
0.524	4.0777566	1.048	1.8870373	1.048	57.440511	1.048	5.7490855
0.5245	-0.047129	1.049	1.6817738	1.049	57.986463	1.049	-1.160125
0.525	-5.899223	1.05	2.5191648	1.05	57.272448	1.05	-9.362919
0.5255	-12.85673	1.051	4.4361385	1.051	56.351637	1.051	-17.4052
0.526	-20.18798	1.052	7.2531307	1.052	56.456915	1.052	-23.83783
0.5265	-27.2759	1.053	10.587077	1.053	58.417368	1.053	-27.59867
0.527	-33.81142	1.054	13.900999	1.054	62.299812	1.054	-28.19506
0.5275	-39.85885	1.055	16.587887	1.055	67.367179	1.055	-25.77963
0.528	-45.73738	1.056	18.078702	1.056	72.377939	1.056	-21.063
0.5285	-51.681	1.057	17.955979	1.057	75.97399	1.057	-15.1155
0.529	-57.44424	1.058	16.048774	1.058	77.109781	1.058	-9.03753
0.5295	-62.07067	1.059	12.484797	1.059	75.402185	1.059	-3.674449
0.53	-64.04848	1.06	7.682968	1.06	71.359734	1.06	0.5139519
0.5305	-61.9165	1.061	2.2831404	1.061	66.308251	1.061	3.36042
0.531	-55.02493	1.062	-2.974508	1.062	61.981538	1.062	4.8391387
0.5315	-44.01856	1.063	-7.394451	1.063	59.832921	1.063	4.9756932
0.532	-30.66313	1.064	-10.46184	1.064	60.428447	1.064	3.8898603
0.5325	-17.12671	1.065	-11.93725	1.065	63.241437	1.065	1.8926471
0.533	-5.149082	1.066	-11.88717	1.066	66.972467	1.066	-0.528362
0.5335	4.4335235	1.067	-10.6436	1.067	70.196686	1.067	-2.857882
0.534	11.629331	1.068	-8.704975	1.068	71.925929	1.068	-4.737562
0.5345	16.92453	1.069	-6.606751	1.069	71.778783	1.069	-6.090337

0.535 20.882529	1.07 -4.797494	1.07 69.786412	1.07 -7.068035
0.5355 23.861846	1.071 -3.552129	1.071 66.124493	1.071 -7.8834
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0.539 -1.691879	1.078 -1.226203	1.078 51.790823	1.078 0.4121932
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0.54 -18.10905	1.08 3.2137697	1.08 63.840237	1.08 6.2384178
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0.5435 8.369573	1.087 19.151448	1.087 57.357893	1.087 8.8573477
0.544 17.561866	1.088 18.276415	1.088 54.142961	1.088 5.3409419
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0.5475 20.951277	1.095 11.70953	1.095 73.493574	1.095 -11.11776
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0.552 -65.84319	1.104 30.647244	1.104 45.416158	1.104 -1.216727
0.5525 -56.96631	1.105 30.610496	1.105 39.483594	1.105 -7.800395
0.553 -44.71558	1.106 30.392711	1.106 35.252535	1.106 -13.106
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0.575 16.938681	1.15 37.543209	1.15 47.8398	1.15 -25.52742
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0.581 -18.05539	1.162 9.3333105	1.162 32.916552	1.162 8.22556
0.5815 -13.42852	1.163 9.7491254	1.163 33.807966	1.163 7.3933218
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0.5875	-9.322494	1.175	30.660384	1.175	16.139263	1.175	8.0082379
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0.5885	-6.041461	1.177	27.805146	1.177	14.041931	1.177	3.7040805
0.589	-5.283864	1.178	26.44192	1.178	14.806593	1.178	1.6120554
0.5895	-5.587557	1.179	25.483975	1.179	16.333006	1.179	-0.161717
0.59	-6.758708	1.18	25.060401	1.18	18.392431	1.18	-1.591566
0.5905	-8.111682	1.181	25.170013	1.181	20.923858	1.181	-2.724952
0.591	-8.609801	1.182	25.695885	1.182	23.95098	1.182	-3.528315
0.5915	-7.23028	1.183	26.435381	1.183	27.435953	1.183	-3.802363
0.592	-3.405364	1.184	27.138884	1.184	31.186304	1.184	-3.315131
0.5925	2.7123118	1.185	27.551998	1.185	34.87291	1.185	-2.041181
0.593	10.309281	1.186	27.456799	1.186	38.150668	1.186	-0.353267
0.5935	18.244363	1.187	26.707754	1.187	40.785618	1.187	0.9964064
0.594	25.437228	1.188	25.257823	1.188	42.728736	1.188	1.1227723
0.5945	31.127479	1.189	23.170565	1.189	44.056352	1.189	-0.681953
0.595	34.914006	1.19	20.615131	1.19	44.868305	1.19	-4.663546
0.5955	36.646955	1.191	17.84316	1.191	45.201285	1.191	-10.48921
0.596	36.284284	1.192	15.15002	1.192	45.020627	1.192	-17.25136
0.5965	33.861342	1.193	12.826948	1.193	44.284279	1.193	-23.65
0.597	29.617572	1.194	11.113896	1.194	42.980639	1.194	-28.27615
0.5975	24.164849	1.195	10.163322	1.195	41.139347	1.195	-29.96232
0.598	18.516391	1.196	10.022139	1.196	38.827554	1.196	-28.0758
0.5985	13.828245	1.197	10.633572	1.197	36.220155	1.197	-22.73182
0.599	10.911616	1.198	11.855558	1.198	33.741716	1.198	-14.77186
0.5995	9.745879	1.199	13.489584	1.199	32.148674	1.199	-5.582857
0.6	9.3326312	1.2	15.31387	1.2	32.403448	1.2	3.242365
0.6005	8.037201	1.201	17.115905	1.201	35.323724	1.201	10.290651
0.601	4.3369157	1.202	18.720065	1.202	41.194015	1.202	14.636935
0.6015	-2.381132	1.203	20.005967	1.203	49.562722	1.203	16.008217
0.602	-11.38209	1.204	20.913924	1.204	59.352123	1.204	14.761385
0.6025	-20.74486	1.205	21.436677	1.205	69.19282	1.205	11.656273
0.603	-28.07003	1.206	21.601426	1.206	77.828865	1.206	7.5359939
0.6035	-31.42873	1.207	21.450619	1.207	84.391009	1.207	3.1233538
0.604	-30.08837	1.208	21.031061	1.208	88.451598	1.208	-1.013685
0.6045	-24.73422	1.209	20.397007	1.209	89.907666	1.209	-4.274501
0.605	-17.13547	1.21	19.625414	1.21	88.823242	1.21	-5.92576
0.6055	-9.483334	1.211	18.834021	1.211	85.445837	1.211	-5.227411
0.606	-3.727244	1.212	18.189797	1.212	80.381512	1.212	-1.777144
0.6065	-1.165239	1.213	17.898343	1.213	74.762111	1.213	4.1089324
0.607	-2.289494	1.214	18.172985	1.214	70.141745	1.214	11.294875
0.6075	-6.780712	1.215	19.191105	1.215	67.983585	1.215	18.092705
0.608	-13.58819	1.216	21.050529	1.216	69.021096	1.216	22.863057
0.6085	-21.12728	1.217	23.738083	1.217	72.895608	1.217	24.577843
0.609	-27.63749	1.218	27.117191	1.218	78.30666	1.218	23.171139
0.6095	-31.67522	1.219	30.93521	1.219	83.598753	1.219	19.480375
0.61	-32.50133	1.22	34.847419	1.22	87.422944	1.22	14.928368
0.6105	-30.23695	1.221	38.453973	1.221	89.160041	1.221	11.055728
0.611	-25.70414	1.222	41.346834	1.222	89.00501	1.222	9.1131634

0.6115	-20.0947	1.223	43.163051	1.223	87.759001	1.223	9.7615016
0.612	-14.64839	1.224	43.637926	1.224	86.472075	1.224	12.984301
0.6125	-10.43055	1.225	42.648471	1.225	86.000795	1.225	18.185141
0.613	-8.166449	1.226	40.23724	1.226	86.664128	1.226	24.4433
0.6135	-8.090871	1.227	36.610884	1.227	88.047004	1.227	30.792511
0.614	-9.874996	1.228	32.11503	1.228	89.15419	1.228	36.348818
0.6145	-12.73691	1.229	27.193269	1.229	88.852588	1.229	40.352092
0.615	-15.7133	1.23	22.339589	1.23	86.403458	1.23	42.209365
0.6155	-18.01308	1.231	18.05002	1.231	81.767327	1.231	41.617359
0.616	-19.23471	1.232	14.773967	1.232	75.529174	1.232	38.696605
0.6165	-19.35898	1.233	12.863322	1.233	68.515098	1.233	34.012758
0.617	-18.52556	1.234	12.520377	1.234	61.408885	1.234	28.352594
0.6175	-16.80193	1.235	13.752334	1.235	54.624002	1.235	22.430822
0.618	-14.13698	1.236	16.345995	1.236	48.421148	1.236	16.691765
0.6185	-10.51217	1.237	19.876596	1.237	43.082746	1.237	11.300462
0.619	-6.174978	1.238	23.758076	1.238	38.888627	1.238	6.3149068
0.6195	-1.750663	1.239	27.330737	1.239	35.949097	1.239	1.8249733
0.62	1.8552075	1.24	29.970942	1.24	34.065389	1.24	-2.062266
0.6205	3.725045	1.241	31.200452	1.241	32.769734	1.241	-5.368771
0.621	3.2157895	1.242	30.7725	1.242	31.547568	1.242	-8.365133
0.6215	0.1178494	1.243	28.716883	1.243	30.061298	1.243	-11.4915
0.622	-5.335369	1.244	25.334947	1.244	28.230813	1.244	-15.03812
0.6225	-12.5972	1.245	21.144724	1.245	26.169829	1.245	-18.78599
0.623	-20.98013	1.246	16.785255	1.246	24.068062	1.246	-21.82277
0.6235	-29.79509	1.247	12.896833	1.247	22.124031	1.247	-22.79107
0.624	-38.3931	1.248	10.000121	1.248	20.544012	1.248	-20.51917
0.6245	-46.08588	1.249	8.4003065	1.249	19.591422	1.249	-14.71987
0.625	-52.05862	1.25	8.1401084	1.25	19.623046	1.25	-6.370321
0.6255	-55.39616	1.251	9.0155002	1.251	21.004683	1.251	2.5138398
0.626	-55.31854	1.252	10.65135	1.252	23.963869	1.252	9.6303118
0.6265	-51.49661	1.253	12.615544	1.253	28.362204	1.253	13.333576
0.627	-44.27158	1.254	14.536973	1.254	33.587024	1.254	13.237039
0.6275	-34.61185	1.255	16.191472	1.255	38.676119	1.255	10.226887
0.628	-23.77721	1.256	17.532169	1.256	42.643289	1.256	5.9775889
0.6285	-12.908	1.257	18.66206	1.257	44.90089	1.257	2.2773267
0.629	-2.756212	1.258	19.767482	1.258	45.569255	1.258	0.504005
0.6295	6.2625748	1.259	21.042218	1.259	45.4921	1.259	1.3272004
0.63	13.800014	1.26	22.628661	1.26	45.930342	1.26	4.6030016
0.6305	19.311344	1.261	24.588293	1.261	48.036713	1.261	9.4483354
0.631	22.116152	1.262	26.897601	1.262	52.355443	1.262	14.558037
0.6315	21.799664	1.263	29.456717	1.263	58.634933	1.263	18.740519
0.632	18.712338	1.264	32.100294	1.264	66.01358	1.264	21.42044
0.6325	14.189529	1.265	34.609404	1.265	73.428228	1.265	22.762604
0.633	10.202159	1.266	36.731341	1.266	79.978616	1.266	23.300109
0.6335	8.565368	1.267	38.214481	1.267	85.062502	1.267	23.337362
0.634	10.120233	1.268	38.857328	1.268	88.34908	1.268	22.616097
0.6345	14.343686	1.269	38.560286	1.269	89.762373	1.269	20.55328
0.635	19.620773	1.27	37.362779	1.27	89.515523	1.27	16.892259
0.6355	24.05691	1.271	35.450964	1.271	88.125202	1.271	12.208998
0.636	26.393149	1.272	33.130796	1.272	86.244862	1.272	7.8464937
0.6365	26.5412	1.273	30.772266	1.273	84.328108	1.273	5.2403405

0.637 25.461119	1.274 28.738138	1.274 82.31799	1.274 5.0908995
0.6375 24.452015	1.275 27.31255	1.275 79.638141	1.275 6.9560207
0.638 24.305177	1.276 26.642813	1.276 75.627638	1.276 9.5123235
0.6385 24.839057	1.277 26.70448	1.277 70.186869	1.277 11.278302
0.639 25.089918	1.278 27.296957	1.278 64.234201	1.278 11.291686
0.6395 24.003408	1.279 28.07407	1.279 59.623648	1.279 9.3953436
0.64 21.140005	1.28 28.609174	1.28 58.46122	1.28 6.0479547
0.6405 16.976572	1.281 28.486382	1.281 62.179196	1.281 1.9123748
0.641 12.665481	1.282 27.399722	1.282 70.832004	1.282 -2.43534
0.6415 9.460151	1.283 25.234761	1.283 82.977517	1.283 -6.569542
0.642 8.1357205	1.284 22.107409	1.284 96.186299	1.284 -10.10246
0.6425 8.6437129	1.285 18.344755	1.285 107.88814	1.285 -12.61813
0.643 10.128583	1.286 14.41071	1.286 116.18543	1.286 -13.74953
0.6435 11.210773	1.287 10.798238	1.287 120.29928	1.287 -13.35744
0.644 10.474094	1.288 7.9218185	1.288 120.51609	1.288 -11.69432
0.6445 6.9589478	1.289 6.0431275	1.289 117.79319	1.289 -9.37643
0.645 0.4701162	1.29 5.2495023	1.29 113.25674	1.29 -7.197816
0.6455 -8.398504	1.291 5.4844349	1.291 107.84464	1.291 -5.876199
0.646 -18.51325	1.292 6.6105276	1.292 102.1861	1.292 -5.830309
0.6465 -28.49419	1.293 8.475732	1.293 96.627862	1.293 -7.0715
0.647 -36.89753	1.294 10.956515	1.294 91.310538	1.294 -9.218933
0.6475 -42.3268	1.295 13.964712	1.295 86.247483	1.295 -11.643
0.648 -43.6469	1.296 17.421935	1.296 81.411281	1.296 -13.69242
0.6485 -40.40966	1.297 21.21904	1.297 76.831284	1.297 -14.92858
0.649 -33.2393	1.298 25.183024	1.298 72.699135	1.298 -15.21096
0.6495 -23.88422	1.299 29.0688	1.299 69.371933	1.299 -14.58045
0.65 -14.68222	1.3 32.581748	1.3 67.292861	1.3 -13.03682
0.6505 -7.686735	1.301 35.424405	1.301 66.810779	1.301 -10.40778
0.651 -3.921129	1.302 37.352066	1.302 68.051933	1.302 -6.477302
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0.652 -4.466299	1.304 38.008722	1.304 74.625787	1.304 4.7953377
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0.653 -9.344383	1.306 34.861253	1.306 81.709935	1.306 16.533615
0.6535 -12.55868	1.307 32.381291	1.307 82.881284	1.307 21.234134
0.654 -16.87705	1.308 29.649347	1.308 81.398588	1.308 25.08788
0.6545 -22.64738	1.309 26.909282	1.309 77.183155	1.309 28.16326
0.655 -29.58971	1.31 24.362287	1.31 70.887963	1.31 30.261371
0.6555 -36.7493	1.311 22.159974	1.311 63.636596	1.311 30.91014
0.656 -42.81367	1.312 20.402252	1.312 56.570865	1.312 29.639893
0.6565 -46.57859	1.313 19.131767	1.313 50.432026	1.313 26.302608
0.657 -47.25914	1.314 18.322201	1.314 45.372061	1.314 21.1746
0.6575 -44.49949	1.315 17.865949	1.315 41.096157	1.315 14.834009
0.658 -38.22563	1.316 17.572638	1.316 37.191649	1.316 7.9737921
0.6585 -28.54808	1.317 17.189485	1.317 33.488912	1.317 1.2916155
0.659 -15.84645	1.318 16.447209	1.318 30.219446	1.318 -4.509105
0.6595 -0.973123	1.319 15.124398	1.319 27.917389	1.319 -8.744909
0.66 14.643462	1.32 13.114074	1.32 27.113836	1.32 -10.9045
0.6605 29.146523	1.321 10.472637	1.321 28.01743	1.321 -10.85447
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0.6625 46.442908	1.325 0.1228049	1.325 40.263625	1.325 1.1866089
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0.6635 28.449056	1.327 0.774924	1.327 43.868773	1.327 5.3576348
0.664 16.257587	1.328 3.2126146	1.328 43.906945	1.328 5.6735042
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0.665 -5.808581	1.33 10.980427	1.33 40.325256	1.33 2.826243
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0.666 -12.74915	1.332 19.285721	1.332 33.496696	1.332 -1.691375
0.6665 -8.498115	1.333 22.389847	1.333 29.917927	1.333 -3.078472
0.667 -0.550275	1.334 24.329008	1.334 26.89866	1.334 -3.580319
0.6675 8.6341213	1.335 24.955873	1.335 24.943547	1.335 -3.501131
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0.673 -1.281209	1.346 8.0851732	1.346 41.158213	1.346 19.539472
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0.674 -11.50435	1.348 7.6105866	1.348 42.277887	1.348 12.259648
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0.6805 -27.38797	1.361 -15.6886	1.361 95.22023	1.361 22.739998
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0.6815 -25.61123	1.363 -7.892321	1.363 85.106938	1.363 19.163432
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0.6825 -15.71267	1.365 2.6459872	1.365 76.162834	1.365 16.520813
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0.6955 20.955327	1.391 14.26486	1.391 72.515156	1.391 8.0439709
0.696 18.451295	1.392 18.261373	1.392 65.42275	1.392 6.0701646
0.6965 17.427615	1.393 21.584019	1.393 59.183587	1.393 6.1094208
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0.698 22.688564	1.396 26.901759	1.396 48.269204	1.396 13.315831
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0.7 30.173651	1.4 21.953463	1.4 59.391365	1.4 0.4399446
0.7005 33.376967	1.401 18.854495	1.401 68.298831	1.401 -4.689457
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0.712 -11.62491	1.424 19.381447	1.424 69.697937	1.424 20.425674
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0.713 -4.321461	1.426 26.027901	1.426 59.33374	1.426 24.689237

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0.7225	5.4795145	1.445	11.709171	1.445	52.144315	1.445	13.685994
0.723	6.1924694	1.446	11.137112	1.446	46.947005	1.446	8.8212858
0.7235	7.5536843	1.447	10.786429	1.447	45.278853	1.447	2.9872779
0.724	9.3907344	1.448	10.763769	1.448	46.194637	1.448	-3.200922
0.7245	11.477	1.449	11.206856	1.449	48.603894	1.449	-8.777591
0.725	13.628049	1.45	12.229516	1.45	51.756483	1.45	-12.7012
0.7255	15.716767	1.451	13.872909	1.451	55.374826	1.451	-14.18011
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0.7265	19.343833	1.453	18.650511	1.453	64.643831	1.453	-9.477447
0.727	20.836903	1.454	21.327932	1.454	71.002522	1.454	-4.659568
0.7275	22.268374	1.455	23.770193	1.455	78.791558	1.455	0.3891286
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0.7285	25.777444	1.457	26.690736	1.457	96.199368	1.457	8.5258484
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0.7305	33.193325	1.461	22.406106	1.461	100.48088	1.461	18.698687
0.731	32.694987	1.462	20.476301	1.462	93.006962	1.462	19.312239
0.7315	30.466661	1.463	18.982872	1.463	84.49951	1.463	18.375304
0.732	26.538736	1.464	18.260155	1.464	76.346707	1.464	15.987489
0.7325	21.272801	1.465	18.509529	1.465	69.440144	1.465	12.631986
0.733	15.324397	1.466	19.768858	1.466	64.217189	1.466	8.9511172
0.7335	9.5777512	1.467	21.910787	1.467	60.850353	1.467	5.521627
0.734	5.0310181	1.468	24.666864	1.468	59.393537	1.468	2.7635451
0.7345	2.5933823	1.469	27.67123	1.469	59.800453	1.469	0.9532558
0.735	2.8011201	1.47	30.516663	1.47	61.859319	1.47	0.216311
0.7355	5.4898482	1.471	32.816152	1.471	65.155648	1.471	0.479995
0.736	9.6664077	1.472	34.263294	1.472	69.115747	1.472	1.4637995
0.7365	13.699124	1.473	34.683916	1.473	73.150908	1.473	2.7913011
0.737	15.848355	1.474	34.069844	1.474	76.798397	1.474	4.2354529
0.7375	14.940396	1.475	32.585825	1.475	79.808402	1.475	5.9272798
0.738	10.868564	1.476	30.543907	1.476	82.105958	1.476	8.3308217
0.7385	4.6756972	1.477	28.346742	1.477	83.632057	1.477	12.010339

0.739 -1.845336	1.478 26.410152	1.478 84.215045	1.478 17.248972
0.7395 -6.823543	1.479 25.082262	1.479 83.559486	1.479 23.739926
0.74 -8.943842	1.48 24.578522	1.48 81.421767	1.48 30.512487
0.7405 -7.803225	1.481 24.947719	1.481 77.840355	1.481 36.11538
0.741 -3.890563	1.482 26.075474	1.482 73.30276	1.482 39.039948
0.7415 1.7308748	1.483 27.721715	1.483 68.733086	1.483 38.217029
0.742 7.8614764	1.484 29.580632	1.484 65.331586	1.484 33.410691
0.7425 13.540652	1.485 31.347363	1.485 64.259941	1.485 25.330389
0.743 18.215884	1.486 32.775819	1.486 66.261602	1.486 15.420723
0.7435 21.706102	1.487 33.715872	1.487 71.324777	1.487 5.3898131
0.744 23.995699	1.488 34.124396	1.488 78.521509	1.488 -3.303262
0.7445 25.034566	1.489 34.051649	1.489 86.1862	1.489 -9.80676
0.745 24.655673	1.49 33.610367	1.49 92.403034	1.49 -13.98587
0.7455 22.642807	1.491 32.938089	1.491 95.659345	1.491 -16.30164
0.746 18.894377	1.492 32.162952	1.492 95.343016	1.492 -17.52409
0.7465 13.542242	1.493 31.380075	1.493 91.914096	1.493 -18.41623
0.747 6.940386	1.494 30.641241	1.494 86.637879	1.494 -19.50054
0.7475 -0.443122	1.495 29.95662	1.495 81.010122	1.495 -20.95002
0.748 -8.086495	1.496 29.304911	1.496 76.192996	1.496 -22.66959
0.7485 -15.41999	1.497 28.647913	1.497 72.692336	1.497 -24.42831
0.749 -21.74867	1.498 27.946457	1.498 70.443941	1.498 -25.91654
0.7495 -26.23465	1.499 27.1761	1.499 69.173017	1.499 -26.75517
0.75 -28.03131	1.5 26.341663	1.5 68.750989	1.5 -26.4983
0.7505 -26.5251	1.501 25.489137	1.501 69.33817	1.501 -24.77995
0.751 -21.58429	1.502 24.711564	1.502 71.246866	1.502 -21.54739
0.7515 -13.65455	1.503 24.14373	1.503 74.562254	1.503 -17.18479
0.752 -3.7011	1.504 23.940938	1.504 78.768634	1.504 -12.37491
0.7525 7.032999	1.505 24.241368	1.505 82.619979	1.505 -7.775697
0.753 17.289922	1.506 25.119128	1.506 84.384068	1.506 -3.784919
0.7535 26.008278	1.507 26.542761	1.507 82.405771	1.507 -0.575288
0.754 32.393358	1.508 28.357009	1.508 75.767503	1.508 1.7327637
0.7545 35.892055	1.509 30.30082	1.509 64.734573	1.509 2.9475575
0.755 36.155474	1.51 32.062265	1.51 50.789634	1.51 2.9065121
0.7555 33.075875	1.511 33.356322	1.511 36.215646	1.511 1.6653792
0.756 26.852398	1.512 34.001066	1.512 23.439763	1.512 -0.420927
0.7565 18.066214	1.513 33.967065	1.513 14.381896	1.513 -2.84986
0.757 7.6738503	1.514 33.384372	1.514 10.028489	1.514 -5.252528
0.7575 -3.112359	1.515 32.507057	1.515 10.364212	1.515 -7.553775
0.758 -13.00254	1.516 31.649634	1.516 14.545415	1.516 -9.904871
0.7585 -20.85787	1.517 31.11679	1.517 21.228406	1.517 -12.39956
0.759 -25.9084	1.518 31.145378	1.518 28.841531	1.518 -14.81009
0.7595 -27.85714	1.519 31.868523	1.519 35.833931	1.519 -16.52779
0.76 -26.8733	1.52 33.301798	1.52 40.866637	1.52 -16.82457
0.7605 -23.50994	1.521 35.34592	1.521 42.934346	1.521 -15.27069
0.761 -18.5817	1.522 37.80073	1.522 41.471519	1.522 -12.06532
0.7615 -13.14947	1.523 40.388621	1.523 36.408177	1.523 -8.035771
0.762 -8.452734	1.524 42.78764	1.524 28.281975	1.524 -4.285605
0.7625 -5.720642	1.525 44.672672	1.525 18.301083	1.525 -1.746736
0.763 -5.81522	1.526 45.758754	1.526 8.2639705	1.526 -0.878692
0.7635 -8.845463	1.527 45.837501	1.527 0.196175	1.527 -1.628479
0.764 -14.00168	1.528 44.799099	1.528 -4.261622	1.528 -3.522528

0.7645	-19.74696	1.529	42.638127	1.529	-4.42137	1.529	-5.789607
0.765	-24.35268	1.53	39.447993	1.53	-0.77369	1.53	-7.526059
0.7655	-26.50343	1.531	35.411627	1.531	5.2599134	1.531	-7.936991
0.766	-25.76387	1.532	30.793257	1.532	11.875013	1.532	-6.66409
0.7665	-22.63606	1.533	25.929566	1.533	17.44765	1.533	-4.025228
0.767	-18.24144	1.534	21.212583	1.534	20.895375	1.534	-0.945108
0.7675	-13.79765	1.535	17.055428	1.535	21.812978	1.535	1.4203103
0.768	-10.18169	1.536	13.836894	1.536	20.436092	1.536	2.2320417
0.7685	-7.775363	1.537	11.830132	1.537	17.517677	1.537	1.3826521
0.769	-6.621982	1.538	11.130796	1.538	14.15984	1.538	-0.408993
0.7695	-6.645455	1.539	11.606879	1.539	11.581577	1.539	-1.870999
0.77	-7.735264	1.54	12.892639	1.54	10.796231	1.54	-1.688071
0.7705	-9.67754	1.541	14.440554	1.541	12.301146	1.541	0.972036
0.771	-12.04012	1.542	15.628776	1.542	15.866434	1.542	6.1093166
0.7715	-14.15207	1.543	15.901503	1.543	20.610786	1.543	12.869522
0.772	-15.22513	1.544	14.903821	1.544	25.333149	1.544	19.848315
0.7725	-14.51169	1.545	12.568903	1.545	28.99322	1.545	25.618489
0.773	-11.51842	1.546	9.1281266	1.546	31.127506	1.546	29.284619
0.7735	-6.259899	1.547	5.040182	1.547	32.007918	1.547	30.802098
0.774	0.5823714	1.548	0.8633999	1.548	32.497807	1.548	30.918189
0.7745	7.6648204	1.549	-2.886006	1.549	33.660869	1.549	30.747524
0.775	13.31117	1.55	-5.846008	1.55	36.273318	1.55	31.242233
0.7755	16.062893	1.551	-7.862951	1.551	40.437159	1.551	32.841969
0.776	15.233725	1.552	-8.983288	1.552	45.504052	1.552	35.44896
0.7765	11.241201	1.553	-9.398762	1.553	50.390541	1.553	38.586386
0.777	5.5304751	1.554	-9.370601	1.554	54.032221	1.554	41.567493
0.7775	0.1104741	1.555	-9.156119	1.555	55.727449	1.555	43.577073
0.778	-3.134427	1.556	-8.952327	1.556	55.21924	1.556	43.791314
0.7785	-3.10518	1.557	-8.862075	1.557	52.621929	1.557	41.639835
0.779	0.0923879	1.558	-8.883073	1.558	48.391542	1.558	37.161453
0.7795	5.1652427	1.559	-8.918528	1.559	43.378022	1.559	31.222584
0.78	10.082836	1.56	-8.807385	1.56	38.779867	1.56	25.358151
0.7805	12.858221	1.561	-8.369763	1.561	35.834974	1.561	21.229168
0.781	12.373786	1.562	-7.459108	1.562	35.275318	1.562	19.940741
0.7815	8.9049606	1.563	-6.009008	1.563	36.908891	1.563	21.561043
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0.7825	-0.167206	1.565	-1.771253	1.565	42.204903	1.565	28.769645
0.783	-1.992221	1.566	0.6273791	1.566	43.614418	1.566	30.966406
0.7835	-0.989644	1.567	2.8670177	1.567	43.861561	1.567	30.627948
0.784	2.1153167	1.568	4.7126553	1.568	43.55571	1.568	27.69273
0.7845	6.0460804	1.569	6.0185067	1.569	43.359492	1.569	22.984751
0.785	9.7400089	1.57	6.7639187	1.57	43.469919	1.57	17.82353
0.7855	12.721039	1.571	7.0576989	1.571	43.543409	1.571	13.586666
0.786	14.93308	1.572	7.1104073	1.572	43.025703	1.572	11.394636
0.7865	16.299683	1.573	7.1843682	1.573	41.595871	1.573	11.922162
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0.7875	14.96166	1.575	8.3776233	1.575	36.928499	1.575	21.019715
0.788	11.615877	1.576	9.8340709	1.576	34.861267	1.576	28.111681
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0.79 -2.215867	1.58 21.508616	1.58 34.376692	1.58 44.544096
0.7905 -0.829742	1.581 25.192258	1.581 34.395643	1.581 42.392269
0.791 2.1297895	1.582 28.737044	1.582 33.837286	1.582 38.759524
0.7915 5.3269381	1.583 31.9123	1.583 33.196623	1.583 34.844465
0.792 7.5570775	1.584 34.54696	1.584 33.37577	1.584 31.438998
0.7925 8.205626	1.585 36.567592	1.585 35.165607	1.585 28.654774
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0.7935 5.2956127	1.587 39.030736	1.587 43.104905	1.587 23.457198
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0.7945 -0.343853	1.589 40.51319	1.589 48.799665	1.589 18.649578
0.795 -3.570877	1.59 41.234627	1.59 47.836872	1.59 17.751002
0.7955 -6.987741	1.591 41.912414	1.591 44.486206	1.591 18.454074
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0.7965 -13.56909	1.593 42.24263	1.593 36.670404	1.593 23.197139
0.797 -15.89739	1.594 41.31055	1.594 35.396429	1.594 25.336528
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0.798 -16.2495	1.596 36.44476	1.596 39.953736	1.596 24.303068
0.7985 -13.93408	1.597 32.787737	1.597 43.519003	1.597 20.630114
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0.8005 0.6453312	1.601 20.296811	1.601 36.638045	1.601 5.7849974
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0.8015 4.7924358	1.603 19.694419	1.603 26.3423	1.603 10.392589
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0.804 4.8098944	1.608 19.331455	1.608 48.026446	1.608 23.142758
0.8045 1.0863801	1.609 16.490153	1.609 54.648878	1.609 18.125636
0.805 -3.54226	1.61 12.747074	1.61 58.943517	1.61 11.813654
0.8055 -8.030494	1.611 8.5882793	1.611 60.701364	1.611 6.0262717
0.806 -11.36755	1.612 4.6498485	1.612 60.452143	1.612 2.1193615
0.8065 -13.03525	1.613 1.5898706	1.613 59.115912	1.613 0.4632681
0.807 -13.14513	1.614 -0.053694	1.614 57.616336	1.614 0.4679274
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0.8095 -2.846883	1.619 13.650143	1.619 54.658678	1.619 -2.300022
0.81 -0.251684	1.62 17.872858	1.62 52.85352	1.62 -3.4268
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0.815 -36.59145	1.63 0.5952207	1.63 35.084949	1.63 -9.707662

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0.819	-14.12537	1.638	-25.0063	1.638	32.738689	1.638	11.387972
0.8195	-15.73847	1.639	-25.69642	1.639	33.84101	1.639	20.112943
0.82	-17.54323	1.64	-25.83196	1.64	36.48444	1.64	27.852138
0.8205	-18.8965	1.641	-25.31517	1.641	40.393298	1.641	33.834886
0.821	-19.49207	1.642	-24.01691	1.642	44.854341	1.642	37.665646
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0.8255	-3.217939	1.651	6.3075768	1.651	34.779261	1.651	2.1531712
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0.829	9.5371211	1.658	4.8753263	1.658	-36.79776	1.658	-7.53909
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0.832	-20.0611	1.664	-5.15457	1.664	-13.17144	1.664	-0.197494
0.8325	-24.765	1.665	-4.360263	1.665	-4.699608	1.665	1.0875759
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0.8335	-37.24344	1.667	1.6098992	1.667	8.2076403	1.667	1.5817954
0.834	-43.47084	1.668	6.4226982	1.668	11.8458	1.668	1.8510408
0.8345	-48.07211	1.669	11.815104	1.669	13.751125	1.669	2.2615234
0.835	-50.09752	1.67	17.134474	1.67	14.504172	1.67	2.2805746
0.8355	-49.27263	1.671	21.757804	1.671	14.894373	1.671	1.2137183
0.836	-46.05929	1.672	25.23751	1.672	15.585734	1.672	-1.330914
0.8365	-41.43594	1.673	27.399015	1.673	16.766946	1.673	-5.130141
0.837	-36.45672	1.674	28.358651	1.674	18.005575	1.674	-9.391094
0.8375	-31.82375	1.675	28.457814	1.675	18.4628	1.675	-13.08306
0.838	-27.65088	1.676	28.137927	1.676	17.416403	1.676	-15.38008
0.8385	-23.5364	1.677	27.799855	1.677	14.797997	1.677	-15.92312
0.839	-18.8399	1.678	27.694223	1.678	11.409773	1.678	-14.78952
0.8395	-13.06369	1.679	27.875709	1.679	8.6290233	1.679	-12.2395
0.84	-6.133053	1.68	28.230489	1.68	7.7469576	1.68	-8.510688
0.8405	1.45757	1.681	28.560453	1.681	9.2323746	1.681	-3.774724

0.841 8.6831247	1.682 28.689296	1.682 12.348322	1.682 1.7189231
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0.843 12.169615	1.686 27.91144	1.686 8.6974105	1.686 20.386703
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0.844 -1.91708	1.688 29.630529	1.688 -3.045899	1.688 21.958592
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0.8455 -21.64796	1.691 36.824024	1.691 7.472559	1.691 21.715298
0.846 -24.32906	1.692 39.811526	1.692 18.840223	1.692 23.400214
0.8465 -24.20392	1.693 42.710458	1.693 30.9136	1.693 25.935648
0.847 -21.41432	1.694 45.318332	1.694 41.562	1.694 28.542285
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0.85 4.8697671	1.7 50.095625	1.7 56.928869	1.7 22.588111
0.8505 9.1453352	1.701 49.2692	1.701 53.354289	1.701 18.152927
0.851 14.78157	1.702 48.051801	1.702 47.945733	1.702 12.548093
0.8515 21.649251	1.703 46.35559	1.703 41.524742	1.703 6.4864893
0.852 29.143262	1.704 44.051809	1.704 35.404951	1.704 1.2583925
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0.8535 47.551551	1.707 32.853618	1.707 27.714664	1.707 -2.30017
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0.8605 23.407139	1.721 9.4069818	1.721 44.965335	1.721 19.263078
0.861 22.00056	1.722 6.9629205	1.722 43.898113	1.722 22.285009
0.8615 19.287143	1.723 4.9992032	1.723 43.291653	1.723 23.337108
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0.865 -6.749895	1.73 16.300711	1.73 55.377826	1.73 1.5671346
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0.867 -14.36208	1.734 24.125683	1.734 40.848822	1.734 -19.90577
0.8675 -9.291899	1.735 25.509638	1.735 33.755328	1.735 -21.88884
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0.871 28.491964	1.742 26.375678	1.742 9.8726927	1.742 22.122126
0.8715 27.958592	1.743 24.466842	1.743 9.5607231	1.743 27.224385
0.872 25.948077	1.744 22.310817	1.744 8.6475039	1.744 30.359325
0.8725 23.082768	1.745 20.17848	1.745 7.5996912	1.745 31.702542
0.873 20.307264	1.746 18.349532	1.746 7.4131863	1.746 31.444092
0.8735 18.615915	1.747 17.060046	1.747 9.0378998	1.747 29.606401
0.874 18.688519	1.748 16.454963	1.748 12.798694	1.748 26.033624
0.8745 20.706606	1.749 16.556828	1.749 18.118274	1.749 20.616644
0.875 24.411378	1.75 17.260137	1.75 23.736726	1.75 13.557437
0.8755 29.269387	1.751 18.355702	1.751 28.264845	1.751 5.5409973
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0.9115 -16.73901	1.823 36.550151	1.823 36.911067	1.823 3.430143
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1.159	9.4508641	2.318	7.4451236	2.318	31.709711	2.318	-22.45924
1.1595	16.107944	2.319	8.4248743	2.319	26.821377	2.319	-26.98379
1.16	20.269352	2.32	10.156061	2.32	20.886697	2.32	-29.8864
1.1605	21.375816	2.321	12.312516	2.321	14.874396	2.321	-30.98457
1.161	19.253882	2.322	14.620758	2.322	9.7986118	2.322	-30.0924
1.1615	14.2793	2.323	16.884568	2.323	6.4842902	2.323	-27.23033
1.162	7.3612122	2.324	18.987091	2.324	5.4930022	2.324	-22.71699
1.1625	-0.271351	2.325	20.884724	2.325	7.1536948	2.325	-17.08895
1.163	-7.376985	2.326	22.602719	2.326	11.493761	2.326	-10.92113
1.1635	-13.00719	2.327	24.232289	2.327	18.087126	2.327	-4.757063
1.164	-16.6658	2.328	25.920922	2.328	25.982058	2.328	0.838325
1.1645	-18.34083	2.329	27.847385	2.329	33.886816	2.329	5.2361236
1.165	-18.37948	2.33	30.180394	2.33	40.588334	2.33	7.8456965
1.1655	-17.28196	2.331	33.030048	2.331	45.390185	2.331	8.3720452
1.166	-15.5143	2.332	36.407171	2.332	48.265359	2.332	7.0121879
1.1665	-13.40108	2.333	40.204185	2.333	49.664337	2.333	4.440262
1.167	-11.1485	2.334	44.203043	2.334	50.101315	2.334	1.5191245
1.1675	-8.904845	2.335	48.1061	2.335	49.823686	2.335	-1.059328
1.168	-6.810628	2.336	51.579623	2.336	48.722822	2.336	-2.997813
1.1685	-5.059635	2.337	54.29917	2.337	46.522618	2.337	-4.340115
1.169	-3.903311	2.338	55.989904	2.338	43.047468	2.338	-5.213634
1.1695	-3.574395	2.339	56.459331	2.339	38.421744	2.339	-5.564547
1.17	-4.072902	2.34	55.621795	2.34	33.075643	2.34	-5.089083
1.1705	-4.932047	2.341	53.512665	2.341	27.6192	2.341	-3.416692
1.171	-5.236607	2.342	50.287589	2.342	22.755214	2.342	-0.406348
1.1715	-4.005942	2.343	46.20188	2.343	19.184167	2.343	3.5856971
1.172	-0.793939	2.344	41.569083	2.344	17.490877	2.344	7.6906669

1.1725 3.9684112	2.345 36.705557	2.345 17.877511	2.345 10.793928
1.173 9.135519	2.346 31.8759	2.346 19.888278	2.346 11.982088
1.1735 13.452581	2.347 27.257438	2.347 22.369786	2.347 10.967758
1.174 16.176723	2.348 22.937631	2.348 23.844591	2.348 8.2483593
1.1745 17.344625	2.349 18.946249	2.349 23.163143	2.349 4.8924252
1.175 17.615467	2.35 15.309163	2.35 20.089437	2.35 2.1045709
1.1755 17.850809	2.351 12.099268	2.351 15.472763	2.351 0.7522628
1.176 18.695657	2.352 9.4585868	2.352 10.916379	2.352 1.1294614
1.1765 20.276001	2.353 7.5761178	2.353 8.145006	2.353 2.9900747
1.177 22.170757	2.354 6.6251206	2.354 8.3617546	2.354 5.7650078
1.1775 23.596857	2.355 6.6833928	2.355 11.870201	2.355 8.8014135
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1.1785 22.468945	2.357 9.3409401	2.357 25.526048	2.357 13.456694
1.179 19.877091	2.358 11.325345	2.358 32.946727	2.358 14.439532
1.1795 16.768783	2.359 13.243599	2.359 39.150135	2.359 14.592442
1.18 13.905503	2.36 14.818629	2.36 43.532474	2.36 14.365072
1.1805 11.644895	2.361 15.968004	2.361 45.975603	2.361 14.346491
1.181 9.7785418	2.362 16.830628	2.362 46.604841	2.362 14.939061
1.1815 7.7104883	2.363 17.718091	2.363 45.604381	2.363 16.091492
1.182 4.8602514	2.364 19.008004	2.364 43.175422	2.364 17.287655
1.1825 0.991219	2.365 21.017864	2.365 39.686744	2.365 17.838154
1.183 -3.701956	2.366 23.903237	2.366 35.805946	2.366 17.283808
1.1835 -8.765278	2.367 27.612155	2.367 32.423079	2.367 15.625822
1.184 -13.70198	2.368 31.905027	2.368 30.408397	2.368 13.263744
1.1845 -18.09316	2.369 36.425916	2.369 30.338461	2.369 10.706172
1.185 -21.58313	2.37 40.795696	2.37 32.388263	2.37 8.2951166
1.1855 -23.79929	2.371 44.694704	2.371 36.372984	2.371 6.1092257
1.186 -24.36742	2.372 47.911074	2.372 41.821958	2.372 4.0281189
1.1865 -22.98954	2.373 50.346276	2.373 47.956896	2.373 1.9076514
1.187 -19.56271	2.374 51.985261	2.374 53.696327	2.374 -0.235669
1.1875 -14.24322	2.375 52.849821	2.375 57.769	2.375 -2.142176
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1.1895 15.857832	2.379 48.610912	2.379 42.985436	2.379 0.5720759
1.19 22.294227	2.38 45.617612	2.38 33.547687	2.38 3.7735652
1.1905 27.298472	2.381 42.005681	2.381 24.466891	2.381 6.8810708
1.191 30.920233	2.382 38.005356	2.382 17.198211	2.382 9.2392925
1.1915 33.593646	2.383 33.932077	2.383 12.722161	2.383 10.39243
1.192 35.952542	2.384 30.150773	2.384 11.313244	2.384 10.083075
1.1925 38.481703	2.385 27.024451	2.385 12.543945	2.385 8.2472979
1.193 41.204299	2.386 24.856973	2.386 15.580598	2.386 5.0501806
1.1935 43.575051	2.387 23.841352	2.387 19.618471	2.387 0.9916803
1.194 44.680961	2.388 24.025063	2.388 24.194694	2.388 -3.05231
1.1945 43.670715	2.389 25.301696	2.389 29.185732	2.389 -5.947615
1.195 40.170482	2.39 27.43282	2.39 34.504647	2.39 -6.638655
1.1955 34.447497	2.391 30.095814	2.391 39.749559	2.391 -4.571822
1.196 27.239245	2.392 32.945466	2.392 44.133298	2.392 0.0313217
1.1965 19.383802	2.393 35.673012	2.393 46.781683	2.393 6.2476787
1.197 11.544167	2.394 38.0481	2.394 47.253173	2.394 12.838328
1.1975 4.1950706	2.395 39.93592	2.395 45.89187	2.395 18.766809

1.198	-2.197011	2.396	41.290234	2.396	43.735811	2.396	23.540674
1.1985	-7.02866	2.397	42.129585	2.397	42.022961	2.397	27.239658
1.199	-9.648661	2.398	42.506684	2.398	41.581771	2.398	30.232165
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1.2	-7.282038	2.4	42.095587	2.4	43.973383	2.4	35.092004
1.2005	-3.32323	2.401	41.377471	2.401	45.177157	2.401	36.787901
1.201	1.0051007	2.402	40.333922	2.402	45.295117	2.402	37.556914
1.2015	4.5400416	2.403	38.967831	2.403	44.062738	2.403	37.03467
1.202	6.4598784	2.404	37.289288	2.404	41.750015	2.404	34.998792
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1.203	4.1115027	2.406	33.09732	2.406	36.347773	2.406	26.765696
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1.204	-5.731733	2.408	27.9708	2.408	33.297051	2.408	16.249412
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1.205	-17.57737	2.41	21.914441	2.41	34.087972	2.41	8.1870031
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1.206	-21.4343	2.412	15.046563	2.412	39.984316	2.412	4.6053077
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1.207	-10.92516	2.414	8.7673812	2.414	51.853007	2.414	5.1015328
1.2075	-1.319529	2.415	6.7697859	2.415	58.92168	2.415	6.4441807
1.208	9.5289806	2.416	6.0913243	2.416	65.3681	2.416	8.184454
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1.2095	38.7931	2.419	13.437524	2.419	72.0002	2.419	13.785317
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1.211	48.83096	2.422	26.960906	2.422	63.769367	2.422	15.414468
1.2115	44.186318	2.423	29.72557	2.423	60.825795	2.423	13.638349
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1.213	4.5013161	2.426	28.329125	2.426	49.646902	2.426	1.30578
1.2135	-12.5726	2.427	25.458381	2.427	44.37228	2.427	-3.708919
1.214	-28.05293	2.428	22.207799	2.428	38.593869	2.428	-8.08018
1.2145	-40.0779	2.429	19.061891	2.429	32.6383	2.429	-11.04166
1.215	-47.42673	2.43	16.372139	2.43	26.723008	2.43	-11.9594
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1.2215	4.2822588	2.443	25.617027	2.443	16.995371	2.443	20.556339
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1.2295 -2.610566	2.459 28.077336	2.459 0.2135852	2.459 15.643834
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1.2305 -17.68322	2.461 29.416301	2.461 -5.320151	2.461 33.587579
1.231 -20.69776	2.462 30.546789	2.462 -5.522037	2.462 40.830137
1.2315 -18.48727	2.463 32.174875	2.463 -3.64624	2.463 45.156306
1.232 -10.9954	2.464 34.352814	2.464 0.2378308	2.464 45.886529
1.2325 0.4786122	2.465 36.985838	2.465 5.7023037	2.465 43.172311
1.233 13.718497	2.466 39.81163	2.466 11.93205	2.466 37.931218
1.2335 26.214623	2.467 42.437475	2.467 17.887962	2.467 31.4957
1.234 35.761859	2.468 44.42819	2.468 22.610714	2.468 25.156515
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1.235 41.14524	2.47 45.186666	2.47 26.887655	2.47 16.327097
1.2355 37.097442	2.471 43.730402	2.471 27.191758	2.471 14.845694
1.236 30.202761	2.472 41.215625	2.472 27.436442	2.472 15.551723
1.2365 22.379566	2.473 37.931352	2.473 28.541904	2.473 18.126691
1.237 15.469056	2.474 34.206754	2.474 31.120213	2.474 21.67811
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1.2525 3.1750128	2.505 37.485925	2.505 23.796675	2.505 11.016439
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1.26 23.81722	2.52 26.716067	2.52 52.582403	2.52 25.936733
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1.261 40.850238	2.522 31.217815	2.522 39.839518	2.522 30.479314
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1.2625 31.801883	2.525 44.001644	2.525 30.74029	2.525 36.666197
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1.3755 22.832018	2.751 14.279158	2.751 27.430153	2.751 6.844774
1.376 32.446829	2.752 14.552916	2.752 23.0288	2.752 14.627886

1.3765 40.417946	2.753 14.338926	2.753 21.749277	2.753 22.482633
1.377 45.533663	2.754 13.616861	2.754 24.178181	2.754 29.341214
1.3775 47.274735	2.755 12.529673	2.755 29.920597	2.755 34.124828
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1.3795 29.400627	2.759 10.001713	2.759 56.460792	2.759 23.209582
1.38 23.025939	2.76 10.859318	2.76 58.681886	2.76 15.063425
1.3805 16.987927	2.761 12.368324	2.761 59.429188	2.761 7.287186
1.381 11.011277	2.762 14.398439	2.762 59.403302	2.762 1.3632203
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1.401 10.446569	2.802 19.553273	2.802 42.058316	2.802 10.046436
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1.4325 23.20277	2.865 17.426487	2.865 51.857874	2.865 25.405219
1.433 28.041559	2.866 19.207549	2.866 46.973087	2.866 23.497635
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1.4765 -8.57394	2.953 29.868483	2.953 79.84256	2.953 15.131856
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1.481 0.2169068	2.962 9.8167625	2.962 68.211359	2.962 -5.684861
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1.4855 -27.65011	2.971 28.608552	2.971 75.477793	2.971 1.0837384
1.486 -21.83566	2.972 33.385122	2.972 74.992793	2.972 2.0385491
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1.487 -10.31262	2.974 39.611214	2.974 75.980072	2.974 3.1634543
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1.499 -1.48326	2.998 34.242665	2.998 54.565773	2.998 4.4532119
1.4995 -2.659377	2.999 32.394145	2.999 63.078297	2.999 4.3027786
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1.5015 16.50982	3.003 31.288451	3.003 96.227397	3.003 5.395447
1.502 23.598765	3.004 33.456856	3.004 103.85346	3.004 6.4574702
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1.5045 43.918032	3.009 49.468272	3.009 112.36877	3.009 -10.65595
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1.519 -33.11585	3.038 26.332659	3.038 83.6448	3.038 34.519967
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1.5875 10.620538	3.175 35.851436	3.175 123.74953	3.175 52.638766
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1.5885 0.8245392	3.177 28.892803	3.177 128.91174	3.177 38.214258
1.589 -5.822386	3.178 26.002834	3.178 132.40791	3.178 28.00982
1.5895 -14.21156	3.179 23.825506	3.179 135.90839	3.179 17.393965
1.59 -24.26664	3.18 22.434707	3.18 138.90489	3.18 7.7027512
1.5905 -35.05072	3.181 21.7902	3.181 141.14664	3.181 0.0061323
1.591 -44.77442	3.182 21.788208	3.182 142.67834	3.182 -5.24164
1.5915 -51.21653	3.183 22.316576	3.183 143.76411	3.183 -8.338269
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1.5925 -47.24388	3.185 24.655405	3.185 145.87129	3.185 -11.64214
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1.5935 -20.41535	3.187 28.303764	3.187 148.59464	3.187 -15.82272
1.594 -2.877161	3.188 30.325599	3.188 149.52814	3.188 -18.41558
1.5945 13.723417	3.189 32.182222	3.189 149.59652	3.189 -20.93844
1.595 26.772277	3.19 33.599343	3.19 148.6839	3.19 -23.16726
1.5955 34.233168	3.191 34.344051	3.191 147.16511	3.191 -24.94293
1.596 34.894862	3.192 34.311133	3.192 145.80099	3.192 -26.02193
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1.597 16.599028	3.194 32.493241	3.194 146.59615	3.194 -24.70773
1.5975 1.2659633	3.195 31.504402	3.195 149.44733	3.195 -22.0343
1.598 -14.14012	3.196 31.191666	3.196 153.68162	3.196 -18.44619
1.5985 -26.48958	3.197 32.065172	3.197 158.72267	3.197 -14.61135
1.599 -33.65943	3.198 34.440533	3.198 163.87798	3.198 -11.15341
1.5995 -35.01142	3.199 38.339718	3.199 168.44036	3.199 -8.417839
1.6 -31.26866	3.2 43.461824	3.2 171.71823	3.2 -6.408574
1.6005 -23.92515	3.201 49.235517	3.201 173.05264	3.201 -4.879831
1.601 -14.55008	3.202 54.940303	3.202 171.94004	3.202 -3.507927
1.6015 -4.286755	3.203 59.862407	3.203 168.25224	3.203 -2.021628
1.602 6.24839	3.204 63.44071	3.204 162.46053	3.204 -0.280478
1.6025 16.757163	3.205 65.363213	3.205 155.61468	3.205 1.7073614
1.603 26.876278	3.206 65.593139	3.206 148.98089	3.206 3.7912574
1.6035 35.859813	3.207 64.328797	3.207 143.54204	3.207 5.7203007
1.604 42.500839	3.208 61.922532	3.208 139.68563	3.208 7.201594
1.6045 45.349086	3.209 58.79286	3.209 137.29806	3.209 8.0022228
1.605 43.143699	3.21 55.357362	3.21 136.13678	3.21 8.0449325
1.6055 35.273463	3.211 51.996466	3.211 136.14952	3.211 7.4507007

1.606 22.105136	3.212 49.03923	3.212 137.45248	3.212 6.4924064
1.6065 5.0781169	3.213 46.751622	3.213 139.98701	3.213 5.4702148
1.607 -13.43193	3.214 45.310856	3.214 143.21515	3.214 4.6282506
1.6075 -30.49628	3.215 44.763658	3.215 146.15842	3.215 4.1256305
1.608 -43.21454	3.216 44.98365	3.216 147.84712	3.216 4.0951658
1.6085 -49.38275	3.217 45.653074	3.217 147.88319	3.217 4.6950152
1.609 -48.06254	3.218 46.290712	3.218 146.72115	3.218 6.1131662
1.6095 -39.83751	3.219 46.331845	3.219 145.45345	3.219 8.5278651
1.61 -26.66023	3.22 45.245044	3.22 145.2418	3.22 12.014906
1.6105 -11.35299	3.221 42.6543	3.221 146.72504	3.221 16.498777
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1.6115 14.118927	3.223 32.728295	3.223 153.72294	3.223 27.222678
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1.6125 21.639822	3.225 18.682594	3.225 161.0746	3.225 36.221133
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1.6145 6.5519139	3.229 -3.905707	3.229 168.81705	3.229 25.217502
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1.6195 24.747824	3.239 2.3676768	3.239 171.21744	3.239 9.1167185
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1.623 -18.97008	3.246 25.562646	3.246 164.51315	3.246 17.849718
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1.624 -23.10095	3.248 36.015071	3.248 167.51302	3.248 24.454324
1.6245 -22.11142	3.249 40.316948	3.249 170.46273	3.249 27.551592
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1.6255 -15.01168	3.251 46.519082	3.251 174.8797	3.251 31.426091
1.626 -9.542325	3.252 48.630147	3.252 175.34291	3.252 31.845533
1.6265 -3.1419	3.253 50.314315	3.253 174.95799	3.253 31.121391
1.627 4.0283013	3.254 51.7006	3.254 174.34573	3.254 29.25434
1.6275 11.850284	3.255 52.82283	3.255 173.87998	3.255 26.487212
1.628 20.148453	3.256 53.618935	3.256 173.42333	3.256 23.398433
1.6285 28.614989	3.257 53.970387	3.257 172.43732	3.257 20.847407
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1.6305 51.847373	3.261 50.121833	3.261 156.73435	3.261 24.715955
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1.6315 46.337659	3.263 47.495105	3.263 144.89221	3.263 25.065642
1.632 37.745843	3.264 47.060965	3.264 139.06267	3.264 21.204747
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1.636 -35.2807	3.272 57.757978	3.272 138.49114	3.272 -11.31691
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1.656 -37.98733	3.312 46.84658	3.312 194.0052	3.312 15.949056
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1.6575 -45.36209	3.315 42.177722	3.315 208.45759	3.315 8.9505607
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1.6585 -32.77061	3.317 38.175288	3.317 210.92713	3.317 3.8885913
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1.6645 31.1404	3.329 57.049288	3.329 216.24484	3.329 28.225731
1.665 31.993403	3.33 57.221847	3.33 220.46772	3.33 32.525457
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1.6715 -34.16513	3.343 47.314102	3.343 205.66564	3.343 27.296937
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1.6725 -35.98263	3.345 41.993113	3.345 217.95433	3.345 22.771285
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1.698	-20.65411	3.396	61.586474	3.396	259.12405	3.396	-17.06526
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1.7005	-7.989865	3.401	62.414421	3.401	258.17334	3.401	-2.045997
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1.7015	-5.02834	3.403	63.586455	3.403	253.46967	3.403	1.4291392
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1.7025	-3.701407	3.405	66.597771	3.405	247.62071	3.405	6.6125723
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1.7035	-0.956414	3.407	71.287744	3.407	245.65522	3.407	15.635231
1.704	0.982024	3.408	73.86351	3.408	246.95456	3.408	20.05162
1.7045	3.2302375	3.409	76.330434	3.409	249.48843	3.409	23.339875
1.705	5.8858631	3.41	78.530193	3.41	252.77904	3.41	25.135103
1.7055	9.0301685	3.411	80.356678	3.411	256.35369	3.411	25.503168
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1.7085 28.329597	3.417 80.944783	3.417 284.5681	3.417 4.851653
1.709 32.109068	3.418 79.186444	3.418 293.23685	3.418 -1.843721
1.7095 35.375686	3.419 77.098495	3.419 302.32811	3.419 -7.385749
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1.711 27.314613	3.422 71.326226	3.422 319.82769	3.422 -6.335651
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1.7155 -50.7158	3.431 74.552383	3.431 300.38956	3.431 46.737609
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1.7165 -45.03934	3.433 71.447157	3.433 295.37073	3.433 43.531842
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1.7195 -7.404617	3.439 50.33991	3.439 303.43835	3.439 2.300198
1.72 -0.349446	3.44 45.095615	3.44 305.92462	3.44 -1.888559
1.7205 3.748968	3.441 39.57982	3.441 307.2923	3.441 -4.288786
1.721 4.1586695	3.442 34.060533	3.442 307.44695	3.442 -5.604195
1.7215 1.2011795	3.443 28.851934	3.443 306.7604	3.443 -6.69392
1.722 -3.935355	3.444 24.272492	3.444 305.97257	3.444 -8.250165
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1.7255 -10.02808	3.451 24.319063	3.451 315.15509	3.451 -26.05025
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1.7265 -4.114566	3.453 33.244628	3.453 312.82484	3.453 -21.6772
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1.73 15.117958	3.46 69.618768	3.46 298.9291	3.46 -5.512564
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1.731 29.22378	3.462 74.501203	3.462 293.56444	3.462 -0.911423
1.7315 33.532263	3.463 74.443283	3.463 290.07307	3.463 2.2646377
1.732 35.457287	3.464 72.635186	3.464 285.8552	3.464 5.9911495
1.7325 35.631547	3.465 69.316397	3.465 281.24669	3.465 9.8241713
1.733 35.064635	3.466 64.952492	3.466 277.01039	3.466 13.255377

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1.7715 23.337624	3.543 56.555527	3.543 377.51404	3.543 27.18398
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1.7725 22.079698	3.545 54.982682	3.545 371.51469	3.545 20.519285
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1.8065 23.265584	3.613 90.191339	3.613 387.84095	3.613 43.612735
1.807 17.932829	3.614 91.693646	3.614 386.90471	3.614 41.343716
1.8075 14.339518	3.615 93.092499	3.615 386.37291	3.615 38.193545
1.808 12.159887	3.616 94.03672	3.616 386.79902	3.616 34.583782
1.8085 10.586317	3.617 94.219781	3.617 388.53766	3.617 30.486129
1.809 8.7032873	3.618 93.435357	3.618 391.50287	3.618 25.621936
1.8095 5.7071727	3.619 91.614768	3.619 395.20767	3.619 19.701388

1.81 0.9742275	3.62 88.844892	3.62 399.08097	3.62 12.59892
1.8105 -5.845239	3.621 85.366178	3.621 402.78821	3.621 4.4501474
1.811 -14.6706	3.622 81.548001	3.622 406.2648	3.622 -4.23301
1.8115 -24.83995	3.623 77.837338	3.623 409.48703	3.623 -12.56127
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1.8125 -44.34755	3.625 72.433233	3.625 414.00994	3.625 -23.82402
1.813 -51.09656	3.626 71.268113	3.626 414.49862	3.626 -25.3109
1.8135 -54.63659	3.627 71.129358	3.627 413.74775	3.627 -24.12482
1.814 -54.63363	3.628 71.733797	3.628 412.33323	3.628 -21.09409
1.8145 -51.23265	3.629 72.635418	3.629 411.06979	3.629 -17.23395
1.815 -45.0945	3.63 73.331952	3.63 410.54436	3.63 -13.3448
1.8155 -37.42923	3.631 73.382155	3.631 410.72942	3.631 -9.802321
1.816 -29.82789	3.632 72.499866	3.632 410.91818	3.632 -6.625764
1.8165 -23.81745	3.633 70.602249	3.633 410.00976	3.633 -3.731728
1.817 -20.24966	3.634 67.808069	3.634 406.98355	3.634 -1.213836
1.8175 -18.87884	3.635 64.398301	3.635 401.33309	3.635 0.6091056
1.818 -18.45369	3.636 60.758886	3.636 393.30068	3.636 1.3185624
1.8185 -17.30767	3.637 57.322583	3.637 383.86236	3.637 0.7306774
1.819 -14.16563	3.638 54.517763	3.638 374.49926	3.638 -0.85492
1.8195 -8.679753	3.639 52.72324	3.639 366.80913	3.639 -2.637623
1.82 -1.498359	3.64 52.224985	3.64 362.08646	3.64 -3.622547
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1.822 19.408196	3.644 63.569611	3.644 373.75717	3.644 5.4629635
1.8225 19.101703	3.645 68.301967	3.645 378.96766	3.645 8.3473296
1.823 17.198647	3.646 72.753969	3.646 382.51297	3.646 10.368035
1.8235 14.797727	3.647 76.363422	3.647 383.90266	3.647 11.379711
1.824 12.962227	3.648 78.682386	3.648 383.2976	3.648 11.398021
1.8245 12.369867	3.649 79.448639	3.649 381.33977	3.649 10.562465
1.825 13.113302	3.65 78.626157	3.65 378.92972	3.65 9.1694548
1.8255 14.704629	3.651 76.408019	3.651 377.04646	3.651 7.6237795
1.826 16.295809	3.652 73.182879	3.652 376.58806	3.652 6.2993433
1.8265 16.997797	3.653 69.472772	3.653 378.18168	3.653 5.4252318
1.827 16.244066	3.654 65.85386	3.654 381.98637	3.654 5.0669011
1.8275 14.013439	3.655 62.872513	3.655 387.599	3.655 5.1928759
1.828 10.89061	3.656 60.968073	3.656 394.16554	3.656 5.6651585
1.8285 7.8819093	3.657 60.412356	3.657 400.68754	3.657 6.136357
1.829 6.0482849	3.658 61.274901	3.658 406.38739	3.658 6.0034133
1.8295 6.0358843	3.659 63.420976	3.659 410.96209	3.659 4.5800107
1.83 7.7543896	3.66 66.544535	3.66 414.59717	3.66 1.4652264
1.8305 10.373875	3.661 70.230498	3.661 417.72561	3.661 -3.083995
1.831 12.695346	3.662 74.032468	3.662 420.68802	3.662 -8.109593
1.8315 13.72144	3.663 77.547407	3.663 423.50725	3.663 -12.29062
1.832 13.078511	3.664 80.470888	3.664 425.93507	3.664 -14.57328
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1.833 8.5797513	3.666 83.95595	3.666 428.68075	3.666 -13.39633
1.8335 6.2064	3.667 84.52147	3.667 428.99149	3.667 -12.01593
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1.8355 -3.222018	3.671 82.385302	3.671 423.5223	3.671 -21.57847
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1.8515 12.73322	3.703 101.12365	3.703 440.25875	3.703 40.866126
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1.855 46.605415	3.71 107.9991	3.71 478.39245	3.71 12.769563
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1.856 41.384607	3.712 101.7701	3.712 489.80672	3.712 15.11767
1.8565 34.600508	3.713 97.729412	3.713 492.75756	3.713 16.794409
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1.8595 -7.296356	3.719 68.542468	3.719 493.1954	3.719 8.9505316
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1.8605 -6.437289	3.721 59.819525	3.721 493.38036	3.721 2.9813852

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1.8645 -42.05954	3.729 65.062622	3.729 456.74002	3.729 -11.89438
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1.9105 -10.57067	3.821 126.90685	3.821 549.66633	3.821 44.391332
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1.914 -5.751794	3.828 111.31971	3.828 559.32632	3.828 2.6256167
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1.915 -19.5454	3.83 105.99148	3.83 556.54197	3.83 -10.97553
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1.9165 -31.00115	3.833 106.37191	3.833 554.3469	3.833 -18.34102
1.917 -32.16389	3.834 108.49358	3.834 555.85523	3.834 -17.24399
1.9175 -33.21055	3.835 111.12807	3.835 557.66935	3.835 -14.33652
1.918 -34.24092	3.836 113.91069	3.836 559.00859	3.836 -10.08292
1.9185 -34.4955	3.837 116.49277	3.837 559.35726	3.837 -5.361663
1.919 -32.67671	3.838 118.57456	3.838 558.59984	3.838 -1.235444
1.9195 -27.61456	3.839 119.93307	3.839 556.95814	3.839 1.4144976
1.92 -18.95772	3.84 120.44551	3.84 554.79106	3.84 2.1697596
1.9205 -7.505054	3.841 120.1018	3.841 552.3924	3.841 1.197741
1.921 4.9588495	3.842 118.9954	3.842 549.95162	3.842 -0.824058
1.9215 16.236376	3.843 117.28681	3.843 547.64224	3.843 -2.9476
1.922 24.413318	3.844 115.14566	3.844 545.71702	3.844 -4.304446
1.9225 28.339262	3.845 112.68977	3.845 544.48851	3.845 -4.437742
1.923 27.691424	3.846 109.94533	3.846 544.18116	3.846 -3.409111
1.9235 22.738782	3.847 106.84652	3.847 544.80894	3.847 -1.610242
1.924 14.058589	3.848 103.27777	3.848 546.17081	3.848 0.5896643
1.9245 2.4441176	3.849 99.143687	3.849 547.94921	3.849 3.0925442
1.925 -11.00276	3.85 94.439631	3.85 549.79509	3.85 6.022998
1.9255 -24.82031	3.851 89.295075	3.851 551.39003	3.851 9.4217013
1.926 -37.32941	3.852 83.97332	3.852 552.51382	3.852 12.971462
1.9265 -46.98522	3.853 78.828543	3.853 553.1412	3.853 15.962027
1.927 -52.72452	3.854 74.237366	3.854 553.48814	3.854 17.60056
1.9275 -54.15121	3.855 70.529818	3.855 553.92318	3.855 17.445822
1.928 -51.48862	3.856 67.941159	3.856 554.75075	3.856 15.668948
1.9285 -45.38736	3.857 66.594057	3.857 555.96532	3.857 12.966235
1.929 -36.67774	3.858 66.506261	3.858 557.1451	3.858 10.180507
1.9295 -26.15313	3.859 67.609169	3.859 557.5641	3.859 7.9170749
1.93 -14.45667	3.86 69.762109	3.86 556.49637	3.86 6.3669621
1.9305 -2.119516	3.861 72.755375	3.861 553.58782	3.861 5.3736564
1.931 10.278455	3.862 76.307355	3.862 549.1512	3.862 4.6216436
1.9315 21.943527	3.863 80.070084	3.863 544.18757	3.863 3.8003157
1.932 31.851394	3.864 83.657711	3.864 540.10141	3.864 2.7075905
1.9325 38.960957	3.865 86.702584	3.865 538.18868	3.865 1.3299729
1.933 42.588088	3.866 88.928479	3.866 539.14228	3.866 -0.070614
1.9335 42.754564	3.867 90.217836	3.867 542.76855	3.867 -0.956277
1.934 40.31392	3.868 90.646617	3.868 548.12288	3.868 -0.658373
1.9345 36.724752	3.869 90.469149	3.869 553.94677	3.869 1.328258
1.935 33.561331	3.87 90.052377	3.87 559.23197	3.87 5.0433245
1.9355 31.965432	3.871 89.776941	3.871 563.63781	3.871 9.9168463
1.936 32.302414	3.872 89.933865	3.872 567.56833	3.872 14.863617
1.9365 34.196886	3.873 90.646477	3.873 571.86228	3.873 18.646468
1.937 36.857716	3.874 91.838516	3.874 577.2331	3.874 20.326332

1.9375 39.452288	3.875 93.255652	3.875 583.71817	3.875 19.617775
1.938 41.308568	3.876 94.533698	3.876 590.42647	3.876 16.952368
1.9385 41.897456	3.877 95.296012	3.877 595.7891	3.877 13.254829
1.939 40.749235	3.878 95.256248	3.878 598.22556	3.878 9.5717484
1.9395 37.453335	3.879 94.301173	3.879 596.92148	3.879 6.7716848
1.94 31.810139	3.88 92.532123	3.88 592.25166	3.88 5.4574149
1.9405 24.007082	3.881 90.253062	3.881 585.65593	3.881 6.0027316
1.941 14.702789	3.882 87.906942	3.882 579.04076	3.882 8.5861913
1.9415 4.922126	3.883 85.976582	3.883 574.10607	3.883 13.114317
1.942 -4.176218	3.884 84.876596	3.884 571.90843	3.884 19.094582
1.9425 -11.5688	3.885 84.864662	3.885 572.76229	3.885 25.553776
1.943 -16.56764	3.886 85.992776	3.886 576.34125	3.886 31.144205
1.9435 -18.91818	3.887 88.105451	3.887 581.83121	3.887 34.449617
1.944 -18.78604	3.888 90.878347	3.888 588.10023	3.888 34.425093
1.9445 -16.67589	3.889 93.882952	3.889 593.90963	3.889 30.81152
1.945 -13.32044	3.89 96.662305	3.89 598.18216	3.89 24.298296
1.9455 -9.558692	3.891 98.806663	3.891 600.25502	3.891 16.313426
1.946 -6.173777	3.892 100.02175	3.892 600.01315	3.892 8.5710129
1.9465 -3.722262	3.893 100.18283	3.893 597.82135	3.893 2.5738705
1.947 -2.369886	3.894 99.36592	3.894 594.33235	3.894 -0.677652
1.9475 -1.891797	3.895 97.846509	3.895 590.27654	3.895 -0.741986
1.948 -1.861606	3.896 96.059916	3.896 586.33839	3.896 2.3162892
1.9485 -1.954362	3.897 94.52607	3.897 583.10985	3.897 7.998575
1.949 -2.131681	3.898 93.752511	3.898 581.08024	3.898 15.396585
1.9495 -2.549648	3.899 94.137768	3.899 580.57383	3.899 23.274582
1.95 -3.243603	3.9 95.899017	3.9 581.64726	3.9 30.255099
1.9505 -3.903329	3.901 99.041791	3.901 584.02422	3.901 35.117939
1.951 -3.973546	3.902 103.37726	3.902 587.14784	3.902 37.164617
1.9515 -3.011873	3.903 108.5783	3.903 590.36974	3.903 36.510021
1.952 -0.989254	3.904 114.25402	3.904 593.16958	3.904 34.120298
1.9525 1.7660987	3.905 120.01849	3.905 595.29582	3.905 31.450096
1.953 4.9328084	3.906 125.5338	3.906 596.74807	3.906 29.777749
1.9535 8.5185385	3.907 130.52069	3.907 597.68051	3.907 29.570343
1.954 12.848888	3.908 134.74449	3.908 598.29795	3.908 30.257544
1.9545 18.194504	3.909 137.99562	3.909 598.82788	3.909 30.563442
1.955 24.355451	3.91 140.08529	3.91 599.5047	3.91 29.224383
1.9555 30.494891	3.911 140.86838	3.911 600.52836	3.911 25.65504
1.956 35.302365	3.912 140.28949	3.912 601.93196	3.912 20.270733
1.9565 37.392447	3.913 138.43296	3.913 603.47705	3.913 14.406693
1.957 35.757411	3.914 135.55046	3.914 604.65625	3.914 9.8538989
1.9575 30.133879	3.915 132.04454	3.915 604.91859	3.915 8.1890241
1.958 21.129826	3.916 128.40247	3.916 603.97598	3.916 10.069494
1.9585 10.032906	3.917 125.09507	3.917 602.03992	3.917 14.743242
1.959 -1.664761	3.918 122.4718	3.918 599.78866	3.918 20.173848
1.9595 -12.79417	3.919 120.68744	3.919 598.09076	3.919 23.813825
1.96 -22.76703	3.92 119.68649	3.92 597.65041	3.92 23.80435
1.9605 -31.46022	3.921 119.25095	3.921 598.76852	3.921 19.931734
1.961 -38.86467	3.922 119.09497	3.922 601.28256	3.922 13.825409
1.9615 -44.80651	3.923 118.97377	3.923 604.65226	3.923 8.2267076
1.962 -48.98107	3.924 118.77148	3.924 608.10328	3.924 5.7008579
1.9625 -51.27932	3.925 118.54058	3.925 610.80675	3.925 7.4322835

1.963 -52.10915	3.926 118.48293	3.926 612.07811	3.926 12.713376
1.9635 -52.42835	3.927 118.87954	3.927 611.56152	3.927 19.335544
1.964 -53.37226	3.928 119.99048	3.928 609.34432	3.928 24.708461
1.9645 -55.66582	3.929 121.95317	3.929 605.91817	3.929 27.075815
1.965 -59.16974	3.93 124.70764	3.93 602.00573	3.93 26.214077
1.9655 -62.80893	3.931 127.97034	3.931 598.33972	3.931 23.307779
1.966 -64.90583	3.932 131.2667	3.932 595.49332	3.932 20.128655
1.9665 -63.71702	3.933 134.01765	3.933 593.83801	3.933 18.088201
1.967 -57.92296	3.934 135.66078	3.934 593.56016	3.934 17.697908
1.9675 -46.95401	3.935 135.77644	3.935 594.65518	3.935 18.660193
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1.9685 -11.58653	3.937 130.99461	3.937 599.52477	3.937 22.609218
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1.9695 30.623126	3.939 121.44603	3.939 602.73111	3.939 28.533696
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1.9705 62.089974	3.941 111.42291	3.941 598.89079	3.941 35.87213
1.971 69.707808	3.942 107.4197	3.942 594.961	3.942 38.637478
1.9715 71.280671	3.943 104.40233	3.943 591.22346	3.943 39.885171
1.972 67.237948	3.944 102.40679	3.944 588.96849	3.944 39.418382
1.9725 58.435233	3.945 101.38271	3.945 589.02515	3.945 37.620324
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1.9795 -48.93368	3.959 127.13645	3.959 609.38702	3.959 38.150124
1.98 -44.10993	3.96 124.75665	3.96 612.50494	3.96 40.865259
1.9805 -38.13494	3.961 122.35157	3.961 612.87139	3.961 41.713574
1.981 -32.12944	3.962 120.27024	3.962 610.52479	3.962 40.904508
1.9815 -27.12526	3.963 118.78086	3.963 606.44222	3.963 39.161902
1.982 -23.52937	3.964 118.06987	3.964 602.1637	3.964 37.472198
1.9825 -20.85438	3.965 118.24855	3.965 599.1564	3.965 36.695231
1.983 -17.93562	3.966 119.35285	3.966 598.26523	3.966 37.126178
1.9835 -13.61341	3.967 121.33156	3.967 599.53076	3.967 38.310002
1.984 -7.487907	3.968 124.0279	3.968 602.43379	3.968 39.272097
1.9845 -0.263329	3.969 127.16852	3.969 606.3287	3.969 39.121818
1.985 6.5213146	3.97 130.37501	3.97 610.75377	3.97 37.651644
1.9855 11.197681	3.971 133.208	3.971 615.42235	3.971 35.570045
1.986 12.64855	3.972 135.24257	3.972 619.97771	3.972 34.208438
1.9865 10.620373	3.973 136.16021	3.973 623.78741	3.973 34.917473
1.987 5.6027956	3.974 135.83256	3.974 626.0026	3.974 38.502801
1.9875 -1.493063	3.975 134.36942	3.975 625.91724	3.975 44.907522
1.988 -9.622688	3.976 132.11154	3.976 623.36098	3.976 53.207447

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1.9895 -29.21103	3.979 125.77317	3.979 608.19059	3.979 72.587433
1.99 -30.51896	3.98 125.33243	3.98 603.86129	3.98 72.265308
1.9905 -27.83122	3.981 126.04322	3.981 600.78623	3.981 68.062784
1.991 -20.95496	3.982 127.74549	3.982 598.98325	3.982 61.144595
1.9915 -10.31547	3.983 130.09695	3.983 598.3782	3.983 53.107313
1.992 3.0193582	3.984 132.66587	3.984 598.95146	3.984 45.335872
1.9925 17.449388	3.985 135.03572	3.985 600.75578	3.985 38.5791
1.993 31.054693	3.986 136.8945	3.986 603.82104	3.986 32.950705
1.9935 41.908976	3.987 138.08711	3.987 608.02489	3.987 28.252834
1.994 48.429377	3.988 138.61972	3.988 612.95948	3.988 24.334956
1.9945 49.705888	3.989 138.61931	3.989 617.85713	3.989 21.316781
1.995 45.732326	3.99 138.26469	3.99 621.68859	3.99 19.56376
1.9955 37.443872	3.991 137.7142	3.991 623.46224	3.991 19.524859
1.996 26.523044	3.992 137.05544	3.992 622.62315	3.992 21.52209
1.9965 15.049503	3.993 136.29323	3.993 619.31661	3.993 25.531607
1.997 5.1248756	3.994 135.37615	3.994 614.32607	3.994 31.018406
1.9975 -1.439018	3.995 134.24716	3.995 608.73304	3.995 36.873745
1.998 -3.371805	3.996 132.89517	3.996 603.51469	3.996 41.645391
1.9985 -0.173889	3.997 131.38646	3.997 599.32044	3.997 44.046891
1.999 7.7086854	3.998 129.86551	3.998 596.50466	3.998 43.550264
1.9995 18.858559	3.999 128.52771	3.999 595.2881	3.999 40.684692
2 31.100615	4 127.57658	4 595.84095	4 36.773264
2.0005 41.930795	4.001 127.18139	4.001 598.21834	4.001 33.217905
2.001 48.969727	4.002 127.44785	4.002 602.19993	4.002 30.814502
2.0015 50.368112	4.003 128.40799	4.003 607.20301	4.003 29.460605
2.002 45.09303	4.004 130.02803	4.004 612.35169	4.004 28.449739
2.0025 33.176996	4.005 132.22717	4.005 616.71943	4.005 26.984829
2.003 15.878002	4.006 134.89719	4.006 619.60456	4.006 24.626928
2.0035 -4.406428	4.007 137.91363	4.007 620.75799	4.007 21.459909
2.004 -24.60998	4.008 141.1338	4.008 620.44832	4.008 17.988176
2.0045 -41.77715	4.009 144.3843	4.009 619.32745	4.009 14.904057
2.005 -53.87118	4.01 147.448	4.01 618.15862	4.01 12.87154
2.0055 -60.23281	4.011 150.06346	4.011 617.50513	4.011 12.310833
2.006 -61.52156	4.012 151.94656	4.012 617.56459	4.012 13.256834
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2.007 -55.06197	4.014 152.5487	4.014 619.33102	4.014 17.955307
2.0075 -50.39082	4.015 151.03996	4.015 620.96356	4.015 20.382374
2.008 -45.98287	4.016 148.43024	4.016 623.52892	4.016 22.19703
2.0085 -41.91251	4.017 145.00728	4.017 627.54165	4.017 23.390886
2.009 -37.71213	4.018 141.19093	4.018 633.22622	4.018 24.342888
2.0095 -32.63337	4.019 137.47345	4.019 640.18849	4.019 25.540991
2.01 -25.96236	4.02 134.34802	4.02 647.38148	4.02 27.233445
2.0105 -17.26592	4.021 132.23821	4.021 653.4303	4.021 29.158208
2.011 -6.506555	4.022 131.43694	4.022 657.10807	4.022 30.616519
2.0115 5.9699604	4.023 132.06143	4.023 657.71732	4.023 30.824073
2.012 19.486618	4.024 134.03092	4.024 655.24122	4.024 29.364646
2.0125 33.051692	4.025 137.07506	4.025 650.29106	4.025 26.495139
2.013 45.381071	4.026 140.77891	4.026 643.92685	4.026 23.050529
2.0135 55.058653	4.027 144.66131	4.027 637.39769	4.027 20.022884

2.014 60.845971	4.028 148.27072	4.028 631.83389	4.028 18.022144
2.0145 62.059692	4.029 151.27073	4.029 627.9556	4.029 16.937014
2.015 58.793715	4.03 153.48739	4.03 625.95393	4.03 16.027369
2.0155 51.911332	4.031 154.90213	4.031 625.62879	4.031 14.373919
2.016 42.802482	4.032 155.59598	4.032 626.64326	4.032 11.480372
2.0165 33.036951	4.033 155.67094	4.033 628.73989	4.033 7.6907865
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2.019 5.1900224	4.038 146.65715	4.038 645.46368	4.038 16.782846
2.0195 3.3473494	4.039 142.71623	4.039 646.1561	4.039 26.07303
2.02 1.6664518	4.04 138.27474	4.04 645.10476	4.04 35.361909
2.0205 -0.062768	4.041 133.62422	4.041 642.8689	4.041 43.512343
2.021 -1.779116	4.042 129.10496	4.042 640.38907	4.042 49.878917
2.0215 -3.077441	4.043 125.04326	4.043 638.58251	4.043 54.15008
2.022 -3.212144	4.044 121.69143	4.044 637.94934	4.044 56.098418
2.0225 -1.242605	4.045 119.18569	4.045 638.47336	4.045 55.50369
2.023 3.6377094	4.046 117.53143	4.046 639.81166	4.046 52.319748
2.0235 11.714672	4.047 116.61622	4.047 641.63447	4.047 46.923634
2.024 22.476684	4.048 116.2426	4.048 643.82787	4.048 40.234267
2.0245 34.583897	4.049 116.16756	4.049 646.44722	4.049 33.548766
2.025 46.120241	4.05 116.13739	4.05 649.49708	4.05 28.148006
2.0255 55.065959	4.051 115.91396	4.051 652.73458	4.051 24.909688
2.026 59.815665	4.052 115.29764	4.052 655.65582	4.052 24.093595
2.0265 59.56813	4.053 114.15637	4.053 657.66364	4.053 25.390012
2.027 54.447642	4.054 112.46657	4.054 658.31808	4.054 28.13988
2.0275 45.333227	4.055 110.36035	4.055 657.50646	4.055 31.580793
2.028 33.539051	4.056 108.16011	4.056 655.48166	4.056 35.014409
2.0285 20.514275	4.057 106.37519	4.057 652.75319	4.057 37.910198
2.029 7.6576587	4.058 105.64026	4.058 649.93594	4.058 39.939673
2.0295 -3.750636	4.059 106.5932	4.059 647.59575	4.059 40.970943
2.03 -12.6311	4.06 109.71503	4.06 646.11965	4.06 40.985085
2.0305 -18.28296	4.061 115.17512	4.061 645.58867	4.061 39.952604
2.031 -20.55934	4.062 122.73288	4.062 645.70516	4.062 37.729007
2.0315 -19.91671	4.063 131.73588	4.063 645.8483	4.063 34.078881
2.032 -17.24931	4.064 141.22648	4.064 645.33607	4.064 28.814567
2.0325 -13.5655	4.065 150.13347	4.065 643.7864	4.065 22.002458
2.033 -9.669813	4.066 157.49581	4.066 641.35835	4.066 14.061105
2.0335 -5.941988	4.067 162.65321	4.067 638.68706	4.067 5.7127619
2.034 -2.303587	4.068 165.3497	4.068 636.52962	4.068 -2.245735
2.0345 1.6534555	4.069 165.72739	4.069 635.40425	4.069 -9.146966
2.035 6.4439398	4.07 164.22534	4.07 635.43614	4.07 -14.54343
2.0355 12.416662	4.071 161.42871	4.071 636.47411	4.071 -18.15902
2.036 19.554517	4.072 157.92287	4.072 638.30005	4.072 -19.79319
2.0365 27.412497	4.073 154.19512	4.073 640.75312	4.073 -19.27801
2.037 35.217556	4.074 150.59958	4.074 643.69627	4.074 -16.5381
2.0375 42.094283	4.075 147.37272	4.075 646.93041	4.075 -11.74301
2.038 47.290921	4.076 144.67034	4.076 650.1861	4.076 -5.483459
2.0385 50.330053	4.077 142.59635	4.077 653.20262	4.077 1.2008506
2.039 51.050037	4.078 141.20704	4.078 655.82181	4.078 7.041118

2.0395 49.608316	4.079 140.49326	4.079 657.9976	4.079 10.948049
2.04 46.489632	4.08 140.35764	4.08 659.69801	4.08 12.478818
2.0405 42.484211	4.081 140.60935	4.081 660.80286	4.081 11.997006
2.041 38.573221	4.082 140.99235	4.082 661.0949	4.082 10.494292
2.0415 35.689704	4.083 141.24867	4.083 660.35237	4.083 9.1248954
2.042 34.425272	4.084 141.19982	4.084 658.51402	4.084 8.7603348
2.0425 34.846494	4.085 140.8164	4.085 655.77612	4.085 9.7843479
2.043 36.5354	4.086 140.24402	4.086 652.57045	4.086 12.105776
2.0435 38.819304	4.087 139.76702	4.087 649.4414	4.087 15.29555
2.044 41.022924	4.088 139.71541	4.088 646.93035	4.088 18.722514
2.0445 42.584878	4.089 140.34579	4.089 645.48599	4.089 21.703061
2.045 42.981059	4.09 141.74057	4.09 645.44208	4.09 23.625278
2.0455 41.633484	4.091 143.76498	4.091 646.99025	4.091 24.074354
2.046 37.991163	4.092 146.0992	4.092 650.15182	4.092 22.861293
2.0465 31.873087	4.093 148.33397	4.093 654.77043	4.093 20.070667
2.047 23.860927	4.094 150.09523	4.094 660.5415	4.094 16.099603
2.0475 15.377462	4.095 151.1547	4.095 667.02958	4.095 11.709678
2.048 8.2578723	4.096 151.49189	4.096 673.6677	4.096 7.9687362
2.0485 3.9467821	4.097 151.29132	4.097 679.7359	4.097 5.9830614
2.049 2.7730511	4.098 150.88089	4.098 684.41337	4.098 6.5192007
2.0495 3.8054244	4.099 150.63356	4.099 686.9915	4.099 9.6781596
2.05 5.323344	4.1 150.86258	4.1 687.14941	4.1 14.829427
2.0505 5.6686936	4.101 151.73786	4.101 685.15932	4.101 20.847782
2.051 3.9739004	4.102 153.24214	4.102 681.85341	4.102 26.477367
2.0515 0.4566397	4.103 155.17307	4.103 678.34836	4.103 30.700534
2.052 -3.803207	4.104 157.18618	4.104 675.6868	4.104 32.962294
2.0525 -7.424913	4.105 158.86615	4.105 674.54307	4.105 33.206154
2.053 -9.383944	4.106 159.81062	4.106 675.09833	4.106 31.791573
2.0535 -9.459544	4.107 159.71043	4.107 677.05371	4.107 29.270641
2.054 -8.306447	4.108 158.41141	4.108 679.73282	4.108 26.278372
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2.055 -7.161721	4.11 152.5275	4.11 683.75732	4.11 21.603579
2.0555 -9.190616	4.111 148.50868	4.111 683.774	4.111 21.354432
2.056 -13.37436	4.112 144.31364	4.112 682.36736	4.112 23.165334
2.0565 -19.22983	4.113 140.36161	4.113 680.14609	4.113 26.9533
2.057 -25.77174	4.114 137.00166	4.114 677.96639	4.114 32.080892
2.0575 -31.65698	4.115 134.47325	4.115 676.53496	4.115 37.625762
2.058 -35.42857	4.116 132.89791	4.116 676.11969	4.116 42.71951
2.0585 -35.90331	4.117 132.29664	4.117 676.51859	4.117 46.786407
2.059 -32.60436	4.118 132.62081	4.118 677.24981	4.118 49.510705
2.0595 -26.06418	4.119 133.78321	4.119 677.80382	4.119 50.692022
2.06 -17.79222	4.12 135.68007	4.12 677.81676	4.12 50.112024
2.0605 -9.831969	4.121 138.201	4.121 677.11783	4.121 47.551761
2.061 -4.055014	4.122 141.2299	4.122 675.70344	4.122 42.923775
2.0615 -1.454363	4.123 144.64252	4.123 673.7049	4.123 36.415705
2.062 -1.784723	4.124 148.30607	4.124 671.32864	4.124 28.563777
2.0625 -3.701588	4.125 152.08279	4.125 668.83312	4.125 20.189541
2.063 -5.381222	4.126 155.8359	4.126 666.5331	4.126 12.227308
2.0635 -5.296833	4.127 159.43412	4.127 664.81221	4.127 5.5456067
2.064 -2.802697	4.128 162.75183	4.128 664.09115	4.128 0.7885846
2.0645 1.7069653	4.129 165.66604	4.129 664.70415	4.129 -1.697165

2.065 7.0746794	4.13 168.05477	4.13 666.76848	4.13 -1.901582
2.0655 11.91342	4.131 169.80318	4.131 670.1214	4.131 -0.147574
2.066 15.151485	4.132 170.82103	4.132 674.36179	4.132 3.0033503
2.0665 16.372603	4.133 171.06911	4.133 678.941	4.133 6.8653925
2.067 15.824968	4.134 170.58634	4.134 683.26743	4.134 10.763792
2.0675 14.129323	4.135 169.50525	4.135 686.81508	4.135 14.085961
2.068 11.853252	4.136 168.04509	4.136 689.28897	4.136 16.328233
2.0685 9.2178867	4.137 166.47776	4.137 690.76656	4.137 17.182435
2.069 6.1080316	4.138 165.07126	4.138 691.68689	4.138 16.614453
2.0695 2.3756126	4.139 164.02468	4.139 692.6616	4.139 14.920887
2.07 -1.80948	4.14 163.41522	4.14 694.15579	4.14 12.681262
2.0705 -5.825017	4.141 163.17667	4.141 696.28507	4.141 10.66123
2.071 -8.782263	4.142 163.12057	4.142 698.82787	4.142 9.6440475
2.0715 -9.911187	4.143 162.99678	4.143 701.40191	4.143 10.217897
2.072 -8.867421	4.144 162.57487	4.144 703.6676	4.144 12.554169
2.0725 -5.796207	4.145 161.71768	4.145 705.4134	4.145 16.310356
2.073 -1.232997	4.146 160.41954	4.146 706.55381	4.146 20.718231
2.0735 4.0231365	4.147 158.79355	4.147 707.10691	4.147 24.899197
2.074 8.9425879	4.148 157.0122	4.148 707.20081	4.148 28.162975
2.0745 12.290961	4.149 155.22508	4.149 707.0892	4.149 30.123111
2.075 12.803167	4.15 153.48738	4.15 707.08845	4.15 30.613027
2.0755 9.5482648	4.151 151.72942	4.151 707.44229	4.151 29.581841
2.076 2.3495649	4.152 149.78045	4.152 708.18488	4.152 27.135035
2.0765 -8.004353	4.153 147.43765	4.153 709.08971	4.153 23.69165
2.077 -19.92794	4.154 144.55283	4.154 709.78805	4.154 19.987073
2.0775 -31.5448	4.155 141.10359	4.155 709.97941	4.155 16.822292
2.078 -41.30143	4.156 137.22409	4.156 709.6169	4.156 14.668607
2.0785 -48.37794	4.157 133.18806	4.157 708.98273	4.157 13.429498
2.079 -52.76953	4.158 129.35453	4.158 708.58741	4.158 12.571612
2.0795 -55.04019	4.159 126.09767	4.159 708.97536	4.159 11.486318
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2.0805 -55.99643	4.161 122.5163	4.161 713.25074	4.161 7.5780537
2.081 -55.39458	4.162 122.53155	4.162 716.86556	4.162 4.842439
2.0815 -53.92268	4.163 123.77837	4.163 720.81126	4.163 1.7420911
2.082 -51.19569	4.164 126.14173	4.164 724.50328	4.164 -1.576902
2.0825 -46.90723	4.165 129.42839	4.165 727.52873	4.165 -4.773628
2.083 -41.01743	4.166 133.40464	4.166 729.74954	4.166 -7.230324
2.0835 -33.81598	4.167 137.83944	4.167 731.30498	4.167 -8.223763
2.084 -25.82553	4.168 142.5438	4.168 732.52539	4.168 -7.275304
2.0845 -17.57195	4.169 147.39516	4.169 733.80711	4.169 -4.472086
2.085 -9.343771	4.17 152.33744	4.17 735.47762	4.17 -0.482727
2.0855 -1.078332	4.171 157.35478	4.171 737.66763	4.171 3.7606463
2.086 7.4993881	4.172 162.42577	4.172 740.26734	4.172 7.4833748
2.0865 16.519259	4.173 167.47254	4.173 742.99266	4.173 10.334826
2.087 25.573232	4.174 172.32163	4.174 745.50717	4.174 12.30588
2.0875 33.554636	4.175 176.69096	4.175 747.51786	4.175 13.449204
2.088 38.898224	4.176 180.2119	4.176 748.78997	4.176 13.654025
2.0885 40.149316	4.177 182.48684	4.177 749.14843	4.177 12.696507
2.089 36.605805	4.178 183.17363	4.178 748.51024	4.178 10.44828
2.0895 28.705242	4.179 182.07817	4.179 746.93362	4.179 7.0593919
2.09 17.95272	4.18 179.22945	4.18 744.61071	4.18 2.894759

2.0905 6.4496355	4.181 174.91137	4.181 741.74427	4.181 -1.642229
2.091 -3.765394	4.182 169.63522	4.182 738.44958	4.182 -6.251375
2.0915 -11.24066	4.183 164.05484	4.183 734.78562	4.183 -10.63799
2.092 -15.37576	4.184 158.84581	4.184 730.9492	4.184 -14.29668
2.0925 -16.35888	4.185 154.58279	4.185 727.4638	4.185 -16.42283
2.093 -14.86845	4.186 151.64872	4.186 725.16867	4.186 -16.1241
2.0935 -11.70183	4.187 150.19678	4.187 724.92953	4.187 -12.88062
2.094 -7.49339	4.188 150.16725	4.188 727.18085	4.188 -6.965959
2.0945 -2.648948	4.189 151.34421	4.189 731.5899	4.189 0.5427861
2.095 2.4937863	4.19 153.42862	4.19 737.07069	4.19 8.1861899
2.0955 7.4620713	4.191 156.10486	4.191 742.18968	4.191 14.757473
2.096 11.58429	4.192 159.08582	4.192 745.76776	4.192 19.759407
2.0965 14.173634	4.193 162.13179	4.193 747.35914	4.193 23.436654
2.097 14.82591	4.194 165.04761	4.194 747.33882	4.194 26.392442
2.0975 13.663438	4.195 167.66872	4.195 746.58601	4.195 29.11287
2.098 11.335843	4.196 169.84924	4.196 745.97666	4.196 31.689242
2.0985 8.7624679	4.197 171.46243	4.197 746.00568	4.197 33.902482
2.099 6.7551796	4.198 172.41752	4.198 746.71072	4.198 35.509361
2.0995 5.6770591	4.199 172.68749	4.199 747.85616	4.199 36.478814
2.1 5.3108733	4.2 172.33446	4.2 749.19232	4.2 37.035815
2.1005 4.9054087	4.201 171.51668	4.201 750.61443	4.201 37.538066
2.101 3.3646096	4.202 170.46643	4.202 752.1742	4.202 38.316904
2.1015 -0.503422	4.203 169.43989	4.203 753.99609	4.203 39.607597
2.102 -7.631899	4.204 168.65259	4.204 756.17425	4.204 41.490954
2.1025 -18.25512	4.205 168.22181	4.205 758.68153	4.205 43.87922
2.103 -31.50606	4.206 168.13572	4.206 761.29775	4.206 46.485415
2.1035 -45.32275	4.207 168.25969	4.207 763.57473	4.207 48.865009
2.104 -56.86039	4.208 168.37753	4.208 764.9719	4.208 50.497172
2.1045 -63.37015	4.209 168.2549	4.209 765.0932	4.209 50.9138
2.105 -63.17709	4.21 167.70757	4.21 763.94791	4.21 49.788888
2.1055 -56.33145	4.211 166.65748	4.211 762.03255	4.211 47.035841
2.106 -44.57827	4.212 165.16358	4.212 760.13395	4.212 42.84338
2.1065 -30.74875	4.213 163.41987	4.213 758.95903	4.213 37.673909
2.107 -17.84439	4.214 161.71914	4.214 758.7909	4.214 32.139082
2.1075 -8.242957	4.215 160.38848	4.215 759.36336	4.215 26.855915
2.108 -3.225673	4.216 159.70989	4.216 760.03343	4.216 22.322525
2.1085 -2.842645	4.217 159.84568	4.217 760.14888	4.217 18.904511
2.109 -6.071717	4.218 160.78906	4.218 759.43418	4.218 16.882123
2.1095 -11.18333	4.219 162.35549	4.219 758.17038	4.219 16.491678
2.11 -16.27551	4.22 164.21947	4.22 757.0739	4.22 17.860182
2.1105 -19.7663	4.221 165.98798	4.221 756.89596	4.221 20.910333
2.111 -20.67575	4.222 167.2914	4.222 757.94912	4.222 25.308286
2.1115 -18.58985	4.223 167.86691	4.223 759.85723	4.223 30.483616
2.112 -13.44778	4.224 167.61216	4.224 761.70666	4.224 35.735346
2.1125 -5.430195	4.225 166.59581	4.225 762.50123	4.225 40.352265
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2.1135 16.610405	4.227 163.18087	4.227 759.36627	4.227 45.68929
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2.1145 37.352382	4.229 159.75509	4.229 753.41464	4.229 45.08368
2.115 43.201391	4.23 158.54842	4.23 751.60603	4.23 42.940526
2.1155 44.948596	4.231 157.80246	4.231 751.35919	4.231 39.903719

2.116 43.005784	4.232 157.55529	4.232 752.7575	4.232 36.37623
2.1165 38.568669	4.233 157.85118	4.233 755.56913	4.233 33.046299
2.117 33.0801	4.234 158.76719	4.234 759.46045	4.234 30.885946
2.1175 27.618577	4.235 160.40887	4.235 764.18246	4.235 30.913362
2.118 22.53564	4.236 162.87284	4.236 769.60688	4.236 33.811354
2.1185 17.494314	4.237 166.1885	4.237 775.59445	4.237 39.587197
2.119 11.858808	4.238 170.2607	4.238 781.77679	4.238 47.419967
2.1195 5.1495114	4.239 174.83714	4.239 787.45412	4.239 55.783372
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2.1205 -11.04145	4.241 183.80668	4.241 793.91486	4.241 66.695379
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2.1215 -26.56113	4.243 189.30841	4.243 791.58122	4.243 62.131249
2.122 -32.42541	4.244 189.89392	4.244 788.33752	4.244 54.862711
2.1225 -36.83439	4.245 188.97172	4.245 785.00548	4.245 46.574361
2.123 -40.1018	4.246 186.78505	4.246 782.36068	4.246 39.276685
2.1235 -42.51746	4.247 183.76327	4.247 780.75837	4.247 34.423021
2.124 -43.94726	4.248 180.43982	4.248 780.19896	4.248 32.584271
2.1245 -43.6943	4.249 177.35617	4.249 780.58388	4.249 33.477859
2.125 -40.79066	4.25 174.9748	4.25 781.94796	4.25 36.273623
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2.126 -25.10867	4.252 173.44528	4.252 788.34355	4.252 43.410147
2.1265 -13.46919	4.253 174.45444	4.253 793.37452	4.253 45.925265
2.127 -1.358392	4.254 176.51681	4.254 799.02722	4.254 47.04558
2.1275 9.2685101	4.255 179.4134	4.255 804.53302	4.255 46.899232
2.128 16.666523	4.256 182.8744	4.256 809.21045	4.256 46.157365
2.1285 19.650595	4.257 186.61373	4.257 812.6998	4.257 45.789072
2.129 17.786412	4.258 190.35907	4.258 814.95099	4.258 46.597748
2.1295 11.426405	4.259 193.87792	4.259 816.04698	4.259 48.809295
2.13 1.6175307	4.26 196.99797	4.26 816.06406	4.26 51.939637
2.1305 -10.07446	4.261 199.61724	4.261 815.08974	4.261 55.004946
2.131 -21.79271	4.262 201.69974	4.262 813.33155	4.262 56.987291
2.1315 -31.65819	4.263 203.25647	4.263 811.19413	4.263 57.28715
2.132 -38.0971	4.264 204.31737	4.264 809.21426	4.264 55.922969
2.1325 -40.18124	4.265 204.90435	4.265 807.89486	4.265 53.396578
2.133 -37.84539	4.266 205.01551	4.266 807.53428	4.266 50.313131
2.1335 -31.87591	4.267 204.62602	4.267 808.08474	4.267 47.017329
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2.1345 -14.64518	4.269 202.23892	4.269 810.04301	4.269 39.524835
2.135 -6.181452	4.27 200.25862	4.27 810.16888	4.27 35.088932
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2.136 6.4236977	4.272 195.15302	4.272 807.4921	4.272 25.910181
2.1365 10.33138	4.273 192.34462	4.273 805.53321	4.273 21.769569
2.137 12.910371	4.274 189.60584	4.274 803.97405	4.274 17.877402
2.1375 14.337461	4.275 187.08581	4.275 803.11955	4.275 13.866705
2.138 14.571922	4.276 184.86933	4.276 802.92233	4.276 9.4395304
2.1385 13.344975	4.277 182.95943	4.277 803.21846	4.277 4.6552505
2.139 10.356904	4.278 181.28186	4.278 803.95867	4.278 0.0289114
2.1395 5.5671974	4.279 179.71293	4.279 805.23865	4.279 -3.641832
2.14 -0.573813	4.28 178.12418	4.28 807.08134	4.28 -5.607318
2.1405 -7.140488	4.281 176.43154	4.281 809.21425	4.281 -5.539238
2.141 -13.01525	4.282 174.63405	4.282 811.05084	4.282 -3.759994

2.1415	-17.28863	4.283	172.82967	4.283	811.9464	4.283	-1.216755
2.142	-19.56938	4.284	171.20195	4.284	811.54621	4.284	0.8287079
2.1425	-20.06771	4.285	169.97941	4.285	809.93797	4.285	1.2714775
2.143	-19.45318	4.286	169.37698	4.286	807.53154	4.286	-0.430823
2.1435	-18.55721	4.287	169.53476	4.287	804.78235	4.287	-4.041468
2.144	-17.98111	4.288	170.47124	4.288	801.98673	4.288	-8.60589
2.1445	-17.75814	4.289	172.06646	4.289	799.27941	4.289	-12.72217
2.145	-17.24296	4.29	174.08267	4.29	796.73619	4.29	-14.95457
2.1455	-15.4034	4.291	176.21885	4.291	794.45199	4.291	-14.31067
2.146	-11.46246	4.292	178.18323	4.292	792.51228	4.292	-10.62662
2.1465	-5.549934	4.293	179.76083	4.293	790.90634	4.293	-4.69306
2.147	1.0196981	4.294	180.8543	4.294	789.52422	4.294	2.024662
2.1475	6.1493958	4.295	181.48705	4.295	788.24702	4.295	7.9984018
2.148	7.8436898	4.296	181.77278	4.296	787.07598	4.296	12.308312
2.1485	5.1592171	4.297	181.86738	4.297	786.19585	4.297	14.948811
2.149	-1.354245	4.298	181.92273	4.298	785.90651	4.298	16.600995
2.1495	-9.916847	4.299	182.0562	4.299	786.43231	4.299	18.012517
2.15	-18.30293	4.3	182.33891	4.3	787.74848	4.3	19.393841
2.1505	-24.71285	4.301	182.7971	4.301	789.54211	4.301	20.244624
2.151	-28.31739	4.302	183.41849	4.302	791.37383	4.302	19.699064
2.1515	-29.32883	4.303	184.15796	4.303	792.96892	4.303	17.133868
2.152	-28.69666	4.304	184.94225	4.304	794.43452	4.304	12.646514
2.1525	-27.63136	4.305	185.67567	4.305	796.22948	4.305	7.1226778
2.153	-27.14831	4.306	186.24827	4.306	798.87762	4.306	1.8940117
2.1535	-27.78771	4.307	186.54612	4.307	802.61748	4.307	-1.798786
2.154	-29.51309	4.308	186.46279	4.308	807.22292	4.308	-3.266111
2.1545	-31.76957	4.309	185.91223	4.309	812.11613	4.309	-2.581581
2.155	-33.62344	4.31	184.84521	4.31	816.70531	4.31	-0.509645
2.1555	-33.9881	4.311	183.27051	4.311	820.70236	4.311	1.846659
2.156	-31.91649	4.312	181.27727	4.312	824.18558	4.312	3.4917356
2.1565	-26.95617	4.313	179.04952	4.313	827.39313	4.313	3.9316518
2.157	-19.41671	4.314	176.8605	4.314	830.40512	4.314	3.3493119
2.1575	-10.41607	4.315	175.03834	4.315	832.98651	4.315	2.4626026
2.158	-1.578463	4.316	173.90464	4.316	834.70014	4.316	2.1200527
2.1585	5.5092084	4.317	173.69962	4.317	835.23347	4.317	2.8346109
2.159	9.8761811	4.318	174.51569	4.318	834.66951	4.318	4.5360337
2.1595	11.530218	4.319	176.26087	4.319	833.53638	4.319	6.6860333
2.16	11.425874	4.32	178.66417	4.32	832.58406	4.32	8.6416493
2.1605	11.050669	4.321	181.32222	4.321	832.47379	4.321	9.983509
2.161	11.763404	4.322	183.775	4.322	833.53529	4.322	10.655815
2.1615	14.203128	4.323	185.59296	4.323	835.68059	4.323	10.868553
2.162	18.023514	4.324	186.45812	4.324	838.41597	4.324	10.94491
2.1625	22.118575	4.325	186.2249	4.325	840.91393	4.325	11.226005
2.163	25.225274	4.326	184.95078	4.326	842.19676	4.326	12.014216
2.1635	26.530842	4.327	182.89063	4.327	841.47909	4.327	13.51357
2.164	25.959913	4.328	180.45351	4.328	838.59034	4.328	15.74451
2.1645	24.026163	4.329	178.1281	4.329	834.20548	4.329	18.530722
2.165	21.417109	4.33	176.39049	4.33	829.69816	4.33	21.550011
2.1655	18.654278	4.331	175.61422	4.331	826.60171	4.331	24.478195
2.166	16.017077	4.332	176.00359	4.332	825.97023	4.332	27.076172
2.1665	13.635772	4.333	177.56548	4.333	827.98063	4.333	29.226423

2.167 11.570586	4.334 180.12481	4.334 831.97583	4.334 30.892857
2.1675 9.7394472	4.335 183.37633	4.335 836.86845	4.335 32.074103
2.168 7.7738682	4.336 186.95622	4.336 841.65533	4.336 32.74734
2.1685 5.0015383	4.337 190.51279	4.337 845.79221	4.337 32.836596
2.169 0.6833864	4.338 193.75919	4.338 849.27806	4.338 32.238081
2.1695 -5.635451	4.339 196.49931	4.339 852.47303	4.339 30.903857
2.17 -13.84426	4.34 198.62819	4.34 855.7672	4.34 28.97029
2.1705 -23.24611	4.341 200.11585	4.341 859.29846	4.341 26.843467
2.171 -32.76332	4.342 200.98511	4.342 862.83654	4.342 25.100724
2.1715 -41.23145	4.343 201.29135	4.343 865.88734	4.343 24.229744
2.172 -47.65748	4.344 201.10729	4.344 867.91494	4.344 24.342389
2.1725 -51.38347	4.345 200.51252	4.345 868.60583	4.345 25.093707
2.173 -52.14696	4.346 199.58716	4.346 868.02944	4.346 25.909957
2.1735 -50.0547	4.347 198.40944	4.347 866.69211	4.347 26.375385
2.174 -45.48655	4.348 197.05731	4.348 865.44073	4.348 26.494072
2.1745 -39.00177	4.349 195.61167	4.349 865.23629	4.349 26.608985
2.175 -31.30119	4.35 194.15683	4.35 866.83913	4.35 27.011326
2.1755 -23.2095	4.351 192.77377	4.351 870.52611	4.351 27.586375
2.176 -15.5944	4.352 191.52485	4.352 875.93758	4.352 27.810101
2.1765 -9.212953	4.353 190.43434	4.353 882.14186	4.353 27.13526
2.177 -4.509411	4.354 189.47381	4.354 887.93063	4.354 25.47201
2.1775 -1.50014	4.355 188.56191	4.355 892.20356	4.355 23.374761
2.178 0.1780478	4.356 187.58467	4.356 894.33606	4.356 21.724655
2.1785 1.0849435	4.357 186.43471	4.357 894.35395	4.357 21.159555
2.179 1.7298235	4.358 185.05998	4.358 892.86661	4.358 21.627188
2.1795 2.3220406	4.359 183.50571	4.359 890.77104	4.359 22.436435
2.18 2.6101994	4.36 181.9318	4.36 888.87208	4.36 22.692609
2.1805 1.9286191	4.361 180.59186	4.361 887.61288	4.361 21.845994
2.181 -0.535188	4.362 179.77162	4.362 887.0324	4.362 19.981593
2.1815 -5.330678	4.363 179.7005	4.363 886.93431	4.363 17.747736
2.182 -12.3942	4.364 180.46452	4.364 887.12514	4.364 16.024364
2.1825 -21.01835	4.365 181.955	4.365 887.56484	4.365 15.55706
2.183 -30.17198	4.366 183.87966	4.366 888.34521	4.366 16.722632
2.1835 -38.96795	4.367 185.84091	4.367 889.5782	4.367 19.48603
2.184 -46.95945	4.368 187.45918	4.368 891.28042	4.368 23.494279
2.1845 -54.04515	4.369 188.49791	4.369 893.32387	4.369 28.244288
2.185 -60.1131	4.37 188.9432	4.37 895.46283	4.37 33.233185
2.1855 -64.73814	4.371 189.00739	4.371 897.42226	4.371 38.037346
2.186 -67.19332	4.372 189.05544	4.372 898.98757	4.372 42.313196
2.1865 -66.7727	4.373 189.48288	4.373 900.06661	4.373 45.78448
2.187 -63.18972	4.374 190.59091	4.374 900.68829	4.374 48.258551
2.1875 -56.82044	4.375 192.50185	4.375 900.93187	4.375 49.744181
2.188 -48.66384	4.376 195.13927	4.376 900.81367	4.376 50.558825
2.1885 -40.10041	4.377 198.27076	4.377 900.23333	4.377 51.278644
2.189 -32.56294	4.378 201.58899	4.378 899.03512	4.378 52.499263
2.1895 -27.23832	4.379 204.79604	4.379 897.16561	4.379 54.493932
2.19 -24.83588	4.38 207.66023	4.38 894.83736	4.38 57.028332
2.1905 -25.46002	4.381 210.03083	4.381 892.53258	4.381 59.494886
2.191 -28.61824	4.382 211.81672	4.382 890.84227	4.382 61.288807
2.1915 -33.36077	4.383 212.95157	4.383 890.23092	4.383 62.147528
2.192 -38.53136	4.384 213.37242	4.384 890.90779	4.384 62.167827

2.1925 -43.06227	4.385 213.02841	4.385 892.85582	4.385 61.581198
2.193 -46.23053	4.386 211.91688	4.386 895.94719	4.386 60.494324
2.1935 -47.76975	4.387 210.1251	4.387 899.98291	4.387 58.870485
2.194 -47.79767	4.388 207.84875	4.388 904.60998	4.388 56.683424
2.1945 -46.57876	4.389 205.36809	4.389 909.23538	4.389 54.07434
2.195 -44.21287	4.39 202.98431	4.39 913.05375	4.39 51.329416
2.1955 -40.42982	4.391 200.94076	4.391 915.29039	4.391 48.718522
2.196 -34.62617	4.392 199.36372	4.392 915.529	4.392 46.357595
2.1965 -26.165	4.393 198.24873	4.393 913.97012	4.393 44.183435
2.197 -14.84429	4.394 197.49695	4.394 911.4536	4.394 42.095242
2.1975 -1.264668	4.395 196.98232	4.395 909.15422	4.395 40.124909
2.198 13.120318	4.396 196.61805	4.396 908.0775	4.396 38.521074
2.1985 26.345785	4.397 196.39489	4.397 908.59473	4.397 37.695341
2.199 36.496086	4.398 196.38037	4.398 910.29714	4.398 38.033375
2.1995 42.216988	4.399 196.68743	4.399 912.28048	4.399 39.628534
2.2 42.970952	4.4 197.43176	4.4 913.72582	4.4 42.099015
2.2005 38.983961	4.401 198.69698	4.401 914.43706	4.401 44.606949
2.201 31.013666	4.402 200.51693	4.402 914.96671	4.402 46.154623
2.2015 20.075956	4.403 202.87389	4.403 916.23423	4.403 46.026703
2.202 7.2580777	4.404 205.70529	4.404 918.8838	4.404 44.126792
2.2025 -6.343734	4.405 208.91284	4.405 922.8199	4.405 41.042208
2.203 -19.59701	4.406 212.37228	4.406 927.22605	4.406 37.787403
2.2035 -31.29391	4.407 215.94604	4.407 931.03277	4.407 35.392961
2.204 -40.18987	4.408 219.5009	4.408 933.49832	4.408 34.491395
2.2045 -45.16834	4.409 222.92879	4.409 934.53091	4.409 35.078443
2.205 -45.54042	4.41 226.1649	4.41 934.61363	4.41 36.515911
2.2055 -41.3557	4.411 229.19539	4.411 934.44873	4.411 37.780835
2.206 -33.57975	4.412 232.05001	4.412 934.61733	4.412 37.915563
2.2065 -23.98561	4.413 234.77994	4.413 935.40743	4.413 36.486167
2.207 -14.76826	4.414 237.42625	4.414 936.83067	4.414 33.790403
2.2075 -8.000799	4.415 239.98785	4.415 938.75308	4.415 30.671197
2.208 -5.11012	4.416 242.39762	4.416 941.02182	4.416 28.032751
2.2085 -6.553875	4.417 244.514	4.417 943.5429	4.417 26.373246
2.209 -11.7459	4.418 246.13287	4.418 946.30524	4.418 25.630859
2.2095 -19.20347	4.419 247.0202	4.419 949.34482	4.419 25.352197
2.21 -26.84976	4.42 246.96172	4.42 952.6605	4.42 25.050497
2.2105 -32.40765	4.421 245.81947	4.421 956.11846	4.421 24.482812
2.211 -33.87692	4.422 243.58103	4.422 959.40729	4.422 23.716331
2.2115 -30.00071	4.423 240.38599	4.423 962.08502	4.423 23.021308
2.212 -20.61893	4.424 236.51895	4.424 963.70393	4.424 22.68977
2.2125 -6.793132	4.425 232.36715	4.425 963.96731	4.425 22.82414
2.213 9.3615857	4.426 228.35143	4.426 962.83893	4.426 23.219334
2.2135 25.109578	4.427 224.84812	4.427 960.58951	4.427 23.379256
2.214 37.713868	4.428 222.12189	4.428 957.76587	4.428 22.738703
2.2145 45.088406	4.429 220.28661	4.429 955.07257	4.429 21.018138
2.215 46.302214	4.43 219.30215	4.43 953.17979	4.43 18.481959
2.2155 41.772899	4.431 219.00392	4.431 952.52895	4.431 15.922131
2.216 33.06686	4.432 219.15316	4.432 953.19897	4.432 14.311857
2.2165 22.404708	4.433 219.49079	4.433 954.88766	4.433 14.328424
2.217 12.069889	4.434 219.78034	4.434 957.02731	4.434 16.022036
2.2175 3.9222875	4.435 219.83219	4.435 958.96025	4.435 18.861845

2.218 -0.918161	4.436 219.51075	4.436 960.13398	4.436 22.130345
2.2185 -2.224235	4.437 218.73308	4.437 960.27256	4.437 25.386251
2.219 -0.684758	4.438 217.46878	4.438 959.50711	4.438 28.700375
2.2195 2.2643991	4.439 215.74613	4.439 958.37968	4.439 32.495873
2.22 4.8432272	4.44 213.66167	4.44 957.6289	4.44 37.125974
2.2205 5.4871325	4.441 211.38341	4.441 957.83348	4.441 42.491379
2.221 3.3690352	4.442 209.13704	4.442 959.10735	4.442 47.98451
2.2215 -1.377259	4.443 207.17011	4.443 961.05624	4.443 52.739908
2.222 -7.828015	4.444 205.69995	4.444 963.05027	4.444 55.971323
2.2225 -14.72482	4.445 204.86112	4.445 964.62007	4.445 57.180622
2.223 -20.96572	4.446 204.67255	4.446 965.69447	4.446 56.208825
2.2235 -25.86793	4.447 205.03964	4.447 966.5687	4.447 53.259221
2.224 -29.14777	4.448 205.79399	4.448 967.66109	4.448 48.944393
2.2245 -30.74496	4.449 206.75755	4.449 969.24256	4.449 44.240985
2.225 -30.67345	4.45 207.80711	4.45 971.26346	4.45 40.268889
2.2255 -29.01561	4.451 208.91367	4.451 973.35119	4.451 37.941608
2.226 -25.98626	4.452 210.14135	4.452 974.93492	4.452 37.705423
2.2265 -21.96365	4.453 211.60735	4.453 975.47289	4.453 39.490466
2.227 -17.39963	4.454 213.42069	4.454 974.68282	4.454 42.867504
2.2275 -12.69243	4.455 215.62491	4.455 972.70034	4.455 47.170911
2.228 -8.127742	4.456 218.16676	4.456 970.06038	4.456 51.515678
2.2285 -3.935097	4.457 220.90047	4.457 967.54031	4.457 54.777478
2.229 -0.395962	4.458 223.62337	4.458 965.90602	4.458 55.79661
2.2295 2.1213604	4.459 226.12788	4.459 965.67056	4.459 53.880866
2.23 3.2466446	4.46 228.2526	4.46 966.95828	4.46 49.336508
2.2305 2.757119	4.461 229.91821	4.461 969.51985	4.461 43.66367
2.231 0.6950708	4.462 231.14112	4.462 972.8947	4.462 39.078335
2.2315 -2.606794	4.463 232.0244	4.463 976.61647	4.463 37.556977
2.232 -6.566133	4.464 232.73018	4.464 980.30791	4.464 39.903712
2.2325 -10.42004	4.465 233.44059	4.465 983.61132	4.465 45.36084
2.233 -13.28999	4.466 234.31588	4.466 986.01786	4.466 51.985043
2.2335 -14.26725	4.467 235.45892	4.467 986.86818	4.467 57.48952
2.234 -12.55313	4.468 236.89492	4.468 985.61491	4.468 60.1744
2.2345 -7.670172	4.469 238.57217	4.469 982.22281	4.469 59.504365
2.235 0.2599763	4.47 240.38389	4.47 977.40718	4.47 56.162385
2.2355 10.340483	4.471 242.20425	4.471 972.47883	4.471 51.61873
2.236 20.976576	4.472 243.92555	4.472 968.87775	4.472 47.414373
2.2365 30.291923	4.473 245.48278	4.473 967.68189	4.473 44.549433
2.237 36.734454	4.474 246.85635	4.474 969.33955	4.474 43.266432
2.2375 39.558528	4.475 248.05388	4.475 973.68454	4.475 43.241654
2.238 38.939684	4.476 249.08105	4.476 980.11338	4.476 43.978444
2.2385 35.723453	4.477 249.9172	4.477 987.78698	4.477 45.066006
2.239 31.033433	4.478 250.50828	4.478 995.80919	4.478 46.192896
2.2395 25.924023	4.479 250.78079	4.479 1003.4061	4.479 47.034294
2.24 21.171924	4.48 250.66885	4.48 1010.0677	4.48 47.235019
2.2405 17.166884	4.481 250.13835	4.481 1015.6065	4.481 46.533506
2.241 13.913597	4.482 249.19316	4.482 1020.0514	4.482 44.950658
2.2415 11.16981	4.483 247.85755	4.483 1023.4593	4.483 42.826182
2.242 8.7114741	4.484 246.14378	4.484 1025.7396	4.484 40.707305
2.2425 6.5918906	4.485 244.02474	4.485 1026.6409	4.485 39.095627
2.243 5.2301353	4.486 241.43282	4.486 1025.9169	4.486 38.17994

2.2435	5.2521103	4.487	238.29443	4.487	1023.5791	4.487	37.687916
2.244	7.2140834	4.488	234.59133	4.488	1020.0208	4.488	36.931205
2.2445	11.319895	4.489	230.42364	4.489	1015.9059	4.489	35.085681
2.245	17.297155	4.49	226.04497	4.49	1011.8578	4.49	31.611949
2.2455	24.432902	4.491	221.84924	4.491	1008.174	4.491	26.596163
2.246	31.72616	4.492	218.3078	4.492	1004.784	4.492	20.845845
2.2465	38.085253	4.493	215.87397	4.493	1001.4842	4.493	15.619773
2.247	42.48727	4.494	214.88301	4.494	998.24208	4.494	12.153235
2.2475	44.088747	4.495	215.47502	4.495	995.30003	4.495	11.170611
2.248	42.253798	4.496	217.55921	4.496	993.02018	4.496	12.634712
2.2485	36.576289	4.497	220.8254	4.497	991.60048	4.497	15.811236
2.249	27.005523	4.498	224.79697	4.498	990.94487	4.498	19.625952
2.2495	14.081583	4.499	228.91241	4.499	990.81581	4.499	23.188879
2.25	-0.800117	4.5	232.61893	4.5	991.11117	4.5	26.221964
2.2505	-15.38485	4.501	235.46213	4.501	992.03123	4.501	29.15286
2.251	-27.02594	4.502	237.15794	4.502	993.9737	4.502	32.801091
2.2515	-33.55774	4.503	237.63638	4.503	997.21717	4.503	37.798795
2.252	-34.1962	4.504	237.05057	4.504	1001.6394	4.504	44.098036
2.2525	-29.95143	4.505	235.74843	4.505	1006.6626	4.505	50.845679
2.253	-23.25912	4.506	234.20889	4.506	1011.4732	4.506	56.660056
2.2535	-16.96581	4.507	232.95001	4.507	1015.3246	4.507	60.139907
2.254	-13.18026	4.508	232.42304	4.508	1017.7807	4.508	60.370278
2.2545	-12.57721	4.509	232.91237	4.509	1018.7753	4.509	57.229418
2.255	-14.41909	4.51	234.46442	4.51	1018.5726	4.51	51.470787
2.2555	-17.17427	4.511	236.86607	4.511	1017.6883	4.511	44.492935
2.256	-19.29632	4.512	239.68412	4.512	1016.7942	4.512	37.922582
2.2565	-19.75017	4.513	242.36274	4.513	1016.5655	4.513	33.085098
2.257	-18.0981	4.514	244.35898	4.514	1017.4669	4.514	30.574904
2.2575	-14.31474	4.515	245.28361	4.515	1019.5726	4.515	30.133238
2.258	-8.583773	4.516	245.00948	4.516	1022.5309	4.516	30.897467
2.2585	-1.25216	4.517	243.7162	4.517	1025.7239	4.517	31.895353
2.259	7.0795813	4.518	241.85674	4.518	1028.5707	4.518	32.518602
2.2595	15.540105	4.519	240.05389	4.519	1030.7797	4.519	32.730912
2.26	23.148934	4.52	238.95479	4.52	1032.4196	4.52	32.909089
2.2605	29.156413	4.521	239.08289	4.521	1033.7662	4.521	33.479915
2.261	33.292121	4.522	240.72504	4.522	1035.0598	4.522	34.574715
2.2615	35.733468	4.523	243.87866	4.523	1036.3228	4.523	35.888005
2.262	36.781839	4.524	248.26473	4.524	1037.3519	4.524	36.793546
2.2625	36.459597	4.525	253.39561	4.525	1037.8815	4.525	36.630508
2.263	34.358722	4.526	258.67602	4.526	1037.7796	4.526	35.045372
2.2635	29.864367	4.527	263.51327	4.527	1037.1462	4.527	32.227086
2.264	22.604243	4.528	267.41582	4.528	1036.2572	4.528	28.900527
2.2645	12.822329	4.529	270.06441	4.529	1035.4079	4.529	26.063622
2.265	1.4442006	4.53	271.34501	4.53	1034.8032	4.53	24.586644
2.2655	-10.15158	4.531	271.33849	4.531	1034.548	4.531	24.887976
2.266	-20.51767	4.532	270.26959	4.532	1034.7126	4.532	26.863389
2.2665	-28.47556	4.533	268.42851	4.533	1035.3484	4.533	30.038323
2.267	-33.33136	4.534	266.08775	4.534	1036.4445	4.534	33.7713
2.2675	-34.92938	4.535	263.4418	4.535	1037.8546	4.535	37.368283
2.268	-33.54304	4.536	260.59111	4.536	1039.3068	4.536	40.085446
2.2685	-29.66102	4.537	257.57572	4.537	1040.5384	4.537	41.192346

2.269 -23.79658	4.538 254.44353	4.538 1041.5104	4.538 40.211292
2.2695 -16.4208	4.539 251.32145	4.539 1042.5173	4.539 37.263191
2.27 -8.081184	4.54 248.45469	4.54 1044.0963	4.54 33.245172
2.2705 0.4704564	4.541 246.19169	4.541 1046.742	4.541 29.646807
2.271 8.3461603	4.542 244.91504	4.542 1050.5722	4.542 28.025376
2.2715 14.851572	4.543 244.94207	4.543 1055.1778	4.543 29.395246
2.272 19.864167	4.544 246.43142	4.544 1059.7931	4.544 33.83315
2.2725 23.931471	4.545 249.32945	4.545 1063.6683	4.545 40.480475
2.273 27.90822	4.546 253.37394	4.546 1066.4254	4.546 47.886207
2.2735 32.389	4.547 258.15187	4.547 1068.1901	4.547 54.496777
2.274 37.312099	4.548 263.19049	4.548 1069.4467	4.548 59.056377
2.2745 42.013736	4.549 268.05356	4.549 1070.7402	4.549 60.81322
2.275 45.672059	4.55 272.4169	4.55 1072.4107	4.55 59.541324
2.2755 47.801311	4.551 276.10651	4.551 1074.4913	4.551 55.495776
2.276 48.478008	4.552 279.09353	4.552 1076.7872	4.552 49.415413
2.2765 48.182372	4.553 281.45063	4.553 1079.0456	4.553 42.517266
2.277 47.398901	4.554 283.28316	4.554 1081.093	4.554 36.365031
2.2775 46.219962	4.555 284.65511	4.555 1082.8661	4.555 32.527871
2.278 44.175315	4.556 285.53288	4.556 1084.3703	4.556 32.116602
2.2785 40.37742	4.557 285.76772	4.557 1085.6286	4.557 35.404012
2.279 33.914958	4.558 285.12806	4.558 1086.6568	4.558 41.693665
2.2795 24.314748	4.559 283.37671	4.559 1087.4517	4.559 49.458197
2.28 11.859756	4.56 280.37151	4.56 1087.9183	4.56 56.66871
2.2805 -2.394665	4.561 276.15577	4.561 1087.8022	4.561 61.276569
2.281 -16.94185	4.562 271.00592	4.562 1086.7077	4.562 61.764262
2.2815 -30.35232	4.563 265.41556	4.563 1084.2696	4.563 57.699977
2.282 -41.77003	4.564 260.01649	4.564 1080.4528	4.564 50.06581
2.2825 -51.09283	4.565 255.45785	4.565 1075.7615	4.565 41.078017
2.283 -58.75232	4.566 252.27729	4.566 1071.2123	4.566 33.447307
2.2835 -65.1892	4.567 250.79925	4.567 1068.0052	4.567 29.322057
2.284 -70.3675	4.568 251.0848	4.568 1067.0183	4.568 29.410645
2.2845 -73.66068	4.569 252.94056	4.569 1068.3821	4.569 32.752257
2.285 -74.19382	4.57 255.97715	4.57 1071.3882	4.57 37.25275
2.2855 -71.42954	4.571 259.69595	4.571 1074.8246	4.571 40.704726
2.286 -65.60417	4.572 263.57923	4.572 1077.5219	4.572 41.800104
2.2865 -57.69359	4.573 267.16409	4.573 1078.8516	4.573 40.616299
2.287 -48.91473	4.574 270.09015	4.574 1078.8757	4.574 38.394691
2.2875 -40.09489	4.575 272.12176	4.575 1078.1276	4.575 36.835612
2.288 -31.30199	4.576 273.15155	4.576 1077.2324	4.576 37.328211
2.2885 -21.98713	4.577 273.19337	4.577 1076.6304	4.577 40.500954
2.289 -11.51463	4.578 272.36848	4.578 1076.5329	4.578 46.169701
2.2895 0.2345696	4.579 270.88456	4.579 1077.0426	4.579 53.501414
2.29 12.556371	4.58 269.00521	4.58 1078.263	4.58 61.224297
2.2905 24.067524	4.581 267.00951	4.581 1080.2862	4.581 67.821973
2.291 33.237624	4.582 265.14625	4.582 1083.0882	4.582 71.810784
2.2915 39.04555	4.583 263.59179	4.583 1086.429	4.583 72.135171
2.292 41.475435	4.584 262.42138	4.584 1089.8637	4.584 68.56283
2.2925 41.552066	4.585 261.60126	4.585 1092.8903	4.585 61.868521
2.293 40.900375	4.586 261.00296	4.586 1095.1489	4.586 53.697159
2.2935 41.015785	4.587 260.4362	4.587 1096.5199	4.587 46.124661
2.294 42.589276	4.588 259.69334	4.588 1097.0565	4.588 41.060649

2.2945	45.20777	4.589	258.59691	4.589	1096.8161	4.589	39.67674
2.295	47.537457	4.59	257.04233	4.59	1095.7574	4.59	42.044286
2.2955	47.901599	4.591	255.02801	4.591	1093.8214	4.591	47.13157
2.296	44.994921	4.592	252.66634	4.592	1091.1331	4.592	53.222223
2.2965	38.441521	4.593	250.17146	4.593	1088.1626	4.593	58.628931
2.297	28.968771	4.594	247.82427	4.594	1085.6461	4.594	62.35712
2.2975	18.124242	4.595	245.92129	4.595	1084.2978	4.595	64.39509
2.298	7.7212158	4.596	244.71924	4.596	1084.422	4.596	65.476175
2.2985	-0.702718	4.597	244.38897	4.597	1085.7116	4.597	66.493436
2.299	-6.175097	4.598	244.98962	4.598	1087.3159	4.598	67.93595
2.2995	-8.300573	4.599	246.46706	4.599	1088.2038	4.599	69.687255
2.3	-7.205524	4.6	248.67327	4.6	1087.6351	4.6	71.198893
2.3005	-3.540877	4.601	251.39745	4.601	1085.5083	4.601	71.892953
2.301	1.4726327	4.602	254.39892	4.602	1082.4038	4.602	71.518243
2.3015	6.192848	4.603	257.43478	4.603	1079.3073	4.603	70.269054
2.302	9.0079613	4.604	260.28066	4.604	1077.1845	4.604	68.648486
2.3025	8.9577909	4.605	262.74647	4.605	1076.5957	4.605	67.203661
2.303	6.1359799	4.606	264.68959	4.606	1077.5437	4.606	66.254495
2.3035	1.6099189	4.607	266.02475	4.607	1079.5426	4.607	65.757724
2.304	-3.142959	4.608	266.72674	4.608	1081.8813	4.608	65.343441
2.3045	-6.910995	4.609	266.82191	4.609	1083.938	4.609	64.480748
2.305	-9.141961	4.61	266.36847	4.61	1085.4156	4.61	62.71573
2.3055	-9.932684	4.611	265.43332	4.611	1086.4039	4.611	59.855948
2.306	-9.721094	4.612	264.07728	4.612	1087.2452	4.612	56.050385
2.3065	-8.968941	4.613	262.35958	4.613	1088.2927	4.613	51.724607
2.307	-8.032471	4.614	260.36326	4.614	1089.6899	4.614	47.40681
2.3075	-7.237366	4.615	258.23089	4.615	1091.3154	4.615	43.564819
2.308	-7.022785	4.616	256.19083	4.616	1092.9185	4.616	40.477519
2.3085	-7.96575	4.617	254.55441	4.617	1094.3348	4.617	38.223247
2.309	-10.57085	4.618	253.67443	4.618	1095.6205	4.618	36.784101
2.3095	-14.91219	4.619	253.87129	4.619	1096.9954	4.619	36.200145
2.31	-20.33051	4.62	255.34799	4.62	1098.6265	4.62	36.647658
2.3105	-25.42557	4.621	258.1209	4.621	1100.4603	4.621	38.314598
2.311	-28.38655	4.622	261.98912	4.622	1102.218	4.622	41.146022
2.3115	-27.57998	4.623	266.55189	4.623	1103.6048	4.623	44.644579
2.312	-22.128	4.624	271.26965	4.624	1104.5661	4.624	47.935496
2.3125	-12.26398	4.625	275.55332	4.625	1105.3781	4.625	50.165969
2.313	0.6631222	4.626	278.86284	4.626	1106.5079	4.626	50.904963
2.3135	14.585531	4.627	280.79703	4.627	1108.3351	4.627	50.317603
2.314	27.371106	4.628	281.1596	4.628	1110.9309	4.628	48.955514
2.3145	37.530683	4.629	279.98965	4.629	1114.0322	4.629	47.381488
2.315	44.599471	4.63	277.54926	4.63	1117.2178	4.63	45.884675
2.3155	49.030764	4.631	274.26882	4.631	1120.1023	4.631	44.460023
2.316	51.631246	4.632	270.66121	4.632	1122.439	4.632	42.952935
2.3165	52.954758	4.633	267.22629	4.633	1124.0541	4.633	41.235629
2.317	52.983161	4.634	264.37009	4.634	1124.7582	4.634	39.347047
2.3175	51.292363	4.635	262.35728	4.635	1124.342	4.635	37.529171
2.318	47.475722	4.636	261.30174	4.636	1122.6951	4.636	36.167428
2.3185	41.493931	4.637	261.18654	4.637	1119.9649	4.637	35.617112
2.319	33.73142	4.638	261.89752	4.638	1116.6068	4.638	35.994043
2.3195	24.784115	4.639	263.25648	4.639	1113.2831	4.639	37.025777

2.32	15.199872	4.64	265.04816	4.64	1110.6651	4.64	38.054406
2.3205	5.318452	4.641	267.04289	4.641	1109.254	4.641	38.22095
2.321	-4.707182	4.642	269.02011	4.642	1109.3142	4.642	36.765197
2.3215	-14.74935	4.643	270.79605	4.643	1110.874	4.643	33.348512
2.322	-24.51997	4.644	272.25323	4.644	1113.7746	4.644	28.254707
2.3225	-33.51574	4.645	273.36558	4.645	1117.6913	4.645	22.344374
2.323	-41.13904	4.646	274.21112	4.646	1122.1388	4.646	16.776968
2.3235	-46.92607	4.647	274.96583	4.647	1126.4857	4.647	12.591408
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2.325	-52.56539	4.65	279.20672	4.65	1132.9026	4.65	11.379462
2.3255	-51.04786	4.651	282.00036	4.651	1132.4522	4.651	13.391673
2.326	-48.09144	4.652	285.58817	4.652	1131.8222	4.652	15.448203
2.3265	-43.90781	4.653	289.79956	4.653	1132.1372	4.653	17.113347
2.327	-38.90834	4.654	294.30744	4.654	1134.2339	4.654	18.411644
2.3275	-33.7488	4.655	298.67213	4.655	1138.3165	4.655	19.83982
2.328	-29.23479	4.656	302.41319	4.656	1143.9139	4.656	22.163213
2.3285	-26.11696	4.657	305.09574	4.657	1150.0973	4.657	26.049658
2.329	-24.8397	4.658	306.41412	4.658	1155.796	4.658	31.692603
2.3295	-25.3434	4.659	306.25516	4.659	1160.0722	4.659	38.65501
2.33	-27.06598	4.66	304.72701	4.66	1162.3381	4.66	46.035404
2.3305	-29.15444	4.661	302.14595	4.661	1162.5406	4.661	52.888616
2.331	-30.85738	4.662	298.9822	4.662	1161.2302	4.662	58.623571
2.3315	-31.87508	4.663	295.77492	4.663	1159.4237	4.663	63.115875
2.332	-32.48766	4.664	293.03401	4.664	1158.2552	4.664	66.450341
2.3325	-33.35038	4.665	291.15033	4.665	1158.552	4.665	68.504455
2.333	-34.99715	4.666	290.33435	4.666	1160.5559	4.666	68.706632
2.3335	-37.32364	4.667	290.59637	4.667	1163.901	4.667	66.209673
2.334	-39.4166	4.668	291.77064	4.668	1167.8339	4.668	60.369726
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2.335	-37.55573	4.67	295.68024	4.67	1174.5784	4.67	40.034049
2.3355	-32.1699	4.671	297.79282	4.671	1176.8424	4.671	28.474324
2.336	-24.64434	4.672	299.69272	4.672	1178.714	4.672	18.691026
2.3365	-16.78525	4.673	301.25828	4.673	1180.6914	4.673	12.319326
2.337	-10.57386	4.674	302.45427	4.674	1183.1417	4.674	10.00866
2.3375	-7.391174	4.675	303.30011	4.675	1186.1993	4.675	11.257858
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2.3385	-9.967058	4.677	304.05871	4.677	1194.254	4.677	18.263332
2.339	-13.00474	4.678	303.96128	4.678	1199.3505	4.678	20.496605
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2.341	-1.365697	4.682	299.12293	4.682	1219.2441	4.682	8.8576533
2.3415	7.8476231	4.683	296.83329	4.683	1220.734	4.683	4.5307643
2.342	17.619302	4.684	294.45515	4.684	1220.355	4.684	1.5046508
2.3425	27.024299	4.685	292.33505	4.685	1218.6774	4.685	0.3503931
2.343	35.426046	4.686	290.84109	4.686	1216.4565	4.686	1.3386346
2.3435	42.26353	4.687	290.27313	4.687	1214.3238	4.687	4.3027124
2.344	46.887951	4.688	290.77653	4.688	1212.5721	4.688	8.4569098
2.3445	48.711106	4.689	292.28701	4.689	1211.1226	4.689	12.490836
2.345	47.579497	4.69	294.52644	4.69	1209.6626	4.69	15.066415

2.3455 44.067275	4.691 297.05412	4.691 1207.8553	4.691 15.52369
2.346 39.395498	4.692 299.36165	4.692 1205.5219	4.692 14.300308
2.3465 34.999994	4.693 300.98698	4.693 1202.7264	4.693 12.779012
2.347 32.001571	4.694 301.61839	4.694 1199.7338	4.694 12.602594
2.3475 30.882991	4.695 301.16252	4.695 1196.9064	4.695 14.948188
2.348 31.466546	4.696 299.76018	4.696 1194.5572	4.696 20.111417
2.3485 33.099102	4.697 297.74615	4.697 1192.8776	4.697 27.556085
2.349 34.925032	4.698 295.56234	4.698 1191.9271	4.698 36.192667
2.3495 36.15657	4.699 293.6445	4.699 1191.7078	4.699 44.728641
2.35 36.283731	4.7 292.31004	4.7 1192.2579	4.7 51.920351
2.3505 35.158411	4.701 291.67583	4.701 1193.6546	4.701 56.80025
2.351 32.847647	4.702 291.62884	4.702 1195.9466	4.702 58.836537
2.3515 29.417761	4.703 291.85937	4.703 1199.0245	4.703 58.017659
2.352 24.805109	4.704 291.94893	4.704 1202.5778	4.704 54.800782
2.3525 18.956437	4.705 291.48856	4.705 1206.1489	4.705 49.941983
2.353 12.113605	4.706 290.19385	4.706 1209.26	4.706 44.272896
2.3535 5.0032889	4.707 287.98478	4.707 1211.5026	4.707 38.546067
2.354 -1.310394	4.708 285.01036	4.708 1212.5518	4.708 33.408281
2.3545 -5.846902	4.709 281.61621	4.709 1212.1538	4.709 29.453421
2.355 -8.120043	4.71 278.27023	4.71 1210.1802	4.71 27.240961
2.3555 -8.260783	4.711 275.47073	4.711 1206.7917	4.711 27.180169
2.356 -6.774402	4.712 273.66142	4.712 1202.6022	4.712 29.309798
2.3565 -4.16242	4.713 273.16904	4.713 1198.6981	4.713 33.166889
2.357 -0.688835	4.714 274.16831	4.714 1196.4064	4.714 37.901999
2.3575 3.5575927	4.715 276.6707	4.715 1196.864	4.715 42.638705
2.358 8.3818369	4.716 280.53053	4.716 1200.6232	4.716 46.884247
2.3585 13.242409	4.717 285.46429	4.717 1207.4471	4.717 50.717425
2.359 17.216616	4.718 291.08217	4.718 1216.386	4.718 54.603286
2.3595 19.257762	4.719 296.93183	4.719 1226.0614	4.719 58.966526
2.36 18.609806	4.72 302.55197	4.72 1235.0152	4.72 63.753859
2.3605 15.200815	4.721 307.52955	4.721 1241.9783	4.721 68.279185
2.361 9.8039465	4.722 311.55117	4.722 1246.0167	4.722 71.464095
2.3615 3.825469	4.723 314.44017	4.723 1246.6389	4.723 72.379073
2.362 -1.263561	4.724 316.1736	4.724 1243.8815	4.724 70.705186
2.3625 -4.565901	4.725 316.87701	4.725 1238.3808	4.725 66.890151
2.363 -6.143081	4.726 316.79821	4.726 1231.3517	4.726 61.861067
2.3635 -6.859998	4.727 316.26248	4.727 1224.3381	4.727 56.547399
2.364 -7.838079	4.728 315.61392	4.728 1218.8383	4.728 51.468692
2.3645 -9.820039	4.729 315.15053	4.729 1215.8925	4.729 46.630059
2.365 -12.86783	4.73 315.06516	4.73 1215.8775	4.73 41.687399
2.3655 -16.45717	4.731 315.40685	4.731 1218.5325	4.731 36.238958
2.366 -19.82973	4.732 316.07557	4.732 1223.1377	4.732 30.092279
2.3665 -22.30511	4.733 316.8551	4.733 1228.6922	4.733 23.422421
2.367 -23.43237	4.734 317.47632	4.734 1234.046	4.734 16.787349
2.3675 -23.04466	4.735 317.6912	4.735 1238.0639	4.735 11.005171
2.368 -21.32766	4.736 317.3333	4.736 1239.8763	4.736 6.934791
2.3685 -18.90342	4.737 316.34647	4.737 1239.1318	4.737 5.2311313
2.369 -16.72875	4.738 314.77756	4.738 1236.0967	4.738 6.1745604
2.3695 -15.74927	4.739 312.74418	4.739 1231.503	4.739 9.5696975
2.37 -16.41312	4.74 310.39636	4.74 1226.2576	4.74 14.719983
2.3705 -18.39003	4.741 307.88847	4.741 1221.159	4.741 20.462694

2.371 -20.77679	4.742 305.36687	4.742 1216.7642	4.742 25.34503
2.3715 -22.64616	4.743 302.96781	4.743 1213.357	4.743 27.954998
2.372 -23.59653	4.744 300.81524	4.744 1210.9397	4.744 27.365088
2.3725 -23.86719	4.745 299.01188	4.745 1209.2383	4.745 23.486116
2.373 -24.02548	4.746 297.62492	4.746 1207.8023	4.746 17.172206
2.3735 -24.48422	4.747 296.6747	4.747 1206.2135	4.747 9.9694732
2.374 -25.20202	4.748 296.13495	4.748 1204.3116	4.748 3.6043829
2.3745 -25.74297	4.749 295.94809	4.749 1202.3121	4.749 -0.556151
2.375 -25.6192	4.75 296.05119	4.75 1200.6878	4.75 -1.868021
2.3755 -24.65205	4.751 296.40287	4.751 1199.921	4.751 -0.456554
2.376 -23.19009	4.752 297.00108	4.752 1200.3009	4.752 3.0160309
2.3765 -22.04629	4.753 297.88535	4.753 1201.8533	4.753 7.7356238
2.377 -22.20016	4.754 299.12234	4.754 1204.4134	4.754 13.037873
2.3775 -24.38104	4.755 300.77785	4.755 1207.7236	4.755 18.502576
2.378 -28.73067	4.756 302.88195	4.756 1211.4842	4.756 23.823177
2.3785 -34.69035	4.757 305.3959	4.757 1215.3811	4.757 28.569361
2.379 -41.19385	4.758 308.19093	4.758 1219.1044	4.758 32.069066
2.3795 -47.06937	4.759 311.04874	4.759 1222.3814	4.759 33.564418
2.38 -51.47164	4.76 313.68914	4.76 1225.0149	4.76 32.610158
2.3805 -54.12676	4.761 315.82324	4.761 1226.8977	4.761 29.492572
2.381 -55.25307	4.762 317.22106	4.762 1227.99	4.762 25.42951
2.3815 -55.25466	4.763 317.7762	4.763 1228.2773	4.763 22.295781
2.382 -54.37219	4.764 317.5488	4.764 1227.775	4.764 21.975733
2.3825 -52.53552	4.765 316.77397	4.765 1226.5585	4.765 25.600232
2.383 -49.53042	4.766 315.83192	4.766 1224.836	4.766 33.034049
2.3835 -45.35006	4.767 315.18589	4.767 1222.9816	4.767 42.840203
2.384 -40.5166	4.768 315.29963	4.768 1221.4705	4.768 52.767865
2.3845 -36.08597	4.769 316.5486	4.769 1220.7424	4.769 60.507845
2.385 -33.27649	4.77 319.13863	4.77 1221.0628	4.77 64.522948
2.3855 -32.85398	4.771 323.04592	4.771 1222.4691	4.771 64.554324
2.386 -34.62058	4.772 327.99202	4.772 1224.8124	4.772 61.683443
2.3865 -37.30843	4.773 333.46542	4.773 1227.8437	4.773 57.822546
2.387 -38.99804	4.774 338.79448	4.774 1231.2631	4.774 54.838713
2.3875 -37.90407	4.775 343.26467	4.775 1234.7343	4.775 53.733646
2.388 -33.15894	4.776 346.2585	4.776 1237.8787	4.776 54.308929
2.3885 -25.18223	4.777 347.38576	4.777 1240.3005	4.777 55.502188
2.389 -15.4699	4.778 346.56929	4.778 1241.6674	4.778 56.136424
2.3895 -5.939931	4.779 344.06067	4.779 1241.852	4.779 55.604107
2.39 1.8097105	4.78 340.37891	4.78 1241.0107	4.78 54.070118
2.3905 6.9553897	4.781 336.18727	4.781 1239.5671	4.781 52.168861
2.391 9.498302	4.782 332.14124	4.782 1238.0274	4.782 50.454519
2.3915 10.008529	4.783 328.74796	4.783 1236.7769	4.783 49.00764
2.392 9.2502696	4.784 326.27118	4.784 1235.9467	4.784 47.431134
2.3925 7.8324107	4.785 324.70077	4.785 1235.4322	4.785 45.205978
2.393 5.9431857	4.786 323.78668	4.786 1235.0419	4.786 42.201323
2.3935 3.2509023	4.787 323.12288	4.787 1234.6361	4.787 38.916784
2.394 -0.899216	4.788 322.25831	4.788 1234.1742	4.788 36.316407
2.3945 -7.019328	4.789 320.81118	4.789 1233.6705	4.789 35.315571
2.395 -14.94218	4.79 318.56449	4.79 1233.1448	4.79 36.258384
2.3955 -23.52317	4.791 315.52486	4.791 1232.5873	4.791 38.718422
2.396 -30.82222	4.792 311.93172	4.792 1231.9607	4.792 41.674859

2.3965 -34.70951	4.793 308.21243	4.793 1231.2027	4.793 43.918163
2.397 -33.62165	4.794 304.89138	4.794 1230.2077	4.794 44.463693
2.3975 -27.11717	4.795 302.47384	4.795 1228.8313	4.795 42.828715
2.398 -16.0327	4.796 301.33467	4.796 1226.9332	4.796 39.182458
2.3985 -2.246916	4.797 301.64121	4.797 1224.4753	4.797 34.302733
2.399 11.794447	4.798 303.32832	4.798 1221.6316	4.798 29.363368
2.3995 23.599104	4.799 306.12545	4.799 1218.8264	4.799 25.534319
2.4 31.126671	4.8 309.61946	4.8 1216.6517	4.8 23.513478
2.4005 33.261691	4.801 313.32924	4.801 1215.6969	4.801 23.248074
2.401 30.211938	4.802 316.77319	4.802 1216.3217	4.802 23.976691
2.4015 23.650925	4.803 319.52279	4.803 1218.4752	4.803 24.640461
2.402 16.386364	4.804 321.24675	4.804 1221.6467	4.804 24.469927
2.4025 11.523573	4.805 321.75305	4.805 1225.0652	4.805 23.451097
2.403 11.397284	4.806 321.02864	4.806 1228.0591	4.806 22.40239
2.4035 16.740901	4.807 319.26453	4.807 1230.3944	4.807 22.590222
2.404 26.461614	4.808 316.84762	4.808 1232.3418	4.808 25.015113
2.4045 38.106795	4.809 314.30623	4.809 1234.4168	4.809 29.800026
2.405 48.773605	4.81 312.21299	4.81 1236.9805	4.81 36.079541
2.4055 56.064038	4.811 311.06866	4.811 1239.9967	4.811 42.448729
2.406 58.767286	4.812 311.20221	4.812 1243.0937	4.812 47.714172
2.4065 57.034525	4.813 312.71879	4.813 1245.7648	4.813 51.388732
2.407 52.0814	4.814 315.50944	4.814 1247.4782	4.814 53.645927
2.4075 45.502154	4.815 319.31219	4.815 1247.5837	4.815 54.886651
2.408 38.551024	4.816 323.7957	4.816 1245.1671	4.816 55.308303
2.4085 31.727082	4.817 328.63146	4.817 1239.0617	4.817 54.817853
2.409 24.927667	4.818 333.53103	4.818 1228.1346	4.818 53.272715
2.4095 18.048952	4.819 338.24471	4.819 1211.7593	4.819 50.790923
2.41 11.59586	4.82 342.53737	4.82 1190.2386	4.82 47.847892
2.4105 6.8084792	4.821 346.16748	4.821 1164.9563	4.821 45.140995
2.411 5.131016	4.822 348.891	4.822 1138.1174	4.822 43.381599
2.4115 7.3474903	4.823 350.49734	4.823 1112.1576	4.823 43.11626
2.412 12.971897	4.824 350.8667	4.824 1089.0859	4.824 44.55098
2.4125 20.321817	4.825 350.02555	4.825 1070.0476	4.825 47.386064
2.413 27.227473	4.826 348.17632	4.826 1055.2832	4.826 50.708031
2.4135 31.967506	4.827 345.68606	4.827 1044.4256	4.827 53.172366
2.414 33.926273	4.828 343.03379	4.828 1036.8671	4.828 53.479293
2.4145 33.680423	4.829 340.72877	4.829 1031.9793	4.829 50.966645
2.415 32.537188	4.83 339.21962	4.83 1029.1551	4.83 45.955849
2.4155 31.813281	4.831 338.81526	4.831 1027.7757	4.831 39.615637
2.416 32.212381	4.832 339.63481	4.832 1027.203	4.832 33.451093
2.4165 33.637786	4.833 341.5972	4.833 1026.8267	4.833 28.684687
2.417 35.436459	4.834 344.45258	4.834 1026.1061	4.834 25.861254
2.4175 36.878097	4.835 347.84791	4.835 1024.6391	4.835 24.797118
2.418 37.525792	4.836 351.40951	4.836 1022.2554	4.836 24.830514
2.4185 37.323027	4.837 354.82048	4.837 1019.1339	4.837 25.190216
2.419 36.444272	4.838 357.87239	4.838 1015.8129	4.838 25.35506
2.4195 35.082787	4.839 360.48039	4.839 1012.9957	4.839 25.238594
2.42 33.369402	4.84 362.66361	4.84 1011.197	4.84 25.172136
2.4205 31.389458	4.841 364.50369	4.841 1010.4302	4.841 25.70182
2.421 29.227823	4.842 366.09848	4.842 1010.1974	4.842 27.309363
2.4215 26.933539	4.843 367.52505	4.843 1009.8229	4.843 30.151687

2.422 24.443752	4.844 368.81908	4.844 1008.9504	4.844 33.952892
2.4225 21.563643	4.845 369.97157	4.845 1007.8442	4.845 38.064862
2.423 18.066491	4.846 370.93948	4.846 1007.3017	4.846 41.633089
2.4235 13.882645	4.847 371.66579	4.847 1008.1996	4.847 43.778618
2.424 9.2777127	4.848 372.10373	4.848 1010.9761	4.848 43.783752
2.4245 4.8615973	4.849 372.23961	4.849 1015.363	4.849 41.302056
2.425 1.393326	4.85 372.10842	4.85 1020.51	4.85 36.55818
2.4255 -0.550163	4.851 371.7975	4.851 1025.3945	4.851 30.458383
2.426 -0.886135	4.852 371.43617	4.852 1029.2599	4.852 24.422182
2.4265 -0.165267	4.853 371.17236	4.853 1031.8346	4.853 19.937941
2.427 0.4913727	4.854 371.14079	4.854 1033.2414	4.854 17.993173
2.4275 -0.338935	4.855 371.42943	4.855 1033.7068	4.855 18.694667
2.428 -3.978986	4.856 372.05251	4.856 1033.3063	4.856 21.276175
2.4285 -11.19759	4.857 372.93801	4.857 1031.933	4.857 24.492094
2.429 -21.86921	4.858 373.9344	4.858 1029.477	4.858 27.19526
2.4295 -34.88034	4.859 374.83668	4.859 1026.072	4.859 28.75085
2.43 -48.3759	4.86 375.42558	4.86 1022.1675	4.86 29.121863
2.4305 -60.2538	4.861 375.50983	4.861 1018.382	4.861 28.648281
2.431 -68.71854	4.862 374.96102	4.862 1015.2447	4.862 27.758952
2.4315 -72.67833	4.863 373.7344	4.863 1013.0319	4.863 26.770296
2.432 -71.89005	4.864 371.8745	4.864 1011.772	4.864 25.90054
2.4325 -66.86607	4.865 369.50867	4.865 1011.3725	4.865 25.377118
2.433 -58.62916	4.866 366.83263	4.866 1011.7386	4.866 25.508108
2.4335 -48.41818	4.867 364.09044	4.867 1012.7633	4.867 26.613513
2.434 -37.48889	4.868 361.54917	4.868 1014.2194	4.868 28.873353
2.4345 -27.06449	4.869 359.46809	4.869 1015.5911	4.869 32.154379
2.435 -18.36037	4.87 358.06469	4.87 1016.022	4.87 36.01318
2.4355 -12.4864	4.871 357.4833	4.871 1014.482	4.871 39.893838
2.436 -10.14911	4.872 357.77419	4.872 1010.1419	4.872 43.418884
2.4365 -11.30625	4.873 358.89057	4.873 1002.806	4.873 46.569642
2.437 -15.06463	4.874 360.70578	4.874 993.15344	4.874 49.583953
2.4375 -20.02667	4.875 363.04715	4.875 982.62024	4.875 52.648988
2.438 -24.87427	4.876 365.73613	4.876 972.89515	4.876 55.57375
2.4385 -28.78827	4.877 368.62181	4.877 965.21576	4.877 57.700683
2.439 -31.39637	4.878 371.59639	4.878 959.77558	4.878 58.108368
2.4395 -32.34668	4.879 374.5881	4.879 955.52028	4.879 56.024081
2.44 -30.92236	4.88 377.53666	4.88 950.43024	4.88 51.244078
2.4405 -26.06301	4.881 380.36452	4.881 942.21655	4.881 44.333424
2.441 -16.8332	4.882 382.95974	4.882 929.13457	4.882 36.508901
2.4415 -3.037865	4.883 385.18098	4.883 910.63891	4.883 29.270175
2.442 14.397594	4.884 386.8842	4.884 887.61855	4.884 23.970208
2.4425 33.530799	4.885 387.95912	4.885 862.13619	4.885 21.498759
2.443 51.904842	4.886 388.35884	4.886 836.76762	4.886 22.147546
2.4435 67.226229	4.887 388.10944	4.887 813.80035	4.887 25.620975
2.444 77.918184	4.888 387.29751	4.888 794.62345	4.888 31.135204
2.4445 83.393999	4.889 386.0439	4.889 779.56346	4.889 37.570257
2.445 84.002901	4.89 384.47691	4.89 768.09417	4.89 43.724563
2.4455 80.763529	4.891 382.71472	4.891 759.23099	4.891 48.637392
2.446 74.991254	4.892 380.85882	4.892 751.86057	4.892 51.849711
2.4465 67.961741	4.893 378.99352	4.893 744.94696	4.893 53.484128
2.447 60.672984	4.894 377.18565	4.894 737.74289	4.894 54.118652

2.4475 53.727795	4.895 375.48286	4.895 730.00837	4.895 54.456988
2.448 47.346734	4.896 373.91438	4.896 722.11453	4.896 54.999322
2.4485 41.509021	4.897 372.49924	4.897 714.90866	4.897 55.822118
2.449 36.161686	4.898 371.26248	4.898 709.27022	4.898 56.582833
2.4495 31.411868	4.899 370.25297	4.899 705.60679	4.899 56.787295
2.45 27.596898	4.9 369.55163	4.9 703.59067	4.9 56.151658
2.4505 25.177636	4.901 369.26153	4.901 702.34083	4.901 54.904579
2.451 24.496581	4.902 369.4792	4.902 700.94932	4.902 53.809192
2.4515 25.515441	4.903 370.25722	4.903 699.0212	4.903 53.896615
2.452 27.669445	4.904 371.57403	4.904 696.8877	4.904 56.015804
2.4525 29.927605	4.905 373.32477	4.905 695.38755	4.905 60.409196
2.453 31.090952	4.906 375.33748	4.906 695.35139	4.906 66.546339
2.4535 30.23918	4.907 377.40699	4.907 697.11534	4.907 73.242088
2.454 27.129038	4.908 379.33055	4.908 700.27687	4.908 79.028713
2.4545 22.302553	4.909 380.93015	4.909 703.79461	4.909 82.624965
2.455 16.771821	4.91 382.05561	4.91 706.35092	4.91 83.322688
2.4555 11.427478	4.911 382.57481	4.911 706.83153	4.911 81.151393
2.456 6.4910939	4.912 382.36642	4.912 704.74981	4.912 76.723725
2.4565 1.3682496	4.913 381.33065	4.913 700.4328	4.913 70.895604
2.457 -4.9805	4.914 379.42405	4.914 694.86704	4.914 64.406604
2.4575 -13.35243	4.915 376.71032	4.915 689.28508	4.915 57.679299
2.458 -23.69177	4.916 373.40637	4.916 684.66959	4.916 50.891662
2.4585 -34.8821	4.917 369.89858	4.917 681.42273	4.917 44.216155
2.459 -45.05727	4.918 366.71086	4.918 679.33912	4.918 38.068436
2.4595 -52.3051	4.919 364.42233	4.919 677.78236	4.919 33.191219
2.46 -55.4322	4.92 363.55177	4.92 675.94431	4.92 30.50989
2.4605 -54.42092	4.921 364.44079	4.921 673.0431	4.921 30.846293
2.461 -50.34361	4.922 367.17038	4.922 668.37959	4.922 34.652501
2.4615 -44.77332	4.923 371.53561	4.923 661.35864	4.923 41.833136
2.462 -39.02434	4.924 377.08394	4.924 651.52102	4.924 51.703265
2.4625 -33.663	4.925 383.20334	4.925 638.6041	4.925 63.054698
2.463 -28.53498	4.926 389.23417	4.926 622.62993	4.926 74.32522
2.4635 -23.2421	4.927 394.57743	4.927 603.95093	4.927 83.841621
2.464 -17.69689	4.928 398.77919	4.928 583.22791	4.928 90.119434
2.4645 -12.37064	4.929 401.58087	4.929 561.36326	4.929 92.159472
2.465 -8.058381	4.93 402.93296	4.93 539.4235	4.93 89.722741
2.4655 -5.332134	4.931 402.97502	4.931 518.56685	4.931 83.4411
2.466 -4.089221	4.932 401.98727	4.932 499.93009	4.932 74.776189
2.4665 -3.542673	4.933 400.3232	4.933 484.4375	4.933 65.751434
2.467 -2.684937	4.934 398.337	4.934 472.55428	4.934 58.508703
2.4675 -0.976003	4.935 396.32279	4.935 464.06941	4.935 54.787597
2.468 1.2159102	4.936 394.48099	4.936 458.11929	4.936 55.443154
2.4685 2.714086	4.937 392.91971	4.937 453.50045	4.937 60.226486
2.469 2.1603126	4.938 391.68653	4.938 449.18512	4.938 67.850781
2.4695 -1.213654	4.939 390.81487	4.939 444.70372	4.939 76.395614
2.47 -7.076191	4.94 390.36322	4.94 440.10945	4.94 83.872188
2.4705 -14.03464	4.941 390.42908	4.941 435.60238	4.941 88.747575
2.471 -20.15866	4.942 391.13033	4.942 431.17442	4.942 90.291512
2.4715 -23.73391	4.943 392.56044	4.943 426.58387	4.943 88.625313
2.472 -23.88367	4.944 394.73506	4.944 421.66539	4.944 84.545721
2.4725 -20.83523	4.945 397.55131	4.945 416.61013	4.945 79.20788

2.473 -15.76736	4.946 400.7768	4.946 411.90539	4.946 73.800463
2.4735 -10.32734	4.947 404.07506	4.947 407.99288	4.947 69.314323
2.474 -6.065055	4.948 407.06152	4.948 404.94882	4.948 66.448103
2.4745 -3.993013	4.949 409.37393	4.949 402.51575	4.949 65.54483
2.475 -4.397274	4.95 410.7364	4.95 400.45118	4.95 66.53521
2.4755 -6.904715	4.951 410.99946	4.951 398.87188	4.951 68.903781
2.476 -10.71969	4.952 410.14737	4.952 398.33713	4.952 71.826113
2.4765 -14.93602	4.953 408.27611	4.953 399.56584	4.953 74.462877
2.477 -18.80961	4.954 405.55504	4.954 402.96928	4.954 76.310044
2.4775 -21.90237	4.955 402.18977	4.955 408.28088	4.955 77.320464
2.478 -24.03138	4.956 398.4	4.956 414.49011	4.956 77.739148
2.4785 -25.08777	4.957 394.41711	4.957 420.12213	4.957 77.792894
2.479 -24.85505	4.958 390.49539	4.958 423.72699	4.958 77.492633
2.4795 -22.95862	4.959 386.92322	4.959 424.32355	4.959 76.698928
2.48 -18.95521	4.96 384.01914	4.96 421.64054	4.96 75.353386
2.4805 -12.49405	4.961 382.10387	4.961 416.06792	4.961 73.667866
2.481 -3.46808	4.962 381.45011	4.962 408.44918	4.962 72.056806
2.4815 7.8668017	4.963 382.22268	4.963 399.78459	4.963 70.920867
2.482 20.812869	4.964 384.42781	4.964 390.96338	4.964 70.414189
2.4825 34.200325	4.965 387.88925	4.965 382.55933	4.965 70.407538
2.483 46.503902	4.966 392.26056	4.966 374.67719	4.966 70.647286
2.4835 56.131164	4.967 397.0711	4.967 366.91609	4.967 71.010892
2.484 61.817723	4.968 401.79302	4.968 358.51517	4.968 71.628562
2.4845 62.951081	4.969 405.91188	4.969 348.6722	4.969 72.811427
2.485 59.69778	4.97 408.98624	4.97 336.91541	4.97 74.816435
2.4855 52.914379	4.971 410.68904	4.971 323.34957	4.971 77.633614
2.486 43.920167	4.972 410.83285	4.972 308.63946	4.972 80.9482
2.4865 34.262978	4.973 409.38545	4.973 293.81537	4.973 84.263492
2.487 25.512382	4.974 406.48154	4.974 279.97408	4.974 87.037802
2.4875 19.058087	4.975 402.42933	4.975 268.02245	4.975 88.718542
2.488 15.894295	4.976 397.70331	4.976 258.49507	4.976 88.696292
2.4885 16.388634	4.977 392.91021	4.977 251.51831	4.977 86.327069
2.489 20.134861	4.978 388.71974	4.978 246.94097	4.978 81.145258
2.4895 25.985342	4.979 385.76275	4.979 244.56935	4.979 73.162286
2.49 32.359572	4.98 384.51499	4.98 244.32581	4.98 63.101385
2.4905 37.739649	4.981 385.19551	4.981 246.20718	4.981 52.367213
2.491 41.168199	4.982 387.71059	4.982 250.03457	4.982 42.710107
2.4915 42.506037	4.983 391.66396	4.983 255.22129	4.983 35.759357
2.492 42.305009	4.984 396.43536	4.984 260.79675	4.984 32.574385
2.4925 41.416341	4.985 401.30897	4.985 265.71968	4.985 33.360934
2.493 40.563026	4.986 405.61957	4.986 269.26808	4.986 37.448979
2.4935 40.147128	4.987 408.88075	4.987 271.22795	4.987 43.494317
2.494 40.357344	4.988 410.86691	4.988 271.79892	4.988 49.840242
2.4945 41.43729	4.989 411.63508	4.989 271.33108	4.989 54.985146
2.495 43.852386	4.99 411.48738	4.99 270.11726	4.99 58.043693
2.4955 48.198023	4.991 410.88744	4.991 268.33143	4.991 59.003249
2.496 54.864119	4.992 410.35202	4.992 266.05565	4.992 58.658028
2.4965 63.649768	4.993 410.34141	4.993 263.27585	4.993 58.212745
2.497 73.587461	4.994 411.17109	4.994 259.86182	4.994 58.70244
2.4975 83.130997	4.995 412.96036	4.995 255.56722	4.995 60.553146
2.498 90.687591	4.996 415.62424	4.996 250.1167	4.996 63.466907

2.4985 95.263563	4.997 418.90475	4.997 243.36455	4.997 66.642941
2.499 96.866627	4.998 422.4292	4.998 235.42111	4.998 69.19567
2.4995 96.430359	4.999 425.78029	4.999 226.75204	4.999 70.54691
2.5 95.245683	5 428.56424	5 218.16432	5 70.644361
2.5005 94.186756	5.001 430.46695	5.001 210.67042	5.001 69.954969
2.501 93.191375	5.002 431.29316	5.002 205.19017	5.002 69.242887
2.5015 91.251297	5.003 430.98542	5.003 202.20537	5.003 69.205415
2.502 86.94536	5.004 429.62174	5.004 201.5006	5.004 70.160307
2.5025 79.163523	5.005 427.39222	5.005 202.19049	5.005 71.894624
2.503 67.705505	5.006 424.55777	5.006 203.05344	5.006 73.738081
2.5035 53.46293	5.007 421.39823	5.007 203.00493	5.007 74.78769
2.504 38.142696	5.008 418.16116	5.008 201.44847	5.008 74.202204
2.5045 23.701033	5.009 415.02412	5.009 198.32135	5.009 71.526897
2.505 11.703043	5.01 412.08143	5.01 193.88256	5.01 66.956381
2.5055 2.8665319	5.011 409.36047	5.011 188.4563	5.011 61.407488
2.506 -3.097951	5.012 406.86323	5.012 182.33391	5.012 56.329303
2.5065 -7.292188	5.013 404.61962	5.013 175.93301	5.013 53.269107
2.507 -11.16231	5.014 402.73244	5.014 169.97233	5.014 53.369058
2.5075 -15.84699	5.015 401.3937	5.015 165.4531	5.015 56.999978
2.508 -21.62565	5.016 400.8596	5.016 163.31796	5.016 63.682645
2.5085 -27.72203	5.017 401.38591	5.017 163.96371	5.017 72.259846
2.509 -32.65409	5.018 403.14168	5.018 166.93536	5.018 81.234057
2.5095 -35.00029	5.019 406.13076	5.019 171.00721	5.019 89.128313
2.51 -34.1715	5.02 410.15215	5.02 174.62691	5.02 94.803485
2.5105 -30.74004	5.021 414.81783	5.021 176.43938	5.021 97.659992
2.511 -26.15739	5.022 419.62651	5.022 175.67233	5.022 97.701973
2.5115 -22.03626	5.023 424.06936	5.023 172.27331	5.023 95.402301
2.512 -19.42931	5.024 427.73185	5.024 166.82804	5.024 91.462217
2.5125 -18.44836	5.025 430.35856	5.025 160.34199	5.025 86.533859
2.513 -18.38077	5.026 431.86568	5.026 153.93467	5.026 81.045893
2.5135 -18.19348	5.027 432.30924	5.027 148.50973	5.027 75.207557
2.514 -17.09311	5.028 431.83499	5.028 144.45877	5.028 69.168739
2.5145 -14.88726	5.029 430.63797	5.029 141.55146	5.029 63.204867
2.515 -11.9718	5.03 428.94718	5.03 139.07503	5.03 57.8082
2.5155 -9.041864	5.031 427.02973	5.031 136.15489	5.031 53.608279
2.516 -6.695754	5.032 425.19312	5.032 132.15969	5.032 51.174521
2.5165 -5.13173	5.033 423.76272	5.033 126.95468	5.033 50.820506
2.517 -4.052014	5.034 423.02611	5.034 120.93181	5.034 52.480465
2.5175 -2.774808	5.035 423.15722	5.035 114.80159	5.035 55.720982
2.518 -0.478303	5.036 424.15088	5.036 109.26678	5.036 59.837898
2.5185 3.5046303	5.037 425.79987	5.037 104.72968	5.037 64.026192
2.519 9.3747429	5.038 427.73272	5.038 101.16893	5.038 67.549419
2.5195 16.651475	5.039 429.50633	5.039 98.273495	5.039 69.895719
2.52 24.130754	5.04 430.72575	5.04 95.74756	5.04 70.855679
2.5205 30.112356	5.041 431.15288	5.041 93.627648	5.041 70.502344
2.521 32.886262	5.042 430.77027	5.042 92.409056	5.042 69.129285
2.5215 31.337217	5.043 429.7814	5.043 92.846932	5.043 67.163923
2.522 25.416787	5.044 428.54837	5.044 95.526434	5.044 65.111665
2.5225 16.240124	5.045 427.48524	5.045 100.41765	5.045 63.477437
2.523 5.7244399	5.046 426.93617	5.046 106.75801	5.046 62.626185
2.5235 -4.065719	5.047 427.07269	5.047 113.32529	5.047 62.657661

2.524	-11.54996	5.048	427.84149	5.048	119.00754	5.048	63.349337
2.5245	-15.99161	5.049	428.98288	5.049	123.27749	5.049	64.277836
2.525	-17.46355	5.05	430.12072	5.05	126.29939	5.05	65.022103
2.5255	-16.57957	5.051	430.89885	5.051	128.60271	5.051	65.348816
2.526	-14.15069	5.052	431.11849	5.052	130.56588	5.052	65.257802
2.5265	-10.95677	5.053	430.82319	5.053	132.07965	5.053	64.882868
2.527	-7.656102	5.054	430.29313	5.054	132.62012	5.054	64.336235
2.5275	-4.832281	5.055	429.94321	5.055	131.62494	5.055	63.621636
2.528	-3.084749	5.056	430.15938	5.056	128.88968	5.056	62.711887
2.5285	-3.095662	5.057	431.13526	5.057	124.6935	5.057	61.694974
2.529	-5.54886	5.058	432.77456	5.058	119.66518	5.058	60.909061
2.5295	-10.86211	5.059	434.70055	5.059	114.51913	5.059	60.905431
2.53	-18.82389	5.06	436.37303	5.06	109.86684	5.06	62.244727
2.5305	-28.35672	5.061	437.27189	5.061	106.16544	5.061	65.244389
2.531	-37.66224	5.062	437.08182	5.062	103.70504	5.062	69.841949
2.5315	-44.77542	5.063	435.8136	5.063	102.60894	5.063	75.648646
2.532	-48.34415	5.064	433.82125	5.064	102.83857	5.064	82.126365
2.5325	-48.20388	5.065	431.71206	5.065	104.20268	5.065	88.739714
2.533	-45.39898	5.066	430.18206	5.066	106.40452	5.066	94.989661
2.5335	-41.61387	5.067	429.83093	5.067	109.07159	5.067	100.36097
2.534	-38.33391	5.068	431.01222	5.068	111.82828	5.068	104.30095
2.5345	-36.21495	5.069	433.75736	5.069	114.416	5.069	106.28603
2.535	-34.96701	5.07	437.78644	5.07	116.87309	5.07	105.97014
2.5355	-33.69865	5.071	442.59322	5.071	119.57381	5.071	103.35082
2.536	-31.44402	5.072	447.57443	5.072	123.09751	5.072	98.85858
2.5365	-27.56122	5.073	452.16732	5.073	127.92452	5.073	93.369419
2.537	-21.88185	5.074	455.96181	5.074	134.19782	5.074	88.006911
2.5375	-14.73647	5.075	458.76358	5.075	141.66498	5.075	83.832104
2.538	-6.925724	5.076	460.59835	5.076	149.80726	5.076	81.491546
2.5385	0.3301936	5.077	461.66351	5.077	158.02058	5.077	80.99455
2.539	5.5819918	5.078	462.24754	5.078	165.70177	5.078	81.73391
2.5395	7.5201212	5.079	462.6448	5.079	172.26511	5.079	82.727506
2.54	5.4772426	5.08	463.09079	5.08	177.20135	5.08	82.980193
2.5405	-0.153733	5.081	463.73116	5.081	180.18342	5.081	81.85612
2.541	-7.834709	5.082	464.62207	5.082	181.16676	5.082	79.350466
2.5415	-15.26979	5.083	465.7478	5.083	180.37398	5.083	76.106734
2.542	-20.19801	5.084	467.03895	5.084	178.17765	5.084	73.164784
2.5425	-21.26665	5.085	468.3811	5.085	174.98295	5.085	71.483995
2.543	-18.60286	5.086	469.61494	5.086	171.19547	5.086	71.467575
2.5435	-13.74272	5.087	470.53757	5.087	167.26995	5.087	72.7308
2.544	-8.936145	5.088	470.91657	5.088	163.69916	5.088	74.26322
2.5445	-6.13207	5.089	470.52343	5.089	160.86716	5.089	74.906973
2.545	-6.178813	5.09	469.18408	5.09	158.82605	5.09	73.926327
2.5455	-8.619872	5.091	466.83563	5.091	157.13373	5.091	71.350338
2.546	-12.13385	5.092	463.57341	5.092	154.9926	5.092	67.929743
2.5465	-15.29232	5.093	459.67267	5.093	151.64531	5.093	64.767369
2.547	-17.15971	5.094	455.57376	5.094	146.87171	5.094	62.800671
2.5475	-17.51227	5.095	451.82794	5.095	141.23783	5.095	62.446141
2.548	-16.65709	5.096	449.00994	5.096	135.94638	5.096	63.52544
2.5485	-15.06998	5.097	447.61269	5.097	132.33579	5.097	65.451851
2.549	-13.10015	5.098	447.94533	5.098	131.34693	5.098	67.520775

2.5495	-10.85241	5.099	450.05821	5.099	133.17146	5.099	69.143364
2.55	-8.24386	5.1	453.71488	5.1	137.24176	5.1	69.981885
2.5505	-5.167681	5.101	458.42241	5.101	142.45749	5.101	69.968725
2.551	-1.661942	5.102	463.51782	5.102	147.53497	5.102	69.303683
2.5515	1.9974341	5.103	468.29402	5.103	151.37099	5.103	68.384455
2.552	5.3317875	5.104	472.13693	5.104	153.30988	5.104	67.710169
2.5525	7.7462082	5.105	474.64132	5.105	153.25985	5.105	67.721762
2.553	8.6361128	5.106	475.6774	5.106	151.62267	5.106	68.632461
2.5535	7.4898857	5.107	475.39318	5.107	149.04124	5.107	70.341801
2.554	4.0131004	5.108	474.1545	5.108	146.1301	5.108	72.516995
2.5545	-1.70498	5.109	472.44057	5.109	143.30294	5.109	74.794879
2.555	-9.072385	5.11	470.72371	5.11	140.7716	5.11	76.953571
2.5555	-17.03965	5.111	469.36405	5.111	138.63733	5.111	78.906624
2.556	-24.38693	5.112	468.54399	5.112	136.9482	5.112	80.553712
2.5565	-30.16827	5.113	468.25482	5.113	135.6709	5.113	81.669437
2.557	-34.07248	5.114	468.33298	5.114	134.6879	5.114	81.972185
2.5575	-36.47462	5.115	468.53095	5.115	133.84843	5.115	81.335858
2.558	-38.1363	5.116	468.60058	5.116	133.11731	5.116	79.969057
2.5585	-39.73228	5.117	468.36641	5.117	132.65689	5.117	78.377941
2.559	-41.47667	5.118	467.77158	5.118	132.76548	5.118	77.130995
2.5595	-43.06749	5.119	466.88783	5.119	133.67116	5.119	76.604765
2.56	-43.88819	5.12	465.89053	5.12	135.41864	5.12	76.850111
2.5605	-43.39123	5.121	465.00836	5.121	137.95137	5.121	77.630543
2.561	-41.41087	5.122	464.4635	5.122	141.27225	5.122	78.573115
2.5615	-38.29966	5.123	464.42036	5.123	145.47124	5.123	79.325147
2.562	-34.78155	5.124	464.95755	5.124	150.52202	5.124	79.710977
2.5625	-31.59606	5.125	466.06941	5.125	155.99257	5.125	79.773615
2.563	-29.10319	5.126	467.69194	5.126	160.96851	5.126	79.726307
2.5635	-27.08068	5.127	469.73798	5.127	164.30832	5.127	79.800104
2.564	-24.86555	5.128	472.12338	5.128	165.0727	5.128	80.117727
2.5645	-21.78545	5.129	474.7712	5.129	162.90013	5.129	80.654761
2.565	-17.6169	5.13	477.59405	5.13	158.15857	5.13	81.307187
2.5655	-12.81096	5.131	480.46747	5.131	151.84741	5.131	81.988494
2.566	-8.335229	5.132	483.21458	5.132	145.28715	5.132	82.66149
2.5665	-5.25321	5.133	485.6181	5.133	139.68159	5.133	83.262928
2.567	-4.247281	5.134	487.46236	5.134	135.72035	5.134	83.611614
2.5675	-5.330941	5.135	488.59188	5.135	133.43443	5.135	83.361164
2.568	-7.868932	5.136	488.96275	5.136	132.42103	5.136	82.1139
2.5685	-10.83896	5.137	488.66394	5.137	132.29228	5.137	79.660061
2.569	-13.13923	5.138	487.89788	5.138	133.02114	5.138	76.258375
2.5695	-13.78735	5.139	486.92684	5.139	134.93003	5.139	72.775095
2.57	-11.99327	5.14	486.00541	5.14	138.38341	5.14	70.529504
2.5705	-7.246061	5.141	485.32336	5.141	143.37958	5.141	70.856782
2.571	0.4815926	5.142	484.97639	5.142	149.34117	5.142	74.527525
2.5715	10.455253	5.143	484.96862	5.143	155.25096	5.143	81.308858
2.572	21.075813	5.144	485.23709	5.144	160.01998	5.144	89.85454
2.5725	30.111469	5.145	485.68127	5.145	162.87612	5.145	98.019245
2.573	35.296196	5.146	486.1822	5.146	163.58254	5.146	103.51941
2.5735	35.026399	5.147	486.6048	5.147	162.4097	5.147	104.69226
2.574	28.88905	5.148	486.78814	5.148	159.93554	5.148	101.07178
2.5745	17.781693	5.149	486.53735	5.149	156.8304	5.149	93.529801

2.575 3.6461592	5.15 485.6326	5.15 153.74679	5.15 83.976354
2.5755 -11.05862	5.151 483.86476	5.151 151.28245	5.151 74.73027
2.576 -23.95965	5.152 481.09659	5.152 149.90879	5.152 67.846907
2.5765 -33.2668	5.153 477.33575	5.153 149.85303	5.153 64.624983
2.577 -38.08207	5.154 472.79677	5.154 150.9528	5.154 65.384845
2.5775 -38.43722	5.155 467.92677	5.155 152.60395	5.155 69.514963
2.578 -35.08604	5.156 463.37561	5.156 153.85917	5.156 75.719533
2.5785 -29.12452	5.157 459.90513	5.157 153.69614	5.157 82.448531
2.579 -21.61321	5.158 458.25028	5.158 151.41203	5.158 88.38244
2.5795 -13.38184	5.159 458.96233	5.159 147.05048	5.159 92.806271
2.58 -5.058449	5.16 462.27404	5.16 141.63632	5.16 95.754091
2.5805 2.8284022	5.161 468.02385	5.161 136.96374	5.161 97.857877
2.581 9.7826883	5.162 475.66154	5.162 134.90207	5.162 99.994877
2.5815 15.385067	5.163 484.3353	5.163 136.49219	5.163 102.89926
2.582 19.385815	5.164 493.03861	5.164 141.33736	5.164 106.8743
2.5825 21.777771	5.165 500.78233	5.165 147.69825	5.165 111.7
2.583 22.806539	5.166 506.75522	5.166 153.3073	5.166 116.72026
2.5835 22.917633	5.167 510.44355	5.167 156.43945	5.167 121.07621
2.584 22.636627	5.168 511.69238	5.168 156.66198	5.168 123.9621
2.5845 22.401814	5.169 510.703	5.169 154.93544	5.169 124.85828
2.585 22.435181	5.17 507.97101	5.17 153.03678	5.17 123.65856
2.5855 22.732632	5.171 504.1783	5.171 152.66759	5.171 120.64057
2.586 23.207398	5.172 500.05902	5.172 154.67965	5.172 116.36247
2.5865 23.843112	5.173 496.2655	5.173 158.70078	5.173 111.48397
2.587 24.697785	5.174 493.2615	5.174 163.31521	5.174 106.63077
2.5875 25.701695	5.175 491.2655	5.175 166.60805	5.175 102.27996
2.588 26.374509	5.176 490.25578	5.176 166.86341	5.176 98.716324
2.5885 25.730504	5.177 490.03218	5.177 163.12965	5.177 96.024627
2.589 22.52101	5.178 490.31353	5.178 155.51082	5.178 94.189105
2.5895 15.783179	5.179 490.83858	5.179 145.14461	5.179 93.241531
2.59 5.4180835	5.18 491.43874	5.18 133.86902	5.18 93.370335
2.5905 -7.492425	5.181 492.06265	5.181 123.68997	5.181 94.890269
2.591 -20.83373	5.182 492.75206	5.182 116.20929	5.182 98.063082
2.5915 -32.01665	5.183 493.58794	5.183 112.1872	5.183 102.8801
2.592 -38.71352	5.184 494.63496	5.184 111.47629	5.184 108.92929
2.5925 -39.49724	5.185 495.90927	5.185 113.26128	5.185 115.42817
2.593 -34.24363	5.186 497.37964	5.186 116.49973	5.186 121.37518
2.5935 -24.18296	5.187 498.9935	5.187 120.27597	5.187 125.79226
2.594 -11.62866	5.188 500.70743	5.188 123.94641	5.188 127.93974
2.5945 0.5787783	5.189 502.50113	5.189 127.06045	5.189 127.48915
2.595 9.7785428	5.19 504.36432	5.19 129.1933	5.19 124.61959
2.5955 14.122095	5.191 506.26246	5.191 129.89517	5.191 119.97251
2.596 12.971006	5.192 508.1001	5.192 128.87992	5.192 114.4876
2.5965 6.9742988	5.193 509.70474	5.193 126.34437	5.193 109.12166
2.597 -2.13737	5.194 510.84727	5.194 123.17796	5.194 104.57945
2.5975 -12.0004	5.195 511.29995	5.195 120.80938	5.195 101.16062
2.598 -20.25762	5.196 510.91632	5.196 120.69587	5.196 98.848234
2.5985 -25.26011	5.197 509.70611	5.197 123.72348	5.197 97.494251
2.599 -26.56833	5.198 507.87627	5.198 129.87216	5.198 97.004039
2.5995 -25.03394	5.199 505.8185	5.199 138.2782	5.199 97.310833
2.6 -22.34343	5.2 504.03967	5.2 147.59687	5.2 98.245635

2.6005 -20.21507	5.201 503.05003	5.201 156.38572	5.201 99.405781
2.601 -19.66109	5.202 503.23805	5.202 163.37925	5.202 100.22867
2.6015 -20.66074	5.203 504.76633	5.203 167.67206	5.203 100.18621
2.602 -22.40953	5.204 507.51794	5.204 168.9077	5.204 99.028874
2.6025 -23.94387	5.205 511.10926	5.205 167.46248	5.205 96.87305
2.603 -24.72751	5.206 514.96668	5.206 164.39692	5.206 94.139503
2.6035 -24.86736	5.207 518.44695	5.207 161.12264	5.207 91.351001
2.604 -24.8866	5.208 520.97033	5.208 158.91437	5.208 88.980402
2.6045 -25.29177	5.209 522.1338	5.209 158.49482	5.209 87.393833
2.605 -26.24249	5.21 521.78057	5.21 159.92025	5.21 86.877243
2.6055 -27.50294	5.211 520.0154	5.211 162.67733	5.211 87.674699
2.606 -28.64515	5.212 517.16983	5.212 165.89039	5.212 89.917415
2.6065 -29.34583	5.213 513.73109	5.213 168.55442	5.213 93.496029
2.607 -29.61257	5.214 510.25275	5.214 169.84434	5.214 97.921167
2.6075 -29.80354	5.215 507.26437	5.215 169.45242	5.215 102.29188
2.608 -30.40703	5.216 505.19429	5.216 167.7908	5.216 105.4685
2.6085 -31.73133	5.217 504.3158	5.217 165.82657	5.217 106.44554
2.609 -33.66811	5.218 504.72295	5.218 164.60467	5.218 104.82217
2.6095 -35.75745	5.219 506.33739	5.219 164.66988	5.219 101.14785
2.61 -37.47959	5.22 508.94224	5.22 165.78693	5.22 96.866918
2.6105 -38.55975	5.221 512.23375	5.221 167.11442	5.221 93.808254
2.611 -39.05081	5.222 515.87839	5.222 167.69028	5.222 93.421502
2.6115 -39.15677	5.223 519.56347	5.223 166.92207	5.223 96.16725
2.612 -38.96627	5.224 523.03317	5.224 164.78552	5.224 101.38115
2.6125 -38.3735	5.225 526.10663	5.225 161.73155	5.225 107.6501
2.613 -37.21384	5.226 528.67979	5.226 158.43499	5.226 113.51789
2.6135 -35.49702	5.227 530.71501	5.227 155.56024	5.227 118.03643
2.614 -33.50274	5.228 532.22371	5.228 153.59077	5.228 120.94812
2.6145 -31.63625	5.229 533.24718	5.229 152.77977	5.229 122.4153
2.615 -30.12453	5.23 533.83985	5.23 153.21972	5.23 122.62546
2.6155 -28.79486	5.231 534.05841	5.231 155.02089	5.231 121.55501
2.616 -27.06939	5.232 533.95758	5.232 158.3837	5.232 119.12277
2.6165 -24.18318	5.233 533.59116	5.233 163.46662	5.233 115.52844
2.617 -19.47413	5.234 533.01538	5.234 170.03726	5.234 111.53221
2.6175 -12.60484	5.235 532.2916	5.235 177.19692	5.235 108.3641
2.618 -3.656488	5.236 531.48676	5.236 183.45489	5.236 107.30234
2.6185 6.9014856	5.237 530.6712	5.237 187.2414	5.237 109.14213
2.619 18.352989	5.238 529.91363	5.238 187.53845	5.238 113.83045
2.6195 29.96504	5.239 529.27247	5.239 184.22615	5.239 120.45225
2.62 41.181927	5.24 528.78281	5.24 177.94534	5.24 127.5247
2.6205 51.664644	5.241 528.44002	5.241 169.67812	5.241 133.48835
2.621 61.149865	5.242 528.18479	5.242 160.39726	5.242 137.16154
2.6215 69.203065	5.243 527.8972	5.243 150.97873	5.243 138.03026
2.622 75.113848	5.244 527.4078	5.244 142.34353	5.244 136.24111
2.6225 78.006101	5.245 526.52989	5.245 135.56172	5.245 132.39918
2.623 77.177476	5.246 525.11004	5.246 131.69069	5.246 127.24683
2.6235 72.465815	5.247 523.08637	5.247 131.40996	5.247 121.47323
2.624 64.447794	5.248 520.53856	5.248 134.67156	5.248 115.67293
2.6245 54.353809	5.249 517.71245	5.249 140.62404	5.249 110.43922
2.625 43.773826	5.25 515.0062	5.25 147.87157	5.25 106.38496
2.6255 34.288182	5.251 512.91427	5.251 154.92331	5.251 103.99745

2.626 27.214715	5.252 511.9373	5.252 160.59585	5.252 103.44319
2.6265 23.487136	5.253 512.47755	5.253 164.25506	5.253 104.45751
2.627 23.606587	5.254 514.74622	5.254 165.84658	5.254 106.42296
2.6275 27.544763	5.255 518.70791	5.255 165.82667	5.255 108.57497
2.628 34.651731	5.256 524.0773	5.256 165.02961	5.256 110.22753
2.6285 43.677088	5.257 530.36852	5.257 164.47009	5.257 110.9249
2.629 53.03374	5.258 536.98282	5.258 165.04124	5.258 110.55692
2.6295 61.216133	5.259 543.31263	5.259 167.20504	5.259 109.3775
2.63 67.183673	5.26 548.83926	5.26 170.77533	5.26 107.94693
2.6305 70.492738	5.261 553.20764	5.261 174.94463	5.261 106.90112
2.631 71.153486	5.262 556.26808	5.262 178.54817	5.262 106.63972
2.6315 69.385673	5.263 558.08022	5.263 180.45732	5.263 107.11973
2.632 65.455999	5.264 558.87761	5.264 179.88467	5.264 107.8768
2.6325 59.695714	5.265 558.99635	5.265 176.56683	5.265 108.32301
2.633 52.614964	5.266 558.77913	5.266 170.76914	5.266 108.11293
2.6335 44.943376	5.267 558.47627	5.267 163.22948	5.267 107.40161
2.634 37.514247	5.268 558.17188	5.268 155.01356	5.268 106.80557
2.6345 31.017096	5.269 557.76035	5.269 147.2851	5.269 107.13654
2.635 25.775568	5.27 556.98488	5.27 140.99564	5.27 109.02847
2.6355 21.663271	5.271 555.52865	5.271 136.61665	5.271 112.65158
2.636 18.190398	5.272 553.13046	5.272 134.06653	5.272 117.57947
2.6365 14.681969	5.273 549.68771	5.273 132.86695	5.273 122.85432
2.637 10.463969	5.274 545.31427	5.274 132.45263	5.274 127.22307
2.6375 5.0300284	5.275 540.33649	5.275 132.37529	5.275 129.54653
2.638 -1.776448	5.276 535.23	5.276 132.32487	5.276 129.22055
2.6385 -9.604025	5.277 530.51608	5.277 132.0206	5.277 126.44275
2.639 -17.53914	5.278 526.64532	5.278 131.17525	5.278 122.133
2.6395 -24.27864	5.279 523.89702	5.279 129.64729	5.279 117.52876
2.64 -28.53644	5.28 522.31828	5.28 127.66188	5.28 113.62752
2.6405 -29.56359	5.281 521.71762	5.281 125.90479	5.281 110.79793
2.641 -27.51042	5.282 521.71679	5.282 125.32768	5.282 108.7974
2.6415 -23.40346	5.283 521.85159	5.283 126.74006	5.283 107.1335
2.642 -18.66658	5.284 521.69948	5.284 130.42008	5.284 105.55883
2.6425 -14.43047	5.285 521.00275	5.285 135.99613	5.285 104.28434
2.643 -10.96089	5.286 519.75265	5.286 142.61714	5.286 103.80128
2.6435 -7.587186	5.287 518.20715	5.287 149.28119	5.287 104.46212
2.644 -3.164974	5.288 516.83138	5.288 155.13722	5.288 106.09437
2.6445 3.1734491	5.289 516.17266	5.289 159.64111	5.289 107.9451
2.645 11.421235	5.29 516.70491	5.29 162.5244	5.29 108.97309
2.6455 20.571745	5.291 518.68963	5.291 163.70882	5.291 108.33303
2.646 29.038641	5.292 522.09864	5.292 163.20803	5.292 105.74318
2.6465 35.34866	5.293 526.6236	5.293 161.14508	5.293 101.5757
2.647 38.728938	5.294 531.76758	5.294 157.89417	5.294 96.671313
2.6475 39.293409	5.295 536.98558	5.295 154.23911	5.295 92.036553
2.648 37.803067	5.296 541.82493	5.296 151.38071	5.296 88.60992
2.6485 35.230141	5.297 546.02057	5.297 150.61552	5.297 87.105594
2.649 32.355183	5.298 549.51947	5.298 152.8091	5.298 87.882819
2.6495 29.551499	5.299 552.43604	5.299 157.91422	5.299 90.819006
2.65 26.767573	5.3 554.96264	5.3 164.88597	5.3 95.225695
2.6505 23.679073	5.301 557.27062	5.301 172.06914	5.301 99.959724
2.651 19.973742	5.302 559.43468	5.302 177.86859	5.302 103.772

2.6515 15.639052	5.303 561.40113	5.303 181.33814	5.303 105.73347
2.652 11.110947	5.304 563.00478	5.304 182.43689	5.304 105.51146
2.6525 7.1355377	5.305 564.02496	5.305 181.88907	5.305 103.35409
2.653 4.4108527	5.306 564.26132	5.306 180.7394	5.306 99.852032
2.6535 3.2199674	5.307 563.60611	5.307 179.83991	5.307 95.671662
2.654 3.3078546	5.308 562.09196	5.308 179.5049	5.308 91.453855
2.6545 4.0695102	5.309 559.90242	5.309 179.48957	5.309 87.833254
2.655 4.8863199	5.31 557.34474	5.31 179.30739	5.31 85.487913
2.6555 5.3799303	5.311 554.79655	5.311 178.70269	5.311 85.032639
2.656 5.4935629	5.312 552.64548	5.312 177.89535	5.312 86.78491
2.6565 5.4175846	5.313 551.23903	5.313 177.43453	5.313 90.554425
2.657 5.4707781	5.314 550.85358	5.314 177.72048	5.314 95.628574
2.6575 5.9984041	5.315 551.67969	5.315 178.58374	5.315 100.98579
2.658 7.2843017	5.316 553.81351	5.316 179.24061	5.316 105.64658
2.6585 9.4489407	5.317 557.24396	5.317 178.74455	5.317 108.97594
2.659 12.369905	5.318 561.83315	5.318 176.56246	5.318 110.78319
2.6595 15.683966	5.319 567.29749	5.319 172.84521	5.319 111.22088
2.66 18.923178	5.32 573.20555	5.32 168.2226	5.32 110.59783
2.6605 21.721604	5.321 579.00897	5.321 163.31535	5.321 109.18528
2.661 23.931013	5.322 584.11469	5.322 158.41035	5.322 107.15948
2.6615 25.555688	5.323 587.9907	5.323 153.51888	5.323 104.64971
2.662 26.558157	5.324 590.28006	5.324 148.72509	5.324 101.82557
2.6625 26.722208	5.325 590.88731	5.325 144.41715	5.325 98.991434
2.663 25.72009	5.326 590.00393	5.326 141.15209	5.326 96.620396
2.6635 23.326106	5.327 588.05816	5.327 139.30285	5.327 95.282963
2.664 19.602179	5.328 585.60171	5.328 138.80384	5.328 95.505166
2.6645 14.894011	5.329 583.17027	5.329 139.24136	5.329 97.545666
2.665 9.7026716	5.33 581.16482	5.33 140.22881	5.33 101.24545
2.6655 4.5702922	5.331 579.79045	5.331 141.7246	5.331 106.01499
2.666 0.0782782	5.332 579.06508	5.332 144.03447	5.332 111.00322
2.6665 -3.114479	5.333 578.88326	5.333 147.42787	5.333 115.37744
2.667 -4.331638	5.334 579.10211	5.334 151.69197	5.334 118.58456
2.6675 -3.093215	5.335 579.61452	5.335 155.96325	5.335 120.47403
2.668 0.5968548	5.336 580.38601	5.336 159.04189	5.336 121.25649
2.6685 6.1126589	5.337 581.4493	5.337 160.03658	5.337 121.31518
2.669 12.342394	5.338 582.86588	5.338 158.90308	5.338 121.0362
2.6695 18.085724	5.339 584.67178	5.339 156.55486	5.339 120.72085
2.67 22.494115	5.34 586.82597	5.34 154.46384	5.34 120.62087
2.6705 25.333632	5.341 589.17554	5.341 154.01236	5.341 121.00311
2.671 26.96879	5.342 591.44765	5.342 155.90865	5.342 122.12448
2.6715 28.08911	5.343 593.27279	5.343 159.91973	5.343 124.07985
2.672 29.345971	5.344 594.23978	5.344 164.97661	5.344 126.6107
2.6725 31.061634	5.345 593.97626	5.345 169.57069	5.345 129.11742
2.673 33.080258	5.346 592.24092	5.346 172.32371	5.346 130.91304
2.6735 34.788285	5.347 589.00603	5.347 172.52101	5.347 131.577
2.674 35.28906	5.348 584.50476	5.348 170.37648	5.348 131.15543
2.6745 33.708558	5.349 579.22204	5.349 166.88664	5.349 130.05452
2.675 29.532645	5.35 573.82072	5.35 163.35296	5.35 128.73081
2.6755 22.85082	5.351 569.01537	5.351 160.77142	5.351 127.46491
2.676 14.371529	5.352 565.42623	5.352 159.39077	5.352 126.36758
2.6765 5.1746218	5.353 563.45636	5.353 158.65814	5.353 125.54027

2.677 -3.638638	5.354 563.23017	5.354 157.58192	5.354 125.15248
2.6775 -11.20206	5.355 564.61007	5.355 155.31742	5.355 125.30333
2.678 -16.91208	5.356 567.27857	5.356 151.65948	5.356 125.82521
2.6785 -20.27915	5.357 570.84881	5.357 147.15844	5.357 126.23372
2.679 -20.80417	5.358 574.95869	5.358 142.85364	5.358 125.95471
2.6795 -18.02696	5.359 579.31707	5.359 139.79143	5.359 124.69749
2.68 -11.79648	5.36 583.69806	5.36 138.59574	5.36 122.72413
2.6805 -2.608188	5.361 587.90716	5.361 139.26115	5.361 120.83336
2.681 8.2057222	5.362 591.75511	5.362 141.21024	5.362 120.03595
2.6815 18.621097	5.363 595.06674	5.363 143.56526	5.363 121.07199
2.682 26.410445	5.364 597.72648	5.364 145.53745	5.364 123.97996
2.6825 29.825499	5.365 599.73565	5.365 146.78649	5.365 127.99184
2.683 28.167557	5.366 601.24413	5.366 147.55689	5.366 131.83295
2.6835 22.006861	5.367 602.52819	5.367 148.515	5.367 134.33471
2.684 13.018192	5.368 603.91234	5.368 150.37498	5.368 134.98731
2.6845 3.5058406	5.369 605.66192	5.369 153.5109	5.369 134.107
2.685 -4.209076	5.37 607.88941	5.37 157.79033	5.37 132.49385
2.6855 -8.430948	5.371 610.51309	5.371 162.68216	5.371 130.89525
2.686 -8.602049	5.372 613.28422	5.372 167.54995	5.372 129.64452
2.6865 -5.497525	5.373 615.8706	5.373 171.90221	5.373 128.7149
2.687 -0.91778	5.374 617.96315	5.374 175.48297	5.374 128.06482
2.6875 3.0713558	5.375 619.36692	5.375 178.18068	5.375 127.92853
2.688 5.0215315	5.376 620.04784	5.376 179.88588	5.376 128.77852
2.6885 4.6881199	5.377 620.12622	5.377 180.40607	5.377 131.00241
2.689 3.0300682	5.378 619.82665	5.378 179.48136	5.378 134.52505
2.6895 1.6677332	5.379 619.40592	5.379 176.8725	5.379 138.6793
2.69 2.1424969	5.38 619.08277	5.38 172.46785	5.38 142.40909
2.6905 5.3594464	5.381 618.98809	5.381 166.39937	5.381 144.6691
2.691 11.404273	5.382 619.14457	5.382 159.1308	5.382 144.81291
2.6915 19.68752	5.383 619.47519	5.383 151.53481	5.383 142.80479
2.692 29.217728	5.384 619.83245	5.384 144.80768	5.384 139.24857
2.6925 38.870379	5.385 620.0373	5.385 140.23856	5.385 135.25875
2.693 47.621522	5.386 619.91715	5.386 138.79382	5.386 132.19813
2.6935 54.76399	5.387 619.33735	5.387 140.69816	5.387 131.31731
2.694 60.082371	5.388 618.22535	5.388 145.19761	5.388 133.36706
2.6945 63.865127	5.389 616.58989	5.389 150.67913	5.389 138.332
2.695 66.701429	5.39 614.53587	5.39 155.18231	5.39 145.41959
2.6955 69.149711	5.391 612.27062	5.391 157.15525	5.391 153.34612
2.696 71.442469	5.392 610.09244	5.392 156.14038	5.392 160.75972
2.6965 73.408848	5.393 608.3529	5.393 153.00867	5.393 166.59415
2.697 74.626585	5.394 607.39231	5.394 149.59169	5.394 170.20819
2.6975 74.66446	5.395 607.46141	5.395 147.82735	5.395 171.34299
2.698 73.263792	5.396 608.65274	5.396 148.89087	5.396 170.02647
2.6985 70.365333	5.397 610.86725	5.397 152.75799	5.397 166.51306
2.699 66.042049	5.398 613.83044	5.398 158.4005	5.398 161.24841
2.6995 60.42849	5.399 617.15368	5.399 164.39957	5.399 154.81818
2.7 53.734538	5.4 620.41871	5.4 169.59483	5.4 147.86579
2.7005 46.311095	5.401 623.25627	5.401 173.41096	5.401 140.99606
2.701 38.680087	5.402 625.39606	5.402 175.79532	5.402 134.67719
2.7015 31.466113	5.403 626.6809	5.403 176.95857	5.403 129.15564
2.702 25.240986	5.404 627.05429	5.404 177.15275	5.404 124.43269

2.7025 20.357793	5.405 626.53967	5.405 176.60156	5.405 120.31209
2.703 16.869203	5.406 625.22832	5.406 175.54886	5.406 116.57761
2.7035 14.589312	5.407 623.28288	5.407 174.30665	5.407 113.1582
2.704 13.270727	5.408 620.95066	5.408 173.19921	5.408 110.15947
2.7045 12.808941	5.409 618.57035	5.409 172.47069	5.409 107.73157
2.705 13.348951	5.41 616.55314	5.41 172.19991	5.41 105.88311
2.7055 15.20934	5.411 615.32627	5.411 172.32133	5.411 104.49108
2.706 18.614362	5.412 615.24237	5.412 172.68788	5.412 103.4842
2.7065 23.368414	5.413 616.47659	5.413 173.12503	5.413 103.04288
2.707 28.696716	5.414 618.94752	5.414 173.46244	5.414 103.58935
2.7075 33.392964	5.415 622.29756	5.415 173.56656	5.415 105.50649
2.708 36.265889	5.416 625.95254	5.416 173.42277	5.416 108.80735
2.7085 36.654708	5.417 629.2522	5.417 173.20545	5.417 113.00553
2.709 34.672726	5.418 631.61473	5.418 173.23989	5.418 117.282
2.7095 31.034013	5.419 632.68397	5.419 173.78307	5.419 120.82
2.71 26.540677	5.42 632.41323	5.42 174.77102	5.42 123.13868
2.7105 21.576845	5.421 631.06364	5.421 175.71798	5.421 124.26849
2.711 15.936796	5.422 629.1254	5.422 175.93243	5.422 124.74917
2.7115 9.1366262	5.423 627.19356	5.423 174.91324	5.423 125.46044
2.712 1.0051587	5.424 625.83781	5.424 172.6617	5.424 127.30617
2.7125 -7.865253	5.425 625.49771	5.425 169.64636	5.425 130.8512
2.713 -16.14668	5.426 626.41881	5.426 166.47998	5.426 136.09846
2.7135 -22.29253	5.427 628.63017	5.427 163.53584	5.427 142.51183
2.714 -25.22362	5.428 631.95592	5.428 160.8122	5.428 149.25636
2.7145 -24.77557	5.429 636.05264	5.429 158.05985	5.429 155.50421
2.715 -21.66055	5.43 640.46672	5.43 155.0781	5.43 160.65718
2.7155 -17.07156	5.431 644.707	5.431 151.90884	5.431 164.41757
2.716 -12.22214	5.432 648.32583	5.432 148.85748	5.432 166.7665
2.7165 -8.060565	5.433 650.99723	5.433 146.37415	5.433 167.89933
2.717 -5.181796	5.434 652.57675	5.434 144.91576	5.434 168.16215
2.7175 -3.844021	5.435 653.12757	5.435 144.89034	5.435 167.99499
2.718 -3.999684	5.436 652.90211	5.436 146.64844	5.436 167.84463
2.7185 -5.315498	5.437 652.27918	5.437 150.3774	5.437 168.07265
2.719 -7.221051	5.438 651.66956	5.438 155.8735	5.438 168.83586
2.7195 -8.989413	5.439 651.41366	5.439 162.28085	5.439 170.00756
2.72 -9.869128	5.44 651.70019	5.44 168.05837	5.44 171.17404
2.7205 -9.290204	5.441 652.52925	5.441 171.3141	5.441 171.7499
2.721 -7.108909	5.442 653.73042	5.442 170.45261	5.442 171.18575
2.7215 -3.755935	5.443 655.02864	5.443 164.83429	5.443 169.17913
2.722 -0.14932	5.444 656.13511	5.444 155.11887	5.444 165.78854
2.7225 2.6747381	5.445 656.83287	5.445 143.10406	5.445 161.42212
2.723 4.0011947	5.446 657.03023	5.446 131.14737	5.446 156.76496
2.7235 3.7044224	5.447 656.76773	5.447 121.38754	5.447 152.63338
2.724 2.1826283	5.448 656.18205	5.448 115.10052	5.448 149.78078
2.7245 0.1035111	5.449 655.44534	5.449 112.40555	5.449 148.63179
2.725 -1.835712	5.45 654.70517	5.45 112.42551	5.45 149.0608
2.7255 -3.013368	5.451 654.0468	5.451 113.75673	5.451 150.37379
2.726 -2.955683	5.452 653.48698	5.452 115.01286	5.452 151.55691
2.7265 -1.473902	5.453 652.99458	5.453 115.23689	5.453 151.7051
2.727 1.165613	5.454 652.52392	5.454 114.11558	5.454 150.38841
2.7275 4.2267829	5.455 652.04559	5.455 111.98356	5.455 147.80908

2.728 6.7561627	5.456 651.56633	5.456 109.64777	5.456 144.68961
2.7285 7.990857	5.457 651.1379	5.457 108.04261	5.457 141.98825
2.729 7.6582344	5.458 650.85941	5.458 107.84105	5.458 140.57857
2.7295 5.9851142	5.459 650.87548	5.459 109.19746	5.459 140.96879
2.73 3.4754706	5.46 651.36649	5.46 111.73704	5.46 143.11868
2.7305 0.6632512	5.461 652.52292	5.461 114.80199	5.461 146.40031
2.731 -1.992484	5.462 654.49907	5.462 117.76299	5.462 149.75225
2.7315 -4.088341	5.463 657.35176	5.463 120.2333	5.463 152.02308
2.732 -5.292138	5.464 660.98274	5.464 122.08599	5.464 152.36113
2.7325 -5.43879	5.465 665.1102	5.465 123.35437	5.465 150.48862
2.733 -4.659897	5.466 669.28954	5.466 124.12299	5.466 146.71317
2.7335 -3.396809	5.467 672.98796	5.467 124.4756	5.467 141.72086
2.734 -2.224173	5.468 675.6968	5.468 124.53227	5.468 136.29581
2.7345 -1.571417	5.469 677.05071	5.469 124.47042	5.469 131.1394
2.735 -1.528809	5.47 676.91918	5.47 124.53134	5.47 126.77828
2.7355 -1.860353	5.471 675.44431	5.471 124.94988	5.471 123.51262
2.736 -2.229249	5.472 673.01538	5.472 125.91809	5.472 121.38152
2.7365 -2.469903	5.473 670.18769	5.473 127.58349	5.473 120.17228
2.737 -2.761904	5.474 667.56687	5.474 130.09342	5.474 119.54374
2.7375 -3.601031	5.475 665.68603	5.475 133.57708	5.475 119.23258
2.738 -5.583308	5.476 664.90212	5.476 138.02684	5.476 119.1993
2.7385 -9.112738	5.477 665.33174	5.477 143.13483	5.477 119.61048
2.739 -14.17289	5.478 666.83577	5.478 148.25756	5.478 120.65467
2.7395 -20.23453	5.479 669.05188	5.479 152.59841	5.479 122.35428
2.74 -26.3583	5.48 671.46494	5.48 155.53634	5.48 124.538
2.7405 -31.4347	5.481 673.50094	5.481 156.90449	5.481 127.04363
2.741 -34.49393	5.482 674.62954	5.482 157.04547	5.482 129.95271
2.7415 -34.99514	5.483 674.46154	5.483 156.61696	5.483 133.62279
2.742 -32.96199	5.484 672.82843	5.484 156.27361	5.484 138.38929
2.7425 -28.91553	5.485 669.83086	5.485 156.40311	5.485 144.12519
2.743 -23.63302	5.486 665.84285	5.486 157.04421	5.486 149.9847
2.7435 -17.84232	5.487 661.46226	5.487 157.9562	5.487 154.57172
2.744 -11.98792	5.488 657.40815	5.488 158.69889	5.488 156.44458
2.7445 -6.174632	5.489 654.38036	5.489 158.71049	5.489 154.69411
2.745 -0.33369	5.49 652.91185	5.49 157.36462	5.49 149.30975
2.7455 5.4586443	5.491 653.25227	5.491 154.10847	5.491 141.22825
2.746 10.705383	5.492 655.31665	5.492 148.65888	5.492 132.09963
2.7465 14.455408	5.493 658.71533	5.493 141.14594	5.493 123.85088
2.747 15.676497	5.494 662.85615	5.494 132.08166	5.494 118.14764
2.7475 13.859127	5.495 667.08768	5.495 122.1242	5.495 115.90783
2.748 9.4858028	5.496 670.84095	5.496 111.87962	5.496 117.06121
2.7485 4.0491784	5.497 673.73182	5.497 101.88368	5.497 120.70423
2.749 -0.458188	5.498 675.60252	5.498 92.801078	5.498 125.57882
2.7495 -2.26678	5.499 676.50264	5.499 85.562599	5.499 130.64884
2.75 -0.399019	5.5 676.62704	5.5 81.195927	5.5 135.43228
2.7505 5.1235433	5.501 676.2369	5.501 80.355333	5.501 139.93791
2.751 13.400501	5.502 675.58862	5.502 82.90744	5.502 144.28138
2.7515 22.927949	5.503 674.88711	5.503 87.839687	5.503 148.28654
2.752 31.904736	5.504 674.26832	5.504 93.66373	5.504 151.37441
2.7525 38.577857	5.505 673.8061	5.505 99.006471	5.505 152.8659
2.753 41.627976	5.506 673.53157	5.506 103.08674	5.506 152.46489

2.7535 40.540354	5.507 673.45281	5.507 105.8269	5.507 150.57462
2.754 35.845151	5.508 673.56629	5.508 107.64582	5.508 148.17413
2.7545 29.043614	5.509 673.85904	5.509 109.10855	5.509 146.3575
2.755 22.20829	5.51 674.30626	5.51 110.64697	5.51 145.81486
2.7555 17.358685	5.511 674.871	5.511 112.49672	5.511 146.60405
2.756 15.855539	5.512 675.50942	5.512 114.80662	5.512 148.2738
2.7565 18.034235	5.513 676.17878	5.513 117.76534	5.513 150.21141
2.757 23.179204	5.514 676.84143	5.514 121.60257	5.514 152.01633
2.7575 29.783199	5.515 677.45921	5.515 126.42451	5.515 153.68225
2.758 35.992197	5.516 677.97934	5.516 132.01762	5.516 155.55887
2.7585 40.089153	5.517 678.32129	5.517 137.72991	5.517 158.07511
2.759 40.978928	5.518 678.3781	5.518 142.57841	5.518 161.40544
2.7595 38.491544	5.519 678.04088	5.519 145.54617	5.519 165.28366
2.76 33.448277	5.52 677.24313	5.52 145.96588	5.52 169.0852
2.7605 27.354262	5.521 676.0082	5.521 143.79779	5.521 172.07863
2.761 21.830151	5.522 674.47617	5.522 139.654	5.522 173.63823
2.7615 18.009603	5.523 672.89204	5.523 134.55628	5.523 173.28276
2.762 16.143627	5.524 671.55273	5.524 129.51567	5.524 170.6371
2.7625 15.557246	5.525 670.72957	5.525 125.18602	5.525 165.48726
2.763 14.933325	5.526 670.59434	5.526 121.77113	5.526 157.99655
2.7635 12.802443	5.527 671.17639	5.527 119.17015	5.527 148.91215
2.764 8.0878277	5.528 672.36455	5.528 117.24856	5.528 139.56681
2.7645 0.5333925	5.529 673.94958	5.529 115.92029	5.529 131.60619
2.765 -9.147674	5.53 675.68869	5.53 115.04121	5.53 126.50261
2.7655 -19.49144	5.531 677.36883	5.531 114.23492	5.531 125.11061
2.766 -28.81116	5.532 678.85111	5.532 112.92674	5.532 127.41033
2.7665 -35.7963	5.533 680.08847	5.533 110.65943	5.533 132.56931
2.767 -39.86336	5.534 681.11778	5.534 107.55699	5.534 139.30453
2.7675 -41.09419	5.535 682.03326	5.535 104.53772	5.535 146.37322
2.768 -39.84602	5.536 682.94921	5.536 103.0337	5.536 152.89546
2.7685 -36.33406	5.537 683.96081	5.537 104.28861	5.537 158.38917
2.769 -30.50566	5.538 685.11151	5.538 108.69125	5.538 162.54691
2.7695 -22.28823	5.539 686.37564	5.539 115.53918	5.539 165.06781
2.77 -12.02601	5.54 687.66211	5.54 123.43043	5.54 165.78351
2.7705 -0.72582	5.541 688.83919	5.541 130.94958	5.541 164.93666
2.771 10.105074	5.542 689.77344	5.542 137.19654	5.542 163.36066
2.7715 18.97395	5.543 690.37026	5.543 141.84577	5.543 162.2504
2.772 24.983701	5.544 690.60274	5.544 144.84835	5.544 162.63062
2.7725 28.145491	5.545 690.52044	5.545 146.1138	5.545 164.90745
2.773 29.318873	5.546 690.23699	5.546 145.45012	5.546 168.80414
2.7735 29.789105	5.547 689.9027	5.547 142.76243	5.547 173.68303
2.774 30.716055	5.548 689.67152	5.548 138.31262	5.548 178.97256
2.7745 32.681424	5.549 689.67111	5.549 132.81824	5.549 184.34493
2.775 35.504284	5.55 689.9816	5.55 127.29623	5.55 189.58771
2.7755 38.404006	5.551 690.62444	5.551 122.76645	5.551 194.33479
2.776 40.432556	5.552 691.56001	5.552 119.94941	5.552 197.96719
2.7765 40.990909	5.553 692.6913	5.553 119.08511	5.553 199.75807
2.777 40.166847	5.554 693.87192	5.554 119.89906	5.554 199.19015
2.7775 38.726364	5.555 694.91837	5.555 121.67171	5.555 196.19416
2.778 37.734334	5.556 695.62861	5.556 123.37735	5.556 191.17233
2.7785 38.039983	5.557 695.80948	5.557 123.92753	5.557 184.84106

2.779 39.886324	5.558 695.31348	5.558 122.55727	5.558 178.01242
2.7795 42.820839	5.559 694.08062	5.559 119.1701	5.559 171.43669
2.78 45.906574	5.56 692.17565	5.56 114.47166	5.56 165.69242
2.7805 48.110687	5.561 689.80756	5.561 109.72109	5.561 161.11174
2.781 48.721289	5.562 687.31888	5.562 106.2182	5.562 157.73151
2.7815 47.650877	5.563 685.13867	5.563 104.76786	5.563 155.36514
2.782 45.510586	5.564 683.70293	5.564 105.39804	5.564 153.79395
2.7825 43.417434	5.565 683.35778	5.565 107.38863	5.565 152.94679
2.783 42.540763	5.566 684.26982	5.566 109.56379	5.566 152.92445
2.7835 43.552725	5.567 686.37134	5.567 110.7078	5.567 153.80936
2.784 46.210497	5.568 689.36274	5.568 109.93031	5.568 155.45442
2.7845 49.307956	5.569 692.7805	5.569 106.89117	5.569 157.47906
2.785 51.109696	5.57 696.11863	5.57 101.82265	5.57 159.49168
2.7855 50.136216	5.571 698.97219	5.571 95.410704	5.571 161.34876
2.786 45.951448	5.572 701.15934	5.572 88.625638	5.572 163.22916
2.7865 39.527038	5.573 702.78028	5.573 82.513054	5.573 165.43641
2.787 32.902312	5.574 704.18904	5.574 78.052604	5.574 168.17042
2.7875 28.296668	5.575 705.88128	5.575 75.999826	5.575 171.38964
2.788 27.127719	5.576 708.33005	5.576 76.742945	5.576 174.87206
2.7885 29.474413	5.577 711.81998	5.577 80.182681	5.577 178.303
2.789 34.246389	5.578 716.33234	5.578 85.663036	5.578 181.33367
2.7895 39.875362	5.579 721.51698	5.579 92.050161	5.579 183.59483
2.79 45.028014	5.58 726.75966	5.58 98.000583	5.58 184.77062
2.7905 48.955961	5.581 731.32419	5.581 102.40139	5.581 184.7315
2.791 51.351703	5.582 734.52846	5.582 104.78469	5.582 183.6625
2.7915 52.012357	5.583 735.90699	5.583 105.49443	5.583 182.08582
2.792 50.658448	5.584 735.32053	5.584 105.47897	5.584 180.71054
2.7925 47.089677	5.585 732.98898	5.585 105.84662	5.585 180.1975
2.793 41.528514	5.586 729.44366	5.586 107.41853	5.586 180.90421
2.7935 34.810228	5.587 725.41192	5.587 110.54351	5.587 182.73785
2.794 28.240114	5.588 721.66056	5.588 115.13388	5.588 185.18999
2.7945 23.147715	5.589 718.83274	5.589 120.80822	5.589 187.58744
2.795 20.392599	5.59 717.31472	5.59 126.98452	5.59 189.44194
2.7955 20.105445	5.591 717.16343	5.591 132.92973	5.591 190.7149
2.796 21.747049	5.592 718.11214	5.592 137.80235	5.592 191.80301
2.7965 24.37702	5.593 719.6525	5.593 140.81785	5.593 193.25741
2.797 26.976086	5.594 721.17157	5.594 141.45116	5.594 195.34819
2.7975 28.701267	5.595 722.10834	5.595 139.63391	5.595 197.78056
2.798 29.055794	5.596 722.09057	5.596 135.821	5.596 199.68015
2.7985 27.972487	5.597 721.01943	5.597 130.91303	5.597 199.89927
2.799 25.788062	5.598 719.08447	5.598 126.10758	5.598 197.53219
2.7995 23.154264	5.599 716.70913	5.599 122.65337	5.599 192.37216
2.8 20.893527	5.6 714.44311	5.6 121.56572	5.6 185.13001
2.8005 19.887116	5.601 712.8292	5.601 123.29202	5.601 177.22981
2.801 21.030644	5.602 712.27691	5.602 127.45972	5.602 170.27964
2.8015 25.131461	5.603 712.97233	5.603 132.905	5.603 165.433
2.802 32.703622	5.604 714.84381	5.604 138.03605	5.604 162.96468
2.8025 43.645308	5.605 717.58803	5.605 141.38701	5.605 162.27036
2.803 57.002416	5.606 720.74515	5.606 142.05609	5.606 162.26688
2.8035 71.034631	5.607 723.80084	5.607 139.82673	5.607 161.94397
2.804 83.619592	5.608 726.28971	5.608 134.97164	5.608 160.78958

2.8045	92.8591	5.609 727.87934	5.609 128.01454	5.609 158.96464
2.805	97.593997	5.61 728.42233	5.61 119.58089	5.61 157.19475
2.8055	97.626661	5.611 727.97138	5.611 110.45788	5.611 156.49388
2.806	93.656388	5.612 726.75746	5.612 101.62271	5.612 157.81242
2.8065	86.973925	5.613 725.13476	5.613 94.176033	5.613 161.68361
2.807	79.094061	5.614 723.50134	5.614 89.119319	5.614 167.94533
2.8075	71.413753	5.615 722.2117	5.615 87.041598	5.615 175.68164
2.808	64.950005	5.616 721.50336	5.616 87.86304	5.616 183.41279
2.8085	60.207096	5.617 721.45866	5.617 90.748889	5.617 189.52387
2.809	57.183478	5.618 722.01386	5.618 94.297836	5.618 192.72453
2.8095	55.487956	5.619 723.01011	5.619 97.057044	5.619 192.40486
2.81	54.541753	5.62 724.26512	5.62 98.119941	5.62 188.71594
2.8105	53.837416	5.621 725.63591	5.621 97.484984	5.621 182.48971
2.811	53.152978	5.622 727.04798	5.622 95.910232	5.622 175.01924
2.8115	52.645342	5.623 728.48211	5.623 94.33464	5.623 167.78321
2.812	52.716199	5.624 729.92994	5.624 93.271618	5.624 162.13705
2.8125	53.733276	5.625 731.34412	5.625 92.591211	5.625 159.00664
2.813	55.752995	5.626 732.61213	5.626 91.793054	5.626 158.66193
2.8135	58.452699	5.627 733.57249	5.627 90.556731	5.627 160.71317
2.814	61.323867	5.628 734.07218	5.628 89.090156	5.628 164.34428
2.8145	63.980377	5.629 734.04361	5.629 88.103591	5.629 168.6383
2.815	66.365426	5.63 733.56683	5.63 88.441011	5.63 172.82361
2.8155	68.695764	5.631 732.88446	5.631 90.639164	5.631 176.37012
2.816	71.202221	5.632 732.35385	5.632 94.687872	5.632 178.97063
2.8165	73.871683	5.633 732.34552	5.633 100.09968	5.633 180.51344
2.817	76.363256	5.634 733.11996	5.634 106.18822	5.634 181.06772
2.8175	78.150876	5.635 734.72563	5.635 112.35042	5.635 180.83347
2.818	78.752135	5.636 736.95604	5.636 118.16192	5.636 180.07525
2.8185	77.873351	5.637 739.3844	5.637 123.33008	5.637 179.03347
2.819	75.496571	5.638 741.46908	5.638 127.60624	5.638 177.87279
2.8195	71.905573	5.639 742.69967	5.639 130.81543	5.639 176.67438
2.82	67.720913	5.64 742.74087	5.64 132.95385	5.64 175.4588
2.8205	63.859359	5.641 741.53109	5.641 134.22482	5.641 174.23208
2.821	61.329552	5.642 739.30607	5.642 134.91843	5.642 173.04026
2.8215	60.8952	5.643 736.54009	5.643 135.19824	5.643 172.00117
2.822	62.754815	5.644 733.82176	5.644 134.98063	5.644 171.26734
2.8225	66.428309	5.645 731.70143	5.645 133.99828	5.645 170.97798
2.823	70.936687	5.646 730.5554	5.646 132.01171	5.646 171.21621
2.8235	75.185803	5.647 730.50608	5.647 128.97656	5.647 172.04212
2.824	78.342169	5.648 731.4183	5.648 125.07666	5.648 173.52299
2.8245	80.058567	5.649 732.96786	5.649 120.63376	5.649 175.68864
2.825	80.464744	5.65 734.75587	5.65 115.96696	5.65 178.42786
2.8255	79.978381	5.651 736.43082	5.651 111.29241	5.651 181.4569
2.826	79.014642	5.652 737.78086	5.652 106.67511	5.652 184.41296
2.8265	77.745435	5.653 738.77165	5.653 102.08471	5.653 187.01517
2.827	76.020501	5.654 739.52384	5.654 97.519593	5.654 189.1855
2.8275	73.527003	5.655 740.2438	5.655 93.169732	5.655 191.01731
2.828	70.095861	5.656 741.13384	5.656 89.484913	5.656 192.6388
2.8285	65.954769	5.657 742.31295	5.657 87.036326	5.657 194.07364
2.829	61.728363	5.658 743.77309	5.658 86.233174	5.658 195.18874
2.8295	58.134505	5.659 745.38285	5.659 87.085537	5.659 195.75928

2.83 55.595227	5.66 746.93318	5.66 89.177997	5.66 195.62105
2.8305 54.030569	5.661 748.20524	5.661 91.866606	5.661 194.79067
2.831 52.994314	5.662 749.03421	5.662 94.561246	5.662 193.48097
2.8315 51.995927	5.663 749.34771	5.663 96.906499	5.663 191.99938
2.832 50.789923	5.664 749.17103	5.664 98.858542	5.664 190.58851
2.8325 49.422723	5.665 748.60646	5.665 100.64803	5.665 189.34811
2.833 48.097075	5.666 747.80277	5.666 102.64737	5.666 188.23987
2.8335 46.987425	5.667 746.92825	5.667 105.19134	5.667 187.16714
2.834 46.166005	5.668 746.15133	5.668 108.40559	5.668 186.05155
2.8345 45.664531	5.669 745.62287	5.669 112.19739	5.669 184.89508
2.835 45.606297	5.67 745.4531	5.67 116.41918	5.67 183.84683
2.8355 46.301415	5.671 745.68307	5.671 121.07718	5.671 183.25539
2.836 48.205958	5.672 746.26147	5.672 126.39552	5.672 183.67156
2.8365 51.719411	5.673 747.04206	5.673 132.59571	5.673 185.68388
2.837 56.928252	5.674 747.81148	5.674 139.54863	5.674 189.6584
2.8375 63.442617	5.675 748.34341	5.675 146.50284	5.675 195.45012
2.838 70.430874	5.676 748.46143	5.676 152.07697	5.676 202.30183
2.8385 76.80486	5.677 748.0876	5.677 154.58923	5.677 208.99886
2.839 81.414402	5.678 747.26024	5.678 152.61996	5.678 214.25783
2.8395 83.191189	5.679 746.11796	5.679 145.59584	5.679 217.12965
2.84 81.332479	5.68 744.86093	5.68 134.12587	5.68 217.26235
2.8405 75.592738	5.681 743.70725	5.681 119.90417	5.681 214.93258
2.841 66.565441	5.682 742.85961	5.682 105.19952	5.682 210.8928
2.8415 55.689292	5.683 742.48853	5.683 92.156646	5.683 206.11708
2.842 44.855115	5.684 742.72844	5.684 82.204152	5.684 201.55341
2.8425 35.741729	5.685 743.67742	5.685 75.818868	5.685 197.93643
2.843 29.313818	5.686 745.39207	5.686 72.646933	5.686 195.69904
2.8435 25.754738	5.687 747.87518	5.687 71.88063	5.687 194.99492
2.844 24.825946	5.688 751.06047	5.688 72.692909	5.688 195.69979
2.8445 26.308091	5.689 754.80353	5.689 74.495748	5.689 197.40215
2.845 30.190301	5.69 758.88758	5.69 77.002338	5.69 199.36728
2.8455 36.525893	5.691 763.04834	5.691 80.099408	5.691 200.64818
2.846 45.146344	5.692 767.0154	5.692 83.701359	5.692 200.37038
2.8465 55.498945	5.693 770.56082	5.693 87.685491	5.693 198.07779
2.847 66.743166	5.694 773.54156	5.694 91.885675	5.694 193.96192
2.8475 77.984493	5.695 775.92225	5.695 96.086641	5.695 188.81627
2.848 88.450941	5.696 777.76978	5.696 99.99855	5.696 183.79278
2.8485 97.470708	5.697 779.21919	5.697 103.27508	5.697 180.07818
2.849 104.33517	5.698 780.42049	5.698 105.62044	5.698 178.63516
2.8495 108.28291	5.699 781.48292	5.699 106.89828	5.699 179.98368
2.85 108.78749	5.7 782.43435	5.7 107.21835	5.7 184.10223
2.8505 106.00353	5.701 783.2092	5.701 106.92265	5.701 190.43054
2.851 101.03611	5.702 783.66781	5.702 106.48103	5.702 198.06742
2.8515 95.73234	5.703 783.64046	5.703 106.34922	5.703 206.03677
2.852 92.009762	5.704 782.98196	5.704 106.80997	5.704 213.53063
2.8525 91.069361	5.705 781.62102	5.705 107.8145	5.705 219.95665
2.853 92.938202	5.706 779.59235	5.706 108.93561	5.706 224.84134
2.8535 96.56644	5.707 777.04542	5.707 109.49624	5.707 227.70465
2.854 100.34931	5.708 774.2297	5.708 108.89944	5.708 228.10025
2.8545 102.76079	5.709 771.46003	5.709 106.99002	5.709 225.84327
2.855 102.84303	5.71 769.06712	5.71 104.20435	5.71 221.29557

2.8555 100.38757	5.711 767.33995	5.711 101.41449	5.711 215.43924
2.856 95.877255	5.712 766.46877	5.712 99.54515	5.712 209.58948
2.8565 90.257395	5.713 766.50135	5.713 99.148172	5.713 204.90922
2.857 84.664881	5.714 767.32634	5.714 100.1275	5.714 201.98208
2.8575 80.154673	5.715 768.69499	5.715 101.74753	5.715 200.75559
2.858 77.456553	5.716 770.28202	5.716 102.90009	5.716 200.81771
2.8585 76.814105	5.717 771.77284	5.717 102.55729	5.717 201.78026
2.859 77.957166	5.718 772.95164	5.718 100.2254	5.718 203.48765
2.8595 80.249627	5.719 773.76112	5.719 96.197289	5.719 205.94074
2.86 82.968963	5.72 774.31255	5.72 91.478185	5.72 209.09355
2.8605 85.559781	5.721 774.84236	5.721 87.376399	5.721 212.69355
2.861 87.749824	5.722 775.63124	5.722 84.985711	5.722 216.2815
2.8615 89.458013	5.723 776.91448	5.723 84.810701	5.723 219.3217
2.862 90.609945	5.724 778.81343	5.724 86.67747	5.724 221.37396
2.8625 90.995646	5.725 781.30759	5.725 89.908547	5.725 222.20769
2.863 90.295479	5.726 784.24986	5.726 93.644105	5.726 221.83373
2.8635 88.243726	5.727 787.41253	5.727 97.158618	5.727 220.43624
2.864 84.827036	5.728 790.54267	5.728 100.07506	5.728 218.28881
2.8645 80.397628	5.729 793.40673	5.729 102.42839	5.729 215.70119
2.865 75.657725	5.73 795.81234	5.73 104.562	5.73 213.03913
2.8655 71.508045	5.731 797.60745	5.731 106.87306	5.731 210.75802
2.866 68.81719	5.732 798.66673	5.732 109.48632	5.732 209.37968
2.8665 68.17568	5.733 798.88004	5.733 112.05387	5.733 209.33673
2.867 69.6894	5.734 798.15498	5.734 113.81534	5.734 210.73986
2.8675 72.907376	5.735 796.43786	5.735 114.00294	5.735 213.18254
2.868 76.950875	5.736 793.74771	5.736 112.29921	5.736 215.77817
2.8685 80.793714	5.737 790.21075	5.737 109.03322	5.737 217.46866
2.869 83.61386	5.738 786.08018	5.738 104.96934	5.738 217.49955
2.8695 85.037983	5.739 781.7292	5.739 100.83108	5.739 215.83023
2.87 85.242523	5.74 777.61163	5.74 96.934541	5.74 213.21377
2.8705 84.886441	5.741 774.19361	5.741 93.186933	5.741 210.84787
2.871 84.896271	5.742 771.86848	5.742 89.36252	5.742 209.77187
2.8715 86.121434	5.743 770.8743	5.743 85.336956	5.743 210.37403
2.872 88.960786	5.744 771.23641	5.744 81.131806	5.744 212.30243
2.8725 93.116715	5.745 772.75506	5.745 76.791773	5.745 214.80763
2.873 97.666239	5.746 775.04766	5.746 72.325114	5.746 217.271
2.8735 101.4452	5.747 777.63992	5.747 67.761379	5.747 219.50032
2.874 103.57661	5.748 780.08225	5.748 63.248917	5.748 221.62855
2.8745 103.8337	5.749 782.05707	5.749 59.052543	5.749 223.77729
2.875 102.66622	5.75 783.4432	5.75 55.422494	5.75 225.80573
2.8755 100.91095	5.751 784.31826	5.751 52.476658	5.751 227.37475
2.876 99.414797	5.752 784.90296	5.752 50.224857	5.752 228.2713
2.8765 98.7866	5.753 785.47255	5.753 48.744792	5.753 228.70117
2.877 99.358934	5.754 786.27044	5.754 48.327846	5.754 229.31987
2.8775 101.24854	5.755 787.45267	5.755 49.424676	5.755 230.98948
2.878 104.36707	5.756 789.07397	5.756 52.321003	5.756 234.34158
2.8785 108.3352	5.757 791.10587	5.757 56.78683	5.757 239.39539
2.879 112.42607	5.758 793.46593	5.758 61.937449	5.758 245.38024
2.8795 115.69824	5.759 796.03852	5.759 66.538026	5.759 250.86805
2.88 117.30239	5.76 798.67982	5.76 69.577107	5.76 254.21598
2.8805 116.79448	5.761 801.21422	5.761 70.819991	5.761 254.16942

2.881 114.22974	5.762 803.43703	5.762 70.929539	5.762 250.3984
2.8815 110.00536	5.763 805.13633	5.763 71.075002	5.763 243.70214
2.882 104.62767	5.764 806.13553	5.764 72.248555	5.764 235.73697
2.8825 98.598217	5.765 806.34534	5.765 74.716991	5.765 228.40058
2.883 92.488478	5.766 805.80564	5.766 77.939987	5.766 223.13964
2.8835 87.041671	5.767 804.6986	5.767 80.968835	5.767 220.50251
2.884 83.112544	5.768 803.32326	5.768 83.076339	5.768 220.09577
2.8845 81.372988	5.769 802.03561	5.769 84.204449	5.769 220.92681
2.885 81.976523	5.77 801.17001	5.77 85.016056	5.77 221.90527
2.8855 84.456279	5.771 800.96507	5.771 86.586445	5.771 222.28156
2.886 87.975473	5.772 801.51545	5.772 89.912624	5.772 221.8518
2.8865 91.808655	5.773 802.76322	5.773 95.475436	5.773 220.84636
2.887 95.731923	5.774 804.52939	5.774 102.98758	5.774 219.65182
2.8875 100.07752	5.775 806.57321	5.775 111.42315	5.775 218.55993
2.888 105.37826	5.776 808.65865	5.776 119.33177	5.776 217.71349
2.8885 111.81032	5.777 810.60568	5.777 125.30464	5.777 217.20295
2.889 118.77793	5.778 812.31106	5.778 128.38988	5.778 217.19306
2.8895 124.93281	5.779 813.73488	5.779 128.30636	5.779 217.90957
2.89 128.69887	5.78 814.86253	5.78 125.41065	5.78 219.50261
2.8905 129.01005	5.781 815.66157	5.781 120.54863	5.781 221.93301
2.891 125.84247	5.782 816.05553	5.782 114.82579	5.782 224.92547
2.8915 120.22792	5.783 815.93167	5.783 109.37939	5.783 228.06656
2.892 113.80644	5.784 815.18594	5.784 105.10203	5.784 230.92617
2.8925 108.22914	5.785 813.7922	5.785 102.3986	5.785 233.17248
2.893 104.74328	5.786 811.86835	5.786 101.12612	5.786 234.65097
2.8935 104.06385	5.787 809.7071	5.787 100.77401	5.787 235.44127
2.894 106.42147	5.788 807.74731	5.788 100.81718	5.788 235.88352
2.8945 111.61721	5.789 806.482	5.789 100.97686	5.789 236.52211
2.895 119.02349	5.79 806.32441	5.79 101.20927	5.79 237.91036
2.8955 127.58629	5.791 807.47436	5.791 101.41217	5.791 240.36168
2.896 135.92872	5.792 809.83265	5.792 101.14227	5.792 243.73271
2.8965 142.58594	5.793 812.99882	5.793 99.637941	5.793 247.38732
2.897 146.34346	5.794 816.36061	5.794 96.220563	5.794 250.32963
2.8975 146.58907	5.795 819.25071	5.795 90.838875	5.795 251.53685
2.898 143.51559	5.796 821.12312	5.796 84.34842	5.796 250.31391
2.8985 138.07754	5.797 821.69417	5.797 78.313105	5.797 246.61922
2.899 131.66372	5.798 821.00683	5.798 74.391494	5.798 241.18759
2.8995 125.63099	5.799 819.40417	5.799 73.640793	5.799 235.36514
2.9 120.8756	5.8 817.42784	5.8 76.11669	5.8 230.64889
2.9005 117.64269	5.801 815.67909	5.801 80.917101	5.801 228.09869
2.901 115.60657	5.802 814.68564	5.802 86.600301	5.802 227.94593
2.9015 114.15812	5.803 814.80853	5.803 91.752868	5.803 229.58766
2.902 112.73248	5.804 816.20384	5.804 95.40377	5.804 231.96665
2.9025 111.0361	5.805 818.8348	5.805 97.14699	5.805 234.08987
2.903 109.11517	5.806 822.51628	5.806 96.998066	5.806 235.38606
2.9035 107.25588	5.807 826.9696	5.807 95.211204	5.807 235.81124
2.904 105.7825	5.808 831.86981	5.808 92.169272	5.808 235.69919
2.9045 104.80143	5.809 836.87595	5.809 88.376151	5.809 235.5587
2.905 104.05263	5.81 841.64417	5.81 84.40027	5.81 235.87165
2.9055 102.9662	5.811 845.83012	5.811 80.714993	5.811 236.97181
2.906 101.00253	5.812 849.09075	5.812 77.55235	5.812 238.93498

2.9065 98.101965	5.813 851.09598	5.813 74.909579	5.813 241.50331
2.907 94.974604	5.814 851.55768	5.814 72.775905	5.814 244.0656
2.9075 92.958713	5.815 850.27727	5.815 71.388899	5.815 245.76419
2.908 93.457619	5.816 847.20482	5.816 71.337357	5.816 245.73686
2.9085 97.211642	5.817 842.49387	5.817 73.336913	5.817 243.44115
2.909 103.82438	5.818 836.53113	5.818 77.820194	5.818 238.90506
2.9095 111.78405	5.819 829.92152	5.819 84.550217	5.819 232.796
2.91 118.95788	5.82 823.41876	5.82 92.524406	5.82 226.23224
2.9105 123.33447	5.821 817.80766	5.821 100.25444	5.821 220.45931
2.911 123.69521	5.822 813.76151	5.822 106.30336	5.822 216.47051
2.9115 120.00255	5.823 811.7103	5.823 109.79802	5.823 214.72653
2.912 113.41374	5.824 811.75697	5.824 110.67293	5.824 215.03508
2.9125 105.92427	5.825 813.66768	5.825 109.50962	5.825 216.65055
2.913 99.747747	5.826 816.94111	5.826 107.17805	5.826 218.55916
2.9135 96.633942	5.827 820.93822	5.827 104.49051	5.827 219.9059
2.914 97.314729	5.828 825.03522	5.828 102.05052	5.828 220.36358
2.9145 101.26849	5.829 828.75669	5.829 100.2729	5.829 220.27163
2.915 106.89559	5.83 831.85401	5.83 99.394611	5.83 220.37605
2.9155 112.06366	5.831 834.31308	5.831 99.401689	5.831 221.28284
2.916 114.84721	5.832 836.29829	5.832 99.950823	5.832 222.89099
2.9165 114.20527	5.833 838.05794	5.833 100.46198	5.833 224.20834
2.917 110.36123	5.834 839.82527	5.834 100.37356	5.834 223.73426
2.9175 104.68201	5.835 841.74624	5.835 99.43305	5.835 220.24818
2.918 99.129845	5.836 843.85376	5.836 97.799787	5.836 213.58626
2.9185 95.436634	5.837 846.09061	5.837 95.916857	5.837 204.93414
2.919 94.409083	5.838 848.3669	5.838 94.250012	5.838 196.47145
2.9195 95.677164	5.839 850.62564	5.839 93.072571	5.839 190.52903
2.92 98.008865	5.84 852.88791	5.84 92.432174	5.84 188.67493
2.9205 99.992788	5.841 855.25708	5.841 92.265708	5.841 191.16831
2.921 100.73331	5.842 857.87877	5.842 92.553276	5.842 196.95859
2.9215 100.18324	5.843 860.87175	5.843 93.398515	5.843 204.23217
2.922 99.008135	5.844 864.25762	5.844 94.974264	5.844 211.21331
2.9225 98.124222	5.845 867.91759	5.845 97.358339	5.845 216.8947
2.923 98.239246	5.846 871.59328	5.846 100.34462	5.846 221.35974
2.9235 99.656227	5.847 874.93089	5.847 103.35812	5.847 225.58913
2.924 102.38095	5.848 877.55337	5.848 105.55918	5.848 230.82971
2.9245 106.37239	5.849 879.13792	5.849 106.06042	5.849 237.85936
2.925 111.71307	5.85 879.47904	5.85 104.16463	5.85 246.4776
2.9255 118.56702	5.851 878.52464	5.851 99.541186	5.851 255.48962
2.926 126.91945	5.852 876.38206	5.852 92.339905	5.852 263.1476
2.9265 136.31701	5.853 873.29717	5.853 83.246607	5.853 267.86088
2.927 145.75343	5.854 869.61371	5.854 73.426124	5.854 268.78153
2.9275 153.81782	5.855 865.72176	5.855 64.266577	5.855 266.05026
2.928 159.08328	5.856 862.00478	5.856 56.975018	5.856 260.60459
2.9285 160.58161	5.857 858.79351	5.857 52.20082	5.857 253.73297
2.929 158.15059	5.858 856.33264	5.858 49.900693	5.858 246.63044
2.9295 152.491	5.859 854.76271	5.859 49.529016	5.859 240.10484
2.93 144.88764	5.86 854.11619	5.86 50.39243	5.86 234.4896
2.9305 136.70316	5.861 854.32482	5.861 51.911551	5.861 229.69684
2.931 128.93125	5.862 855.23459	5.862 53.701565	5.862 225.35687
2.9315 122.0035	5.863 856.62542	5.863 55.560003	5.863 221.01718

2.932 115.88801	5.864 858.23421	5.864 57.475079	5.864 216.37619
2.9325 110.37417	5.865 859.78082	5.865 59.674132	5.865 211.49507
2.933 105.35518	5.866 860.99769	5.866 62.573747	5.866 206.85562
2.9335 100.99119	5.867 861.66258	5.867 66.5571	5.867 203.24062
2.934 97.707608	5.868 861.63211	5.868 71.635556	5.868 201.43194
2.9345 96.031395	5.869 860.87018	5.869 77.237863	5.869 201.90243
2.935 96.310207	5.87 859.4629	5.87 82.361797	5.87 204.59158
2.9355 98.43222	5.871 857.61159	5.871 86.042791	5.871 208.87579
2.936 101.74513	5.872 855.60032	5.872 87.832375	5.872 213.76301
2.9365 105.25723	5.873 853.74198	5.873 87.945332	5.873 218.24469
2.937 108.05941	5.874 852.3152	5.874 87.042363	5.874 221.6436
2.9375 109.73531	5.875 851.50895	5.875 85.816701	5.875 223.81742
2.938 110.49272	5.876 851.39052	5.876 84.662633	5.876 225.09293
2.9385 110.96213	5.877 851.90503	5.877 83.612607	5.877 226.02381
2.939 111.75212	5.878 852.90436	5.878 82.460387	5.878 227.08343
2.9395 113.06469	5.879 854.19441	5.879 80.960831	5.879 228.47658
2.94 114.55595	5.88 855.58433	5.88 78.984147	5.88 230.08835
2.9405 115.5415	5.881 856.92335	5.881 76.566646	5.881 231.56785
2.941 115.43285	5.882 858.11671	5.882 73.886997	5.882 232.45418
2.9415 114.19306	5.883 859.12095	5.883 71.207779	5.883 232.31775
2.942 112.52454	5.884 859.9261	5.884 68.807592	5.884 230.88527
2.9425 111.65771	5.885 860.53593	5.885 66.945411	5.885 228.1225
2.943 112.79578	5.886 860.95711	5.886 65.872638	5.886 224.26263
2.9435 116.48313	5.887 861.20337	5.887 65.834902	5.887 219.79001
2.944 122.25447	5.888 861.31445	5.888 67.024447	5.888 215.41793
2.9445 128.78173	5.889 861.38199	5.889 69.472768	5.889 212.06275
2.945 134.44788	5.89 861.56951	5.89 72.87361	5.89 210.66568
2.9455 138.06868	5.891 862.1125	5.891 76.513895	5.891 211.87271
2.946 139.35493	5.892 863.28883	5.892 79.373928	5.892 215.64593
2.9465 138.90729	5.893 865.35924	5.893 80.478218	5.893 221.06338
2.947 137.80219	5.894 868.48916	5.894 79.334591	5.894 226.53238
2.9475 137.05212	5.895 872.67286	5.895 76.207402	5.895 230.40759
2.948 137.21314	5.896 877.68506	5.896 72.055847	5.896 231.71135
2.9485 138.25774	5.897 883.08142	5.897 68.164862	5.897 230.54952
2.949 139.68936	5.898 888.25729	5.898 65.66101	5.898 228.01433
2.9495 140.77547	5.899 892.5576	5.899 65.097768	5.899 225.65819
2.95 140.81647	5.9 895.41266	5.9 66.282582	5.9 224.84834
2.9505 139.4015	5.901 896.46353	5.901 68.371756	5.901 226.33572
2.951 136.56609	5.902 895.63947	5.902 70.203207	5.902 230.16211
2.9515 132.80196	5.903 893.16393	5.903 70.757048	5.903 235.84549
2.952 128.93009	5.904 889.48817	5.904 69.56784	5.904 242.66412
2.9525 125.88351	5.905 885.17655	5.905 66.875756	5.905 249.88201
2.953 124.43888	5.906 880.78222	5.906 63.425603	5.906 256.81567
2.9535 124.98901	5.907 876.7506	5.907 60.055574	5.907 262.79099
2.954 127.40379	5.908 873.37233	5.908 57.31736	5.908 267.09253
2.9545 131.05184	5.909 870.78493	5.909 55.378537	5.909 269.04774
2.955 135.02529	5.91 869.00508	5.91 54.183595	5.91 268.23002
2.9555 138.48318	5.911 867.96836	5.911 53.729694	5.911 264.69453
2.956 140.96618	5.912 867.5595	5.912 54.212336	5.912 259.0766
2.9565 142.49643	5.913 867.62855	5.913 55.973287	5.913 252.48499
2.957 143.42382	5.914 867.99799	5.914 59.250628	5.914 246.25776

2.9575	144.095	5.915	868.46911	5.915	63.910835	5.915	241.69908
2.958	144.57154	5.916	868.83307	5.916	69.333626	5.916	239.82458
2.9585	144.57444	5.917	868.88735	5.917	74.546818	5.917	241.157
2.959	143.67046	5.918	868.45543	5.918	78.522782	5.918	245.59817
2.9595	141.55059	5.919	867.40849	5.919	80.468053	5.919	252.46238
2.96	138.19384	5.92	865.68932	5.92	79.988074	5.92	260.67532
2.9605	133.82372	5.921	863.33846	5.921	77.142217	5.921	269.05229
2.961	128.73216	5.922	860.51772	5.922	72.448319	5.922	276.50507
2.9615	123.21177	5.923	857.52017	5.923	66.817581	5.923	282.1021
2.962	117.64563	5.924	854.75163	5.924	61.311524	5.924	285.02737
2.9625	112.64907	5.925	852.67356	5.925	56.707393	5.925	284.60031
2.963	109.02519	5.926	851.71018	5.926	53.084735	5.926	280.44031
2.9635	107.46638	5.927	852.14055	5.927	49.779973	5.927	272.74746
2.964	108.17963	5.928	854.00957	5.928	45.853403	5.928	262.51677
2.9645	110.73463	5.929	857.09196	5.929	40.77182	5.929	251.44686
2.965	114.28574	5.93	860.92856	5.93	34.876373	5.93	241.50022
2.9655	118.02014	5.931	864.92984	5.931	29.251571	5.931	234.29187
2.966	121.45224	5.932	868.51751	5.932	25.129857	5.932	230.64977
2.9665	124.39138	5.933	871.2627	5.933	23.282378	5.933	230.53964
2.967	126.64578	5.934	872.98153	5.934	23.79034	5.934	233.28892
2.9675	127.76777	5.935	873.76521	5.935	26.239879	5.935	237.85651
2.968	127.10607	5.936	873.94279	5.936	30.09864	5.936	242.9897
2.9685	124.17656	5.937	873.99357	5.937	34.921122	5.937	247.36021
2.969	119.07609	5.938	874.43628	5.938	40.27118	5.938	249.81909
2.9695	112.64182	5.939	875.72238	5.939	45.57846	5.939	249.7897
2.97	106.26505	5.94	878.15367	5.94	50.113161	5.94	247.59299
2.9705	101.43095	5.941	881.83333	5.941	53.218699	5.941	244.44488
2.971	99.247771	5.942	886.6509	5.942	54.647384	5.942	242.04836
2.9715	100.13533	5.943	892.29651	5.943	54.726019	5.943	241.97551
2.972	103.76302	5.944	898.29974	5.944	54.203139	5.944	245.11532
2.9725	109.22111	5.945	904.09024	5.945	53.832731	5.945	251.44926
2.973	115.38055	5.946	909.07762	5.946	53.97759	5.946	260.13075
2.9735	121.30809	5.947	912.74497	5.947	54.516805	5.947	269.79598
2.974	126.57014	5.948	914.74358	5.948	55.079287	5.948	278.93589
2.9745	131.27907	5.949	914.97005	5.949	55.401542	5.949	286.22467
2.975	135.87575	5.95	913.60419	5.95	55.500316	5.95	290.74006
2.9755	140.76269	5.951	911.09097	5.951	55.563317	5.951	292.06099
2.976	146.02071	5.952	908.06217	5.952	55.753404	5.952	290.26421
2.9765	151.28431	5.953	905.21015	5.953	56.130515	5.953	285.8165
2.977	155.8038	5.954	903.14282	5.954	56.807829	5.954	279.37458
2.9775	158.61876	5.955	902.25781	5.955	58.057418	5.955	271.58797
2.978	158.77634	5.956	902.67166	5.956	60.243431	5.956	263.01045
2.9785	155.62428	5.957	904.22471	5.957	63.497741	5.957	254.21707
2.979	149.10178	5.958	906.55905	5.958	67.405203	5.958	246.0594
2.9795	139.94618	5.959	909.24252	5.959	70.969489	5.959	239.81893
2.98	129.66384	5.96	911.89692	5.96	72.97048	5.96	236.99545
2.9805	120.18954	5.961	914.28808	5.961	72.46453	5.961	238.71721
2.981	113.31779	5.962	916.35142	5.962	69.174454	5.962	245.0925
2.9815	110.16247	5.963	918.15226	5.963	63.549997	5.963	254.92322
2.982	110.89883	5.964	919.80504	5.964	56.497408	5.964	266.03739
2.9825	114.85429	5.965	921.38997	5.965	49.062858	5.965	276.05969

2.983 120.89616	5.966 922.90258	5.966 42.186751	5.966 283.19952
2.9835 127.84575	5.967 924.25433	5.967 36.673097	5.967 286.67267
2.984 134.74618	5.968 925.31809	5.968 33.240578	5.968 286.67257
2.9845 140.90666	5.969 925.99274	5.969 32.523186	5.969 284.06242
2.985 145.78763	5.97 926.25497	5.97 34.93312	5.97 279.98723
2.9855 148.86858	5.971 926.17515	5.971 40.439201	5.971 275.57039
2.986 149.65767	5.972 925.89206	5.972 48.429579	5.972 271.69706
2.9865 147.89305	5.973 925.56021	5.973 57.784613	5.973 268.92669
2.987 143.87206	5.974 925.29379	5.974 67.133581	5.974 267.49406
2.9875 138.65359	5.975 925.13031	5.975 75.171695	5.975 267.33924
2.988 133.94808	5.976 925.0264	5.976 80.915752	5.976 268.14876
2.9885 131.60269	5.977 924.88471	5.977 83.814857	5.977 269.35338
2.989 132.90555	5.978 924.59976	5.978 83.779583	5.978 270.1917
2.9895 137.99732	5.979 924.1063	5.979 81.163602	5.979 269.89284
2.99 145.73877	5.98 923.41603	5.98 76.731718	5.98 267.95042
2.9905 154.10749	5.981 922.63356	5.981 71.524775	5.981 264.40296
2.991 160.9354	5.982 921.94855	5.982 66.582194	5.982 259.92307
2.9915 164.64874	5.983 921.6053	5.983 62.612796	5.983 255.64195
2.992 164.67679	5.984 921.85411	5.984 59.750373	5.984 252.74826
2.9925 161.40105	5.985 922.89205	5.985 57.557827	5.985 252.10272
2.993 155.77662	5.986 924.8045	5.986 55.343989	5.986 254.04141
2.9935 148.87157	5.987 927.5217	5.987 52.648989	5.987 258.36406
2.994 141.5766	5.988 930.80512	5.988 49.606889	5.988 264.42344
2.9945 134.52292	5.989 934.27379	5.989 46.950849	5.989 271.19124
2.995 128.18357	5.99 937.4717	5.99 45.589113	5.99 277.3717
2.9955 122.99232	5.991 939.96437	5.991 46.068345	5.991 281.66505
2.996 119.40419	5.992 941.4412	5.992 48.280632	5.992 283.17154
2.9965 117.83985	5.993 941.79396	5.993 51.633427	5.993 281.76038
2.997 118.56408	5.994 941.14504	5.994 55.487702	5.994 278.17339
2.9975 121.52385	5.995 939.81244	5.995 59.568686	5.995 273.75601
2.998 126.25438	5.996 938.21899	5.996 64.07545	5.996 269.93032
2.9985 131.93048	5.997 936.77278	5.997 69.46646	5.997 267.6623
2.999 137.57267	5.998 935.75807	5.998 76.05956	5.998 267.18015
2.9995 142.37605	5.999 935.27312	5.999 83.669664	5.999 268.06006
3 145.97009	6 935.23549	6 91.40993	6 269.56268
3.0005 148.48824	6.001 935.45116	6.001 97.789226	6.001 271.0199
3.001 150.39375	6.002 935.72024	6.002 101.17388	6.002 272.05961
3.0015 152.17404	6.003 935.93956	6.003 100.49913	6.003 272.5608
3.002 154.06105	6.004 936.1634	6.004 95.851618	6.004 272.44622
3.0025 155.9176	6.005 936.59952	6.005 88.563404	6.005 271.51537
3.003 157.31435	6.006 937.54099	6.006 80.653045	6.006 269.51327
3.0035 157.7597	6.007 939.25799	6.007 73.978785	6.007 266.46424
3.004 156.96459	6.008 941.88872	6.008 69.577395	6.008 263.03049
3.0045 155.00096	6.009 945.36953	6.009 67.538155	6.009 260.56057
3.005 152.27322	6.01 949.42971	6.01 67.30923	6.01 260.65233
3.0055 149.30822	6.011 953.65227	6.011 68.116809	6.011 264.38916
3.006 146.49704	6.012 957.57768	6.012 69.257314	6.012 271.7174
3.0065 143.96361	6.013 960.81298	6.013 70.238219	6.013 281.31288
3.007 141.68692	6.014 963.11039	6.014 70.858349	6.014 290.99573
3.0075 139.76724	6.015 964.39509	6.015 71.23454	6.015 298.39257
3.008 138.668	6.016 964.7438	6.016 71.732749	6.016 301.56893

3.0085 139.21075	6.017 964.33358	6.017 72.759359	6.017 299.47815
3.009 142.28408	6.018 963.38671	6.018 74.47697	6.018 292.23704
3.0095 148.35618	6.019 962.13152	6.019 76.660627	6.019 281.20244
3.01 157.05546	6.02 960.78536	6.02 78.742309	6.02 268.78314
3.0105 167.01934	6.021 959.55195	6.021 80.102808	6.021 257.88579
3.011 176.1601	6.022 958.61869	6.022 80.402851	6.022 251.08298
3.0115 182.29259	6.023 958.14205	6.023 79.788015	6.023 249.75788
3.012 183.90323	6.024 958.2198	6.024 78.805857	6.024 253.59289
3.0125 180.7614	6.025 958.86015	6.025 78.074771	6.025 260.67778
3.013 174.07577	6.026 959.96465	6.026 77.931813	6.026 268.22271
3.0135 166.07495	6.027 961.33876	6.027 78.265958	6.027 273.64651
3.014 159.15301	6.028 962.73317	6.028 78.595697	6.028 275.52353
3.0145 154.96395	6.029 963.90546	6.029 78.329247	6.029 274.00737
3.015 153.87731	6.03 964.68211	6.03 76.999633	6.03 270.5781
3.0155 155.0719	6.031 964.99932	6.031 74.394671	6.031 267.30315
3.016 157.15928	6.032 964.90875	6.032 70.573806	6.032 266.02784
3.0165 158.967	6.033 964.54678	6.033 65.871472	6.033 267.78631
3.017 160.04674	6.034 964.07857	6.034 60.892874	6.034 272.56214
3.0175 160.6609	6.035 963.63655	6.035 56.487348	6.035 279.35238
3.018 161.34218	6.036 963.27441	6.036 53.611859	6.036 286.49568
3.0185 162.37341	6.037 962.95178	6.037 53.111643	6.037 292.17331
3.019 163.51912	6.038 962.55456	6.038 55.408732	6.038 294.9881
3.0195 164.15698	6.039 961.94329	6.039 60.216701	6.039 294.43265
3.02 163.67694	6.04 961.01204	6.04 66.426307	6.04 291.05466
3.0205 161.8329	6.041 959.73638	6.041 72.288035	6.041 286.19471
3.021 158.81804	6.042 958.19265	6.042 75.936728	6.042 281.44328
3.0215 155.07021	6.043 956.54119	6.043 76.041052	6.043 278.03347
3.022 151.04497	6.044 954.97945	6.044 72.295619	6.044 276.4763
3.0225 147.17649	6.045 953.68203	6.045 65.501448	6.045 276.5418
3.023 144.00997	6.046 952.74923	6.046 57.191229	6.046 277.57661
3.0235 142.29275	6.047 952.18193	6.047 49.061905	6.047 278.92127
3.024 142.78099	6.048 951.89044	6.048 42.464036	6.048 280.24235
3.0245 145.78616	6.049 951.73265	6.049 38.125187	6.049 281.60005
3.025 150.79503	6.05 951.56585	6.05 36.143272	6.05 283.29319
3.0255 156.49345	6.051 951.29266	6.051 36.09085	6.051 285.5773
3.026 161.30142	6.052 950.88434	6.052 37.236326	6.052 288.41377
3.0265 164.11247	6.053 950.37383	6.053 38.819903	6.053 291.39455
3.027 164.83771	6.054 949.82408	6.054 40.303684	6.054 293.85377
3.0275 164.43082	6.055 949.2876	6.055 41.537248	6.055 295.11869
3.028 164.4294	6.056 948.77809	6.056 42.721174	6.056 294.78581
3.0285 166.24361	6.057 948.2698	6.057 44.189277	6.057 292.88548
3.029 170.5588	6.058 947.72721	6.058 46.079178	6.058 289.94449
3.0295 177.0804	6.059 947.15119	6.059 48.12801	6.059 286.88728
3.03 184.7298	6.06 946.61668	6.06 49.704398	6.06 284.82175
3.0305 192.13832	6.061 946.27799	6.061 50.113765	6.061 284.68925
3.031 198.14694	6.062 946.33112	6.062 48.979258	6.062 286.86446
3.0315 202.03134	6.063 946.94404	6.063 46.551535	6.063 290.85178
3.032 203.38134	6.064 948.18266	6.064 43.716871	6.064 295.29368
3.0325 201.89387	6.065 949.96489	6.065 41.740914	6.065 298.44478
3.033 197.36429	6.066 952.0638	6.066 41.797135	6.066 298.94801
3.0335 190.0148	6.067 954.1599	6.067 44.491289	6.067 296.50718

3.034 180.83977	6.068 955.92296	6.068 49.646678	6.068 292.05485
3.0345 171.64079	6.069 957.09438	6.069 56.374584	6.069 287.28761
3.035 164.53064	6.07 957.5449	6.07 63.472905	6.07 283.85818
3.0355 161.17521	6.071 957.29533	6.071 69.88191	6.071 282.6454
3.036 162.17943	6.072 956.50104	6.072 74.999922	6.072 283.51748
3.0365 166.97396	6.073 955.40996	6.073 78.711476	6.073 285.60123
3.037 174.18403	6.074 954.30624	6.074 81.1677	6.074 287.84104
3.0375 182.22458	6.075 953.45137	6.075 82.479929	6.075 289.47217
3.038 189.81269	6.076 953.03341	6.076 82.520448	6.076 290.18802
3.0385 196.24156	6.077 953.1347	6.077 80.938808	6.077 290.0064
3.039 201.3639	6.078 953.7265	6.078 77.424563	6.078 289.04803
3.0395 205.34277	6.079 954.69359	6.079 72.064684	6.079 287.39332
3.04 208.32624	6.08 955.88299	6.08 65.603775	6.08 285.13366
3.0405 210.22187	6.081 957.16229	6.081 59.403908	6.081 282.51308
3.041 210.74856	6.082 958.46769	6.082 54.998616	6.082 280.0236
3.0415 209.6975	6.083 959.82475	6.083 53.475436	6.083 278.32314
3.042 207.18056	6.084 961.3339	6.084 54.946316	6.084 278.02267
3.0425 203.66112	6.085 963.12463	6.085 58.441445	6.085 279.42197
3.043 199.72483	6.086 965.2933	6.086 62.258493	6.086 282.36731
3.0435 195.79481	6.087 967.84372	6.087 64.648899	6.087 286.25437
3.044 192.01498	6.088 970.64889	6.088 64.48135	6.088 290.16081
3.0445 188.35903	6.089 973.44589	6.089 61.688178	6.089 293.072
3.045 184.78336	6.09 975.86821	6.09 57.260275	6.09 294.11902
3.0455 181.29774	6.091 977.51157	6.091 52.857653	6.091 292.8369
3.046 177.86954	6.092 978.02254	6.092 50.187665	6.092 289.33233
3.0465 174.37564	6.093 977.19358	6.093 50.428681	6.093 284.30828
3.047 170.68917	6.094 975.04338	6.094 53.963014	6.094 278.87897
3.0475 166.9145	6.095 971.85996	6.095 60.430294	6.095 274.27095
3.048 163.53936	6.096 968.18711	6.096 68.971678	6.096 271.52489
3.0485 161.3551	6.097 964.74514	6.097 78.47134	6.097 271.27116
3.049 161.10244	6.098 962.2941	6.098 87.731826	6.098 273.61075
3.0495 163.07264	6.099 961.46712	6.099 95.661196	6.099 278.13888
3.05 166.87551	6.1 962.61628	6.1 101.53715	6.1 284.07514
3.0505 171.4992	6.101 965.71572	6.101 105.26789	6.101 290.53851
3.051 175.5833	6.102 970.35301	6.102 107.43891	6.102 296.83948
3.0515 177.80774	6.103 975.81414	6.103 109.04756	6.103 302.60967
3.052 177.27224	6.104 981.2389	6.104 111.02603	6.104 307.74787
3.0525 173.82311	6.105 985.80358	6.105 113.76924	6.105 312.20586
3.053 168.21126	6.106 988.88336	6.106 116.90969	6.106 315.80388
3.0535 161.97447	6.107 990.15824	6.107 119.48151	6.107 318.17024
3.054 157.00398	6.108 989.64556	6.108 120.35285	6.108 318.82206
3.0545 154.95194	6.109 987.66261	6.109 118.79281	6.109 317.32962
3.055 156.69914	6.11 984.73617	6.11 114.87173	6.11 313.52277
3.0555 162.15347	6.111 981.48289	6.111 109.54173	6.111 307.67456
3.056 170.35201	6.112 978.48513	6.112 104.32571	6.112 300.59717
3.0565 179.77527	6.113 976.18563	6.113 100.79423	6.113 293.51824
3.057 188.67237	6.114 974.82026	6.114 99.978857	6.114 287.73081
3.0575 195.34866	6.115 974.40092	6.115 102.03808	6.115 284.16994
3.058 198.44822	6.116 974.74983	6.116 106.21442	6.116 283.10189
3.0585 197.26598	6.117 975.57368	6.117 111.09699	6.117 284.15155
3.059 191.9957	6.118 976.5557	6.118 115.01023	6.118 286.56331

3.0595 183.7861	6.119 977.43995	6.119 116.50635	6.119 289.53935
3.06 174.51878	6.12 978.0865	6.12 114.81918	6.12 292.42116
3.0605 166.36181	6.121 978.48821	6.121 110.22158	6.121 294.71905
3.061 161.22677	6.122 978.75255	6.122 104.04778	6.122 296.11106
3.0615 160.27546	6.123 979.06156	6.123 98.265334	6.123 296.5092
3.062 163.56119	6.124 979.62525	6.124 94.690207	6.124 296.16614
3.0625 169.95724	6.125 980.64015	6.125 94.191742	6.125 295.68782
3.063 177.43305	6.126 982.2579	6.126 96.294912	6.126 295.82556
3.0635 183.63634	6.127 984.56406	6.127 99.432858	6.127 297.16976
3.064 186.61154	6.128 987.56594	6.128 101.63888	6.128 299.94276
3.0645 185.39914	6.129 991.18862	6.129 101.33764	6.129 303.97461
3.065 180.29035	6.13 995.27995	6.13 97.848421	6.13 308.8333
3.0655 172.64859	6.131 999.62431	6.131 91.480195	6.131 313.96597
3.066 164.36	6.132 1003.964	6.132 83.27709	6.132 318.77349
3.0665 157.1521	6.133 1008.026	6.133 74.593594	6.133 322.68056
3.067 152.04367	6.134 1011.5525	6.134 66.680416	6.134 325.22733
3.0675 149.16372	6.135 1014.3323	6.135 60.373825	6.135 326.20303
3.068 147.96697	6.136 1016.2318	6.136 55.972095	6.136 325.72439
3.0685 147.71219	6.137 1017.2179	6.137 53.238444	6.137 324.19814
3.069 147.9506	6.138 1017.3665	6.138 51.513394	6.138 322.19602
3.0695 148.82785	6.139 1016.8496	6.139 49.945288	6.139 320.31103
3.07 151.0746	6.14 1015.9003	6.14 47.78717	6.14 319.03665
3.0705 155.68379	6.141 1014.766	6.141 44.722869	6.141 318.68056
3.071 163.40042	6.142 1013.6613	6.142 41.070488	6.142 319.24912
3.0715 174.22771	6.143 1012.7393	6.143 37.746902	6.143 320.39591
3.072 187.17417	6.144 1012.0846	6.144 35.937985	6.144 321.45702
3.0725 200.44055	6.145 1011.729	6.145 36.673405	6.145 321.68419
3.073 211.97636	6.146 1011.6763	6.146 40.443402	6.146 320.56583
3.0735 220.18833	6.147 1011.9236	6.147 47.052957	6.147 318.07294
3.074 224.45881	6.148 1012.4711	6.148 55.685314	6.148 314.70093
3.0745 225.21928	6.149 1013.315	6.149 65.119816	6.149 311.23762
3.075 223.57151	6.15 1014.4303	6.15 74.023184	6.15 308.42238
3.0755 220.69619	6.151 1015.752	6.151 81.264699	6.151 306.68007
3.076 217.39971	6.152 1017.1643	6.152 86.172964	6.152 306.04239
3.0765 213.99368	6.153 1018.5087	6.153 88.709027	6.153 306.28365
3.077 210.47752	6.154 1019.6128	6.154 89.418076	6.154 307.17291
3.0775 206.78137	6.155 1020.3384	6.155 89.18028	6.155 308.67596
3.078 202.88787	6.156 1020.6323	6.156 88.840079	6.156 310.98555
3.0785 198.81907	6.157 1020.5619	6.157 88.881352	6.157 314.35486
3.079 194.56869	6.158 1020.3151	6.158 89.320494	6.158 318.81381
3.0795 190.09326	6.159 1020.1556	6.159 89.771342	6.159 323.9502
3.08 185.3851	6.16 1020.3418	6.16 89.63466	6.16 328.85187
3.0805 180.61271	6.161 1021.0368	6.161 88.239197	6.161 332.29529
3.081 176.25376	6.162 1022.2416	6.162 85.032518	6.162 333.11734
3.0815 173.10651	6.163 1023.7815	6.163 79.782903	6.163 330.65486
3.082 172.08587	6.164 1025.3554	6.164 72.77953	6.164 325.0402
3.0825 173.81536	6.165 1026.6333	6.165 64.856678	6.165 317.23954
3.083 178.18533	6.166 1027.3697	6.166 57.163439	6.166 308.77409
3.0835 184.17271	6.167 1027.4931	6.167 50.748002	6.167 301.24917
3.084 190.09224	6.168 1027.1409	6.168 46.230728	6.168 295.88432
3.0845 194.23136	6.169 1026.6271	6.169 43.714024	6.169 293.23345

3.085 195.52802	6.17 1026.3549	6.17 42.8934	6.17 293.16633
3.0855 193.97624	6.171 1026.6989	6.171 43.196064	6.171 295.08945
3.086 190.53532	6.172 1027.8932	6.172 43.891952	6.172 298.28433
3.0865 186.64816	6.173 1029.9548	6.173 44.263996	6.173 302.20798
3.087 183.62068	6.174 1032.665	6.174 43.88993	6.174 306.61029
3.0875 182.18182	6.175 1035.6112	6.175 42.965812	6.175 311.40223
3.088 182.3925	6.176 1038.2817	6.176 42.358638	6.176 316.37973
3.0885 183.84663	6.177 1040.1865	6.177 43.242641	6.177 321.0219
3.089 185.96536	6.178 1040.9744	6.178 46.430377	6.178 324.52439
3.0895 188.19663	6.179 1040.5131	6.179 51.849836	6.179 326.10807
3.09 190.07375	6.18 1038.9114	6.18 58.52041	6.18 325.427
3.0905 191.1982	6.181 1036.4802	6.181 65.065046	6.181 322.8701
3.091 191.23689	6.182 1033.6457	6.182 70.415379	6.182 319.53509
3.0915 190.00945	6.183 1030.8411	6.183 74.255688	6.183 316.89512
3.092 187.60187	6.184 1028.4079	6.184 77.027984	6.184 316.25421
3.0925 184.492	6.185 1026.528	6.185 79.572457	6.185 318.24044
3.093 181.5789	6.186 1025.2018	6.186 82.669735	6.186 322.53152
3.0935 180.07346	6.187 1024.2702	6.187 86.680676	6.187 327.92374
3.094 181.19073	6.188 1023.4755	6.188 91.395415	6.188 332.68977
3.0945 185.71136	6.189 1022.5463	6.189 96.079501	6.189 335.11167
3.095 193.58544	6.19 1021.2885	6.19 99.756818	6.19 333.97353
3.0955 203.81243	6.191 1019.6615	6.191 101.5833	6.191 328.896
3.096 214.70742	6.192 1017.8169	6.192 101.21443	6.192 320.44894
3.0965 224.4458	6.193 1016.0824	6.193 98.949865	6.193 309.99895
3.097 231.6261	6.194 1014.8875	6.194 95.601607	6.194 299.34714
3.0975 235.57852	6.195 1014.6441	6.195 92.148276	6.195 290.23847
3.098 236.33343	6.196 1015.617	6.196 89.377663	6.196 283.8886
3.0985 234.32905	6.197 1017.8263	6.197 87.649658	6.197 280.6637
3.099 230.08013	6.198 1021.0194	6.198 86.916265	6.198 280.04513
3.0995 223.97299	6.199 1024.7261	6.199 86.890077	6.199 280.90064
3.1 216.27514	6.2 1028.3831	6.2 87.25693	6.2 281.96631
3.1005 207.32342	6.201 1031.482	6.201 87.783493	6.201 282.3703
3.101 197.73672	6.202 1033.6918	6.202 88.267978	6.202 281.97211
3.1015 188.47008	6.203 1034.9132	6.203 88.483403	6.203 281.37086
3.102 180.61413	6.204 1035.2536	6.204 88.186365	6.204 281.54209
3.1025 174.98215	6.205 1034.9435	6.205 87.275546	6.205 283.2993
3.103 171.71494	6.206 1034.2341	6.206 85.917591	6.206 286.82397
3.1035 170.18969	6.207 1033.3157	6.207 84.494817	6.207 291.54459
3.104 169.33426	6.208 1032.2813	6.208 83.366236	6.208 296.39981
3.1045 168.21725	6.209 1031.1342	6.209 82.5947	6.209 300.36027
3.105 166.54748	6.21 1029.8185	6.21 81.907445	6.21 302.90368
3.1055 164.81763	6.211 1028.25	6.211 80.958468	6.211 304.19848
3.106 163.99174	6.212 1026.3278	6.212 79.677428	6.212 304.91574
3.1065 164.94598	6.213 1023.928	6.213 78.429639	6.213 305.84948
3.107 167.98162	6.214 1020.8916	6.214 77.814467	6.214 307.56034
3.1075 172.67213	6.215 1017.024	6.215 78.269062	6.215 310.2524
3.108 178.10643	6.216 1012.1196	6.216 79.825203	6.216 313.81243
3.1085 183.33306	6.217 1006.0098	6.217 82.199869	6.217 317.8858
3.109 187.72468	6.218 998.61921	6.218 85.107153	6.218 321.90904
3.1095 191.00784	6.219 990.01001	6.219 88.437596	6.219 325.12687
3.11 193.02104	6.22 980.39488	6.22 92.115377	6.22 326.68377

3.1105 193.44552	6.221 970.11281	6.221 95.744984	6.221 325.88005
3.111 191.80476	6.222 959.57478	6.222 98.473027	6.222 322.4869
3.1115 187.78502	6.223 949.19702	6.223 99.239746	6.223 316.94471
3.112 181.71806	6.224 939.34148	6.224 97.327394	6.224 310.2978
3.1125 174.84917	6.225 930.27687	6.225 92.741515	6.225 303.85974
3.113 169.19089	6.226 922.1647	6.226 86.180479	6.226 298.75374
3.1135 166.93655	6.227 915.06597	6.227 78.627376	6.227 295.56563
3.114 169.63086	6.228 908.96058	6.228 70.938215	6.228 294.2967
3.1145 177.44399	6.229 903.77185	6.229 63.726642	6.229 294.60261
3.115 188.90514	6.23 899.39072	6.23 57.490987	6.23 296.12327
3.1155 201.32074	6.231 895.69592	6.231 52.749149	6.231 298.68649
3.116 211.7805	6.232 892.56647	6.232 49.967083	6.232 302.201
3.1165 218.31889	6.233 889.88303	6.233 49.300114	6.233 306.3975
3.117 220.61727	6.234 887.5166	6.234 50.41894	6.234 310.64315
3.1175 219.83343	6.235 885.30742	6.235 52.58715	6.235 314.02102
3.118 217.70889	6.236 883.04385	6.236 55.008407	6.236 315.65388
3.1185 215.53632	6.237 880.45562	6.237 57.242078	6.237 315.10883
3.119 213.60728	6.238 877.23563	6.238 59.410887	6.238 312.60063
3.1195 211.37578	6.239 873.09633	6.239 62.070569	6.239 308.97754
3.12 208.08012	6.24 867.85177	6.24 65.792974	6.24 305.45092
3.1205 203.33915	6.241 861.50023	6.241 70.776486	6.241 303.23511
3.121 197.41596	6.242 854.27341	6.242 76.638832	6.242 303.1849
3.1215 191.13606	6.243 846.62258	6.243 82.531087	6.243 305.54698
3.122 185.67431	6.244 839.13265	6.244 87.4125	6.244 309.89957
3.1225 182.32646	6.245 832.38371	6.245 90.346162	6.245 315.33736
3.123 182.25795	6.246 826.80439	6.246 90.709343	6.246 320.79637
3.1235 186.17869	6.247 822.56821	6.247 88.292882	6.247 325.44214
3.124 194.01616	6.248 819.56994	6.248 83.359732	6.248 328.96062
3.1245 204.75581	6.249 817.48707	6.249 76.649621	6.249 331.63923
3.125 216.62288	6.25 815.89923	6.25 69.271979	6.25 334.16616
3.1255 227.57717	6.251 814.4183	6.251 62.444619	6.251 337.21378
3.126 235.9037	6.252 812.78429	6.252 57.174904	6.252 340.98023
3.1265 240.6315	6.253 810.90157	6.253 54.046255	6.253 344.93002
3.127 241.59006	6.254 808.81715	6.254 53.22634	6.254 347.96502
3.1275 239.15612	6.255 806.66316	6.255 54.627297	6.255 348.9755
3.128 233.89084	6.256 804.59278	6.256 57.998513	6.256 347.43593
3.1285 226.33395	6.257 802.73233	6.257 62.868774	6.257 343.71403
3.129 217.06464	6.258 801.15916	6.258 68.450069	6.258 338.85526
3.1295 206.92457	6.259 799.90369	6.259 73.760927	6.259 334.06086
3.13 197.12427	6.26 798.96745	6.26 77.991297	6.26 330.1986
3.1305 189.03085	6.261 798.34827	6.261 80.902281	6.261 327.62154
3.131 183.69946	6.262 798.06414	6.262 82.906384	6.262 326.30412
3.1315 181.45171	6.263 798.16741	6.263 84.717166	6.263 326.13847
3.132 181.78385	6.264 798.74096	6.264 86.827399	6.264 327.07747
3.1325 183.68554	6.265 799.87201	6.265 89.189064	6.265 329.07556
3.133 186.16736	6.266 801.60676	6.266 91.291289	6.266 331.87661
3.1335 188.71833	6.267 803.89975	6.267 92.562502	6.267 334.89267
3.134 191.48016	6.268 806.57786	6.268 92.729033	6.268 337.33705
3.1345 195.08282	6.269 809.3371	6.269 91.903515	6.269 338.54207
3.135 200.24733	6.27 811.77977	6.27 90.299274	6.27 338.21513
3.1355 207.30126	6.271 813.48567	6.271 87.860163	6.271 336.43545

3.136 215.82654	6.272 814.09992	6.272 84.144303	6.272 333.4119
3.1365 224.5946	6.273 813.41597	6.273 78.650437	6.273 329.29232
3.137 231.88867	6.274 811.43508	6.274 71.373597	6.274 324.22501
3.1375 236.09473	6.275 808.38963	6.275 63.201319	6.275 318.61359
3.138 236.29948	6.276 804.72321	6.276 55.736666	6.276 313.28008
3.1385 232.63524	6.277 801.02648	6.277 50.606244	6.277 309.33959
3.139 226.17078	6.278 797.93525	6.278 48.663563	6.278 307.79877
3.1395 218.43025	6.279 796.00666	6.279 49.61537	6.279 309.12565
3.14 210.81689	6.28 795.59976	6.28 52.228209	6.28 313.01475
3.1405 204.24634	6.281 796.79081	6.281 55.009022	6.281 318.49092
3.141 199.14248	6.282 799.34884	6.282 56.941039	6.282 324.22756
3.1415 195.67526	6.283 802.78056	6.283 57.919018	6.283 328.98732
3.142 193.96573	6.284 806.4326	6.284 58.664821	6.284 332.00435
3.1425 194.07214	6.285 809.62072	6.285 60.209578	6.285 333.20264
3.143 195.80542	6.286 811.74865	6.286 63.181136	6.286 333.15968
3.1435 198.60143	6.287 812.38681	6.287 67.387925	6.287 332.80179
3.144 201.64803	6.288 811.29845	6.288 71.935298	6.288 332.96158
3.1445 204.23917	6.289 808.42141	6.289 75.752797	6.289 333.9923
3.145 206.1156	6.29 803.82677	6.29 78.131886	6.29 335.64484
3.1455 207.54521	6.291 797.67858	6.291 78.901145	6.291 337.25246
3.146 209.07624	6.292 790.21067	6.292 78.251739	6.292 338.13393
3.1465 211.11651	6.293 781.72289	6.293 76.482932	6.293 337.96282
3.147 213.59381	6.294 772.58707	6.294 73.899424	6.294 336.88906
3.1475 215.87737	6.295 763.24599	6.295 70.852251	6.295 335.37413
3.148 217.03279	6.296 754.18991	6.296 67.709044	6.296 333.90239
3.1485 216.25861	6.297 745.90302	6.297 64.710143	6.297 332.81675
3.149 213.3014	6.298 738.7844	6.298 61.833844	6.298 332.32969
3.1495 208.63572	6.299 733.06138	6.299 58.847005	6.299 332.65584
3.15 203.3049	6.3 728.72275	6.3 55.51444	6.3 334.03219
3.1505 198.5134	6.301 725.50045	6.301 51.866516	6.301 336.53375
3.151 195.13035	6.302 722.91812	6.302 48.334802	6.302 339.81805
3.1515 193.36358	6.303 720.40408	6.303 45.693821	6.303 343.04497
3.152 192.72074	6.304 717.44204	6.304 44.814292	6.304 345.14412
3.1525 192.30497	6.305 713.71526	6.305 46.345311	6.305 345.31699
3.153 191.34179	6.306 709.19771	6.306 50.378115	6.306 343.43824
3.1535 189.66906	6.307 704.16211	6.307 56.298623	6.307 340.11822
3.154 187.94135	6.308 699.10327	6.308 62.915622	6.308 336.36293
3.1545 187.39679	6.309 694.60379	6.309 68.881347	6.309 333.12703
3.155 189.2751	6.31 691.18685	6.31 73.19381	6.31 331.01089
3.1555 194.1457	6.311 689.20032	6.311 75.586281	6.311 330.27276
3.156 201.47924	6.312 688.76026	6.312 76.536228	6.312 331.02016
3.1565 209.70567	6.313 689.75802	6.313 76.957963	6.313 333.36146
3.157 216.76349	6.314 691.91498	6.314 77.700916	6.314 337.36576
3.1575 220.94099	6.315 694.85818	6.315 79.091327	6.315 342.87507
3.158 221.62983	6.316 698.19193	6.316 80.728722	6.316 349.36493
3.1585 219.61476	6.317 701.54978	6.317 81.651139	6.317 355.96736
3.159 216.71587	6.318 704.62306	6.318 80.798589	6.318 361.68403
3.1595 214.94195	6.319 707.17085	6.319 77.559759	6.319 365.63613
3.16 215.59713	6.32 709.01961	6.32 72.10163	6.32 367.27417
3.1605 218.79086	6.321 710.06071	6.321 65.32522	6.321 366.49883
3.161 223.56948	6.322 710.25045	6.322 58.525236	6.322 363.7138

3.1615 228.51545	6.323 709.61404	6.323 52.9836	6.323 359.80533
3.162 232.41535	6.324 708.25077	6.324 49.670623	6.324 355.9261
3.1625 234.67642	6.325 706.33503	6.325 49.079829	6.325 353.0956
3.163 235.31631	6.326 704.10629	6.326 51.131133	6.326 351.79895
3.1635 234.70955	6.327 701.84325	6.327 55.168813	6.327 351.77879
3.164 233.30391	6.328 699.82223	6.328 60.136427	6.328 352.22428
3.1645 231.52155	6.329 698.26742	6.329 64.923039	6.329 352.20163
3.165 229.80691	6.33 697.30664	6.33 68.74001	6.33 351.09329
3.1655 228.66906	6.331 696.9483	6.331 71.363643	6.331 348.7636
3.166 228.59957	6.332 697.09069	6.332 73.088846	6.332 345.46105
3.1665 229.83297	6.333 697.56445	6.333 74.457632	6.333 341.62518
3.167 232.11829	6.334 698.19709	6.334 75.826261	6.334 337.77707
3.1675 234.68573	6.335 698.87911	6.335 77.078838	6.335 334.51448
3.168 236.5133	6.336 699.60886	6.336 77.583191	6.336 332.45245
3.1685 236.80565	6.337 700.49933	6.337 76.543101	6.337 332.03211
3.169 235.41365	6.338 701.74159	6.338 73.507885	6.338 333.26549
3.1695 232.99056	6.339 703.53355	6.339 68.768761	6.339 335.64176
3.17 230.79523	6.34 705.99411	6.34 63.35882	6.34 338.27875
3.1705 230.20457	6.341 709.08895	6.341 58.615561	6.341 340.28214
3.171 232.15078	6.342 712.59272	6.342 55.576374	6.342 341.13171
3.1715 236.71007	6.343 716.10404	6.343 54.558211	6.343 340.9194
3.172 243.00147	6.344 719.11492	6.344 55.141783	6.344 340.31004
3.1725 249.44582	6.345 721.11939	6.345 56.498431	6.345 340.16903
3.173 254.303	6.346 721.73222	6.346 57.851003	6.346 341.02207
3.1735 256.27126	6.347 720.7826	6.347 58.820845	6.347 342.64727
3.174 254.92368	6.348 718.35371	6.348 59.481782	6.348 344.07321
3.1745 250.8114	6.349 714.75488	6.349 60.212722	6.349 344.09205
3.175 245.18481	6.35 710.43525	6.35 61.430669	6.35 341.94636
3.1755 239.48259	6.351 705.86636	6.351 63.353416	6.351 337.73712
3.176 234.75014	6.352 701.43099	6.352 65.852613	6.352 332.33675
3.1765 231.25302	6.353 697.35169	6.353 68.454461	6.353 326.91648
3.177 228.42713	6.354 693.67801	6.354 70.523104	6.354 322.49225
3.1775 225.23728	6.355 690.33114	6.355 71.542282	6.355 319.71705
3.178 220.80396	6.356 687.18613	6.356 71.348229	6.356 318.9391
3.1785 215.00223	6.357 684.16119	6.357 70.165546	6.357 320.25838
3.179 208.68859	6.358 681.28268	6.358 68.430751	6.358 323.51382
3.1795 203.35773	6.359 678.70415	6.359 66.525996	6.359 328.20425
3.18 200.40068	6.36 676.67345	6.36 64.583795	6.36 333.52514
3.1805 200.40448	6.361 675.45931	6.361 62.513575	6.361 338.54325
3.181 202.9317	6.362 675.26248	6.362 60.177468	6.362 342.45405
3.1815 206.88161	6.363 676.14103	6.363 57.635515	6.363 344.76317
3.182 211.12856	6.364 677.97436	6.364 55.244785	6.364 345.35202
3.1825 214.9974	6.365 680.47659	6.365 53.551627	6.365 344.46113
3.183 218.35004	6.366 683.25301	6.366 53.010155	6.366 342.66962
3.1835 221.30592	6.367 685.87967	6.367 53.697817	6.367 340.8408
3.184 223.88123	6.368 687.98102	6.368 55.238301	6.368 339.96436
3.1845 225.81734	6.369 689.28516	6.369 56.986573	6.369 340.8537
3.185 226.68924	6.37 689.64792	6.37 58.39968	6.37 343.78626
3.1855 226.23768	6.371 689.0486	6.371 59.301401	6.371 348.2937
3.186 224.69182	6.372 687.56812	6.372 59.856125	6.372 353.26645
3.1865 222.83026	6.373 685.36001	6.373 60.291969	6.373 357.39407

3.187 221.67235	6.374 682.62093	6.374 60.594743	6.374 359.6755
3.1875 221.9525	6.375 679.56212	6.375 60.4812	6.375 359.79792
3.188 223.69954	6.376 676.38187	6.376 59.685614	6.376 358.185
3.1885 226.24576	6.377 673.24081	6.377 58.354603	6.377 355.75431
3.189 228.68121	6.378 670.24502	6.378 57.182086	6.378 353.55733
3.1895 230.46407	6.379 667.44282	6.379 57.122127	6.379 352.44687
3.19 231.75979	6.38 664.83803	6.38 58.859309	6.38 352.84753
3.1905 233.26901	6.381 662.41697	6.381 62.424601	6.381 354.66271
3.191 235.66157	6.382 660.18069	6.382 67.223514	6.382 357.38085
3.1915 239.03839	6.383 658.17165	6.383 72.379024	6.383 360.34718
3.192 242.78845	6.384 656.48546	6.384 77.13623	6.384 363.12436
3.1925 245.90889	6.385 655.2624	6.385 81.049256	6.385 365.70086
3.193 247.53735	6.386 654.65933	6.386 83.92558	6.386 368.4428
3.1935 247.36935	6.387 654.80705	6.387 85.688963	6.387 371.77563
3.194 245.74149	6.388 655.7627	6.388 86.317498	6.388 375.84374
3.1945 243.44643	6.389 657.4697	6.389 85.905059	6.389 380.32905
3.195 241.40158	6.39 659.73855	6.39 84.751777	6.39 384.58288
3.1955 240.32686	6.391 662.25931	6.391 83.380433	6.391 387.95272
3.196 240.52733	6.392 664.64901	6.392 82.391141	6.392 390.08591
3.1965 241.81931	6.393 666.52604	6.393 82.259533	6.393 390.99683
3.197 243.60809	6.394 667.59315	6.394 83.187616	6.394 390.88531
3.1975 245.07373	6.395 667.70521	6.395 85.041315	6.395 389.86934
3.198 245.35659	6.396 666.9014	6.396 87.377853	6.396 387.85765
3.1985 243.72698	6.397 665.39211	6.397 89.489346	6.397 384.68282
3.199 239.72749	6.398 663.50471	6.398 90.491136	6.398 380.40722
3.1995 233.31686	6.399 661.60385	6.399 89.526108	6.399 375.59733
3.2 224.99259	6.4 660.00744	6.4 86.114254	6.4 371.33966
3.2005 215.82796	6.401 658.91865	6.401 80.513802	6.401 368.96428
3.201 207.35282	6.402 658.38935	6.402 73.856913	6.402 369.56011
3.2015 201.28453	6.403 658.32169	6.403 67.888636	6.403 373.47138
3.202 199.13466	6.404 658.50544	6.404 64.360645	6.404 379.98603
3.2025 201.79748	6.405 658.67873	6.405 64.355481	6.405 387.40577
3.203 209.22195	6.406 658.59362	6.406 67.874622	6.406 393.52264
3.2035 220.31322	6.407 658.06714	6.407 73.916944	6.407 396.40983
3.204 233.15356	6.408 657.00504	6.408 80.962652	6.408 395.17201
3.2045 245.53203	6.409 655.39731	6.409 87.539182	6.409 390.31888
3.205 255.56072	6.41 653.29547	6.41 92.607568	6.41 383.58063
3.2055 262.12091	6.411 650.78687	6.411 95.650293	6.411 377.24397
3.206 264.95297	6.412 647.97829	6.412 96.559741	6.412 373.33716
3.2065 264.46959	6.413 644.99179	6.413 95.481829	6.413 372.99082
3.207 261.41832	6.414 641.96786	6.414 92.70404	6.414 376.19527
3.2075 256.6127	6.415 639.06699	6.415 88.565311	6.415 381.9134
3.208 250.78665	6.416 636.46482	6.416 83.447153	6.416 388.45627
3.2085 244.56507	6.417 634.34132	6.417 77.83813	6.417 393.9842
3.209 238.48806	6.418 632.86846	6.418 72.461021	6.418 396.99182
3.2095 233.04056	6.419 632.19985	6.419 68.267277	6.419 396.6901
3.21 228.64208	6.42 632.46072	6.42 66.188464	6.42 393.17903
3.2105 225.58134	6.421 633.7339	6.421 66.723919	6.421 387.43346
3.211 223.95741	6.422 636.03777	6.422 69.683198	6.422 381.05908
3.2115 223.69013	6.423 639.2979	6.423 74.244142	6.423 375.87654
3.212 224.64194	6.424 643.32052	6.424 79.348684	6.424 373.38202

3.2125 226.72627	6.425 647.78001	6.425 84.171027	6.425 374.2261
3.213 229.89261	6.426 652.23181	6.426 88.367795	6.426 377.95743
3.2135 233.9892	6.427 656.15767	6.427 92.036139	6.427 383.21064
3.214 238.57659	6.428 659.04181	6.428 95.426743	6.428 388.28098
3.2145 242.9089	6.429 660.46803	6.429 98.63448	6.429 391.82265
3.215 246.0792	6.43 660.21868	6.43 101.4277	6.43 393.28173
3.2155 247.28672	6.431 658.34982	6.431 103.28573	6.431 392.9231
3.216 246.054	6.432 655.21611	6.432 103.58413	6.432 391.47862
3.2165 242.34734	6.433 651.42622	6.433 101.81135	6.433 389.70907
3.217 236.61744	6.434 647.72705	6.434 97.747918	6.434 388.09056
3.2175 229.7775	6.435 644.83762	6.435 91.575138	6.435 386.72676
3.218 223.07662	6.436 643.27501	6.436 83.951701	6.436 385.49223
3.2185 217.81911	6.437 643.22429	6.437 75.986888	6.437 384.30767
3.219 214.95955	6.438 644.49654	6.438 69.045444	6.438 383.37545
3.2195 214.80878	6.439 646.59317	6.439 64.359427	6.439 383.21335
3.22 217.03902	6.44 648.85906	6.44 62.638079	6.44 384.40129
3.2205 221.02956	6.441 650.67605	6.441 63.851842	6.441 387.14894
3.221 226.30369	6.442 651.63392	6.442 67.349281	6.442 390.97764
3.2215 232.7393	6.443 651.62548	6.443 72.130088	6.443 394.77851
3.222 240.37738	6.444 650.84186	6.444 77.171327	6.444 397.28679
3.2225 248.99498	6.445 649.68025	6.445 81.636544	6.445 397.69518
3.223 257.79706	6.446 648.60522	6.446 84.952995	6.446 396.01182
3.2235 265.48594	6.447 648.01489	6.447 86.813469	6.447 392.98247
3.224 270.68647	6.448 648.15305	6.448 87.184337	6.448 389.65393
3.2245 272.45512	6.449 649.08452	6.449 86.257721	6.449 386.88352
3.225 270.60224	6.45 650.72556	6.45 84.431615	6.45 385.07842
3.2255 265.68884	6.451 652.90423	6.451 82.241999	6.451 384.22857
3.226 258.76091	6.452 655.42259	6.452 80.27624	6.452 384.15397
3.2265 251.02814	6.453 658.10139	6.453 79.024604	6.453 384.78798
3.227 243.56462	6.454 660.80177	6.454 78.70022	6.454 386.32241
3.2275 237.14884	6.455 663.42955	6.455 79.133405	6.455 389.14184
3.228 232.21312	6.456 665.93176	6.456 79.846057	6.456 393.58599
3.2285 228.90507	6.457 668.29173	6.457 80.337024	6.457 399.62188
3.229 227.25157	6.458 670.52391	6.458 80.410477	6.458 406.62787
3.2295 227.30538	6.459 672.66535	6.459 80.314966	6.459 413.43067
3.23 229.19472	6.46 674.76223	6.46 80.572514	6.46 418.6685
3.2305 232.98143	6.461 676.85371	6.461 81.61719	6.461 421.32939
3.231 238.39235	6.462 678.95937	6.462 83.502909	6.462 421.2543
3.2315 244.63376	6.463 681.07668	6.463 85.87695	6.463 419.28039
3.232 250.4397	6.464 683.1902	6.464 88.208267	6.464 416.93413
3.2325 254.39805	6.465 685.28742	6.465 90.030778	6.465 415.76232
3.233 255.43249	6.466 687.37107	6.466 91.068739	6.466 416.62745
3.2335 253.21293	6.467 689.45815	6.467 91.16584	6.467 419.35182
3.234 248.33855	6.468 691.56301	6.468 90.20938	6.468 422.87623
3.2345 242.19181	6.469 693.67126	6.469 88.100455	6.469 425.80705
3.235 236.48725	6.47 695.71947	6.47 84.846524	6.47 427.05791
3.2355 232.66178	6.471 697.59504	6.471 80.660385	6.471 426.20892
3.236 231.36537	6.472 699.16223	6.472 75.982263	6.472 423.48884
3.2365 232.32615	6.473 700.30574	6.473 71.335078	6.473 419.48977
3.237 234.64324	6.474 700.97168	6.474 67.108151	6.474 414.87755
3.2375 237.36703	6.475 701.18295	6.475 63.406726	6.475 410.23636

3.238 239.99023	6.476 701.01674	6.476 60.11608	6.476 406.0439
3.2385 242.59856	6.477 700.55104	6.477 57.094102	6.477 402.66385
3.239 245.62116	6.478 699.80573	6.478 54.356438	6.478 400.32055
3.2395 249.42498	6.479 698.71118	6.479 52.088571	6.479 399.0709
3.24 253.97605	6.48 697.12751	6.48 50.590643	6.48 398.85868
3.2405 258.79206	6.481 694.91406	6.481 50.244675	6.481 399.61543
3.241 263.17348	6.482 692.0224	6.482 51.546864	6.482 401.37814
3.2415 266.56442	6.483 688.57075	6.483 55.054833	6.483 404.20838
3.242 268.84423	6.484 684.86241	6.484 61.157456	6.484 407.97975
3.2425 270.33319	6.485 681.33273	6.485 69.732161	6.485 412.14431
3.243 271.49144	6.486 678.43903	6.486 79.924587	6.486 415.75877
3.2435 272.50409	6.487 676.52975	6.487 90.250447	6.487 417.8371
3.244 273.03	6.488 675.73476	6.488 98.971794	6.488 417.91574
3.2445 272.34154	6.489 675.90729	6.489 104.56448	6.489 416.41
3.245 269.79301	6.49 676.62816	6.49 106.08237	6.49 414.5381
3.2455 265.31141	6.491 677.26498	6.491 103.31343	6.491 413.76524
3.246 259.60444	6.492 677.0696	6.492 96.803873	6.492 415.09676
3.2465 253.94212	6.493 675.29514	6.493 87.748292	6.493 418.62144
3.247 249.68324	6.494 671.3159	6.494 77.836729	6.494 423.50508
3.2475 247.79124	6.495 664.73386	6.495 68.9846	6.495 428.39162
3.248 248.56752	6.496 655.45421	6.496 62.971554	6.496 431.96239
3.2485 251.6382	6.497 643.71317	6.497 60.997867	6.497 433.39866
3.249 256.14479	6.498 630.04796	6.498 63.315511	6.498 432.62576
3.2495 261.06065	6.499 615.21152	6.499 69.086804	6.499 430.34241
3.25 265.52514	6.5 600.04989	6.5 76.596631	6.5 427.86365
3.2505 269.0951	6.501 585.37137	6.501 83.804265	6.501 426.75025
3.251 271.79474	6.502 571.83772	6.502 88.963808	6.502 428.26642
3.2515 273.92955	6.503 559.89972	6.503 91.082613	6.503 432.82373
3.252 275.7667	6.504 549.78451	6.504 90.017082	6.504 439.7145
3.2525 277.26078	6.505 541.52769	6.505 86.303277	6.505 447.31333
3.253 277.96395	6.506 535.03326	6.506 80.868933	6.506 453.7157
3.2535 277.19483	6.507 530.14084	6.507 74.76546	6.507 457.45998
3.254 274.38578	6.508 526.6821	6.508 68.950241	6.508 458.00143
3.2545 269.46747	6.509 524.51411	6.509 64.101696	6.509 455.74869
3.255 263.06115	6.51 523.52477	6.51 60.514042	6.51 451.74665
3.2555 256.33788	6.511 523.61296	6.511 58.11346	6.511 447.21291
3.256 250.57988	6.512 524.6524	6.512 56.593943	6.512 443.11355
3.2565 246.70859	6.513 526.45221	6.513 55.651163	6.513 439.91373
3.257 245.04876	6.514 528.72878	6.514 55.158131	6.514 437.5521
3.2575 245.42791	6.515 531.10186	6.515 55.23914	6.515 435.60847
3.258 247.43951	6.516 533.12252	6.516 56.212001	6.516 433.58843
3.2585 250.61949	6.517 534.33261	6.517 58.417659	6.517 431.16215
3.259 254.45684	6.518 534.34573	6.518 62.028216	6.518 428.30794
3.2595 258.35774	6.519 532.93129	6.519 66.915495	6.519 425.33
3.26 261.72806	6.52 530.0785	6.52 72.665291	6.52 422.75523
3.2605 264.17555	6.521 526.01947	6.521 78.688489	6.521 421.19399
3.261 265.65861	6.522 521.19934	6.522 84.359708	6.522 421.15161
3.2615 266.42762	6.523 516.19569	6.523 89.128109	6.523 422.84337
3.262 266.8034	6.524 511.6048	6.524 92.638464	6.524 426.05452
3.2625 266.98111	6.525 507.92324	6.525 94.867933	6.525 430.13026
3.263 267.01066	6.526 505.45623	6.526 96.205076	6.526 434.17506

3.2635 266.90115	6.527 504.27614	6.527 97.337866	6.527 437.3581
3.264 266.72436	6.528 504.23929	6.528 98.891609	6.528 439.20766
3.2645 266.54349	6.529 505.05061	6.529 101.03264	6.529 439.72469
3.265 266.26271	6.53 506.3523	6.53 103.31919	6.53 439.3055
3.2655 265.49681	6.531 507.80817	6.531 104.99034	6.531 438.56555
3.266 263.68487	6.532 509.16172	6.532 105.49605	6.532 438.1703
3.2665 260.43302	6.533 510.2589	6.533 104.86357	6.533 438.70722
3.267 255.8887	6.534 511.03944	6.534 103.59788	6.534 440.5446
3.2675 250.90586	6.535 511.50888	6.535 102.19541	6.535 443.70462
3.268 246.80444	6.536 511.70377	6.536 100.67729	6.536 447.76794
3.2685 244.82404	6.537 511.65899	6.537 98.593039	6.537 451.96777
3.269 245.57438	6.538 511.38213	6.538 95.496713	6.538 455.43486
3.2695 248.81079	6.539 510.83849	6.539 91.609082	6.539 457.54165
3.27 253.6381	6.54 509.95173	6.54 88.053741	6.54 458.16867
3.2705 258.98925	6.541 508.62529	6.541 86.455456	6.541 457.76141
3.271 264.06446	6.542 506.78565	6.542 88.10258	6.542 457.10788
3.2715 268.49775	6.543 504.43913	6.543 93.224372	6.543 456.90471
3.272 272.21662	6.544 501.7234	6.544 100.82011	6.544 457.33346
3.2725 275.13445	6.545 498.9293	6.545 109.10025	6.545 457.9122
3.273 276.90612	6.546 496.47337	6.546 116.21348	6.546 457.71055
3.2735 276.92659	6.547 494.81758	6.547 120.86994	6.547 455.88518
3.274 274.57842	6.548 494.35413	6.548 122.62973	6.548 452.22676
3.2745 269.61622	6.549 495.29117	6.549 121.84153	6.549 447.42024
3.275 262.46395	6.55 497.5799	6.55 119.39687	6.55 442.83152
3.2755 254.28279	6.551 500.91131	6.551 116.3792	6.551 439.90154
3.276 246.7763	6.552 504.78575	6.552 113.77683	6.552 439.46912
3.2765 241.75785	6.553 508.6322	6.553 112.30736	6.553 441.37119
3.277 240.61528	6.554 511.93741	6.554 112.39383	6.554 444.58824
3.2775 243.78006	6.555 514.34593	6.555 114.16613	6.555 447.82521
3.278 250.4468	6.556 515.70791	6.556 117.41788	6.556 450.18362
3.2785 258.69994	6.557 516.0732	6.557 121.54289	6.557 451.51551
3.279 266.16312	6.558 515.64752	6.558 125.5847	6.558 452.23863
3.2795 270.9527	6.559 514.7321	6.559 128.468	6.559 452.8511
3.28 272.47403	6.56 513.66368	6.56 129.35216	6.56 453.48021
3.2805 271.63593	6.561 512.76276	6.561 127.87333	6.561 453.84681
3.281 270.31202	6.562 512.2905	6.562 124.15045	6.562 453.56659
3.2815 270.32826	6.563 512.41229	6.563 118.6695	6.563 452.54915
3.282 272.50006	6.564 513.16842	6.564 112.158	6.564 451.18132
3.2825 276.21847	6.565 514.45605	6.565 105.58399	6.565 450.16552
3.283 279.77491	6.566 516.02918	6.566 100.13051	6.566 450.15054
3.2835 281.2639	6.567 517.52342	6.567 96.949209	6.567 451.39313
3.284 279.58102	6.568 518.50812	6.568 96.70176	6.568 453.62046
3.2845 275.00286	6.569 518.56108	6.569 99.14803	6.569 456.12076
3.285 269.04498	6.57 517.35286	6.57 103.14088	6.57 458.01782
3.2855 263.68336	6.571 514.72141	6.571 107.10582	6.571 458.62685
3.286 260.38719	6.572 510.71733	6.572 109.74048	6.572 457.76957
3.2865 259.49653	6.573 505.60693	6.573 110.52755	6.573 455.92825
3.287 260.24127	6.574 499.8317	6.574 109.77167	6.574 454.12062
3.2875 261.32684	6.575 493.93498	6.575 108.20809	6.575 453.53059
3.288 261.68063	6.576 488.47353	6.576 106.54717	6.576 455.01554
3.2885 260.97038	6.577 483.93274	6.577 105.19126	6.577 458.73212

3.289 259.71067	6.578 480.66071	6.578 104.26763	6.578 464.05985
3.2895 258.96825	6.579 478.83058	6.579 103.79089	6.579 469.82465
3.29 259.90461	6.58 478.43591	6.58 103.84785	6.58 474.72993
3.2905 263.33276	6.581 479.31828	6.581 104.62956	6.581 477.7866
3.291 269.46806	6.582 481.21956	6.582 106.32817	6.582 478.60038
3.2915 277.88218	6.583 483.84424	6.583 108.99226	6.583 477.41953
3.292 287.60068	6.584 486.91306	6.584 112.43376	6.584 474.90859
3.2925 297.26644	6.585 490.19213	6.585 116.25487	6.585 471.78301
3.293 305.36785	6.586 493.49225	6.586 119.96958	6.586 468.4449
3.2935 310.5253	6.587 496.64716	6.587 123.10811	6.587 464.89722
3.294 311.80115	6.588 499.48897	6.588 125.25171	6.588 460.94467
3.2945 308.92503	6.589 501.8392	6.589 126.04866	6.589 456.53089
3.295 302.32422	6.59 503.52431	6.59 125.31105	6.59 451.97118
3.2955 292.96445	6.591 504.41164	6.591 123.20013	6.591 447.90395
3.296 282.12094	6.592 504.45153	6.592 120.37454	6.592 445.00445
3.2965 271.18818	6.593 503.7091	6.593 117.89834	6.593 443.6904
3.297 261.52527	6.594 502.37327	6.594 116.86914	6.594 443.9934
3.2975 254.27545	6.595 500.73746	6.595 117.90147	6.595 445.63329
3.298 250.16343	6.596 499.15306	6.596 120.75096	6.596 448.2198
3.2985 249.3924	6.597 497.96185	6.597 124.31797	6.597 451.38882
3.299 251.70458	6.598 497.41865	6.598 127.05349	6.598 454.81566
3.2995 256.57971	6.599 497.62104	6.599 127.62817	6.599 458.15556
3.3 263.39242	6.6 498.46636	6.6 125.51799	6.6 461.01867
3.3005 271.42323	6.601 499.65409	6.601 121.19365	6.601 463.04717
3.301 279.73972	6.602 500.74179	6.602 115.86924	6.602 464.08923
3.3015 287.10644	6.603 501.24605	6.603 110.95508	6.603 464.28966
3.302 292.08644	6.604 500.76259	6.604 107.54148	6.604 464.07464
3.3025 293.35208	6.605 499.07029	6.605 106.1122	6.605 463.9567
3.303 290.14549	6.606 496.18743	6.606 106.544	6.606 464.32427
3.3035 282.66896	6.607 492.36475	6.607 108.29511	6.607 465.29574
3.304 272.18763	6.608 488.02241	6.608 110.66928	6.608 466.72813
3.3045 260.72966	6.609 483.6559	6.609 113.02943	6.609 468.33772
3.305 250.47977	6.61 479.7421	6.61 114.92855	6.61 469.85761
3.3055 243.16551	6.611 476.66878	6.611 116.11851	6.611 471.12825
3.306 239.72541	6.612 474.6954	6.612 116.4638	6.612 472.08751
3.3065 240.31194	6.613 473.93809	6.613 115.87217	6.613 472.71957
3.307 244.47778	6.614 474.36659	6.614 114.32261	6.614 473.04015
3.3075 251.34166	6.615 475.80442	6.615 111.9088	6.615 473.14139
3.308 259.68156	6.616 477.93364	6.616 108.9171	6.616 473.24668
3.3085 268.05095	6.617 480.31214	6.617 105.81839	6.617 473.69731
3.309 275.03299	6.618 482.41063	6.618 103.24614	6.618 474.80774
3.3095 279.55497	6.619 483.66872	6.619 101.9461	6.619 476.66083
3.31 281.10921	6.62 483.55917	6.62 102.64442	6.62 478.95281
3.3105 279.74587	6.621 481.64415	6.621 105.78753	6.621 481.02087
3.311 275.88193	6.622 477.60983	6.622 111.18984	6.622 482.07818
3.3115 270.11269	6.623 471.27449	6.623 117.83113	6.623 481.54756
3.312 263.14825	6.624 462.57577	6.624 123.97481	6.624 479.30396
3.3125 255.86069	6.625 451.54957	6.625 127.67941	6.625 475.70096
3.313 249.28234	6.626 438.31339	6.626 127.51644	6.626 471.40489
3.3135 244.46858	6.627 423.06223	6.627 123.17151	6.627 467.15654
3.314 242.2465	6.628 406.07645	6.628 115.66979	6.628 463.62825

3.3145 242.98834	6.629 387.73373	6.629 107.12184	6.629 461.35835
3.315 246.51209	6.63 368.51263	6.63 100.10595	6.63 460.74373
3.3155 252.14719	6.631 348.97668	6.631 96.831332	6.631 461.98021
3.316 258.88917	6.632 329.73446	6.632 98.364183	6.632 464.98264
3.3165 265.63171	6.633 311.38093	6.633 104.19922	6.633 469.33474
3.317 271.39691	6.634 294.43284	6.634 112.46137	6.634 474.32064
3.3175 275.52473	6.635 279.27373	6.635 120.71186	6.635 479.04792
3.318 277.77181	6.636 266.12017	6.636 127.03532	6.636 482.66422
3.3185 278.32449	6.637 255.01321	6.637 130.82493	6.637 484.5932
3.319 277.7449	6.638 245.83285	6.638 132.78463	6.638 484.72518
3.3195 276.84601	6.639 238.32976	6.639 134.20435	6.639 483.46931
3.32 276.47651	6.64 232.16932	6.64 135.98228	6.64 481.6008
3.3205 277.2153	6.641 226.98308	6.641 138.0444	6.641 479.93905
3.321 279.08297	6.642 222.42156	6.642 139.52632	6.642 478.97381
3.3215 281.45248	6.643 218.19977	6.643 139.41978	6.643 478.66407
3.322 283.26898	6.644 214.12566	6.644 137.2326	6.644 478.52445
3.3225 283.49323	6.645 210.10546	6.645 133.22995	6.645 478.01091
3.323 281.54798	6.646 206.1274	6.646 128.23017	6.646 476.98017
3.3235 277.55529	6.647 202.23287	6.647 123.25521	6.647 475.95653
3.324 272.28292	6.648 198.48707	6.648 119.2537	6.648 475.97565
3.3245 266.89479	6.649 194.95797	6.649 117.01574	6.649 478.04797
3.325 262.62338	6.65 191.70485	6.65 117.13592	6.65 482.50935
3.3255 260.46855	6.651 188.77073	6.651 119.86863	6.651 488.64153
3.326 260.96306	6.652 186.1715	6.652 124.9503	6.652 494.80564
3.3265 264.03971	6.653 183.8788	6.653 131.54091	6.653 499.074
3.327 269.05431	6.654 181.80097	6.654 138.41892	6.654 500.04455
3.3275 274.95171	6.655 179.77231	6.655 144.35771	6.655 497.44897
3.328 280.54739	6.656 177.56131	6.656 148.47295	6.656 492.2494
3.3285 284.83128	6.657 174.90262	6.657 150.3642	6.657 486.23867
3.329 287.15974	6.658 171.54832	6.658 150.05348	6.658 481.35656
3.3295 287.31884	6.659 167.32545	6.659 147.87768	6.659 479.04141
3.33 285.47149	6.66 162.18314	6.66 144.41451	6.66 479.81918
3.3305 282.11514	6.661 156.21594	6.661 140.43985	6.661 483.20303
3.331 278.06553	6.662 149.65737	6.662 136.79234	6.662 487.88957
3.3315 274.3962	6.663 142.84719	6.663 134.0908	6.663 492.18942
3.332 272.23843	6.664 136.18185	6.664 132.44955	6.664 494.61954
3.3325 272.45507	6.665 130.05992	6.665 131.41607	6.665 494.50027
3.333 275.34436	6.666 124.83207	6.666 130.24597	6.666 492.30196
3.3335 280.51031	6.667 120.76131	6.667 128.42529	6.667 489.49594
3.334 286.94981	6.668 117.99646	6.668 126.09305	6.668 487.86699
3.3345 293.27742	6.669 116.56008	6.669 124.03964	6.669 488.6421
3.335 298.02439	6.67 116.35226	6.67 123.26628	6.67 491.87577
3.3355 300	6.671 117.17087	6.671 124.35639	6.671 496.46693
3.336 298.67625	6.672 118.74669	6.672 127.04724	6.672 500.75219
3.3365 294.47715	6.673 120.7872	6.673 130.28297	6.673 503.33505
3.337 288.81562	6.674 123.01905	6.674 132.65241	6.674 503.67131
3.3375 283.75002	6.675 125.21828	6.675 132.98992	6.675 502.16925
3.338 281.36052	6.676 127.22152	6.676 130.86729	6.676 499.85725
3.3385 283.07023	6.677 128.91902	6.677 126.76154	6.677 497.86753
3.339 289.18613	6.678 130.23728	6.678 121.92991	6.678 496.97442
3.3395 298.81962	6.679 131.12181	6.679 117.97559	6.679 497.32176

3.34 310.23305	6.68 131.52666	6.68 116.29054	6.68 498.39193
3.3405 321.44017	6.681 131.41174	6.681 117.59055	6.681 499.22792
3.341 330.80913	6.682 130.74407	6.682 121.75626	6.682 498.83318
3.3415 337.42248	6.683 129.49946	6.683 128.07926	6.683 496.64922
3.342 341.05314	6.684 127.66492	6.684 135.69782	6.684 492.90551
3.3425 341.90552	6.685 125.2452	6.685 143.93787	6.685 488.65623
3.343 340.30862	6.686 122.27489	6.686 152.35753	6.686 485.38748
3.3435 336.60022	6.687 118.83176	6.687 160.53615	6.687 484.33304
3.344 331.19784	6.688 115.04061	6.688 167.88272	6.688 485.83247
3.3445 324.7118	6.689 111.0577	6.689 173.66437	6.689 489.07716
3.345 317.93824	6.69 107.03419	6.69 177.27354	6.69 492.42962
3.3455 311.71755	6.691 103.07127	6.691 178.51021	6.691 494.16824
3.346 306.75953	6.692 99.189407	6.692 177.6284	6.692 493.31548
3.3465 303.56481	6.693 95.332754	6.693 175.08399	6.693 490.11422
3.347 302.44405	6.694 91.414671	6.694 171.16911	6.694 485.91094
3.3475 303.52808	6.695 87.388968	6.695 165.85736	6.695 482.5085
3.348 306.70134	6.696 83.314684	6.696 159.00529	6.696 481.34387
3.3485 311.50992	6.697 79.38077	6.697 150.76676	6.697 482.90614
3.349 317.14905	6.698 75.872712	6.698 141.8473	6.698 486.65716
3.3495 322.58401	6.699 73.088954	6.699 133.38252	6.699 491.43065
3.35 326.784	6.7 71.238478	6.7 126.4999	6.7 496.01842
3.3505 328.92819	6.701 70.360687	6.701 121.86752	6.701 499.65996
3.351 328.51819	6.702 70.300472	6.702 119.56369	6.702 502.23122
3.3515 325.41337	6.703 70.749126	6.703 119.23452	6.703 504.16631
3.352 319.87264	6.704 71.335686	6.704 120.37655	6.704 506.20877
3.3525 312.6291	6.705 71.734169	6.705 122.43848	6.705 509.06875
3.353 304.88745	6.706 71.747374	6.706 124.77943	6.706 513.08076
3.3535 298.11299	6.707 71.3382	6.707 126.63883	6.707 517.96657
3.354 293.58414	6.708 70.600062	6.708 127.345	6.708 522.8585
3.3545 291.97938	6.709 69.680644	6.709 126.69106	6.709 526.61982
3.355 293.23785	6.71 68.689744	6.71 125.25134	6.71 528.3284
3.3555 296.8214	6.711 67.626715	6.711 124.30169	6.711 527.67799
3.356 302.12616	6.712 66.355049	6.712 125.29983	6.712 525.10402
3.3565 308.72507	6.713 64.63415	6.713 129.16515	6.713 521.61312
3.357 316.28497	6.714 62.197985	6.714 135.75436	6.714 518.44173
3.3575 324.31281	6.715 58.854215	6.715 143.85171	6.715 516.70111
3.358 332.00979	6.716 54.571015	6.716 151.63317	6.716 517.11316
3.3585 338.42202	6.717 49.523521	6.717 157.33948	6.717 519.86439
3.359 342.75828	6.718 44.085057	6.718 159.80252	6.718 524.56101
3.3595 344.65581	6.719 38.76489	6.719 158.66625	6.719 530.29862
3.36 344.2068	6.72 34.108927	6.72 154.28762	6.72 535.85491
3.3605 341.79408	6.721 30.588989	6.721 147.52921	6.721 540.00648
3.361 337.91818	6.722 28.508537	6.722 139.57271	6.722 541.92551
3.3615 333.149	6.723 27.947862	6.723 131.83721	6.723 541.47579
3.362 328.15382	6.724 28.760994	6.724 125.84553	6.724 539.27739
3.3625 323.68478	6.725 30.622344	6.725 122.95024	6.725 536.48574
3.363 320.41021	6.726 33.107644	6.726 123.95284	6.726 534.36598
3.3635 318.71147	6.727 35.785628	6.727 128.76809	6.727 533.88278
3.364 318.53039	6.728 38.296948	6.728 136.37758	6.728 535.41845
3.3645 319.39461	6.729 40.404471	6.729 145.07052	6.729 538.68635
3.365 320.58509	6.73 42.010133	6.73 152.89909	6.73 542.83709

3.3655 321.34286	6.731 43.143058	6.731 158.15501	6.731 546.71849
3.366 321.05486	6.732 43.928446	6.732 159.75169	6.732 549.25514
3.3665 319.37806	6.733 44.546914	6.733 157.4229	6.733 549.8088
3.367 316.33914	6.734 45.191874	6.734 151.72565	6.734 548.39106
3.3675 312.40883	6.735 46.030646	6.735 143.81838	6.735 545.62465
3.368 308.43173	6.736 47.17436	6.736 135.10568	6.736 542.50457
3.3685 305.36853	6.737 48.661551	6.737 126.90337	6.737 540.05811
3.369 303.88051	6.738 50.459368	6.738 120.21698	6.738 539.06
3.3695 304.00711	6.739 52.483366	6.739 115.65149	6.739 539.86764
3.37 305.17965	6.74 54.632225	6.74 113.39341	6.74 542.39095
3.3705 306.61488	6.741 56.828897	6.741 113.24296	6.741 546.1807
3.371 307.81818	6.742 59.056518	6.742 114.75266	6.742 550.56848
3.3715 308.87421	6.743 61.377568	6.743 117.43582	6.743 554.82329
3.372 310.33046	6.744 63.928306	6.744 120.92666	6.744 558.27292
3.3725 312.81114	6.745 66.886613	6.745 124.95309	6.745 560.40271
3.373 316.61579	6.746 70.418218	6.746 129.1337	6.746 560.93378
3.3735 321.47895	6.747 74.612563	6.747 132.81745	6.747 559.88891
3.374 326.56858	6.748 79.423922	6.748 135.16915	6.748 557.62098
3.3745 330.69879	6.749 84.634851	6.749 135.51033	6.749 554.78258
3.375 332.73532	6.75 89.856115	6.75 133.68851	6.75 552.2009
3.3755 332.1422	6.751 94.569594	6.751 130.22571	6.751 550.70131
3.376 329.40987	6.752 98.209233	6.752 126.13697	6.752 550.87458
3.3765 326.12552	6.753 100.26331	6.753 122.55696	6.753 552.84904
3.377 324.48591	6.754 100.37362	6.754 120.33689	6.754 556.13521
3.3775 326.43455	6.755 98.40688	6.755 119.77282	6.755 559.68233
3.378 332.82231	6.756 94.481384	6.756 120.58319	6.756 562.19434
3.3785 343.00331	6.757 88.944849	6.757 122.17473	6.757 562.65067
3.379 355.05911	6.758 82.312249	6.758 124.07559	6.758 560.76775
3.3795 366.42652	6.759 75.181353	6.759 126.29873	6.759 557.15794
3.38 374.64623	6.76 68.145744	6.76 129.3622	6.76 553.069
3.3805 377.98121	6.761 61.721426	6.761 133.94278	6.761 549.83893
3.381 375.82048	6.762 56.296383	6.762 140.35505	6.762 548.38802
3.3815 368.89021	6.763 52.10576	6.763 148.24132	6.763 548.97833
3.382 359.14818	6.764 49.230822	6.764 156.63884	6.764 551.32804
3.3825 349.29044	6.765 47.617492	6.765 164.31293	6.765 554.9193
3.383 341.92635	6.766 47.109226	6.766 170.12321	6.766 559.26608
3.3835 338.72339	6.767 47.487962	6.767 173.26817	6.767 563.99475
3.384 339.89678	6.768 48.515746	6.768 173.43104	6.768 568.72485
3.3845 344.31655	6.769 49.96905	6.769 170.88752	6.769 572.93182
3.385 350.1353	6.77 51.658916	6.77 166.54547	6.77 575.95147
3.3855 355.57316	6.771 53.433638	6.771 161.74158	6.771 577.19809
3.386 359.48133	6.772 55.166386	6.772 157.80082	6.772 576.46598
3.3865 361.44567	6.773 56.736166	6.773 155.53553	6.773 574.11538
3.387 361.52595	6.774 58.0143	6.774 155.00181	6.774 570.96373
3.3875 359.89753	6.775 58.867488	6.775 155.62431	6.775 567.97389
3.388 356.67088	6.776 59.181787	6.776 156.58305	6.776 565.88943
3.3885 351.98127	6.777 58.901404	6.777 157.22367	6.777 565.0238
3.389 346.20575	6.778 58.066592	6.778 157.23942	6.778 565.23722
3.3895 340.08852	6.779 56.831247	6.779 156.662	6.779 566.06703
3.39 334.57911	6.78 55.445979	6.78 155.73758	6.78 566.87058
3.3905 330.4879	6.781 54.205197	6.781 154.79571	6.781 566.9674

3.391 328.1753	6.782 53.371885	6.782 154.13323	6.782 565.72754
3.3915 327.49945	6.783 53.104491	6.783 153.90288	6.783 562.70358
3.392 328.05096	6.784 53.411656	6.784 154.016	6.784 557.81564
3.3925 329.46549	6.785 54.151574	6.785 154.1456	6.785 551.55908
3.393 331.5942	6.786 55.077311	6.786 153.8574	6.786 545.06959
3.3935 334.40719	6.787 55.913617	6.787 152.80486	6.787 539.89988
3.394 337.7498	6.788 56.440687	6.788 150.87373	6.788 537.50418
3.3945 341.21598	6.789 56.559146	6.789 148.17614	6.789 538.60938
3.395 344.23954	6.79 56.317886	6.79 144.93283	6.79 542.80179
3.3955 346.35715	6.791 55.898712	6.791 141.32659	6.791 548.60218
3.396 347.44257	6.792 55.564792	6.792 137.39161	6.792 554.03177
3.3965 347.76194	6.793 55.58955	6.793 132.99973	6.793 557.41414
3.397 347.86385	6.794 56.186889	6.794 127.94983	6.794 557.99673
3.3975 348.41375	6.795 57.46186	6.795 122.12325	6.795 556.11356
3.398 350.06666	6.796 59.394096	6.796 115.68959	6.796 552.86571
3.3985 353.32594	6.797 61.856258	6.797 109.22446	6.797 549.53542
3.399 358.3506	6.798 64.659117	6.798 103.64737	6.798 547.05636
3.3995 364.74802	6.799 67.606821	6.799 99.960982	6.799 545.76037
3.4 371.4714	6.8 70.543249	6.8 98.889615	6.8 545.4433
3.4005 376.96826	6.801 73.374435	6.801 100.57277	6.801 545.64829
3.401 379.60608	6.802 76.061786	6.802 104.42288	6.802 546.0047
3.4015 378.19044	6.803 78.592497	6.803 109.22782	6.803 546.48912
3.402 372.35672	6.804 80.942444	6.804 113.47063	6.804 547.50925
3.4025 362.69622	6.805 83.04918	6.805 115.82515	6.805 549.7408
3.403 350.55718	6.806 84.807628	6.806 115.6814	6.806 553.74989
3.4035 337.65249	6.807 86.091098	6.807 113.48242	6.807 559.54963
3.404 325.64933	6.808 86.78974	6.808 110.62554	6.808 566.3491
3.4045 315.91276	6.809 86.851649	6.809 108.89736	6.809 572.6802
3.405 309.44707	6.81 86.310818	6.81 109.66288	6.81 576.91146
3.4055 306.92879	6.811 85.290832	6.811 113.21122	6.811 577.89971
3.406 308.6749	6.812 83.981393	6.812 118.63995	6.812 575.42899
3.4065 314.46992	6.813 82.593717	6.813 124.27735	6.813 570.23221
3.407 323.3885	6.814 81.307597	6.814 128.44509	6.814 563.63865
3.4075 333.81162	6.815 80.225638	6.815 130.15677	6.815 557.07007
3.408 343.76901	6.816 79.347989	6.816 129.44801	6.816 551.64731
3.4085 351.49774	6.817 78.574571	6.817 127.24973	6.817 547.99854
3.409 355.98261	6.818 77.733472	6.818 124.88962	6.818 546.25068
3.4095 357.22414	6.819 76.626819	6.819 123.49831	6.819 546.11567
3.41 356.15435	6.82 75.081561	6.82 123.64393	6.82 547.01812
3.4105 354.26244	6.821 72.993282	6.821 125.27782	6.821 548.24775
3.411 353.0731	6.822 70.355274	6.822 127.97536	6.822 549.17749
3.4115 353.63968	6.823 67.269814	6.823 131.23265	6.823 549.48356
3.412 356.20188	6.824 63.94137	6.824 134.64828	6.824 549.29783
3.4125 360.11276	6.825 60.651441	6.825 137.95999	6.825 549.19666
3.413 364.06613	6.826 57.714065	6.826 140.96613	6.826 549.97005
3.4135 366.54644	6.827 55.413195	6.827 143.43535	6.827 552.24355
3.414 366.36812	6.828 53.930287	6.828 145.10059	6.828 556.1096
3.4145 363.14731	6.829 53.280569	6.829 145.75923	6.829 560.91921
3.415 357.5344	6.83 53.283476	6.83 145.42966	6.83 565.42246
3.4155 351.08868	6.831 53.589368	6.831 144.44151	6.831 568.19078
3.416 345.75715	6.832 53.767967	6.832 143.32695	6.832 568.20041

3.4165 343.13445	6.833 53.438675	6.833 142.54865	6.833 565.28084
3.417 343.81316	6.834 52.400515	6.834 142.24861	6.834 560.26235
3.4175 347.15949	6.835 50.712401	6.835 142.23897	6.835 554.74626
3.418 351.68673	6.836 48.689098	6.836 142.23771	6.836 550.59674
3.4185 355.81071	6.837 46.809938	6.837 142.16562	6.837 549.31203
3.419 358.54241	6.838 45.572357	6.838 142.27809	6.838 551.48768
3.4195 359.71328	6.839 45.344309	6.839 143.00126	6.839 556.57681
3.42 359.6721	6.84 46.268573	6.84 144.61369	6.84 563.08957
3.4205 358.74777	6.841 48.248847	6.841 147.01288	6.841 569.18671
3.421 356.91788	6.842 51.013668	6.842 149.73223	6.842 573.42852
3.4215 353.8741	6.843 54.224788	6.843 152.20667	6.843 575.28947
3.422 349.37867	6.844 57.583526	6.844 154.09382	6.844 575.21457
3.4225 343.60127	6.845 60.895351	6.845 155.43776	6.845 574.24511
3.423 337.22438	6.846 64.074582	6.846 156.54368	6.846 573.43929
3.4235 331.30857	6.847 67.097536	6.847 157.59941	6.847 573.37123
3.424 327.05509	6.848 69.933036	6.848 158.33106	6.848 573.9237
3.4245 325.57101	6.849 72.486472	6.849 157.92153	6.849 574.4211
3.425 327.66205	6.85 74.585755	6.85 155.34463	6.85 574.01044
3.4255 333.59064	6.851 76.018287	6.851 149.92412	6.851 572.14718
3.426 342.86077	6.852 76.605601	6.852 141.78597	6.852 568.92595
3.4265 354.11387	6.853 76.285643	6.853 131.92137	6.853 565.12043
3.427 365.25863	6.854 75.16829	6.854 121.85876	6.854 561.888
3.4275 373.91395	6.855 73.539089	6.855 113.10929	6.855 560.22852
3.428 378.06901	6.856 71.805339	6.856 106.71147	6.856 560.50148
3.4285 376.75847	6.857 70.399953	6.857 103.03226	6.857 562.29327
3.429 370.44988	6.858 69.67398	6.858 101.87461	6.858 564.75756
3.4295 360.94771	6.859 69.812266	6.859 102.75067	6.859 567.23625
3.43 350.78775	6.86 70.797328	6.86 105.15792	6.86 569.72219
3.4305 342.35426	6.861 72.4279	6.861 108.73393	6.861 572.82051
3.431 337.11889	6.862 74.378744	6.862 113.23385	6.862 577.23418
3.4315 335.29337	6.863 76.275937	6.863 118.37963	6.863 583.14434
3.432 336.02194	6.864 77.762056	6.864 123.75439	6.864 589.92013
3.4325 337.95709	6.865 78.537247	6.865 128.83947	6.865 596.32113
3.433 339.93678	6.866 78.377829	6.866 133.18617	6.866 601.04873
3.4335 341.47128	6.867 77.14483	6.867 136.59208	6.867 603.31715
3.434 342.8548	6.868 74.795175	6.868 139.13397	6.868 603.21596
3.4345 344.86634	6.869 71.399055	6.869 141.01766	6.869 601.69006
3.435 348.24116	6.87 67.155122	6.87 142.36704	6.87 600.18753
3.4355 353.15076	6.871 62.388434	6.871 143.12586	6.871 600.11821
3.436 359.01023	6.872 57.519138	6.872 143.11529	6.872 602.35541
3.4365 364.676	6.873 53.001608	6.873 142.19667	6.873 606.96232
3.437 368.91083	6.874 49.247909	6.874 140.40665	6.874 613.21046
3.4375 370.84932	6.875 46.558751	6.875 137.9791	6.875 619.81727
3.438 370.2667	6.876 45.084489	6.876 135.28864	6.876 625.30174
3.4385 367.59585	6.877 44.828256	6.877 132.74408	6.877 628.41207
3.439 363.77891	6.878 45.687645	6.878 130.70057	6.878 628.49331
3.4395 359.96483	6.879 47.517323	6.879 129.38604	6.879 625.65312
3.44 357.12732	6.88 50.188346	6.88 128.86352	6.88 620.62726
3.4405 355.72863	6.881 53.62281	6.881 129.02639	6.881 614.41229
3.441 355.60627	6.882 57.792975	6.882 129.67837	6.882 607.87075
3.4415 356.21621	6.883 62.687402	6.883 130.64198	6.883 601.55855

3.442 357.10273	6.884 68.257988	6.884 131.79879	6.884 595.80081
3.4425 358.29407	6.885 74.367551	6.885 133.0169	6.885 590.91455
3.443 360.34437	6.886 80.756712	6.886 133.97578	6.886 587.34655
3.4435 363.99169	6.887 87.042258	6.887 134.14233	6.887 585.60823
3.444 369.66022	6.888 92.749716	6.888 133.02459	6.888 586.03813
3.4445 377.07659	6.889 97.373586	6.889 130.60519	6.889 588.56428
3.445 385.17829	6.89 100.45235	6.89 127.63954	6.89 592.62052
3.4455 392.36922	6.891 101.64331	6.891 125.49744	6.891 597.27195
3.446 397.04351	6.892 100.78411	6.892 125.52127	6.892 601.49035
3.4465 398.20805	6.893 97.930977	6.893 128.29642	6.893 604.41529
3.447 395.91643	6.894 93.367757	6.894 133.25119	6.894 605.57089
3.4475 391.24966	6.895 87.582299	6.895 138.84513	6.895 604.93476
3.448 385.8604	6.896 81.210521	6.896 143.23979	6.896 602.91857
3.4485 381.31815	6.897 74.953792	6.897 145.09609	6.897 600.2135
3.449 378.65396	6.898 69.48222	6.898 144.08347	6.898 597.55124
3.4495 378.28817	6.899 65.342273	6.899 140.85885	6.899 595.42716
3.45 380.20539	6.9 62.887998	6.9 136.58179	6.9 593.89883
3.4505 384.12607	6.901 62.248929	6.901 132.26687	6.901 592.57727
3.451 389.51798	6.902 63.336666	6.902 128.38528	6.902 590.84296
3.4515 395.52704	6.903 65.881307	6.903 124.92523	6.903 588.22823
3.452 401.05802	6.904 69.483987	6.904 121.79944	6.904 584.76324
3.4525 405.06205	6.905 73.674277	6.905 119.21422	6.905 581.08146
3.453 406.89318	6.906 77.967838	6.906 117.67024	6.906 578.1954
3.4535 406.49882	6.907 81.924556	6.907 117.66549	6.907 577.06341
3.454 404.29604	6.908 85.206106	6.908 119.3983	6.908 578.17403
3.4545 400.85897	6.909 87.625226	6.909 122.75473	6.909 581.35078
3.455 396.60623	6.91 89.171949	6.91 127.53843	6.91 585.83326
3.4555 391.70256	6.911 90.000934	6.911 133.69783	6.911 590.56358
3.456 386.18875	6.912 90.37227	6.912 141.27011	6.912 594.55077
3.4565 380.23607	6.913 90.553963	6.913 150.09938	6.913 597.21977
3.457 374.3182	6.914 90.711607	6.914 159.50452	6.914 598.59772
3.4575 369.22609	6.915 90.821701	6.915 168.1753	6.915 599.2356
3.458 365.83224	6.916 90.643386	6.916 174.39251	6.916 599.81709
3.4585 364.75385	6.917 89.767565	6.917 176.53471	6.917 600.65773
3.459 366.04921	6.918 87.736756	6.918 173.67709	6.918 601.434
3.4595 369.14225	6.919 84.202565	6.919 166.02748	6.919 601.37189
3.46 373.07958	6.92 79.070954	6.92 154.9544	6.92 599.8578
3.4605 376.98606	6.921 72.58593	6.921 142.54623	6.921 597.07497
3.461 380.44968	6.922 65.320757	6.922 130.95571	6.922 594.21612
3.4615 383.58536	6.923 58.075842	6.923 121.83823	6.923 593.08645
3.462 386.74767	6.924 51.712873	6.924 116.15578	6.924 595.25736
3.4625 390.12644	6.925 46.974373	6.925 114.1915	6.925 601.23148
3.463 393.50148	6.926 44.339837	6.926 115.63123	6.926 610.05509
3.4635 396.30714	6.927 43.954388	6.927 119.56751	6.927 619.59524
3.464 397.92291	6.928 45.640023	6.928 124.59416	6.928 627.36166
3.4645 397.98445	6.929 48.973293	6.929 129.1231	6.929 631.4782
3.465 396.53856	6.93 53.396028	6.93 131.89137	6.93 631.34598
3.4655 394.01202	6.931 58.32278	6.931 132.39272	6.931 627.73735
3.466 391.04002	6.932 63.218972	6.932 130.94587	6.932 622.3542
3.4665 388.23316	6.933 67.6411	6.933 128.39245	6.933 617.12608
3.467 385.95068	6.934 71.246213	6.934 125.62033	6.934 613.61813

3.4675 384.15209	6.935 73.785769	6.935 123.18043	6.935 612.66761
3.468 382.35985	6.936 75.097251	6.936 121.16933	6.936 614.28379
3.4685 379.8252	6.937 75.099357	6.937 119.39037	6.937 617.71897
3.469 375.85275	6.938 73.789005	6.938 117.64748	6.938 621.67899
3.4695 370.20823	6.939 71.23552	6.939 115.97754	6.939 624.70409
3.47 363.3797	6.94 67.569563	6.94 114.71092	6.94 625.60431
3.4705 356.5696	6.941 62.968577	6.941 114.32405	6.941 623.83465
3.471 351.37493	6.942 57.643032	6.942 115.22131	6.942 619.64979
3.4715 349.30101	6.943 51.82691	6.943 117.55312	6.943 613.98926
3.472 351.30941	6.944 45.772973	6.944 121.16752	6.944 608.18267
3.4725 357.52798	6.945 39.751008	6.945 125.66638	6.945 603.55664
3.473 367.20406	6.946 34.046835	6.946 130.52436	6.946 601.03931
3.4735 378.86615	6.947 28.96054	6.947 135.17796	6.947 600.8774
3.474 390.63381	6.948 24.802252	6.948 139.10925	6.948 602.55079
3.4745 400.59707	6.949 21.881904	6.949 141.88339	6.949 605.01973
3.475 407.1928	6.95 20.487437	6.95 143.23075	6.95 607.19736
3.4755 409.493	6.951 20.847026	6.951 143.14153	6.951 608.46476
3.476 407.38983	6.952 23.077042	6.952 141.96619	6.952 608.93583
3.4765 401.62289	6.953 27.127367	6.953 140.40557	6.953 609.31458
3.477 393.62473	6.954 32.744103	6.954 139.34574	6.954 610.45434
3.4775 385.18655	6.955 39.470851	6.955 139.54188	6.955 612.87211
3.478 377.97769	6.956 46.700328	6.956 141.33776	6.956 616.50094
3.4785 373.08608	6.957 53.770671	6.957 144.58379	6.957 620.75979
3.479 370.77086	6.958 60.082651	6.958 148.7592	6.958 624.89989
3.4795 370.53547	6.959 65.203768	6.959 153.20244	6.959 628.39331
3.48 371.49218	6.96 68.928278	6.96 157.28546	6.96 631.19785
3.4805 372.80664	6.961 71.277388	6.961 160.48743	6.961 633.75952
3.481 374.0094	6.962 72.444552	6.962 162.41543	6.962 636.77933
3.4815 375.0426	6.963 72.707793	6.963 162.84897	6.963 640.83633
3.482 376.07583	6.964 72.338008	6.964 161.83716	6.964 646.04462
3.4825 377.26187	6.965 71.527985	6.965 159.73078	6.965 651.91675
3.483 378.57802	6.966 70.355647	6.966 157.12029	6.966 657.48693
3.4835 379.86023	6.967 68.782942	6.967 154.58255	6.967 661.63367
3.484 380.97186	6.968 66.683635	6.968 152.37839	6.968 663.46725
3.4845 381.97834	6.969 63.890178	6.969 150.26383	6.969 662.62564
3.485 383.17943	6.97 60.250266	6.97 147.57464	6.97 659.39429
3.4855 384.95299	6.971 55.684732	6.971 143.60277	6.971 654.62853
3.486 387.48022	6.972 50.238772	6.972 138.07195	6.972 649.49936
3.4865 390.53303	6.973 44.117975	6.973 131.452	6.973 645.17587
3.487 393.46827	6.974 37.700626	6.974 124.86775	6.974 642.52962
3.4875 395.4827	6.975 31.519533	6.975 119.66059	6.975 641.964
3.488 396.01975	6.976 26.210871	6.976 116.78719	6.976 643.33381
3.4885 395.08313	6.977 22.434018	6.977 116.39213	6.977 645.9741
3.489 393.28926	6.978 20.773855	6.978 117.76561	6.978 648.82343
3.4895 391.57572	6.979 21.643108	6.979 119.74354	6.979 650.68455
3.49 390.75388	6.98 25.204668	6.98 121.34995	6.98 650.55162
3.4905 391.16198	6.981 31.330757	6.981 122.33868	6.981 647.93887
3.491 392.58525	6.982 39.607933	6.982 123.26946	6.982 643.0758
3.4915 394.42782	6.983 49.387003	6.983 125.05003	6.983 636.91544
3.492 395.94497	6.984 59.86832	6.984 128.16147	6.984 630.97031
3.4925 396.40183	6.985 70.207959	6.985 132.12048	6.985 626.96827

3.493 395.17529	6.986 79.628597	6.986 135.59645	6.986 626.30402
3.4935 391.87939	6.987 87.518969	6.987 137.13363	6.987 629.40168
3.494 386.55002	6.988 93.506257	6.988 135.98477	6.988 635.33905
3.4945 379.76875	6.989 97.487451	6.989 132.4489	6.989 642.03119
3.495 372.56925	6.99 99.610761	6.99 127.52228	6.99 647.06036
3.4955 366.12449	6.991 100.20805	6.991 122.21477	6.991 648.74133
3.496 361.32979	6.992 99.692473	6.992 117.10513	6.992 646.84519
3.4965 358.52469	6.993 98.447736	6.993 112.42683	6.993 642.59129
3.497 357.46346	6.994 96.740383	6.994 108.48742	6.994 637.97317
3.4975 357.52963	6.995 94.681204	6.995 105.94437	6.995 634.85113
3.498 358.0896	6.996 92.246016	6.996 105.65482	6.996 634.28989
3.4985 358.79522	6.997 89.345698	6.997 108.15701	6.997 636.38361
3.499 359.68338	6.998 85.918228	6.998 113.14385	6.998 640.46633
3.4995 361.01394	6.999 82.008576	6.999 119.33146	6.999 645.4573
3.5 362.92786	7 77.808512	7 124.85023	7 650.12178
3.5005 365.21478	7.001 73.644435	7.001 128.0547	7.001 653.2385
3.501 367.38833	7.002 69.920007	7.002 128.28161	7.002 653.79594
3.5015 369.05624	7.003 67.033928	7.003 126.12765	7.003 651.28241
3.502 370.32666	7.004 65.297385	7.004 123.03249	7.004 645.9614
3.5025 371.90274	7.005 64.871316	7.005 120.44569	7.005 638.9479
3.503 374.75943	7.006 65.734834	7.006 119.06566	7.006 631.91263
3.5035 379.58658	7.007 67.687463	7.007 118.6454	7.007 626.54945
3.504 386.33391	7.008 70.381256	7.008 118.37642	7.008 624.04079
3.5045 394.1038	7.009 73.374386	7.009 117.506	7.009 624.7762
3.505 401.41333	7.01 76.194709	7.01 115.71919	7.01 628.40449
3.5055 406.65194	7.011 78.400663	7.011 113.18281	7.011 634.08268
3.506 408.51803	7.012 79.629031	7.012 110.32779	7.012 640.7468
3.5065 406.30293	7.013 79.624876	7.013 107.61064	7.013 647.29861
3.507 399.9972	7.014 78.256267	7.014 105.33171	7.014 652.77509
3.5075 390.29646	7.015 75.521342	7.015 103.56051	7.015 656.51525
3.508 378.54943	7.016 71.554382	7.016 102.15126	7.016 658.34521
3.5085 366.64616	7.017 66.630922	7.017 100.88842	7.017 658.63886
3.509 356.74824	7.018 61.163233	7.018 99.655278	7.018 658.1594
3.5095 350.8224	7.019 55.672942	7.019 98.567482	7.019 657.74216
3.51 350.07587	7.02 50.73132	7.02 97.93355	7.02 657.95649
3.5105 354.5331	7.021 46.869959	7.021 98.057683	7.021 658.9564
3.511 363.00827	7.022 44.479846	7.022 99.019387	7.022 660.57253
3.5115 373.50097	7.023 43.727379	7.023 100.57049	7.023 662.52783
3.512 383.86946	7.024 44.515247	7.024 102.23564	7.024 664.62531
3.5125 392.47041	7.025 46.503295	7.025 103.52261	7.025 666.77581
3.513 398.53036	7.026 49.184649	7.026 104.15204	7.026 668.91811
3.5135 402.17324	7.027 51.99415	7.027 104.17985	7.027 670.9165
3.514 404.14126	7.028 54.417402	7.028 103.9191	7.028 672.5436
3.5145 405.356	7.029 56.072255	7.029 103.7024	7.029 673.54325
3.515 406.47261	7.03 56.747394	7.03 103.62122	7.03 673.74774
3.5155 407.64209	7.031 56.398357	7.031 103.43444	7.031 673.14495
3.516 408.5483	7.032 55.113276	7.032 102.69206	7.032 671.87386
3.5165 408.67103	7.033 53.065425	7.033 101.02249	7.033 670.12921
3.517 407.61125	7.034 50.467467	7.034 98.376776	7.034 668.06572
3.5175 405.31111	7.035 47.535954	7.035 95.074661	7.035 665.75813
3.518 402.09813	7.036 44.467612	7.036 91.634351	7.036 663.26923

3.5185 398.57487	7.037 41.424213	7.037 88.576383	7.037 660.75144
3.519 395.39106	7.038 38.52168	7.038 86.296516	7.038 658.48429
3.5195 392.9908	7.039 35.821107	7.039 84.9866	7.039 656.7885
3.52 391.43846	7.04 33.32292	7.04 84.555325	7.04 655.85335
3.5205 390.45134	7.041 30.968075	7.041 84.536101	7.041 655.59914
3.521 389.60162	7.042 28.650427	7.042 84.146756	7.042 655.7235
3.5215 388.59643	7.043 26.241777	7.043 82.590069	7.043 655.89471
3.522 387.41609	7.044 23.626913	7.044 79.493557	7.044 655.98695
3.5225 386.24003	7.045 20.741798	7.045 75.218843	7.045 656.17934
3.523 385.23286	7.046 17.605721	7.046 70.782845	7.046 656.79908
3.5235 384.39882	7.047 14.338429	7.047 67.407985	7.047 658.03993
3.524 383.61735	7.048 11.156272	7.048 65.933499	7.048 659.79103
3.5245 382.81302	7.049 8.3464269	7.049 66.462314	7.049 661.69995
3.525 382.09843	7.05 6.223904	7.05 68.43413	7.05 663.48186
3.5255 381.73998	7.051 5.0802609	7.051 71.0001	7.051 665.17352
3.526 381.94977	7.052 5.1341552	7.052 73.487078	7.052 667.10899
3.5265 382.64104	7.053 6.4919336	7.053 75.701472	7.053 669.6089
3.527 383.31082	7.054 9.1228848	7.054 77.918194	7.054 672.58002
3.5275 383.16854	7.055 12.850922	7.055 80.616514	7.055 675.37218
3.528 381.4614	7.056 17.363703	7.056 84.120279	7.056 677.03035
3.5285 377.87107	7.057 22.240916	7.057 88.341372	7.057 676.82234
3.529 372.76223	7.058 27.003292	7.058 92.767794	7.058 674.70085
3.5295 367.16978	7.059 31.180587	7.059 96.665712	7.059 671.36637
3.53 362.47055	7.06 34.389934	7.06 99.400663	7.06 667.87703
3.5305 359.88002	7.061 36.408191	7.061 100.70796	7.061 665.09748
3.531 359.92357	7.062 37.217687	7.062 100.8399	7.062 663.36315
3.5315 362.14933	7.063 37.00817	7.063 100.48566	7.063 662.58231
3.532 365.24408	7.064 36.129582	7.064 100.52073	7.064 662.63248
3.5325 367.59444	7.065 35.006919	7.065 101.60528	7.065 663.71807
3.533 368.06783	7.066 34.04274	7.066 103.84704	7.066 666.36658
3.5335 366.60647	7.067 33.537812	7.067 106.66165	7.067 671.04198
3.534 364.22292	7.068 33.652854	7.068 109.02324	7.068 677.65007
3.5345 362.41	7.069 34.417384	7.069 109.94917	7.069 685.24943
3.535 362.32122	7.07 35.773057	7.07 109.01587	7.07 692.22551
3.5355 364.25292	7.071 37.627169	7.071 106.55808	7.071 696.9089
3.536 367.70132	7.072 39.892043	7.072 103.44794	7.072 698.33797
3.5365 371.85038	7.073 42.496598	7.073 100.6406	7.073 696.77573
3.537 376.09946	7.074 45.371495	7.074 98.785738	7.074 693.65557
3.5375 380.28468	7.075 48.421479	7.075 98.089482	7.075 690.88542
3.538 384.56741	7.076 51.502697	7.076 98.417545	7.076 689.92127
3.5385 389.17022	7.077 54.418512	7.077 99.39552	7.077 691.08202
3.539 394.17041	7.078 56.938045	7.078 100.43942	7.078 693.50866
3.5395 399.4317	7.079 58.832429	7.079 100.8131	7.079 695.75274
3.54 404.61411	7.08 59.91828	7.08 99.818484	7.08 696.58158
3.5405 409.17416	7.081 60.096896	7.081 97.101784	7.081 695.53376
3.541 412.40996	7.082 59.379659	7.082 92.909992	7.082 692.92175
3.5415 413.59635	7.083 57.89299	7.083 88.096897	7.083 689.4331
3.542 412.25561	7.084 55.859615	7.084 83.887451	7.084 685.66512
3.5425 408.45275	7.085 53.557457	7.085 81.454647	7.085 681.94131
3.543 402.90405	7.086 51.263965	7.086 81.527809	7.086 678.4355
3.5435 396.78439	7.087 49.200302	7.087 84.120457	7.087 675.43064

3.544 391.3121	7.088 47.492996	7.088 88.504262	7.088 673.40785
3.5445 387.34939	7.089 46.166838	7.089 93.430028	7.089 672.85779
3.545 385.24266	7.09 45.171794	7.09 97.540807	7.09 673.92861
3.5455 384.91808	7.091 44.432698	7.091 99.83925	7.091 676.19262
3.546 386.08028	7.092 43.900386	7.092 100.04694	7.092 678.75076
3.5465 388.33103	7.093 43.582307	7.093 98.698311	7.093 680.63732
3.547 391.15287	7.094 43.540454	7.094 96.923166	7.094 681.30565
3.5475 393.89812	7.095 43.85985	7.095 95.954689	7.095 680.88285
3.548 395.93152	7.096 44.604142	7.096 96.570427	7.096 680.04552
3.5485 396.9288	7.097 45.779298	7.097 98.717608	7.097 679.65601
3.549 397.13831	7.098 47.320221	7.098 101.50609	7.098 680.38104
3.5495 397.32927	7.099 49.102211	7.099 103.56018	7.099 682.50515
3.55 398.35875	7.1 50.967034	7.1 103.60922	7.1 685.94512
3.5505 400.53913	7.101 52.748402	7.101 101.01728	7.101 690.34588
3.551 403.25761	7.102 54.285935	7.102 96.084929	7.102 695.15884
3.5515 405.16637	7.103 55.426563	7.103 89.958241	7.103 699.6901
3.552 404.90709	7.104 56.021291	7.104 84.212083	7.104 703.20298
3.5525 401.95509	7.105 55.92803	7.105 80.296927	7.105 705.11221
3.553 397.00233	7.106 55.026659	7.106 79.11253	7.106 705.25231
3.5535 391.63042	7.107 53.244084	7.107 80.890013	7.107 704.07665
3.554 387.47565	7.108 50.579975	7.108 85.370115	7.108 702.62863
3.5545 385.398	7.109 47.121833	7.109 92.071008	7.109 702.23239
3.555 385.16968	7.11 43.04167	7.11 100.46601	7.11 703.93538
3.5555 385.77991	7.111 38.573745	7.111 109.93367	7.111 708.00008
3.556 386.10891	7.112 33.98018	7.112 119.59837	7.112 713.65435
3.5565 385.5255	7.113 29.516155	7.113 128.25127	7.113 719.30067
3.557 384.12021	7.114 25.406785	7.114 134.47813	7.114 723.09282
3.5575 382.52968	7.115 21.843205	7.115 137.06404	7.115 723.65035
3.558 381.56265	7.116 18.996873	7.116 135.44571	7.116 720.57059
3.5585 381.83872	7.117 17.041709	7.117 129.96217	7.117 714.53202
3.559 383.55916	7.118 16.167938	7.118 121.78163	7.118 706.96435
3.5595 386.42243	7.119 16.573267	7.119 112.48735	7.119 699.47147
3.56 389.69857	7.12 18.426813	7.12 103.53593	7.12 693.29494
3.5605 392.48033	7.121 21.815133	7.121 95.859383	7.121 688.9995
3.561 394.06061	7.122 26.690792	7.122 89.774355	7.122 686.4484
3.5615 394.27322	7.123 32.845762	7.123 85.202257	7.123 685.02344
3.562 393.60999	7.124 39.923018	7.124 81.983383	7.124 683.96928
3.5625 393.00489	7.125 47.46397	7.125 80.056826	7.125 682.74612
3.563 393.38921	7.126 54.974947	7.126 79.411223	7.126 681.2497
3.5635 395.25714	7.127 61.989907	7.127 79.856956	7.127 679.86557
3.564 398.46223	7.128 68.111564	7.128 80.812517	7.128 679.30543
3.5645 402.34176	7.129 73.025703	7.129 81.291764	7.129 680.28874
3.565 406.05893	7.13 76.49639	7.13 80.182873	7.13 683.14259
3.5655 409.00915	7.131 78.356544	7.131 76.710395	7.131 687.4738
3.566 411.02819	7.132 78.506351	7.132 70.815791	7.132 692.11509
3.5665 412.36223	7.133 76.923954	7.133 63.247425	7.133 695.4702
3.567 413.4074	7.134 73.683991	7.134 55.304736	7.134 696.19162
3.5675 414.44812	7.135 68.974415	7.135 48.342253	7.135 693.88406
3.568 415.53717	7.136 63.101809	7.136 43.31158	7.136 689.42275
3.5685 416.52737	7.137 56.478566	7.137 40.522426	7.137 684.68011
3.569 417.15945	7.138 49.589577	7.138 39.670853	7.138 681.73403

3.5695 417.17577	7.139 42.940779	7.139 40.118948	7.139 681.97406
3.57 416.44546	7.14 36.99719	7.14 41.241111	7.14 685.52658
3.5705 415.14301	7.141 32.123681	7.141 42.696147	7.141 691.27402
3.571 413.87631	7.142 28.544904	7.142 44.450014	7.142 697.38684
3.5715 413.60759	7.143 26.337831	7.143 46.546737	7.143 702.10172
3.572 415.28495	7.144 25.459699	7.144 48.906339	7.144 704.37476
3.5725 419.31541	7.145 25.79923	7.145 51.295602	7.145 704.12477
3.573 425.17155	7.146 27.227666	7.146 53.573709	7.146 702.05736
3.5735 431.39531	7.147 29.625952	7.147 55.998717	7.147 699.2018
3.574 436.0392	7.148 32.877194	7.148 59.233722	7.148 696.45691
3.5745 437.35626	7.149 36.832806	7.149 64.044322	7.149 694.36573
3.575 434.48054	7.15 41.275707	7.15 70.787382	7.15 693.11889
3.5755 427.82304	7.151 45.905648	7.151 79.073652	7.151 692.6987
3.576 419.01942	7.152 50.359649	7.152 87.786389	7.152 693.01082
3.5765 410.42976	7.153 54.262336	7.153 95.412579	7.153 693.94449
3.577 404.33652	7.154 57.287416	7.154 100.53529	7.154 695.34214
3.5775 402.15751	7.155 59.209504	7.155 102.29344	7.155 696.92313
3.578 403.97002	7.156 59.933778	7.156 100.64268	7.156 698.23649
3.5785 408.54532	7.157 59.502524	7.157 96.355003	7.157 698.73016
3.579 413.86264	7.158 58.084808	7.158 90.760867	7.158 697.98761
3.5795 417.8884	7.159 55.955362	7.159 85.378325	7.159 696.02445
3.58 419.31336	7.16 53.464184	7.16 81.560885	7.16 693.47675
3.5805 417.96032	7.161 50.995056	7.161 80.205505	7.161 691.47664
3.581 414.72925	7.162 48.913115	7.162 81.577276	7.162 691.22517
3.5815 411.12887	7.163 47.508227	7.163 85.232781	7.163 693.45486
3.582 408.60523	7.164 46.947359	7.164 90.090957	7.164 698.05927
3.5825 408.0032	7.165 47.250188	7.165 94.703677	7.165 704.10686
3.583 409.32507	7.166 48.295631	7.166 97.731334	7.166 710.21193
3.5835 411.85897	7.167 49.855629	7.167 98.447649	7.167 715.06072
3.584 414.50664	7.168 51.642487	7.168 97.02444	7.168 717.86698
3.5845 416.18432	7.169 53.353067	7.169 94.461307	7.169 718.57857
3.585 416.16168	7.17 54.698542	7.17 92.120362	7.17 717.83278
3.5855 414.30014	7.171 55.418696	7.171 91.060858	7.171 716.65082
3.586 411.09535	7.172 55.288541	7.172 91.498511	7.172 716.03341
3.5865 407.4735	7.173 54.127423	7.173 92.748699	7.173 716.57001
3.587 404.40646	7.174 51.816293	7.174 93.675255	7.174 718.24184
3.5875 402.54559	7.175 48.321225	7.175 93.434897	7.175 720.50712
3.588 402.13546	7.176 43.715461	7.176 92.006818	7.176 722.60578
3.5885 403.20943	7.177 38.19137	7.177 90.186743	7.177 723.91819
3.589 405.83029	7.178 32.056904	7.178 89.078784	7.178 724.17523
3.5895 410.07486	7.179 25.715677	7.179 89.398674	7.179 723.45345
3.59 415.71022	7.18 19.632868	7.18 91.090638	7.18 721.99357
3.5905 421.88566	7.181 14.290373	7.181 93.398543	7.181 720.02107
3.591 427.21958	7.182 10.135189	7.182 95.323265	7.182 717.68631
3.5915 430.34969	7.183 7.5263771	7.183 96.145821	7.183 715.1693
3.592 430.62609	7.184 6.6878915	7.184 95.74119	7.184 712.82686
3.5925 428.41259	7.185 7.675682	7.185 94.574228	7.185 711.25547
3.593 424.82217	7.186 10.365983	7.186 93.421176	7.186 711.15743
3.5935 421.08641	7.187 14.467802	7.187 92.997744	7.187 713.04097
3.594 418.02993	7.188 19.557873	7.188 93.634873	7.188 716.92631
3.5945 415.92428	7.189 25.132819	7.189 95.185082	7.189 722.22378

3.595 414.62316	7.19 30.67163	7.19 97.130897	7.19 727.88075
3.5955 413.75899	7.191 35.700994	7.191 98.815142	7.191 732.69728
3.596 412.8308	7.192 39.855254	7.192 99.724932	7.192 735.71259
3.5965 411.28527	7.193 42.921688	7.193 99.727841	7.193 736.4611
3.597 408.69124	7.194 44.861925	7.194 99.13782	7.194 735.03374
3.5975 405.02011	7.195 45.80313	7.195 98.576659	7.195 731.94468
3.598 400.84332	7.196 45.9986	7.196 98.585805	7.196 727.89485
3.5985 397.28499	7.197 45.764885	7.197 99.215829	7.197 723.56426
3.599 395.67894	7.198 45.408961	7.198 99.877278	7.198 719.51336
3.5995 397.08968	7.199 45.16225	7.199 99.621648	7.199 716.17148
3.6 401.88466	7.2 45.137514	7.2 97.713328	7.2 713.86295
3.6005 409.52997	7.201 45.319982	7.201 94.140542	7.201 712.81486
3.601 418.6719	7.202 45.59614	7.202 89.720185	7.202 713.13814
3.6015 427.46848	7.203 45.813215	7.203 85.766352	7.203 714.81399
3.602 434.06092	7.204 45.851871	7.204 83.519428	7.204 717.682
3.6025 437.05241	7.205 45.687567	7.205 83.60217	7.205 721.43368
3.603 435.86535	7.206 45.416603	7.206 85.781638	7.206 725.61202
3.6035 430.88019	7.207 45.233417	7.207 89.013194	7.207 729.66665
3.604 423.31521	7.208 45.363959	7.208 91.805429	7.208 733.10728
3.6045 414.84686	7.209 45.979282	7.209 92.778886	7.209 735.74009
3.605 407.11262	7.21 47.124415	7.21 91.222883	7.21 737.78996
3.6055 401.28564	7.211 48.693691	7.211 87.381671	7.211 739.77293
3.606 397.88067	7.212 50.464679	7.212 82.287261	7.212 742.11345
3.6065 396.79688	7.213 52.176979	7.213 77.267988	7.213 744.72138
3.607 397.52015	7.214 53.621655	7.214 73.366664	7.214 746.85585
3.6075 399.35897	7.215 54.702719	7.215 71.021623	7.215 747.38348
3.608 401.6824	7.216 55.446242	7.216 70.092257	7.216 745.3442
3.6085 404.11776	7.217 55.958022	7.217 70.096521	7.217 740.47315
3.609 406.65092	7.218 56.353901	7.218 70.483586	7.218 733.42807
3.6095 409.52971	7.219 56.696214	7.219 70.83399	7.219 725.61704
3.61 413.0124	7.22 56.961917	7.22 70.969454	7.22 718.75678
3.6105 417.13991	7.221 57.049229	7.221 70.966578	7.221 714.42535
3.611 421.72103	7.222 56.811493	7.222 71.050909	7.222 713.71557
3.6115 426.53408	7.223 56.099157	7.223 71.351493	7.223 717.0396
3.612 431.51817	7.224 54.79482	7.224 71.674077	7.224 724.03176
3.6125 436.75284	7.225 52.836467	7.225 71.501962	7.225 733.53336
3.613 442.22612	7.226 50.231687	7.226 70.250835	7.226 743.7601
3.6135 447.63325	7.227 47.066113	7.227 67.650683	7.227 752.67299
3.614 452.41736	7.228 43.504373	7.228 63.952396	7.228 758.49621
3.6145 456.00271	7.229 39.778051	7.229 59.875313	7.229 760.19776
3.615 458.003	7.23 36.15759	7.23 56.344752	7.23 757.76839
3.6155 458.23671	7.231 32.913026	7.231 54.185914	7.231 752.2162
3.616 456.63089	7.232 30.275961	7.232 53.898556	7.232 745.32535
3.6165 453.17035	7.233 28.415423	7.233 55.558909	7.233 739.17839
3.617 448.00688	7.234 27.432104	7.234 58.863627	7.234 735.54066
3.6175 441.608	7.235 27.364118	7.235 63.289041	7.235 735.29444
3.618 434.77228	7.236 28.191557	7.236 68.26829	7.236 738.18175
3.6185 428.44801	7.237 29.831318	7.237 73.293985	7.237 742.99444
3.619 423.46239	7.238 32.125311	7.238 77.869497	7.238 748.13313
3.6195 420.295	7.239 34.835737	7.239 81.404763	7.239 752.23599
3.62 419.0304	7.24 37.662491	7.24 83.227337	7.24 754.59694

3.6205 419.43226	7.241 40.287995	7.241 82.798413	7.241 755.26644
3.621 421.08448	7.242 42.43953	7.242 80.004494	7.242 754.88002
3.6215 423.48718	7.243 43.947542	7.243 75.290629	7.243 754.34536
3.622 426.09708	7.244 44.777434	7.244 69.501746	7.244 754.48087
3.6225 428.32177	7.245 45.02253	7.245 63.558758	7.245 755.66969
3.623 429.5418	7.246 44.861843	7.246 58.2099	7.246 757.69722
3.6235 429.22994	7.247 44.499944	7.247 53.939859	7.247 759.85558
3.624 427.13424	7.248 44.111794	7.248 50.997992	7.248 761.30845
3.6245 423.45684	7.249 43.811237	7.249 49.434211	7.249 761.52127
3.625 418.93466	7.25 43.650804	7.25 49.075554	7.25 760.54007
3.6255 414.78296	7.251 43.64758	7.251 49.554835	7.251 758.95168
3.626 412.4823	7.252 43.820039	7.252 50.417341	7.252 757.59627
3.6265 413.39624	7.253 44.217195	7.253 51.337921	7.253 757.21694
3.627 418.26601	7.254 44.92511	7.254 52.334113	7.254 758.23979
3.6275 426.72893	7.255 46.045457	7.255 53.841818	7.255 760.79303
3.628 437.1307	7.256 47.653055	7.256 56.509234	7.256 764.84248
3.6285 446.85068	7.257 49.749338	7.257 60.706753	7.257 770.25466
3.629 453.13459	7.258 52.232189	7.258 65.994761	7.258 776.68538
3.6295 454.13532	7.259 54.897265	7.259 70.957944	7.259 783.35508
3.63 449.6899	7.26 57.47389	7.26 73.696149	7.26 788.95431
3.6305 441.46177	7.261 59.685029	7.261 72.854728	7.261 791.90217
3.631 432.34369	7.262 61.312078	7.262 68.58309	7.262 790.94593
3.6315 425.36777	7.263 62.244633	7.263 62.774382	7.263 785.82776
3.632 422.61476	7.264 62.5023	7.264 58.269786	7.264 777.60586
3.6325 424.58543	7.265 62.225409	7.265 57.471948	7.265 768.38946
3.633 430.26532	7.266 61.639606	7.266 61.171101	7.266 760.55775
3.6335 437.72472	7.267 61.00342	7.267 68.259941	7.267 755.87129
3.634 444.91335	7.268 60.549096	7.268 76.427284	7.268 754.88317
3.6345 450.2954	7.269 60.427407	7.269 83.323492	7.269 756.90172
3.635 453.1562	7.27 60.667829	7.27 87.473972	7.27 760.48606
3.6355 453.59263	7.271 61.164873	7.271 88.567903	7.271 764.11623
3.636 452.26472	7.272 61.697202	7.272 87.202754	7.272 766.75871
3.6365 450.07661	7.273 61.977543	7.273 84.402024	7.273 768.06637
3.637 447.84439	7.274 61.720766	7.274 81.185403	7.274 768.25303
3.6375 446.05182	7.275 60.709686	7.275 78.286278	7.275 767.82576
3.638 444.72189	7.276 58.837604	7.276 76.016827	7.276 767.34052
3.6385 443.4686	7.277 56.114861	7.277 74.330019	7.277 767.26033
3.639 441.7521	7.278 52.640636	7.278 73.035006	7.278 767.85338
3.6395 439.26623	7.279 48.554952	7.279 72.048146	7.279 769.123
3.64 436.21637	7.28 43.993278	7.28 71.48997	7.28 770.78359
3.6405 433.26026	7.281 39.063812	7.281 71.586449	7.281 772.38226
3.641 431.07253	7.282 33.856608	7.282 72.495795	7.282 773.52702
3.6415 429.82738	7.283 28.478709	7.283 74.225382	7.283 774.1017
3.642 429.00517	7.284 23.096807	7.284 76.68104	7.284 774.30218
3.6425 427.75708	7.285 17.963969	7.285 79.754074	7.285 774.46677
3.643 425.59167	7.286 13.41194	7.286 83.274588	7.286 774.85763
3.6435 422.89725	7.287 9.8036829	7.287 86.909364	7.287 775.55871
3.644 420.90123	7.288 7.4569448	7.288 90.153862	7.288 776.52619
3.6445 421.0629	7.289 6.5621992	7.289 92.507115	7.289 777.68883
3.645 424.27145	7.29 7.122257	7.29 93.751368	7.29 778.99786
3.6455 430.32777	7.291 8.9347579	7.291 94.040602	7.291 780.41699

3.646 437.96636	7.292 11.62542	7.292 93.699961	7.292 781.9127
3.6465 445.35729	7.293 14.724479	7.293 92.833445	7.293 783.51424
3.647 450.82338	7.294 17.766247	7.294 91.117075	7.294 785.36528
3.6475 453.41063	7.295 20.385436	7.295 88.030031	7.295 787.64501
3.648 453.07348	7.296 22.384819	7.296 83.392477	7.296 790.38817
3.6485 450.46902	7.297 23.75681	7.297 77.800702	7.297 793.29017
3.649 446.53569	7.298 24.654808	7.298 72.590294	7.298 795.67465
3.6495 442.11787	7.299 25.325529	7.299 69.243462	7.299 796.70168
3.65 437.78842	7.3 26.025855	7.3 68.668374	7.3 795.71334
3.6505 433.87433	7.301 26.951737	7.301 70.796976	7.301 792.59365
3.651 430.62057	7.302 28.199852	7.302 74.727868	7.302 787.96093
3.6515 428.32859	7.303 29.767559	7.303 79.287047	7.303 783.09173
3.652 427.41176	7.304 31.580485	7.304 83.547168	7.304 779.56804
3.6525 428.32447	7.305 33.527798	7.305 87.009928	7.305 778.74465
3.653 431.3977	7.306 35.487252	7.306 89.435947	7.306 781.2443
3.6535 436.64225	7.307 37.333237	7.307 90.56876	7.307 786.64681
3.654 443.60305	7.308 38.934014	7.308 90.081157	7.308 793.55263
3.6545 451.31722	7.309 40.151404	7.309 87.833845	7.309 800.00671
3.655 458.43327	7.31 40.853674	7.31 84.25796	7.31 804.17487
3.6555 463.50547	7.311 40.942936	7.311 80.500397	7.311 805.01066
3.656 465.39806	7.312 40.388377	7.312 78.08858	7.312 802.63147
3.6565 463.68092	7.313 39.252142	7.313 78.222025	7.313 798.20993
3.657 458.84655	7.314 37.697545	7.314 81.165978	7.314 793.43747
3.6575 452.22668	7.315 35.976461	7.315 86.130387	7.315 789.77904
3.658 445.61078	7.316 34.399335	7.316 91.752714	7.316 787.91999
3.6585 440.69434	7.317 33.293825	7.317 96.817498	7.317 787.61193
3.659 438.55614	7.318 32.957067	7.318 100.80447	7.318 787.96435
3.6595 439.34262	7.319 33.605013	7.319 103.94477	7.319 787.97418
3.66 442.30416	7.32 35.323245	7.32 106.90767	7.32 787.02301
3.6605 446.16543	7.321 38.027449	7.321 110.36712	7.321 785.11369
3.661 449.65068	7.322 41.445533	7.322 114.68817	7.322 782.77549
3.6615 451.93212	7.323 45.13342	7.323 119.83053	7.323 780.75566
3.662 452.79149	7.324 48.530506	7.324 125.39323	7.324 779.67827
3.6625 452.4842	7.325 51.049547	7.325 130.68284	7.325 779.86191
3.663 451.4528	7.326 52.183365	7.326 134.79384	7.326 781.32527
3.6635 450.08807	7.327 51.602387	7.327 136.76202	7.327 783.87598
3.664 448.64049	7.328 49.216912	7.328 135.8253	7.328 787.15395
3.6645 447.22101	7.329 45.186995	7.329 131.78444	7.329 790.6029
3.665 445.8601	7.33 39.878329	7.33 125.2319	7.33 793.4786
3.6655 444.56171	7.331 33.778737	7.331 117.47006	7.331 795.01764
3.666 443.34633	7.332 27.400947	7.332 110.08008	7.332 794.73989
3.6665 442.27794	7.333 21.198985	7.333 104.30684	7.333 792.67204
3.667 441.44182	7.334 15.517693	7.334 100.61331	7.334 789.33952
3.6675 440.87906	7.335 10.580909	7.335 98.609407	7.335 785.49113
3.668 440.54699	7.336 6.5096801	7.336 97.405752	7.336 781.74542
3.6685 440.3684	7.337 3.3532054	7.337 96.166977	7.337 778.40604
3.669 440.3423	7.338 1.1151574	7.338 94.547099	7.338 775.55532
3.6695 440.64892	7.339 -0.234069	7.339 92.800687	7.339 773.30317
3.67 441.64261	7.34 -0.757595	7.34 91.5408	7.34 771.97537
3.6705 443.71949	7.341 -0.555113	7.341 91.309964	7.341 772.04981
3.671 447.11932	7.342 0.2417508	7.342 92.178514	7.342 773.93327

3.6715 451.78822	7.343 1.4859267	7.343 93.61269	7.343 777.7071
3.672 457.37536	7.344 3.0384916	7.344 94.735321	7.344 783.035
3.6725 463.34367	7.345 4.7890368	7.345 94.800323	7.345 789.25547
3.673 469.11711	7.346 6.6637824	7.346 93.631717	7.346 795.58338
3.6735 474.16353	7.347 8.619495	7.347 91.710172	7.347 801.34307
3.674 478.02677	7.348 10.629336	7.348 89.830899	7.348 806.16431
3.6745 480.37547	7.349 12.670746	7.349 88.614573	7.349 810.10177
3.675 481.09413	7.35 14.723145	7.35 88.183908	7.35 813.57606
3.6755 480.39003	7.351 16.776457	7.351 88.240785	7.351 817.10459
3.676 478.77074	7.352 18.844472	7.352 88.404796	7.352 820.91671
3.6765 476.82679	7.353 20.973738	7.353 88.519196	7.353 824.68422
3.677 474.90792	7.354 23.240419	7.354 88.671379	7.354 827.5796
3.6775 472.88323	7.355 25.732767	7.355 89.006493	7.355 828.66511
3.678 470.26402	7.356 28.522848	7.356 89.500835	7.356 827.39155
3.6785 466.6511	7.357 31.63523	7.357 89.90858	7.357 823.94818
3.679 462.24889	7.358 35.021634	7.358 89.874618	7.358 819.27435
3.6795 458.04675	7.359 38.549069	7.359 89.076561	7.359 814.73577
3.68 455.4654	7.36 42.005556	7.36 87.316863	7.36 811.60805
3.6805 455.62957	7.361 45.122932	7.361 84.552712	7.361 810.55721
3.681 458.6956	7.362 47.611774	7.362 80.995949	7.362 811.37582
3.6815 463.60961	7.363 49.200783	7.363 77.277346	7.363 813.13013
3.682 468.42604	7.364 49.673533	7.364 74.430785	7.364 814.73136
3.6825 470.96335	7.365 48.898998	7.365 73.561912	7.365 815.60248
3.683 469.54007	7.366 46.856257	7.366 75.232005	7.366 816.02962
3.6835 463.54739	7.367 43.654486	7.367 79.005365	7.367 816.8674
3.684 453.71237	7.368 39.544989	7.368 83.52774	7.368 818.81169
3.6845 441.9828	7.369 34.915125	7.369 87.178854	7.369 821.74618
3.685 431.0202	7.37 30.250545	7.37 88.902621	7.37 824.65588
3.6855 423.43964	7.371 26.058255	7.371 88.630179	7.371 826.18584
3.686 421.06958	7.372 22.759156	7.372 87.118275	7.372 825.44141
3.6865 424.41528	7.373 20.578258	7.373 85.400798	7.373 822.48979
3.687 432.54699	7.374 19.472497	7.374 84.300299	7.374 818.31803
3.6875 443.40902	7.375 19.130766	7.375 84.241556	7.375 814.3638
3.688 454.4953	7.376 19.057612	7.376 85.273041	7.376 811.9254
3.6885 463.64589	7.377 18.719941	7.377 87.131973	7.377 811.71762
3.689 469.65389	7.378 17.709556	7.378 89.25049	7.378 813.66021
3.6895 472.39685	7.379 15.866083	7.379 90.863337	7.379 816.93004
3.69 472.50796	7.38 13.31883	7.38 91.244969	7.38 820.28739
3.6905 470.85361	7.381 10.436227	7.381 90.051618	7.381 822.58796
3.691 468.19898	7.382 7.7045708	7.382 87.499399	7.382 823.2901
3.6915 465.17804	7.383 5.5804861	7.383 84.254874	7.383 822.7176
3.692 462.42967	7.384 4.3658816	7.384 81.113672	7.384 821.89014
3.6925 460.57019	7.385 4.1407964	7.385 78.65802	7.385 821.99587
3.693 459.93682	7.386 4.7658438	7.386 77.077455	7.386 823.8164
3.6935 460.31156	7.387 5.9425546	7.387 76.194938	7.387 827.40956
3.694 460.94094	7.388 7.3053632	7.388 75.669075	7.388 832.23359
3.6945 460.88702	7.389 8.5165449	7.389 75.275888	7.389 837.53615
3.695 459.4829	7.39 9.3424085	7.39 75.117427	7.39 842.73916
3.6955 456.54358	7.391 9.6993539	7.391 75.643904	7.391 847.51965
3.696 452.28811	7.392 9.6664898	7.392 77.371706	7.392 851.64569
3.6965 447.12569	7.393 9.465634	7.393 80.475856	7.393 854.75956

3.697 441.5468	7.394 9.4118062	7.394 84.528191	7.394 856.3539
3.6975 436.14849	7.395 9.8410014	7.395 88.557261	7.395 855.99544
3.698 431.68185	7.396 11.027955	7.396 91.438347	7.396 853.62101
3.6985 428.93948	7.397 13.1121	7.397 92.358542	7.397 849.6759
3.699 428.51133	7.398 16.050805	7.398 91.158605	7.398 845.01081
3.6995 430.51164	7.399 19.61316	7.399 88.408195	7.399 840.58038
3.7 434.47498	7.4 23.416773	7.4 85.21868	7.4 837.17261
3.7005 439.51397	7.401 26.998696	7.401 82.846734	7.401 835.25759
3.701 444.71304	7.402 29.903834	7.402 82.228848	7.402 834.96806
3.7015 449.56649	7.403 31.771338	7.403 83.658688	7.403 836.11857
3.702 454.19637	7.404 32.400772	7.404 86.729411	7.404 838.18634
3.7025 459.15414	7.405 31.784073	7.405 90.581825	7.405 840.34079
3.703 464.90596	7.406 30.096196	7.406 94.252662	7.406 841.63688
3.7035 471.33936	7.407 27.647192	7.407 96.966621	7.407 841.40469
3.704 477.68604	7.408 24.809763	7.408 98.2889	7.408 839.63228
3.7045 482.93805	7.409 21.945182	7.409 98.171185	7.409 837.07137
3.705 486.4565	7.41 19.351748	7.41 96.96719	7.41 834.91662
3.7055 488.34617	7.411 17.250958	7.411 95.368279	7.411 834.23633
3.706 489.34601	7.412 15.809867	7.412 94.191762	7.412 835.4976
3.7065 490.36008	7.413 15.181212	7.413 94.053535	7.413 838.43419
3.707 491.94239	7.414 15.534292	7.414 95.078345	7.414 842.29187
3.7075 494.02742	7.415 17.054129	7.415 96.803199	7.415 846.25123
3.708 495.97829	7.416 19.901756	7.416 98.378279	7.416 849.79716
3.7085 496.86695	7.417 24.147053	7.417 98.963687	7.417 852.86274
3.709 495.84872	7.418 29.698844	7.418 98.078247	7.418 855.7163
3.7095 492.51181	7.419 36.26018	7.419 95.756684	7.419 858.70747
3.71 487.10557	7.42 43.329844	7.42 92.485492	7.42 861.97199
3.7105 480.52894	7.421 50.257937	7.421 89.002207	7.421 865.26849
3.711 474.04869	7.422 56.347959	7.422 86.086031	7.422 867.99776
3.7115 468.8259	7.423 60.983871	7.423 84.379761	7.423 869.39021
3.712 465.49988	7.424 63.751087	7.424 84.244459	7.424 868.78919
3.7125 464.07583	7.425 64.518312	7.425 85.601204	7.425 865.90738
3.713 464.15551	7.426 63.454875	7.426 87.789764	7.426 860.99154
3.7135 465.3482	7.427 60.975374	7.427 89.557622	7.427 854.82504
3.714 467.55235	7.428 57.625689	7.428 89.325983	7.428 848.55485
3.7145 470.95896	7.429 53.943948	7.429 85.761493	7.429 843.39978
3.715 475.84193	7.43 50.339044	7.43 78.468678	7.43 840.29729
3.7155 482.30548	7.431 47.02327	7.431 68.409364	7.431 839.60093
3.716 490.13931	7.432 44.0165	7.432 57.741007	7.432 840.93109
3.7165 498.75563	7.433 41.213971	7.433 49.046697	7.433 843.29451
3.717 507.19476	7.434 38.487923	7.434 44.339211	7.434 845.52554
3.7175 514.21398	7.435 35.783125	7.435 44.313822	7.435 846.84912
3.718 518.50444	7.436 33.171084	7.436 48.178189	7.436 847.23114
3.7185 519.03521	7.437 30.84537	7.437 54.041238	7.437 847.28863
3.719 515.37912	7.438 29.063733	7.438 59.641194	7.438 847.77304
3.7195 507.89161	7.439 28.062692	7.439 63.124912	7.439 848.98844
3.72 497.61623	7.44 27.979122	7.44 63.677857	7.44 850.57456
3.7205 486.04915	7.441 28.807903	7.441 61.770619	7.441 851.80763
3.721 474.85304	7.442 30.407756	7.442 58.970944	7.442 852.18777
3.7215 465.62982	7.443 32.546711	7.443 57.316643	7.443 851.86145
3.722 459.68817	7.444 34.963817	7.444 58.451784	7.444 851.56352

3.7225 457.77733	7.445 37.421169	7.445 62.92838	7.445 852.14049
3.723 459.84474	7.446 39.730212	7.446 69.987917	7.446 853.97951
3.7235 464.96584	7.447 41.75238	7.447 77.915412	7.447 856.7222
3.724 471.60602	7.448 43.387298	7.448 84.77457	7.448 859.3897
3.7245 478.13699	7.449 44.565139	7.449 89.098146	7.449 860.85287
3.725 483.37032	7.45 45.252461	7.45 90.253482	7.45 860.37913
3.7255 486.77223	7.451 45.468147	7.451 88.425695	7.451 858.00668
3.726 488.26286	7.452 45.296006	7.452 84.377017	7.452 854.55941
3.7265 487.79892	7.453 44.87923	7.453 79.169377	7.453 851.30542
3.727 485.1117	7.454 44.390013	7.454 73.914506	7.454 849.44153
3.7275 479.85252	7.455 43.980791	7.455 69.547253	7.455 849.65449
3.728 472.06257	7.456 43.734513	7.456 66.627862	7.456 851.98215
3.7285 462.59812	7.457 43.634186	7.457 65.259139	7.457 855.95067
3.729 453.13568	7.458 43.5652	7.458 65.194574	7.458 860.83156
3.7295 445.69149	7.459 43.350638	7.459 66.101104	7.459 865.8115
3.73 441.8951	7.46 42.806396	7.46 67.801402	7.46 870.0481
3.7305 442.39476	7.461 41.79539	7.461 70.389447	7.461 872.72512
3.731 446.68707	7.462 40.261759	7.462 74.134761	7.462 873.18792
3.7315 453.38861	7.463 38.23552	7.463 79.292203	7.463 871.21797
3.732 460.76482	7.464 35.811334	7.464 85.879037	7.464 867.26752
3.7325 467.26852	7.465 33.115621	7.465 93.534867	7.465 862.51311
3.733 471.84865	7.466 30.279682	7.466 101.49363	7.466 858.62306
3.7335 474.02684	7.467 27.431091	7.467 108.70033	7.467 857.25
3.734 473.79065	7.468 24.704086	7.468 114.14249	7.468 859.45674
3.7345 471.46858	7.469 22.257735	7.469 117.20811	7.469 865.2864
3.735 467.61343	7.47 20.284509	7.47 117.87883	7.47 873.62439
3.7355 462.89028	7.471 18.995228	7.471 116.56601	7.471 882.39312
3.736 457.97612	7.472 18.577988	7.472 113.71121	7.472 889.07954
3.7365 453.49626	7.473 19.14314	7.473 109.43441	7.473 891.51219
3.737 450.05903	7.474 20.676169	7.474 103.56487	7.474 888.6914
3.7375 448.32024	7.475 23.020225	7.475 96.017534	7.475 881.2864
3.738 448.94025	7.476 25.899449	7.476 87.202271	7.476 871.51248
3.7385 452.37153	7.477 28.977899	7.477 78.155381	7.477 862.33041
3.739 458.5803	7.478 31.934275	7.478 70.276558	7.478 856.34201
3.7395 466.88113	7.479 34.526368	7.479 64.837373	7.479 854.88292
3.74 476.04266	7.48 36.623992	7.48 62.551162	7.48 857.71334
3.7405 484.618	7.481 38.202486	7.481 63.392014	7.481 863.31865
3.741 491.35499	7.482 39.304679	7.482 66.661913	7.482 869.59795
3.7415 495.52056	7.483 39.990295	7.483 71.223596	7.483 874.61655
3.742 497.05529	7.484 40.293777	7.484 75.799494	7.484 877.19749
3.7425 496.52242	7.485 40.204416	7.485 79.307519	7.485 877.21353
3.743 494.8484	7.486 39.670991	7.486 81.134733	7.486 875.50717
3.7435 492.93309	7.487 38.623009	7.487 81.283192	7.487 873.46758
3.744 491.30191	7.488 36.996804	7.488 80.275574	7.488 872.40562
3.7445 489.97229	7.489 34.757407	7.489 78.873731	7.489 873.00073
3.745 488.60287	7.49 31.913138	7.49 77.712897	7.49 875.06786
3.7455 486.80798	7.491 28.524592	7.491 77.102608	7.491 877.74086
3.746 484.43101	7.492 24.710555	7.492 77.029856	7.492 879.96487
3.7465 481.64919	7.493 20.651087	7.493 77.333662	7.493 880.97335
3.747 478.90262	7.494 16.585151	7.494 77.908467	7.494 880.50678
3.7475 476.73034	7.495 12.799253	7.495 78.76113	7.495 878.74674

3.748 475.57661	7.496 9.6049943	7.496 79.932647	7.496 876.09677
3.7485 475.63183	7.497 7.3062677	7.497 81.332861	7.497 873.0502
3.749 476.771	7.498 6.1596995	7.498 82.613576	7.498 870.18931
3.7495 478.58172	7.499 6.3344071	7.499 83.146071	7.499 868.17372
3.75 480.44877	7.5 7.8790297	7.5 82.10431	7.5 867.60514
3.7505 481.65596	7.501 10.704676	7.501 78.681535	7.501 868.74085
3.751 481.50768	7.502 14.590539	7.502 72.371481	7.502 871.27648
3.7515 479.52369	7.503 19.21358	7.503 63.268263	7.503 874.40294
3.752 475.69564	7.504 24.196063	7.504 52.235318	7.504 877.19376
3.7525 470.6348	7.505 29.158231	7.505 40.783232	7.505 879.11824
3.753 465.46873	7.506 33.762065	7.506 30.68332	7.506 880.32255
3.7535 461.47834	7.507 37.737251	7.507 23.425817	7.507 881.45149
3.754 459.64609	7.508 40.889801	7.508 19.774946	7.508 883.05789
3.7545 460.3424	7.509 43.10165	7.509 19.645511	7.509 885.02735
3.755 463.28007	7.51 44.331241	7.51 22.315833	7.51 886.45569
3.7555 467.69206	7.511 44.619491	7.511 26.809987	7.511 886.16412
3.756 472.62717	7.512 44.096188	7.512 32.220996	7.512 883.54256
3.7565 477.2367	7.513 42.975078	7.513 37.802496	7.513 879.15966
3.757 480.96954	7.514 41.526223	7.514 42.90884	7.514 874.68753
3.7575 483.61802	7.515 40.022631	7.515 47.002376	7.515 872.13466
3.758 485.19792	7.516 38.670854	7.516 49.774448	7.516 872.853
3.7585 485.75646	7.517 37.546179	7.517 51.35268	7.517 876.89494
3.759 485.22487	7.518 36.556768	7.518 52.321229	7.518 883.10072
3.7595 483.43134	7.519 35.455074	7.519 53.474059	7.519 889.77813
3.76 480.27344	7.52 33.900678	7.52 55.404827	7.52 895.50881
3.7605 475.93398	7.521 31.561362	7.521 58.212199	7.521 899.6085
3.761 470.99478	7.522 28.225072	7.522 61.488408	7.522 902.06237
3.7615 466.36332	7.523 23.890092	7.523 64.542223	7.523 903.14725
3.762 463.0306	7.524 18.806364	7.524 66.664313	7.524 903.1057
3.7625 461.738	7.525 13.455486	7.525 67.348307	7.525 902.10062
3.763 462.6986	7.526 8.4748221	7.526 66.444296	7.526 900.38529
3.7635 465.49069	7.527 4.5458197	7.527 64.282087	7.527 898.47312
3.764 469.21664	7.528 2.2734166	7.528 61.674976	7.528 897.07149
3.7645 472.80831	7.529 2.0815994	7.529 59.685824	7.529 896.81887
3.765 475.35536	7.53 4.1427272	7.53 59.200694	7.53 897.9558
3.7655 476.30382	7.531 8.3493448	7.531 60.481522	7.531 900.16993
3.766 475.49641	7.532 14.329894	7.532 63.053192	7.532 902.69425
3.7665 473.11739	7.533 21.504407	7.533 65.998276	7.533 904.64902
3.767 469.60786	7.534 29.17163	7.534 68.455458	7.534 905.39086
3.7675 465.58982	7.535 36.613985	7.535 70.016299	7.535 904.75851
3.768 461.77036	7.536 43.202067	7.536 70.761928	7.536 903.08882
3.7685 458.78314	7.537 48.478381	7.537 70.980981	7.537 901.09037
3.769 457.05867	7.538 52.203205	7.538 70.848042	7.538 899.65101
3.7695 456.78034	7.539 54.354399	7.539 70.279206	7.539 899.64278
3.77 457.99103	7.54 55.08538	7.54 69.048566	7.54 901.70038
3.7705 460.76144	7.541 54.656938	7.541 67.052121	7.541 905.99588
3.771 465.20551	7.542 53.364837	7.542 64.4589	7.542 912.0472
3.7715 471.21693	7.543 51.483678	7.543 61.621081	7.543 918.7243
3.772 478.07854	7.544 49.239433	7.544 58.843314	7.544 924.52683
3.7725 484.30979	7.545 46.811673	7.545 56.219274	7.545 928.08959
3.773 488.07612	7.546 44.356295	7.546 53.675143	7.546 928.67046

3.7735 488.06154	7.547 42.033838	7.547 51.157629	7.547 926.37666
3.774 484.27778	7.548 40.028163	7.548 48.777761	7.548 922.01633
3.7745 478.26774	7.549 38.544702	7.549 46.772196	7.549 916.70013
3.775 472.52411	7.55 37.784764	7.55 45.355604	7.55 911.45919
3.7755 469.44568	7.551 37.900638	7.551 44.612097	7.551 907.09305
3.776 470.37682	7.552 38.943722	7.552 44.477383	7.552 904.20576
3.7765 475.11964	7.553 40.822427	7.553 44.798776	7.553 903.25195
3.777 482.10165	7.554 43.286305	7.554 45.392981	7.554 904.40704
3.7775 489.05505	7.555 45.946852	7.555 46.119853	7.555 907.31377
3.778 493.97315	7.556 48.335109	7.556 46.993586	7.556 910.95497
3.7785 495.96029	7.557 49.985004	7.557 48.28399	7.557 913.93722
3.779 495.60477	7.558 50.523421	7.558 50.501017	7.558 915.10224
3.7795 494.6601	7.559 49.745844	7.559 54.147947	7.559 914.16897
3.78 495.18105	7.56 47.660157	7.56 59.327213	7.56 911.9189
3.7805 498.55696	7.561 44.488959	7.561 65.490285	7.561 909.77979
3.781 504.92186	7.562 40.629942	7.562 71.571976	7.562 909.028
3.7815 513.16328	7.563 36.582859	7.563 76.481755	7.563 910.09841
3.782 521.44753	7.564 32.858855	7.564 79.67464	7.564 912.40698
3.7825 527.93726	7.565 29.892205	7.565 81.385864	7.565 914.73424
3.783 531.38561	7.566 27.974078	7.566 82.406413	7.566 915.86689
3.7835 531.41782	7.567 27.221832	7.567 83.519726	7.567 915.13364
3.784 528.46271	7.568 27.586654	7.568 85.041501	7.568 912.56365
3.7845 523.43883	7.569 28.890667	7.569 86.695255	7.569 908.74633
3.785 517.37729	7.57 30.87685	7.57 87.897874	7.57 904.53072
3.7855 511.1723	7.571 33.254951	7.571 88.211309	7.571 900.77407
3.786 505.52843	7.572 35.733877	7.572 87.718366	7.572 898.16862
3.7865 501.06625	7.573 38.041747	7.573 87.106621	7.573 897.19096
3.787 498.39055	7.574 39.942624	7.574 87.44179	7.574 898.09847
3.7875 498.01336	7.575 41.259344	7.575 89.685829	7.575 900.92294
3.788 500.12096	7.576 41.904583	7.576 94.155503	7.576 905.45159
3.7885 504.34132	7.577 41.911712	7.577 100.19606	7.577 911.17187
3.789 509.72738	7.578 41.449746	7.578 106.20884	7.578 917.27623
3.7895 515.00796	7.579 40.807414	7.579 110.13243	7.579 922.77417
3.79 519.05475	7.58 40.340754	7.58 110.13866	7.58 926.76198
3.7905 521.32408	7.581 40.392504	7.581 105.35039	7.581 928.72581
3.791 522.06483	7.582 41.203726	7.582 96.209051	7.582 928.69717
3.7915 522.12816	7.583 42.843271	7.583 84.354473	7.583 927.19485
3.792 522.4566	7.584 45.176725	7.584 72.05087	7.584 924.96515
3.7925 523.4881	7.585 47.885154	7.585 61.416511	7.585 922.71069
3.793 524.84654	7.586 50.529518	7.586 53.743203	7.586 920.91503
3.7935 525.52792	7.587 52.644217	7.587 49.260258	7.587 919.80434
3.794 524.49485	7.588 53.836506	7.588 47.334372	7.588 919.38395
3.7945 521.3299	7.589 53.868851	7.589 46.953547	7.589 919.50364
3.795 516.57603	7.59 52.707393	7.59 47.231819	7.59 919.89984
3.7955 511.53618	7.591 50.52864	7.591 47.748103	7.591 920.21561
3.796 507.67884	7.592 47.685472	7.592 48.651205	7.592 920.01253
3.7965 505.95803	7.593 44.640607	7.593 50.490805	7.593 918.8492
3.797 506.39975	7.594 41.880394	7.594 53.842298	7.594 916.42446
3.7975 508.19703	7.595 39.824587	7.595 58.855198	7.595 912.75296
3.798 510.18414	7.596 38.748725	7.596 64.983682	7.596 908.21739
3.7985 511.45358	7.597 38.734715	7.597 71.12309	7.597 903.49064

3.799 511.72898	7.598 39.661102	7.598 76.10829	7.598 899.34708
3.7995 511.30117	7.599 41.23701	7.599 79.241653	7.599 896.51745
3.8 510.63543	7.6 43.073411	7.6 80.51758	7.6 895.6213
3.8005 509.97828	7.601 44.77475	7.601 80.502999	7.601 897.09333
3.801 509.25765	7.602 46.026852	7.602 80.064458	7.602 901.02972
3.8015 508.30094	7.603 46.657036	7.603 80.157833	7.603 906.94181
3.802 507.10584	7.604 46.650803	7.604 81.652446	7.604 913.6489
3.8025 505.86413	7.605 46.123988	7.605 85.083346	7.605 919.5069
3.803 504.71211	7.606 45.264327	7.606 90.309829	7.606 922.99376
3.8035 503.43382	7.607 44.265644	7.607 96.370862	7.607 923.38371
3.804 501.4567	7.608 43.277653	7.608 101.76495	7.608 921.16369
3.8045 498.21073	7.609 42.3851	7.609 105.09369	7.609 917.92174
3.805 493.66432	7.61 41.616409	7.61 105.67585	7.61 915.74574
3.8055 488.64671	7.611 40.970147	7.611 103.72297	7.611 916.39022
3.806 484.71515	7.612 40.442196	7.612 99.97006	7.612 920.55974
3.8065 483.55419	7.613 40.038949	7.613 95.160309	7.613 927.57394
3.807 486.22129	7.614 39.770052	7.614 89.763944	7.614 935.5498
3.8075 492.56958	7.615 39.624355	7.615 84.111366	7.615 942.03578
3.808 501.17799	7.616 39.540651	7.616 78.694544	7.616 944.91481
3.8085 509.76466	7.617 39.387739	7.617 74.272808	7.617 943.22224
3.809 515.94646	7.618 38.965577	7.618 71.608341	7.618 937.55085
3.8095 518.01771	7.619 38.032019	7.619 71.022067	7.619 929.83271
3.81 515.48744	7.62 36.350692	7.62 72.174898	7.62 922.61162
3.8105 509.24564	7.621 33.748122	7.621 74.292684	7.621 918.14776
3.811 501.26581	7.622 30.164941	7.622 76.682693	7.622 917.67747
3.8115 493.92905	7.623 25.687569	7.623 79.140484	7.623 921.05923
3.812 489.18454	7.624 20.55196	7.624 81.944222	7.624 926.89184
3.8125 487.83499	7.625 15.117371	7.625 85.480224	7.625 933.07862
3.813 489.31839	7.626 9.8139317	7.626 89.784901	7.626 937.63887
3.8135 492.08031	7.627 5.0726782	7.627 94.370702	7.627 939.43968
3.814 494.34396	7.628 1.2512168	7.628 98.383541	7.628 938.52307
3.8145 494.87925	7.629 -1.427894	7.629 100.96301	7.629 935.87435
3.815 493.38883	7.63 -2.90804	7.63 101.54506	7.63 932.80117
3.8155 490.37485	7.631 -3.286015	7.631 99.989721	7.631 930.31627
3.816 486.69525	7.632 -2.756135	7.632 96.551593	7.632 928.85345
3.8165 483.12028	7.633 -1.528006	7.633 91.754177	7.633 928.35925
3.817 480.15422	7.634 0.2516963	7.634 86.236381	7.634 928.57696
3.8175 478.10564	7.635 2.5411416	7.635 80.590834	7.635 929.27723
3.818 477.23743	7.636 5.389433	7.636 75.281235	7.636 930.35258
3.8185 477.79326	7.637 8.8703125	7.637 70.647458	7.637 931.77945
3.819 479.88533	7.638 12.989925	7.638 67.012185	7.638 933.56863
3.8195 483.35426	7.639 17.607298	7.639 64.765742	7.639 935.69721
3.82 487.7705	7.64 22.401864	7.64 64.319805	7.64 938.08383
3.8205 492.57389	7.641 26.903682	7.641 65.914427	7.641 940.57406
3.821 497.22549	7.642 30.577744	7.642 69.415038	7.642 942.9733
3.8215 501.27047	7.643 32.934771	7.643 74.249515	7.643 945.08378
3.822 504.35185	7.644 33.634677	7.644 79.578115	7.644 946.7352
3.8225 506.26871	7.645 32.556387	7.645 84.612971	7.645 947.74299
3.823 507.13945	7.646 29.82316	7.646 88.890917	7.646 947.86403
3.8235 507.53307	7.647 25.787473	7.647 92.330346	7.647 946.86268
3.824 508.37406	7.648 20.987266	7.648 95.041006	7.648 944.7625

3.8245 510.56311	7.649 16.084555	7.649 97.009215	7.649 942.10377
3.825 514.48656	7.65 11.792119	7.65 97.901309	7.65 939.98938
3.8255 519.70722	7.651 8.79001	7.651 97.137616	7.651 939.76606
3.826 525.03675	7.652 7.6351459	7.652 94.172817	7.652 942.41283
3.8265 528.92788	7.653 8.6739706	7.653 88.829927	7.653 947.95006
3.827 529.96952	7.654 11.975767	7.654 81.454001	7.654 955.24101
3.8275 527.29839	7.655 17.306935	7.655 72.89883	7.655 962.33108
3.828 520.86467	7.656 24.160393	7.656 64.329367	7.656 967.19914
3.8285 511.52782	7.657 31.839607	7.657 56.939804	7.657 968.59159
3.829 500.94578	7.658 39.578744	7.658 51.702453	7.658 966.54664
3.8295 491.17232	7.659 46.667114	7.659 49.152146	7.659 962.36914
3.83 484.03588	7.66 52.544235	7.66 49.324068	7.66 958.03058
3.8305 480.53083	7.661 56.843534	7.661 51.79795	7.661 955.28286
3.831 480.54951	7.662 59.383031	7.662 55.82652	7.662 954.93489
3.8315 483.09492	7.663 60.121315	7.663 60.485293	7.663 956.60832
3.832 486.8202	7.664 59.107438	7.664 64.81148	7.664 959.06972
3.8325 490.58166	7.665 56.449951	7.665 67.93494	7.665 960.88456
3.833 493.7584	7.666 52.315714	7.666 69.215414	7.666 961.05923
3.8335 496.2795	7.667 46.951209	7.667 68.383865	7.667 959.39071
3.834 498.45743	7.668 40.70638	7.668 65.666674	7.668 956.44475
3.8345 500.75503	7.669 34.038923	7.669 61.816896	7.669 953.25738
3.835 503.5614	7.67 27.48545	7.67 57.951829	7.67 950.92418
3.8355 507.0189	7.671 21.600471	7.671 55.187288	7.671 950.23218
3.836 510.92802	7.672 16.878194	7.672 54.194896	7.672 951.44771
3.8365 514.78753	7.673 13.679975	7.673 54.92841	7.673 954.27374
3.837 518.00056	7.674 12.189058	7.674 56.720843	7.674 957.992
3.8375 520.155	7.675 12.404926	7.675 58.670783	7.675 961.70459
3.838 521.21331	7.676 14.175922	7.676 60.045149	7.676 964.60567
3.8385 521.49811	7.677 17.256284	7.677 60.443344	7.677 966.18653
3.839 521.49139	7.678 21.367201	7.678 59.716869	7.678 966.28046
3.8395 521.58833	7.679 26.243068	7.679 57.859509	7.679 964.9638
3.84 521.95922	7.68 31.65249	7.68 55.030654	7.68 962.41662
3.8405 522.54608	7.681 37.394667	7.681 51.71552	7.681 958.879
3.841 523.15028	7.682 43.280731	7.682 48.774805	7.682 954.72158
3.8415 523.51708	7.683 49.11303	7.683 47.243844	7.683 950.5646
3.842 523.42565	7.684 54.673005	7.684 47.990933	7.684 947.28458
3.8425 522.8042	7.685 59.72217	7.685 51.383286	7.685 945.84599
3.843 521.84615	7.686 64.014553	7.686 57.139109	7.686 947.00497
3.8435 521.02932	7.687 67.31545	7.687 64.386669	7.687 951.0155
3.844 520.94806	7.688 69.421813	7.688 71.852809	7.688 957.48462
3.8445 522.02264	7.689 70.182438	7.689 78.162681	7.689 965.4163
3.845 524.2392	7.69 69.518479	7.69 82.214763	7.69 973.44269
3.8455 527.09197	7.691 67.444121	7.691 83.443882	7.691 980.14116
3.846 529.77221	7.692 64.083117	7.692 81.86486	7.692 984.37802
3.8465 531.48828	7.693 59.672424	7.693 77.886984	7.693 985.58587
3.847 531.78691	7.694 54.543605	7.694 72.052878	7.694 983.91149
3.8475 530.71484	7.695 49.078644	7.695 64.943837	7.695 980.17165
3.848 528.77655	7.696 43.647864	7.696 57.24339	7.696 975.60925
3.8485 526.73411	7.697 38.547879	7.697 49.773075	7.697 971.51705
3.849 525.3463	7.698 33.960871	7.698 43.420867	7.698 968.88241
3.8495 525.16175	7.699 29.949706	7.699 38.912322	7.699 968.14667

3.85 526.43453	7.7 26.489224	7.7 36.64588	7.7 969.11318
3.8505 529.08976	7.701 23.519045	7.701 36.626204	7.701 970.97955
3.851 532.71913	7.702 20.994671	7.702 38.508895	7.702 972.52926
3.8515 536.59954	7.703 18.915497	7.703 41.69357	7.703 972.51824
3.852 539.81073	7.704 17.319635	7.704 45.449214	7.704 970.23275
3.8525 541.49615	7.705 16.250744	7.705 49.036728	7.705 965.97343
3.853 541.22501	7.706 15.714535	7.706 51.780315	7.706 961.10468
3.8535 539.24896	7.707 15.646548	7.707 53.151128	7.707 957.54799
3.854 536.49004	7.708 15.906603	7.708 52.88526	7.708 956.89509
3.8545 534.21319	7.709 16.302257	7.709 51.168996	7.709 959.67071
3.855 533.50267	7.71 16.630267	7.71 48.737342	7.71 965.12681
3.8555 534.80192	7.711 16.718287	7.711 46.734997	7.711 971.64225
3.856 537.69348	7.712 16.451932	7.712 46.250879	7.712 977.41412
3.8565 541.0584	7.713 15.782561	7.713 47.792941	7.713 981.04809
3.857 543.50656	7.714 14.722037	7.714 51.0044	7.714 981.84376
3.8575 543.86902	7.715 13.335834	7.715 54.816315	7.715 979.81372
3.858 541.50737	7.716 11.742382	7.716 57.992254	7.716 975.58202
3.8585 536.33575	7.717 10.117511	7.717 59.678699	7.717 970.22607
3.859 528.63333	7.718 8.6946176	7.718 59.675871	7.718 965.07796
3.8595 518.82813	7.719 7.7493321	7.719 58.372937	7.719 961.42429
3.86 507.43089	7.72 7.5635978	7.72 56.390312	7.72 960.1604
3.8605 495.1249	7.721 8.3745472	7.721 54.179744	7.721 961.50318
3.861 482.90988	7.722 10.322353	7.722 51.763917	7.722 964.91865
3.8615 472.10998	7.723 13.413205	7.723 48.752218	7.723 969.30764
3.862 464.10238	7.724 17.507717	7.724 44.669464	7.724 973.40198
3.8625 459.81283	7.725 22.334977	7.725 39.35444	7.725 976.23114
3.863 459.25672	7.726 27.524014	7.726 33.237498	7.726 977.50404
3.8635 461.41586	7.727 32.642401	7.727 27.293005	7.727 977.73613
3.864 464.6214	7.728 37.236222	7.728 22.698601	7.728 978.05199
3.8645 467.28103	7.729 40.872496	7.729 20.416514	7.729 979.63741
3.865 468.55933	7.73 43.188166	7.73 20.925898	7.73 983.06925
3.8655 468.66626	7.731 43.945559	7.731 24.177447	7.731 987.85569
3.866 468.65853	7.732 43.084692	7.732 29.68693	7.732 992.49636
3.8665 469.9074	7.733 40.754494	7.733 36.649646	7.733 995.12882
3.867 473.48064	7.734 37.304795	7.734 44.030342	7.734 994.46603
3.8675 479.68812	7.735 33.231176	7.735 50.690888	7.735 990.50069
3.868 487.89185	7.736 29.081623	7.736 55.576155	7.736 984.58236
3.8685 496.68116	7.737 25.34921	7.737 57.954481	7.737 978.80661
3.869 504.31229	7.738 22.381262	7.738 57.622818	7.738 975.08963
3.8695 509.2915	7.739 20.330098	7.739 55.053258	7.739 974.43932
3.87 510.82093	7.74 19.156274	7.74 51.354292	7.74 976.7547
3.8705 508.96966	7.741 18.678651	7.741 47.975458	7.741 981.16723
3.871 504.53036	7.742 18.65247	7.742 46.190948	7.742 986.57826
3.8715 498.71496	7.743 18.850395	7.743 46.598386	7.743 992.06453
3.872 492.81657	7.744 19.123005	7.744 48.936673	7.744 996.9869
3.8725 487.92472	7.745 19.423262	7.745 52.352362	7.745 1000.9057
3.873 484.69852	7.746 19.791815	7.746 55.949538	7.746 1003.4962
3.8735 483.24542	7.747 20.312985	7.747 59.251509	7.747 1004.5729
3.874 483.12923	7.748 21.060546	7.748 62.295705	7.748 1004.1942
3.8745 483.57774	7.749 22.054328	7.749 65.4038	7.749 1002.7342
3.875 483.81189	7.75 23.24241	7.75 68.845931	7.75 1000.8337

3.8755 483.37445	7.751 24.51209	7.751 72.557888	7.751 999.23761
3.876 482.31349	7.752 25.721353	7.752 76.068669	7.752 998.60346
3.8765 481.12025	7.753 26.736066	7.753 78.589872	7.753 999.34563
3.877 480.43429	7.754 27.458444	7.754 79.244614	7.754 1001.5782
3.8775 480.65215	7.755 27.838072	7.755 77.380544	7.755 1005.1298
3.878 481.64537	7.756 27.864568	7.756 72.834869	7.756 1009.6101
3.8785 482.78922	7.757 27.548038	7.757 66.01881	7.757 1014.4517
3.879 483.30416	7.758 26.898133	7.758 57.82147	7.758 1018.9364
3.8795 482.70044	7.759 25.913826	7.759 49.366306	7.759 1022.1962
3.88 481.03868	7.76 24.593129	7.76 41.730291	7.76 1023.2953
3.8805 478.87856	7.761 22.96438	7.761 35.737463	7.761 1021.4155
3.881 476.96496	7.762 21.129709	7.762 31.86966	7.762 1016.1567
3.8815 475.88739	7.763 19.300869	7.763 30.324031	7.763 1007.8244
3.882 475.83024	7.764 17.803429	7.764 31.121884	7.764 997.57408
3.8825 476.52201	7.765 17.032048	7.765 34.177957	7.765 987.30554
3.883 477.34512	7.766 17.356881	7.766 39.202637	7.766 979.24296
3.8835 477.61005	7.767 19.003429	7.767 45.545047	7.767 975.27855
3.884 476.85096	7.768 21.945176	7.768 52.177447	7.768 976.26827
3.8845 475.04279	7.769 25.851393	7.769 57.962988	7.769 981.61698
3.885 472.61642	7.77 30.118051	7.77 62.1804	7.77 989.39978
3.8855 470.28516	7.771 33.982511	7.771 64.896612	7.771 997.0869
3.886 468.76624	7.772 36.693162	7.772 66.96464	7.772 1002.5218
3.8865 468.5123	7.773 37.685133	7.773 69.550055	7.773 1004.6696
3.887 469.5222	7.774 36.710475	7.774 73.464536	7.774 1003.773
3.8875 471.32074	7.775 33.88612	7.775 78.7164	7.775 1000.942
3.888 473.14607	7.776 29.649694	7.776 84.508098	7.776 997.50055
3.8885 474.29956	7.777 24.641856	7.777 89.660267	7.777 994.48438
3.889 474.47334	7.778 19.55472	7.778 93.192559	7.778 992.4782
3.8895 473.81279	7.779 14.992472	7.779 94.68464	7.779 991.7028
3.89 472.69096	7.78 11.380929	7.78 94.242361	7.78 992.166
3.8905 471.38183	7.781 8.94167	7.781 92.216879	7.781 993.72277
3.891 469.88671	7.782 7.7216219	7.782 88.891734	7.782 996.07653
3.8915 468.04794	7.783 7.6507969	7.783 84.414834	7.783 998.76195
3.892 465.78846	7.784 8.5961808	7.784 78.967709	7.784 1001.2089
3.8925 463.29191	7.785 10.389914	7.785 72.981544	7.785 1002.8856
3.893 460.95115	7.786 12.828922	7.786 67.198791	7.786 1003.4977
3.8935 459.18208	7.787 15.661136	7.787 62.462427	7.787 1003.1551
3.894 458.19553	7.788 18.581308	7.788 59.34754	7.788 1002.4015
3.8945 457.8932	7.789 21.253762	7.789 57.875814	7.789 1002.031
3.895 457.88675	7.79 23.363829	7.79 57.524811	7.79 1002.7376
3.8955 457.63249	7.791 24.682909	7.791 57.568271	7.791 1004.7972
3.896 456.64382	7.792 25.122731	7.792 57.482835	7.792 1007.9459
3.8965 454.72364	7.793 24.757038	7.793 57.155656	7.793 1011.5246
3.897 452.12462	7.794 23.801587	7.794 56.746731	7.794 1014.7905
3.8975 449.54113	7.795 22.559265	7.795 56.33107	7.795 1017.2036
3.898 447.88984	7.796 21.348592	7.796 55.660496	7.796 1018.5432
3.8985 447.97551	7.797 20.436464	7.797 54.230282	7.797 1018.8606
3.899 450.19103	7.798 19.990445	7.798 51.614906	7.798 1018.3267
3.8995 454.39474	7.799 20.057009	7.799 47.804255	7.799 1017.0741
3.9 459.98901	7.8 20.564979	7.8 43.31211	7.8 1015.1511
3.9005 466.09967	7.801 21.35035	7.801 39.007503	7.801 1012.634

3.901 471.77511	7.802 22.198197	7.802 35.785401	7.802 1009.8545
3.9015 476.13827	7.803 22.896136	7.803 34.277582	7.803 1007.5256
3.902 478.54162	7.804 23.290009	7.804 34.713472	7.804 1006.5715
3.9025 478.73103	7.805 23.327528	7.805 36.937656	7.805 1007.6634
3.903 476.96653	7.806 23.073951	7.806 40.549626	7.806 1010.7676
3.9035 474.02686	7.807 22.689405	7.807 45.060307	7.807 1015.046
3.904 470.98726	7.808 22.370425	7.808 49.949917	7.808 1019.2328
3.9045 468.85579	7.809 22.273865	7.809 54.616501	7.809 1022.2552
3.905 468.18799	7.81 22.451482	7.81 58.269632	7.81 1023.6852
3.9055 468.91541	7.811 22.82173	7.811 59.959149	7.811 1023.7952
3.906 470.46052	7.812 23.190927	7.812 58.836426	7.812 1023.2654
3.9065 472.114	7.813 23.315211	7.813 54.609468	7.813 1022.8012
3.907 473.42584	7.814 22.978144	7.814 47.935986	7.814 1022.8772
3.9075 474.41505	7.815 22.05467	7.815 40.479226	7.815 1023.6308
3.908 475.50079	7.816 20.541849	7.816 34.465633	7.816 1024.8369
3.9085 477.23554	7.817 18.553874	7.817 31.845422	7.817 1025.9626
3.909 480.0208	7.818 16.293348	7.818 33.409147	7.818 1026.2874
3.9095 483.92271	7.819 14.015336	7.819 38.365185	7.819 1025.1335
3.91 488.66751	7.82 11.994991	7.82 44.665655	7.82 1022.1608
3.9105 493.79156	7.821 10.49957	7.821 49.958245	7.821 1017.6202
3.911 498.80114	7.822 9.759243	7.822 52.640771	7.822 1012.4095
3.9115 503.26187	7.823 9.9328618	7.823 52.449551	7.823 1007.8722
3.912 506.74744	7.824 11.073214	7.824 50.306541	7.824 1005.3632
3.9125 508.71341	7.825 13.10515	7.825 47.640097	7.825 1005.7618
3.913 508.45051	7.826 15.832196	7.826 45.632888	7.826 1009.1785
3.9135 505.21502	7.827 18.979486	7.827 44.792341	7.827 1014.9827
3.914 498.5556	7.828 22.265269	7.828 45.00867	7.828 1022.1346
3.9145 488.68306	7.829 25.477391	7.829 45.898741	7.829 1029.5726
3.915 476.70766	7.83 28.523814	7.83 47.159219	7.83 1036.4444
3.9155 464.55363	7.831 31.432788	7.831 48.683484	7.831 1042.0766
3.916 454.49901	7.832 34.2976	7.832 50.465799	7.832 1045.8662
3.9165 448.48629	7.833 37.184698	7.833 52.423311	7.833 1047.2998
3.917 447.47757	7.834 40.041482	7.834 54.326941	7.834 1046.1903
3.9175 451.18264	7.835 42.642667	7.835 55.896026	7.835 1042.9321
3.918 458.27151	7.836 44.600321	7.836 56.883693	7.836 1038.4872
3.9185 466.90308	7.837 45.438765	7.837 57.130498	7.837 1033.9904
3.919 475.24104	7.838 44.711877	7.838 56.492198	7.838 1030.1942
3.9195 481.78241	7.839 42.126552	7.839 54.831639	7.839 1027.1555
3.92 485.50769	7.84 37.636191	7.84 52.084703	7.84 1024.4313
3.9205 486.04144	7.841 31.479868	7.841 48.395303	7.841 1021.6435
3.921 483.86244	7.842 24.15985	7.842 44.200031	7.842 1018.9993
3.9215 480.37148	7.843 16.366003	7.843 40.148484	7.843 1017.3788
3.922 477.60144	7.844 8.866154	7.844 36.869419	7.844 1017.9041
3.9225 477.51327	7.845 2.3862452	7.845 34.692867	7.845 1021.2726
3.923 481.18213	7.846 -2.496261	7.846 33.511631	7.846 1027.2757
3.9235 488.30568	7.847 -5.426539	7.847 32.858315	7.847 1034.7559
3.924 497.28936	7.848 -6.30265	7.848 32.222318	7.848 1041.9778
3.9245 505.85859	7.849 -5.26055	7.849 31.39936	7.849 1047.1951
3.925 511.90484	7.85 -2.622927	7.85 30.658595	7.85 1049.1652
3.9255 514.20052	7.851 1.1715186	7.851 30.657808	7.851 1047.4445
3.926 512.70395	7.852 5.6397679	7.852 32.135867	7.852 1042.455

3.9265 508.42776	7.853 10.312684	7.853 35.562234	7.853 1035.353
3.927 502.92208	7.854 14.773586	7.854 40.906762	7.854 1027.7504
3.9275 497.61301	7.855 18.679871	7.855 47.554063	7.855 1021.319
3.928 493.28372	7.856 21.775863	7.856 54.376961	7.856 1017.3856
3.9285 489.92683	7.857 23.905135	7.857 59.987817	7.857 1016.5862
3.929 487.01954	7.858 25.025341	7.858 63.114729	7.858 1018.7212
3.9295 484.0317	7.859 25.220863	7.859 62.991194	7.859 1022.8275
3.93 480.85269	7.86 24.702625	7.86 59.499767	7.86 1027.4953
3.9305 477.89662	7.861 23.784306	7.861 53.098719	7.861 1031.3054
3.931 475.88723	7.862 22.831345	7.862 44.589885	7.862 1033.2963
3.9315 475.4871	7.863 22.191224	7.863 35.004371	7.863 1033.2489
3.932 476.96133	7.864 22.124373	7.864 25.627246	7.864 1031.7057
3.9325 480.02741	7.865 22.758374	7.865 17.991073	7.865 1029.6756
3.933 483.88677	7.866 24.080556	7.866 13.645023	7.866 1028.1642
3.9335 487.48704	7.867 25.968522	7.867 13.706787	7.867 1027.7867
3.934 489.93421	7.868 28.242098	7.868 18.406146	7.868 1028.639
3.9345 490.93361	7.869 30.712362	7.869 26.869794	7.869 1030.4577
3.935 491.01779	7.87 33.208023	7.87 37.268079	7.87 1032.887
3.9355 491.3714	7.871 35.574095	7.871 47.277265	7.871 1035.6464
3.936 493.28641	7.872 37.654377	7.872 54.735819	7.872 1038.5305
3.9365 497.52053	7.873 39.278567	7.873 58.267895	7.873 1041.3127
3.937 503.92412	7.874 40.271944	7.874 57.673294	7.874 1043.7038
3.9375 511.48619	7.875 40.492163	7.875 53.938857	7.875 1045.4144
3.938 518.73626	7.876 39.88125	7.876 48.830717	7.876 1046.2754
3.9385 524.28407	7.877 38.509973	7.877 44.258276	7.877 1046.32
3.939 527.22593	7.878 36.592082	7.878 41.686885	7.878 1045.7841
3.9395 527.37489	7.879 34.456751	7.879 41.775383	7.879 1045.0697
3.94 525.21607	7.88 32.483773	7.88 44.287585	7.88 1044.6433
3.9405 521.62185	7.881 31.019965	7.881 48.231456	7.881 1044.8627
3.941 517.41516	7.882 30.301454	7.882 52.198851	7.882 1045.7815
3.9415 513.02236	7.883 30.403427	7.883 54.854195	7.883 1047.0487
3.942 508.40856	7.884 31.229193	7.884 55.454448	7.884 1048.0436
3.9425 503.38263	7.885 32.538549	7.885 54.166615	7.885 1048.1742
3.943 498.06896	7.886 34.005776	7.886 51.954064	7.886 1047.1825
3.9435 493.20785	7.887 35.292066	7.887 50.071926	7.887 1045.2506
3.944 490.01185	7.888 36.115737	7.888 49.392291	7.888 1042.9137
3.9445 489.62521	7.889 36.304975	7.889 49.977214	7.889 1040.8736
3.945 492.46092	7.89 35.821618	7.89 51.185838	7.89 1039.8155
3.9455 497.83931	7.891 34.750752	7.891 52.224077	7.891 1040.2439
3.946 504.08598	7.892 33.259715	7.892 52.783177	7.892 1042.2973
3.9465 509.11193	7.893 31.539679	7.893 53.296695	7.893 1045.6349
3.947 511.15283	7.894 29.749424	7.894 54.649497	7.894 1049.4894
3.9475 509.36428	7.895 27.980338	7.895 57.54716	7.895 1052.961
3.948 504.04895	7.896 26.252999	7.896 62.00109	7.896 1055.4122
3.9485 496.4799	7.897 24.542285	7.897 67.270926	7.897 1056.7485
3.949 488.45742	7.898 22.816458	7.898 72.22153	7.898 1057.4322
3.9495 481.78371	7.899 21.071873	7.899 75.812655	7.899 1058.2587
3.95 477.80195	7.9 19.350343	7.9 77.389769	7.9 1060.0041
3.9505 477.11918	7.901 17.736911	7.901 76.798647	7.901 1063.0918
3.951 479.59001	7.902 16.345241	7.902 74.412064	7.902 1067.3674
3.9515 484.54009	7.903 15.300791	7.903 71.074897	7.903 1072.0711

3.952 491.07419	7.904 14.727922	7.904 67.920009	7.904 1076.0727
3.9525 498.28239	7.905 14.739832	7.905 65.961538	7.905 1078.3241
3.953 505.27415	7.906 15.425513	7.906 65.602736	7.906 1078.3341
3.9535 511.09843	7.907 16.829158	7.907 66.402942	7.907 1076.3827
3.954 514.76182	7.908 18.924191	7.908 67.320324	7.908 1073.3423
3.9545 515.4707	7.909 21.591828	7.909 67.312674	7.909 1070.1916
3.955 513.00061	7.91 24.617619	7.91 65.971268	7.91 1067.5518
3.9555 507.98164	7.911 27.715611	7.911 63.706049	7.911 1065.4933
3.956 501.84849	7.912 30.57969	7.912 61.387642	7.912 1063.6946
3.9565 496.41591	7.913 32.949736	7.913 59.696283	7.913 1061.7932
3.957 493.2029	7.914 34.672163	7.914 58.628696	7.914 1059.69
3.9575 492.86874	7.915 35.734106	7.915 57.590866	7.915 1057.6652
3.958 494.99333	7.916 36.258373	7.916 55.956266	7.916 1056.2649
3.9585 498.34095	7.917 36.459256	7.917 53.716246	7.917 1056.029
3.959 501.41961	7.918 36.572476	7.918 51.684966	7.918 1057.2157
3.9595 503.07713	7.919 36.781092	7.919 51.044701	7.919 1059.6518
3.96 502.88036	7.92 37.160411	7.92 52.572826	7.92 1062.7962
3.9605 501.12619	7.921 37.658592	7.921 56.132343	7.921 1065.985
3.961 498.5996	7.922 38.118273	7.922 60.75431	7.922 1068.7449
3.9615 496.19634	7.923 38.331936	7.923 65.268273	7.923 1070.9738
3.962 494.60351	7.924 38.113909	7.924 68.895113	7.924 1072.8689
3.9625 494.08541	7.925 37.367643	7.925 71.443595	7.925 1074.6311
3.963 494.3946	7.926 36.129041	7.926 73.032885	7.926 1076.159
3.9635 494.83316	7.927 34.574055	7.927 73.709832	7.927 1076.9817
3.964 494.48323	7.928 32.988905	7.928 73.33911	7.928 1076.543
3.9645 492.61347	7.929 31.711071	7.929 71.789694	7.929 1074.6454
3.965 489.10344	7.93 31.055985	7.93 69.214061	7.93 1071.7524
3.9655 484.62808	7.931 31.246537	7.931 66.157612	7.931 1068.9145
3.966 480.46558	7.932 32.360334	7.932 63.399825	7.932 1067.3619
3.9665 477.95867	7.933 34.304404	7.933 61.652449	7.933 1067.9915
3.967 477.94551	7.934 36.821086	7.934 61.296931	7.934 1071.0241
3.9675 480.45794	7.935 39.523564	7.935 62.205887	7.935 1075.9283
3.968 484.80669	7.936 41.95557	7.936 63.737522	7.936 1081.6015
3.9685 489.95518	7.937 43.66653	7.937 64.886674	7.937 1086.733
3.969 494.91829	7.938 44.290341	7.938 64.656112	7.938 1090.2473
3.9695 499.00467	7.939 43.613411	7.939 62.537048	7.939 1091.6665
3.97 501.85578	7.94 41.617116	7.94 58.861892	7.94 1091.2373
3.9705 503.40356	7.941 38.483046	7.941 54.799574	7.941 1089.7195
3.971 503.83767	7.942 34.55698	7.942 51.896972	7.942 1087.991
3.9715 503.60731	7.943 30.277895	7.943 51.413197	7.943 1086.6887
3.972 503.33971	7.944 26.088399	7.944 53.810409	7.944 1086.1053
3.9725 503.6333	7.945 22.348981	7.945 58.638053	7.945 1086.3112
3.973 504.8181	7.946 19.278079	7.946 64.822068	7.946 1087.3329
3.9735 506.81079	7.947 16.932868	7.947 71.102326	7.947 1089.1801
3.974 509.19417	7.948 15.233977	7.948 76.378106	7.948 1091.7237
3.9745 511.42883	7.949 14.02471	7.949 79.867542	7.949 1094.5639
3.975 513.07962	7.95 13.145505	7.95 81.121167	7.95 1097.0724
3.9755 513.91016	7.951 12.500205	7.951 80.019359	7.951 1098.6098
3.976 513.87026	7.952 12.09345	7.952 76.799078	7.952 1098.7756
3.9765 513.05691	7.953 12.027384	7.953 72.097608	7.953 1097.5417
3.977 511.66417	7.954 12.458531	7.954 66.893274	7.954 1095.2251

3.9775 509.93768	7.955 13.528356	7.955 62.309334	7.955 1092.3729
3.978 508.10179	7.956 15.2898	7.956 59.303716	7.956 1089.6351
3.9785 506.31765	7.957 17.654256	7.957 58.362154	7.957 1087.6437
3.979 504.68598	7.958 20.378277	7.958 59.342596	7.958 1086.8485
3.9795 503.30028	7.959 23.098483	7.959 61.509274	7.959 1087.3361
3.98 502.31013	7.96 25.409595	7.96 63.769614	7.96 1088.7535
3.9805 501.93635	7.961 26.967558	7.961 65.023442	7.961 1090.4485
3.981 502.42368	7.962 27.590405	7.962 64.472731	7.962 1091.8017
3.9815 503.92757	7.963 27.326598	7.963 61.793534	7.963 1092.5632
3.982 506.37102	7.964 26.466007	7.964 57.168616	7.964 1092.9968
3.9825 509.32152	7.965 25.482857	7.965 51.223932	7.965 1093.7319
3.983 512.00871	7.966 24.920015	7.966 44.980888	7.966 1095.3968
3.9835 513.54936	7.967 25.243814	7.967 39.755623	7.967 1098.2108
3.984 513.34902	7.968 26.710804	7.968 36.950925	7.968 1101.7345
3.9845 511.48183	7.969 29.286737	7.969 37.641957	7.969 1104.933
3.985 508.77863	7.97 32.643265	7.97 42.110808	7.97 1106.5722
3.9855 506.52551	7.971 36.233971	7.971 49.595521	7.971 1105.7984
3.986 505.90417	7.972 39.427085	7.972 58.4993	7.972 1102.6224
3.9865 507.48232	7.973 41.655946	7.973 67.006372	7.973 1098.0008
3.987 511.03592	7.974 42.54526	7.974 73.817106	7.974 1093.4647
3.9875 515.73524	7.975 41.981833	7.975 78.532237	7.975 1090.4695
3.988 520.52566	7.976 40.118226	7.976 81.500702	7.976 1089.8452
3.9885 524.48862	7.977 37.319088	7.977 83.23563	7.977 1091.5746
3.989 527.02063	7.978 34.074974	7.978 83.814016	7.978 1094.9231
3.9895 527.81777	7.979 30.912153	7.979 82.705449	7.979 1098.7833
3.99 526.77844	7.98 28.319284	7.98 79.105313	7.98 1102.0628
3.9905 523.94341	7.981 26.697996	7.981 72.559322	7.981 1103.9892
3.991 519.53621	7.982 26.332106	7.982 63.491483	7.982 1104.2928
3.9915 514.09615	7.983 27.365616	7.983 53.290561	7.983 1103.225
3.992 508.52602	7.984 29.784027	7.984 43.924461	7.984 1101.4293
3.9925 503.94148	7.985 33.402566	7.985 37.294224	7.985 1099.6999
3.993 501.34998	7.986 37.871493	7.986 34.600478	7.986 1098.7299
3.9935 501.28729	7.987 42.707772	7.987 35.990129	7.987 1098.8969
3.994 503.6441	7.988 47.354248	7.988 40.583771	7.988 1100.1547
3.9945 507.7456	7.989 51.255927	7.989 46.893384	7.989 1102.0422
3.995 512.61765	7.99 53.936726	7.99 53.47085	7.99 1103.8275
3.9955 517.30579	7.991 55.061455	7.991 59.421885	7.991 1104.8138
3.996 521.11944	7.992 54.474974	7.992 64.546289	7.992 1104.6725
3.9965 523.77436	7.993 52.220291	7.993 69.029306	7.993 1103.6743
3.997 525.44244	7.994 48.542017	7.994 73.028957	7.994 1102.6276
3.9975 526.66347	7.995 43.87821	7.995 76.495116	7.995 1102.5383
3.998 528.10751	7.996 38.834227	7.996 79.337917	7.996 1104.1373
3.9985 530.24411	7.997 34.124525	7.997 81.732214	7.997 1107.5454
3.999 533.1001	7.998 30.472264	7.998 84.182778	7.998 1112.2425
3.9995 536.22859	7.999 28.475683	7.999 87.203684	7.999 1117.2752
4 538.92579		8 90.8077	8 1121.5689
4.0005 540.49477		8.001 94.161349	8.001 1124.1868
4.001 540.39993		8.002 95.738293	8.002 1124.5511
4.0015 538.28561		8.003 93.986586	8.003 1122.6275
4.002 534.00657		8.004 88.220932	8.004 1119.0505
4.0025 527.71359		8.005 79.268515	8.005 1115.0387

4.003 519.95845	8.006 69.423724	8.006 1112.0152
4.0035 511.67494	8.007 61.611941	8.007 1111.0171
4.004 504.00882	8.008 58.162101	8.008 1112.1969
4.0045 498.07907	8.009 59.844614	8.009 1114.7315
4.005 494.81866	8.01 65.683455	8.01 1117.275
4.0055 494.87575	8.011 73.545297	8.011 1118.6915
4.006 498.53067	8.012 81.086028	8.012 1118.6718
4.0065 505.53696	8.013 86.459047	8.013 1117.8245
4.007 514.98512	8.014 88.591015	8.014 1117.2416
4.0075 525.34012	8.015 87.133742	8.015 1117.8393
4.008 534.71747	8.016 82.395884	8.016 1119.8699
4.0085 541.35361	8.017 75.32951	8.017 1122.8791
4.009 544.07095	8.018 67.515216	8.018 1126.0135
4.0095 542.52987	8.019 60.859362	8.019 1128.4442
4.01 537.19897	8.02 57.04669	8.02 1129.6645
4.0105 529.08857	8.021 56.913361	8.021 1129.5918
4.011 519.44612	8.022 60.144481	8.022 1128.5149
4.0115 509.53747	8.023 65.475415	8.023 1126.966
4.012 500.56734	8.024 71.323388	8.024 1125.5253
4.0125 493.62066	8.025 76.431927	8.025 1124.5954
4.013 489.51283	8.026 80.178123	8.026 1124.2097
4.0135 488.51243	8.027 82.452867	8.027 1124.0113
4.014 490.11979	8.028 83.322018	8.028 1123.4665
4.0145 493.14856	8.029 82.821073	8.029 1122.2513
4.015 496.22136	8.03 80.980792	8.03 1120.5918
4.0155 498.42942	8.031 77.982718	8.031 1119.3229
4.016 499.72671	8.032 74.201553	8.032 1119.565
4.0165 500.76031	8.033 70.08593	8.033 1122.1564
4.017 502.27959	8.034 65.96276	8.034 1127.1157
4.0175 504.54769	8.035 61.946952	8.035 1133.4312
4.018 507.19824	8.036 57.954423	8.036 1139.3317
4.0185 509.54825	8.037 53.778885	8.037 1142.9153
4.019 511.10255	8.038 49.210103	8.038 1142.8827
4.0195 511.83359	8.039 44.186235	8.039 1139.066
4.02 512.11044	8.04 38.95461	8.04 1132.515
4.0205 512.42741	8.041 34.158741	8.041 1125.1137
4.021 513.14298	8.042 30.645933	8.042 1118.8491
4.0215 514.38386	8.043 29.054723	8.043 1115.1009
4.022 516.08182	8.044 29.442676	8.044 1114.2592
4.0225 518.01243	8.045 31.2268	8.045 1115.841
4.023 519.79087	8.046 33.562675	8.046 1118.9238
4.0235 520.85419	8.047 35.84046	8.047 1122.5785
4.024 520.56834	8.048 37.984701	8.048 1126.076
4.0245 518.47025	8.049 40.314723	8.049 1128.904
4.025 514.54521	8.05 43.150832	8.05 1130.7635
4.0255 509.34088	8.051 46.522191	8.051 1131.652
4.026 503.81319	8.052 50.177759	8.052 1131.9367
4.0265 498.98102	8.053 53.830509	8.053 1132.2321
4.027 495.54923	8.054 57.332032	8.054 1133.072
4.0275 493.69725	8.055 60.645785	8.055 1134.5615
4.028 493.12102	8.056 63.658251	8.056 1136.274

4.0285 493.27271	8.057 66.14213	8.057 1137.4891
4.029 493.65339	8.058 67.894402	8.058 1137.6378
4.0295 494.02971	8.059 68.990202	8.059 1136.6692
4.03 494.47635	8.06 69.842865	8.06 1135.1151
4.0305 495.29088	8.061 71.036932	8.061 1133.8029
4.031 496.86358	8.062 73.022021	8.062 1133.3943
4.0315 499.51843	8.063 75.887613	8.063 1134.015
4.032 503.40563	8.064 79.286622	8.064 1135.1834
4.0325 508.41014	8.065 82.533883	8.065 1136.1186
4.033 514.10428	8.066 84.748162	8.066 1136.2315
4.0335 519.75739	8.067 85.117379	8.067 1135.5262
4.034 524.42315	8.068 83.165626	8.068 1134.6223
4.0345 527.13703	8.069 78.951614	8.069 1134.4276
4.035 527.17263	8.07 73.060757	8.07 1135.621
4.0355 524.26929	8.071 66.359045	8.071 1138.3505
4.036 518.71456	8.072 59.651622	8.072 1142.266
4.0365 511.2418	8.073 53.455691	8.073 1146.8154
4.037 502.83319	8.074 48.005804	8.074 1151.5116
4.0375 494.53465	8.075 43.442343	8.075 1155.9613
4.038 487.37059	8.076 39.977865	8.076 1159.7287
4.0385 482.27144	8.077 37.882307	8.077 1162.261
4.039 479.93052	8.078 37.329788	8.078 1163.0785
4.0395 480.61795	8.079 38.234301	8.079 1162.0994
4.04 484.02265	8.08 40.260217	8.08 1159.8518
4.0405 489.29002	8.081 42.992251	8.081 1157.3252
4.041 495.25199	8.082 46.053727	8.082 1155.5383
4.0415 500.76165	8.083 49.107347	8.083 1155.1152
4.042 504.98859	8.084 51.73089	8.084 1156.1169
4.0425 507.61032	8.085 53.405624	8.085 1158.1892
4.043 508.84426	8.086 53.682219	8.086 1160.8312
4.0435 509.3552	8.087 52.389378	8.087 1163.5808
4.044 510.07729	8.088 49.733399	8.088 1166.0279
4.0445 511.94327	8.089 46.209568	8.089 1167.7224
4.045 515.57273	8.09 42.414602	8.09 1168.1145
4.0455 520.98026	8.091 38.956679	8.091 1166.637
4.046 527.41935	8.092 36.402379	8.092 1162.9339
4.0465 533.48301	8.093 35.223263	8.093 1157.153
4.047 537.4778	8.094 35.680916	8.094 1150.0772
4.0475 537.97747	8.095 37.703458	8.095 1143.0222
4.048 534.3477	8.096 40.870683	8.096 1137.4228
4.0485 527.02993	8.097 44.567527	8.097 1134.3471
4.049 517.45707	8.098 48.224728	8.098 1134.1447
4.0495 507.61107	8.099 51.526225	8.099 1136.3911
4.05 499.41248	8.1 54.437189	8.1 1140.1025
4.0505 494.18794	8.101 57.046153	8.101 1144.1338
4.051 492.4412	8.102 59.340044	8.102 1147.6046
4.0515 493.9279	8.103 61.05039	8.103 1150.1961
4.052 497.89473	8.104 61.674694	8.104 1152.2055
4.0525 503.34208	8.105 60.669761	8.105 1154.2922
4.053 509.14171	8.106 57.747332	8.106 1157.0392
4.0535 514.14576	8.107 53.075747	8.107 1160.5644

4.054 517.33625	8.108 47.301418	8.108 1164.385
4.0545 518.0581	8.109 41.333739	8.109 1167.6389
4.055 516.26001	8.11 36.01206	8.11 1169.5205
4.0555 512.57007	8.111 31.798559	8.111 1169.701
4.056 508.10351	8.112 28.721103	8.112 1168.5063
4.0565 504.05984	8.113 26.572521	8.113 1166.7607
4.057 501.33202	8.114 25.243964	8.114 1165.3643
4.0575 500.3101	8.115 24.922793	8.115 1164.8178
4.058 500.93866	8.116 25.96822	8.116 1164.9525
4.0585 502.93556	8.117 28.574999	8.117 1165.0461
4.059 505.96414	8.118 32.483358	8.118 1164.283
4.0595 509.69913	8.119 36.968362	8.119 1162.2897
4.06 513.80982	8.12 41.158698	8.12 1159.3728
4.0605 517.91696	8.121 44.477388	8.121 1156.3249
4.061 521.59604	8.122 46.886569	8.122 1153.9512
4.0615 524.38095	8.123 48.781031	8.123 1152.6732
4.062 525.8217	8.124 50.622163	8.124 1152.4587
4.0625 525.59231	8.125 52.596854	8.125 1153.0116
4.063 523.66965	8.126 54.550667	8.126 1153.96
4.0635 520.4618	8.127 56.154806	8.127 1154.9272
4.064 516.78784	8.128 57.139489	8.128 1155.5187
4.0645 513.66399	8.129 57.383052	8.129 1155.4024
4.065 511.96562	8.13 56.831858	8.13 1154.5112
4.0655 512.13956	8.131 55.404138	8.131 1153.246
4.066 514.05304	8.132 53.026684	8.132 1152.4805
4.0665 517.05185	8.133 49.774535	8.133 1153.2958
4.067 520.1864	8.134 45.999735	8.134 1156.5
4.0675 522.48698	8.135 42.307747	8.135 1162.1455
4.068 523.21714	8.136 39.359034	8.136 1169.3255
4.0685 522.05304	8.137 37.539131	8.137 1176.4063
4.069 519.14557	8.138 36.716064	8.138 1181.6762
4.0695 515.09797	8.139 36.237174	8.139 1184.0703
4.07 510.84391	8.14 35.259174	8.14 1183.5763
4.0705 507.43838	8.141 33.266141	8.141 1181.1366
4.071 505.76593	8.142 30.446135	8.142 1178.1556
4.0715 506.27535	8.143 27.609344	8.143 1175.9265
4.072 508.8327	8.144 25.655005	8.144 1175.2512
4.0725 512.78844	8.145 24.916658	8.145 1176.2996
4.073 517.26317	8.146 24.872611	8.146 1178.6784
4.0735 521.49984	8.147 24.449348	8.147 1181.6246
4.074 525.13888	8.148 22.72351	8.148 1184.2966
4.0745 528.23804	8.149 19.532672	8.149 1186.0583
4.075 531.05893	8.15 15.632114	8.15 1186.6452
4.0755 533.72783	8.151 12.335145	8.151 1186.1416
4.076 535.99276	8.152 10.917666	8.152 1184.8023
4.0765 537.22446	8.153 12.140858	8.153 1182.8788
4.077 536.6772	8.154 16.094076	8.154 1180.5476
4.0775 533.87882	8.155 22.279912	8.155 1177.9714
4.078 528.93915	8.156 29.774957	8.156 1175.3806
4.0785 522.61862	8.157 37.318032	8.157 1173.104
4.079 516.11373	8.158 43.459229	8.158 1171.4789

4.0795 510.69274	8.159 46.915626	8.159 1170.6979
4.08 507.37571	8.16 47.108295	8.16 1170.6983
4.0805 506.76817	8.161 44.593005	8.161 1171.1959
4.081 509.05027	8.162 41.020081	8.162 1171.8784
4.0815 514.02964	8.163 38.512	8.163 1172.6171
4.082 521.15053	8.164 38.764605	8.164 1173.5521
4.0825 529.498	8.165 42.374394	8.165 1174.9789
4.083 537.88893	8.166 48.715968	8.166 1177.1091
4.0835 545.13581	8.167 56.377785	8.167 1179.9029
4.084 550.40634	8.168 63.83336	8.168 1183.0703
4.0845 553.51525	8.169 69.977126	8.169 1186.2098
4.085 554.91786	8.17 74.317801	8.17 1188.9552
4.0855 555.40893	8.171 76.880606	8.171 1191.0275
4.086 555.6667	8.172 77.971824	8.172 1192.2095
4.0865 555.92114	8.173 77.962222	8.173 1192.3336
4.087 555.93461	8.174 77.112958	8.174 1191.3404
4.0875 555.27344	8.175 75.458504	8.175 1189.3597
4.088 553.67387	8.176 72.740359	8.176 1186.7145
4.0885 551.25551	8.177 68.516728	8.177 1183.8228
4.089 548.47359	8.178 62.427587	8.178 1181.0526
4.0895 545.89657	8.179 54.552954	8.179 1178.6498
4.09 543.98699	8.18 45.619181	8.18 1176.7883
4.0905 542.97998	8.181 36.928393	8.181 1175.6778
4.091 542.87726	8.182 30.012564	8.182 1175.5801
4.0915 543.50924	8.183 26.15029	8.183 1176.6895
4.092 544.60943	8.184 25.97811	8.184 1178.9642
4.0925 545.91778	8.185 29.271265	8.185 1182.0569
4.093 547.25528	8.186 34.99245	8.186 1185.442
4.0935 548.51864	8.187 41.583081	8.187 1188.6287
4.094 549.59303	8.188 47.484781	8.188 1191.3419
4.0945 550.2669	8.189 51.699402	8.189 1193.5509
4.095 550.30774	8.19 54.124716	8.19 1195.3336
4.0955 549.6723	8.191 55.467251	8.191 1196.7066
4.096 548.73617	8.192 56.748079	8.192 1197.5351
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4.097 549.26988	8.194 61.342834	8.194 1196.7953
4.0975 552.15149	8.195 64.117136	8.195 1195.1544
4.098 556.65927	8.196 66.244815	8.196 1192.9519
4.0985 561.70841	8.197 67.231625	8.197 1190.6117
4.099 565.87248	8.198 67.037851	8.198 1188.6426
4.0995 568.0848	8.199 65.899209	8.199 1187.5601
4.1 568.18982	8.2 63.999582	8.2 1187.7389
4.1005 567.04441	8.201 61.30058	8.201 1189.2123
4.101 566.10467	8.202 57.632235	8.202 1191.5536
4.1015 566.76176	8.203 52.972103	8.203 1193.9964
4.102 569.76005	8.204 47.646214	8.204 1195.802
4.1025 574.89124	8.205 42.343613	8.205 1196.6767
4.103 581.04048	8.206 37.919242	8.206 1196.9692
4.1035 586.51683	8.207 35.108037	8.207 1197.5154
4.104 589.62923	8.208 34.246154	8.208 1199.2038
4.1045 589.34985	8.209 35.164235	8.209 1202.4796

4.105 585.80289	8.21 37.307297	8.21 1207.0398
4.1055 580.31392	8.211 39.97663	8.211 1211.876
4.106 574.88812	8.212 42.577024	8.212 1215.665
4.1065 571.37786	8.213 44.676902	8.213 1217.3173
4.107 570.74202	8.214 45.929996	8.214 1216.398
4.1075 572.72153	8.215 46.017395	8.215 1213.2325
4.108 576.02744	8.216 44.721073	8.216 1208.6851
4.1085 578.86009	8.217 42.046872	8.217 1203.7954
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4.1095 577.29572	8.219 33.963367	8.219 1196.3879
4.11 572.22509	8.22 29.815486	8.22 1194.876
4.1105 565.63454	8.221 26.652759	8.221 1195.0271
4.111 559.41762	8.222 25.238825	8.222 1196.6793
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4.112 554.81351	8.224 28.791616	8.224 1202.9752
4.1125 557.65868	8.225 32.781234	8.225 1206.5538
4.113 562.94384	8.226 36.772047	8.226 1209.5391
4.1135 568.94899	8.227 39.571915	8.227 1211.2187
4.114 573.85706	8.228 40.349565	8.228 1211.07
4.1145 576.36762	8.229 38.83388	8.229 1209.0793
4.115 576.09795	8.23 35.36792	8.23 1205.9152
4.1155 573.56677	8.231 30.844207	8.231 1202.7559
4.116 569.81732	8.232 26.512126	8.232 1200.7607
4.1165 565.85492	8.233 23.604916	8.233 1200.4881
4.117 562.23663	8.234 22.882387	8.234 1201.6089
4.1175 558.99147	8.235 24.298303	8.235 1203.1151
4.118 555.86531	8.236 26.953911	8.236 1203.8689
4.1185 552.67476	8.237 29.37651	8.237 1203.1944
4.119 549.52417	8.238 30.073348	8.238 1201.1808
4.1195 546.80016	8.239 28.145611	8.239 1198.6191
4.12 545.01022	8.24 23.707396	8.24 1196.6183
4.1205 544.60782	8.241 17.911217	8.241 1196.0723
4.121 545.84165	8.242 12.504989	8.242 1197.1959
4.1215 548.62539	8.243 9.1552937	8.243 1199.3215
4.122 552.46833	8.244 8.8467274	8.244 1201.128
4.1225 556.53424	8.245 11.673368	8.245 1201.2491
4.123 559.87593	8.246 16.971341	8.246 1199.0267
4.1235 561.76785	8.247 23.629037	8.247 1194.9884
4.124 561.93317	8.248 30.36794	8.248 1190.7507
4.1245 560.56442	8.249 35.951535	8.249 1188.3628
4.125 558.19497	8.25 39.384363	8.25 1189.3773
4.1255 555.53421	8.251 40.122813	8.251 1194.1443
4.126 553.37005	8.252 38.245518	8.252 1201.628
4.1265 552.47667	8.253 34.398716	8.253 1209.8543
4.127 553.47196	8.254 29.531293	8.254 1216.716
4.1275 556.64885	8.255 24.546205	8.255 1220.7632
4.128 561.90072	8.256 20.044098	8.256 1221.5972
4.1285 568.74399	8.257 16.292024	8.257 1219.777
4.129 576.40477	8.258 13.382363	8.258 1216.4167
4.1295 583.86042	8.259 11.388963	8.259 1212.781
4.13 589.88446	8.26 10.386393	8.26 1210.0571

4.1305 593.18491	8.261 10.37143	8.261 1209.2617
4.131 592.72589	8.262 11.191191	8.262 1211.0544
4.1315 588.13821	8.263 12.596004	8.263 1215.4534
4.132 580.01144	8.264 14.377264	8.264 1221.5995
4.1325 569.85655	8.265 16.46528	8.265 1227.8517
4.133 559.68668	8.266 18.915129	8.266 1232.3152
4.1335 551.38697	8.267 21.822272	8.267 1233.5952
4.134 546.15944	8.268 25.233497	8.268 1231.4327
4.1345 544.29063	8.269 29.129574	8.269 1226.8449
4.135 545.32025	8.27 33.412582	8.27 1221.7161
4.1355 548.46889	8.271 37.892235	8.271 1217.9958
4.136 553.05472	8.272 42.249521	8.272 1216.9382
4.1365 558.7174	8.273 46.103552	8.273 1218.7041
4.137 565.37016	8.274 49.114335	8.274 1222.4552
4.1375 572.95572	8.275 51.089671	8.275 1226.7702
4.138 581.15493	8.276 51.982743	8.276 1230.1322
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4.1395 600.16521	8.279 49.162929	8.279 1225.468
4.14 600.84541	8.28 47.481193	8.28 1219.6794
4.1405 597.74711	8.281 46.446731	8.281 1214.0264
4.141 591.4062	8.282 46.583555	8.282 1210.1956
4.1415 582.95189	8.283 47.90615	8.283 1209.1362
4.142 573.7248	8.284 49.822873	8.284 1210.6752
4.1425 564.9276	8.285 51.425506	8.285 1213.7235
4.143 557.44468	8.286 51.972268	8.286 1217.0294
4.1435 551.8151	8.287 51.268979	8.287 1219.998
4.144 548.23186	8.288 49.660526	8.288 1223.0166
4.1445 546.53474	8.289 47.740062	8.289 1227.0811
4.145 546.24499	8.29 45.976827	8.29 1232.9575
4.1455 546.73533	8.291 44.524444	8.291 1240.4396
4.146 547.51267	8.292 43.220526	8.292 1248.186
4.1465 548.47103	8.293 41.704834	8.293 1254.2112
4.147 549.94753	8.294 39.545438	8.294 1256.7547
4.1475 552.51238	8.295 36.380563	8.295 1255.0102
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4.1485 562.28589	8.297 26.977254	8.297 1241.5627
4.149 569.00925	8.298 21.73139	8.298 1233.3736
4.1495 575.91154	8.299 17.253397	8.299 1226.6766
4.15 582.10959	8.3 14.290286	8.3 1222.5908
4.1505 587.07146	8.301 13.17604	8.301 1221.4106
4.151 590.7743	8.302 13.833712	8.302 1222.8116
4.1515 593.57058	8.303 16.00526	8.303 1226.1722
4.152 595.81538	8.304 19.448813	8.304 1230.7717
4.1525 597.50885	8.305 23.972078	8.305 1235.7973
4.153 598.16454	8.306 29.25133	8.306 1240.2834
4.1535 597.05831	8.307 34.717907	8.307 1243.2292
4.154 593.69476	8.308 39.656605	8.308 1243.9354
4.1545 588.20686	8.309 43.507708	8.309 1242.3678
4.155 581.41896	8.31 46.162016	8.31 1239.304
4.1555 574.51693	8.311 48.027914	8.311 1236.0869

4.156	568.5141	8.312	49.784027	8.312	1234.1265
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4.157	560.51668	8.314	54.514737	8.314	1237.1476
4.1575	558.13874	8.315	56.727627	8.315	1241.8894
4.158	556.62662	8.316	57.438396	8.316	1247.6102
4.1585	556.22248	8.317	55.607193	8.317	1253.0847
4.159	557.35022	8.318	50.856291	8.318	1257.2043
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4.16	564.82184	8.32	35.671283	8.32	1259.331
4.1605	570.43734	8.321	28.342797	8.321	1258.0215
4.161	576.39842	8.322	23.29211	8.322	1256.5229
4.1615	582.10122	8.323	21.383159	8.323	1255.9814
4.162	587.14977	8.324	22.601057	8.324	1257.0198
4.1625	591.24607	8.325	26.13349	8.325	1259.4178
4.163	594.04785	8.326	30.709593	8.326	1262.1799
4.1635	595.11956	8.327	35.038451	8.327	1263.9337
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4.1645	590.63466	8.329	39.795254	8.329	1260.2169
4.165	585.08373	8.33	39.978701	8.33	1254.4653
4.1655	578.06231	8.331	39.246081	8.331	1247.3103
4.166	570.60684	8.332	38.248463	8.332	1240.3501
4.1665	563.84851	8.333	37.581379	8.333	1235.2461
4.167	558.61086	8.334	37.611536	8.334	1233.255
4.1675	555.10024	8.335	38.372197	8.335	1234.807
4.168	552.91805	8.336	39.537142	8.336	1239.2845
4.1685	551.4618	8.337	40.523715	8.337	1245.1254
4.169	550.4702	8.338	40.63179	8.338	1250.3289
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4.1725	586.69222	8.345	16.289487	8.345	1246.8085
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4.175	576.05114	8.35	24.755824	8.35	1258.4459
4.1755	571.56975	8.351	28.076084	8.351	1256.3881
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4.1795	601.1966	8.359	0.4659373	8.359	1283.6936
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4.188 595.58809	8.376 13.582084	8.376 1286.3053
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4.1895 591.64323	8.379 5.3683296	8.379 1291.8502
4.19 589.04119	8.38 3.821902	8.38 1292.3847
4.1905 587.8772	8.381 3.460144	8.381 1291.6033
4.191 589.29836	8.382 4.6397652	8.382 1289.7638
4.1915 593.4135	8.383 7.5140606	8.383 1287.3482
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4.1925 604.12094	8.385 16.943289	8.385 1282.8984
4.193 606.54111	8.386 21.91241	8.386 1281.7675
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4.1945 592.81765	8.389 30.182942	8.389 1285.9006
4.195 585.33578	8.39 30.807395	8.39 1289.9179
4.1955 579.33285	8.391 30.958623	8.391 1294.7313
4.196 575.70346	8.392 30.968522	8.392 1299.3777
4.1965 574.38982	8.393 31.064934	8.393 1302.4892
4.197 574.62858	8.394 31.384317	8.394 1302.7471
4.1975 575.43232	8.395 31.943171	8.395 1299.5855
4.198 576.09831	8.396 32.640686	8.396 1293.738
4.1985 576.52706	8.397 33.329345	8.397 1287.1873
4.199 577.19409	8.398 33.883739	8.398 1282.4345
4.1995 578.80532	8.399 34.218808	8.399 1281.4304
4.2 581.83411	8.4 34.252908	8.4 1284.7804
4.2005 586.2342	8.401 33.935008	8.401 1291.617
4.201 591.46138	8.402 33.353449	8.402 1300.1209
4.2015 596.72693	8.403 32.85682	8.403 1308.2962
4.202 601.30267	8.404 32.999603	8.404 1314.5722
4.2025 604.73567	8.405 34.271547	8.405 1318.0646
4.203 606.91196	8.406 36.766627	8.406 1318.5692
4.2035 607.9937	8.407 40.048875	8.407 1316.4957
4.204 608.30242	8.408 43.332555	8.408 1312.7614
4.2045 608.19174	8.409 45.903549	8.409 1308.6025
4.205 607.99317	8.41 47.510115	8.41 1305.231
4.2055 608.02322	8.411 48.466673	8.411 1303.4294
4.206 608.59649	8.412 49.424223	8.412 1303.2796
4.2065 609.9493	8.413 50.927818	8.413 1304.2024

4.207 612.08039	8.414 53.030776	8.414 1305.2817
4.2075 614.62089	8.415 55.18841	8.415 1305.7282
4.208 616.86351	8.416 56.429058	8.416 1305.2174
4.2085 617.99485	8.417 55.796089	8.417 1304.0094
4.209 617.41357	8.418 52.812714	8.418 1302.8112
4.2095 614.96874	8.419 47.757023	8.419 1302.5061
4.21 611.02159	8.42 41.64612	8.42 1303.8304
4.2105 606.30704	8.421 35.848946	8.421 1307.0844
4.211 601.68374	8.422 31.585107	8.422 1311.9683
4.2115 597.89264	8.423 29.502238	8.423 1317.6167
4.212 595.38855	8.424 29.494811	8.424 1322.8551
4.2125 594.32983	8.425 30.802385	8.425 1326.6063
4.213 594.64311	8.426 32.310052	8.426 1328.2647
4.2135 596.13501	8.427 32.988597	8.427 1327.8249
4.214 598.57112	8.428 32.304654	8.428 1325.7345
4.2145 601.70447	8.429 30.448637	8.429 1322.5833
4.215 605.25887	8.43 28.21054	8.43 1318.8705
4.2155 608.8838	8.431 26.534479	8.431 1314.9768
4.216 612.11807	8.432 25.96752	8.432 1311.3121
4.2165 614.38318	8.433 26.389859	8.433 1308.4478
4.217 615.06654	8.434 27.191993	8.434 1307.0842
4.2175 613.68883	8.435 27.79347	8.435 1307.7917
4.218 610.14614	8.436 28.127246	8.436 1310.6797
4.2185 604.927	8.437 28.732567	8.437 1315.1822
4.219 599.17488	8.438 30.422784	8.438 1320.1439
4.2195 594.43602	8.439 33.779551	8.439 1324.2238
4.22 592.07629	8.44 38.813548	8.44 1326.4435
4.2205 592.63698	8.441 44.991148	8.441 1326.6194
4.221 595.50881	8.442 51.463634	8.442 1325.391
4.2215 599.19224	8.443 57.330992	8.443 1323.7938
4.222 602.01008	8.444 61.75153	8.444 1322.6043
4.2225 602.81538	8.445 63.960801	8.445 1321.8785
4.223 601.32116	8.446 63.401336	8.446 1320.9937
4.2235 597.95655	8.447 59.909403	8.447 1319.1504
4.224 593.55696	8.448 53.909965	8.448 1316.0406
4.2245 589.14507	8.449 46.370258	8.449 1312.2195
4.225 585.82627	8.45 38.457212	8.45 1308.9593
4.2255 584.67864	8.451 31.029134	8.451 1307.6475
4.226 586.4781	8.452 24.268645	8.452 1309.0947
4.2265 591.35857	8.453 17.652682	8.453 1313.0915
4.227 598.62155	8.454 10.337196	8.454 1318.4522
4.2275 606.87962	8.455 1.7365129	8.455 1323.4891
4.228 614.49102	8.456 -7.941038	8.456 1326.6819
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4.229 623.0715	8.458 -25.11973	8.458 1325.1833
4.2295 623.50559	8.459 -28.81232	8.459 1321.4959
4.23 622.05865	8.46 -27.39882	8.46 1317.4898
4.2305 619.50003	8.461 -21.00738	8.461 1314.491
4.231 616.3795	8.462 -11.17177	8.462 1313.4389
4.2315 612.91545	8.463 -0.301001	8.463 1314.6616
4.232 609.09607	8.464 9.266633	8.464 1317.8908

4.2325 604.86636	8.465 16.146953	8.465 1322.4492
4.233 600.30249	8.466 20.291873	8.466 1327.4837
4.2335 595.69023	8.467 22.712972	8.467 1332.1168
4.234 591.51028	8.468 24.725951	8.468 1335.5054
4.2345 588.27551	8.469 27.251689	8.469 1336.8939
4.235 586.28066	8.47 30.522989	8.47 1335.7794
4.2355 585.37876	8.471 34.263807	8.471 1332.1755
4.236 584.96651	8.472 38.072502	8.472 1326.8163
4.2365 584.25536	8.473 41.599077	8.473 1321.0811
4.237 582.74996	8.474 44.478844	8.474 1316.6138
4.2375 580.69757	8.475 46.196937	8.475 1314.7404
4.238 579.16538	8.476 46.160008	8.476 1316.0141
4.2385 579.65113	8.477 44.003006	8.477 1320.0676
4.239 583.34407	8.478 39.874941	8.478 1325.8419
4.2395 590.42728	8.479 34.40871	8.479 1331.9916
4.24 599.79521	8.48 28.399265	8.48 1337.2773
4.2405 609.35309	8.481 22.445363	8.481 1340.8181
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4.2415 619.90425	8.483 11.977159	8.483 1341.4716
4.242 617.96755	8.484 8.1740928	8.484 1339.0369
4.2425 611.05342	8.485 6.0729264	8.485 1335.5452
4.243 600.40961	8.486 6.2176631	8.486 1331.7695
4.2435 588.11825	8.487 8.8557453	8.487 1328.526
4.244 576.67232	8.488 13.869015	8.488 1326.6172
4.2445 568.40208	8.489 20.869634	8.489 1326.6845
4.245 564.88097	8.49 29.303968	8.49 1328.9823
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4.246 572.43923	8.492 47.414247	8.492 1338.1277
4.2465 580.97447	8.493 55.036455	8.493 1342.5524
4.247 590.08962	8.494 60.087001	8.494 1345.1999
4.2475 598.0082	8.495 61.436206	8.495 1345.5915
4.248 603.53884	8.496 58.345138	8.496 1344.2072
4.2485 606.18428	8.497 50.713196	8.497 1342.2285
4.249 606.10646	8.498 39.217286	8.498 1340.9187
4.2495 604.03677	8.499 25.23545	8.499 1340.9984
4.25 601.10277	8.5 10.564067	8.5 1342.3735
4.2505 598.57668	8.501 -2.997221	8.501 1344.3237
4.251 597.49501	8.502 -14.05355	8.502 1346.0358
4.2515 598.29525	8.503 -21.87097	8.503 1347.1117
4.252 600.63379	8.504 -26.43053	8.504 1347.8022
4.2525 603.5285	8.505 -28.26154	8.505 1348.8178
4.253 605.829	8.506 -28.16934	8.506 1350.875
4.2535 606.79419	8.507 -26.92899	8.507 1354.1946
4.254 606.46359	8.508 -25.07768	8.508 1358.2305
4.2545 605.61101	8.509 -22.89561	8.509 1361.7849
4.255 605.2732	8.51 -20.56006	8.51 1363.5112
4.2555 606.16172	8.511 -18.31412	8.511 1362.5743
4.256 608.2702	8.512 -16.46126	8.512 1359.1252
4.2565 610.87439	8.513 -15.16072	8.513 1354.2991
4.257 612.89204	8.514 -14.19738	8.514 1349.7146
4.2575 613.38354	8.515 -12.94824	8.515 1346.753

4.258 611.96822	8.516 -10.66463	8.516 1346.0916
4.2585 608.97319	8.517 -6.897678	8.517 1347.6641
4.259 605.25324	8.518 -1.700201	8.518 1350.9583
4.2595 601.79583	8.519 4.5183464	8.519 1355.2805
4.26 599.3468	8.52 11.368086	8.52 1359.8235
4.2605 598.24598	8.521 18.722443	8.521 1363.6625
4.261 598.53718	8.522 26.588588	8.522 1365.904
4.2615 600.17719	8.523 34.700265	8.523 1366.042
4.262 603.11064	8.524 42.246778	8.524 1364.2697
4.2625 607.1878	8.525 48.029252	8.525 1361.4882
4.263 612.02119	8.526 51.052685	8.526 1358.9392
4.2635 617.01266	8.527 51.15293	8.527 1357.6731
4.264 621.56487	8.528 49.233714	8.528 1358.186
4.2645 625.35251	8.529 46.902517	8.529 1360.3618
4.265 628.45354	8.53 45.704306	8.53 1363.6998
4.2655 631.22617	8.531 46.372528	8.531 1367.5854
4.266 634.02637	8.532 48.527109	8.532 1371.473
4.2665 636.91187	8.533 50.907065	8.533 1374.8877
4.267 639.51773	8.534 52.054914	8.534 1377.3652
4.2675 641.1857	8.535 51.005153	8.535 1378.465
4.268 641.29823	8.536 47.675943	8.536 1377.9295
4.2685 639.63743	8.537 42.822155	8.537 1375.8702
4.269 636.51606	8.538 37.633962	8.538 1372.8167
4.2695 632.58225	8.539 33.275258	8.539 1369.5551
4.27 628.45745	8.54 30.521213	8.54 1366.8764
4.2705 624.4607	8.541 29.626519	8.541 1365.3747
4.271 620.62582	8.542 30.364455	8.542 1365.389
4.2715 616.92447	8.543 32.141364	8.543 1366.9914
4.272 613.48758	8.544 34.170373	8.544 1369.9783
4.2725 610.61458	8.545 35.657417	8.545 1373.8364
4.273 608.61704	8.546 36.032977	8.546 1377.7752
4.2735 607.61674	8.547 35.181732	8.547 1380.9192
4.274 607.51391	8.548 33.512543	8.548 1382.6269
4.2745 608.18281	8.549 31.738205	8.549 1382.8024
4.275 609.70806	8.55 30.444686	8.55 1382.0094
4.2755 612.48436	8.551 29.724491	8.551 1381.3107
4.276 616.99955	8.552 29.138266	8.552 1381.8852
4.2765 623.41475	8.553 28.090065	8.553 1384.5655
4.277 631.26329	8.554 26.368305	8.554 1389.5027
4.2775 639.51544	8.555 24.485186	8.555 1396.0846
4.278 647.00174	8.556 23.612308	8.556 1403.1266
4.2785 652.92386	8.557 25.064313	8.557 1409.2439
4.279 657.09549	8.558 29.6428	8.558 1413.234
4.2795 659.79857	8.559 37.093672	8.559 1414.3431
4.28 661.41062	8.56 46.019631	8.56 1412.3611
4.2805 662.04529	8.561 54.336501	8.561 1407.6058
4.281 661.45403	8.562 60.075959	8.562 1400.8798
4.2815 659.18761	8.563 62.191909	8.563 1393.3894
4.282 654.91838	8.564 60.925405	8.564 1386.5753
4.2825 648.69548	8.565 57.547995	8.565 1381.7724
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4.2835 632.56668	8.567 50.492354	8.567 1380.3709
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4.2855 604.68409	8.571 45.421929	8.571 1384.0678
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4.2865 602.24488	8.573 43.72408	8.573 1379.4031
4.287 605.6658	8.574 43.404223	8.574 1378.9292
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4.288 619.75349	8.576 43.108428	8.576 1384.9323
4.2885 627.55851	8.577 42.378038	8.577 1389.603
4.289 633.48254	8.578 41.121741	8.578 1393.1809
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4.29 635.34681	8.58 38.370059	8.58 1392.5196
4.2905 631.69093	8.581 37.426043	8.581 1388.455
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4.2915 622.69703	8.583 35.684774	8.583 1379.528
4.292 620.82107	8.584 34.411124	8.584 1377.9068
4.2925 622.00914	8.585 33.108655	8.585 1379.4642
4.293 626.15512	8.586 32.494547	8.586 1384.0284
4.2935 632.42731	8.587 33.473601	8.587 1390.5023
4.294 639.6353	8.588 36.721447	8.588 1397.1717
4.2945 646.6219	8.589 42.308157	8.589 1402.2266
4.295 652.53441	8.59 49.566483	8.59 1404.3437
4.2955 656.86857	8.591 57.231932	8.591 1403.143
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4.299 648.46337	8.598 54.681027	8.598 1395.0075
4.2995 649.17225	8.599 50.232459	8.599 1397.4525
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4.3005 652.43551	8.601 47.339645	8.601 1396.6092
4.301 652.44125	8.602 49.170375	8.602 1393.836
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4.312 610.06247	8.624 45.956606	8.624 1392.3388
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4.321 631.9392	8.642 46.301125	8.642 1393.7955
4.3215 632.52968	8.643 44.541519	8.643 1396.9244
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4.339 655.08406	8.678 52.919701	8.678 1427.9837
4.3395 655.57335	8.679 53.609585	8.679 1424.7856
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4.3405 658.86021	8.681 49.759717	8.681 1418.5887
4.341 661.29707	8.682 46.001124	8.682 1416.4641
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4.342 665.65259	8.684 39.270003	8.684 1415.1654
4.3425 666.77773	8.685 37.570778	8.685 1415.8754
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4.3435 666.46218	8.687 37.936789	8.687 1417.8322
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4.3455 659.30945	8.691 44.36831	8.691 1412.3031
4.346 657.1449	8.692 45.395121	8.692 1410.7729
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4.3475 655.29637	8.695 49.377553	8.695 1407.6103
4.348 656.81991	8.696 50.324704	8.696 1403.9553
4.3485 658.68716	8.697 50.04729	8.697 1397.7999
4.349 659.77229	8.698 48.383341	8.698 1389.1216
4.3495 658.88321	8.699 45.894182	8.699 1378.1537
4.35 655.29267	8.7 43.54475	8.7 1365.1718
4.3505 649.20075	8.701 42.104909	8.701 1350.5122
4.351 641.81731	8.702 41.741699	8.702 1334.767
4.3515 635.01157	8.703 42.111695	8.703 1318.9379
4.352 630.65337	8.704 42.854568	8.704 1304.3319
4.3525 629.94856	8.705 44.010594	8.705 1292.166
4.353 633.02907	8.706 46.025238	8.706 1283.0794
4.3535 638.92144	8.707 49.319556	8.707 1276.8329
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4.3545 651.85727	8.709 58.965356	8.709 1268.3348
4.355 655.2176	8.71 63.684518	8.71 1263.4914
4.3555 655.05897	8.711 67.205532	8.711 1257.2545
4.356 651.49432	8.712 69.280074	8.712 1249.6421
4.3565 645.53659	8.713 70.27808	8.713 1240.9853
4.357 638.69984	8.714 70.911223	8.714 1231.4677
4.3575 632.43515	8.715 71.803252	8.715 1220.7844
4.358 627.65693	8.716 73.145492	8.716 1208.0566
4.3585 624.58753	8.717 74.595324	8.717 1192.1082
4.359 622.95988	8.718 75.434204	8.718 1171.9731
4.3595 622.43337	8.719 74.903075	8.719 1147.4208

4.36 622.93779	8.72 72.53906	8.72 1119.2418
4.3605 624.72649	8.721 68.393338	8.721 1089.1767
4.361 628.1534	8.722 63.029402	8.722 1059.4705
4.3615 633.35458	8.723 57.295536	8.723 1032.2192
4.362 640.05409	8.724 52.023988	8.724 1008.7986
4.3625 647.58494	8.725 47.802003	8.725 989.61873
4.363 655.05147	8.726 44.923705	8.726 974.30393
4.3635 661.52478	8.727 43.471196	8.727 962.16789
4.364 666.19335	8.728 43.349842	8.728 952.67582
4.3645 668.50154	8.729 44.230572	8.729 945.66659
4.365 668.2768	8.73 45.487745	8.73 941.25929
4.3655 665.81706	8.731 46.27511	8.731 939.57662
4.366 661.85781	8.732 45.830665	8.732 940.47521
4.3665 657.33233	8.733 43.88551	8.733 943.40514
4.367 653.00985	8.734 40.912526	8.734 947.42281
4.3675 649.1749	8.735 38.015813	8.735 951.3458
4.368 645.62497	8.736 36.494499	8.736 953.99521
4.3685 642.01464	8.737 37.233849	8.737 954.515
4.369 638.34252	8.738 40.251688	8.738 952.64559
4.3695 635.23219	8.739 44.601456	8.739 948.80894
4.37 633.75582	8.74 48.704482	8.74 943.87201
4.3705 634.88147	8.741 50.946422	8.741 938.63957
4.371 638.85028	8.742 50.287866	8.742 933.31367
4.3715 644.91165	8.743 46.579888	8.743 927.26546
4.372 651.57746	8.744 40.456085	8.744 919.30594
4.3725 657.27824	8.745 32.947373	8.745 908.3785
4.373 661.03748	8.746 25.058246	8.746 894.29641
4.3735 662.75331	8.747 17.553569	8.747 878.13129
4.374 662.98496	8.748 10.987566	8.748 862.00511
4.3745 662.45907	8.749 5.8161367	8.749 848.34743
4.375 661.68167	8.75 2.4553755	8.75 838.95758
4.3755 660.87314	8.751 1.200694	8.751 834.3101
4.376 660.10409	8.752 2.1001788	8.752 833.43618
4.3765 659.38773	8.753 4.9542503	8.753 834.40745
4.377 658.60839	8.754 9.4290325	8.754 835.14744
4.3775 657.43224	8.755 15.218796	8.755 834.16298
4.378 655.41969	8.756 22.091309	8.756 830.90577
4.3785 652.35366	8.757 29.801889	8.757 825.71139
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4.3795 645.12838	8.759 45.915697	8.759 813.37725
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4.3805 644.28617	8.761 58.899709	8.761 805.3013
4.381 648.51803	8.762 63.325748	8.762 804.32369
4.3815 655.6165	8.763 66.650057	8.763 805.1332
4.382 664.49819	8.764 69.42509	8.764 806.87162
4.3825 673.77249	8.765 72.18975	8.765 808.45439
4.383 682.13544	8.766 75.158183	8.766 809.01019
4.3835 688.60928	8.767 77.99096	8.767 808.24405
4.384 692.63031	8.768 79.798545	8.768 806.51471
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4.385 693.26277	8.77 76.18707	8.77 803.28261

4.3855 690.95093	8.771 70.020868	8.771 802.88419
4.386 688.12152	8.772 62.036991	8.772 803.07892
4.3865 685.66732	8.773 53.955437	8.773 802.89486
4.387 684.02405	8.774 47.395196	8.774 801.05
4.3875 682.99427	8.775 43.113458	8.775 796.46165
4.388 681.86849	8.776 40.716305	8.776 788.73701
4.3885 679.81584	8.777 39.022728	8.777 778.43462
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4.3895 671.3936	8.779 33.264474	8.779 755.91818
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4.3905 660.05108	8.781 23.455416	8.781 740.52435
4.391 655.3781	8.782 18.700141	8.782 736.77302
4.3915 652.14748	8.783 15.053366	8.783 734.82381
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4.3935 652.96645	8.787 16.361613	8.787 726.43186
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4.3965 694.80964	8.793 39.750099	8.793 710.12689
4.397 695.79365	8.794 39.615359	8.794 710.10919
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4.3985 673.75069	8.797 34.482885	8.797 706.842
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4.4 653.8778	8.8 43.492582	8.8 679.4459
4.4005 654.62057	8.801 49.545075	8.801 664.75495
4.401 658.41451	8.802 55.022051	8.802 649.56161
4.4015 663.93821	8.803 59.03047	8.803 635.55109
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4.4025 675.14803	8.805 63.676255	8.805 615.29834
4.403 678.76187	8.806 66.24481	8.806 609.53307
4.4035 679.94175	8.807 69.796388	8.807 606.2564
4.404 678.29906	8.808 73.763896	8.808 604.9939
4.4045 674.16563	8.809 76.742686	8.809 605.28662
4.405 668.7132	8.81 77.167303	8.81 606.64453
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4.406 660.66504	8.812 67.464327	8.812 610.30441
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4.407 663.40791	8.814 48.305265	8.814 612.50927
4.4075 667.69685	8.815 39.238539	8.815 612.96401
4.408 671.74921	8.816 32.955588	8.816 613.21017
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4.409 674.05197	8.818 33.304558	8.818 613.26549
4.4095 672.14206	8.819 39.643548	8.819 613.08102
4.41 669.40513	8.82 47.932148	8.82 612.94018
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4.418 651.19233	8.836 55.095503	8.836 523.08349
4.4185 655.84356	8.837 53.13277	8.837 521.1441
4.419 663.35115	8.838 51.23053	8.838 519.01291
4.4195 672.21263	8.839 49.259186	8.839 515.47283
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4.4205 687.14204	8.841 44.095096	8.841 500.9463
4.421 690.6829	8.842 41.152869	8.842 490.20551
4.4215 691.06028	8.843 38.872142	8.843 478.56153
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4.4235 678.44336	8.847 45.110974	8.847 446.80215
4.424 677.62918	8.848 47.824345	8.848 443.70808
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4.443 654.72459	8.886 342.97474
4.4435 656.72478	8.887 344.41194
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2.344 25.556322	2.344 18.653535	2.344 17.717275

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2.348 31.70358	2.348 27.269968	2.348 7.7144477
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3.808 28.376042	3.808 5.6899911	3.808 49.830172
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4.087 3.2677839	4.087 35.200153	4.087 60.758555
4.088 4.697568	4.088 32.435133	4.088 52.648306
4.089 8.5623475	4.089 28.99414	4.089 48.139393
4.09 14.428615	4.09 25.107608	4.09 47.461289
4.091 21.274358	4.091 21.479832	4.091 49.789963
4.092 27.737038	4.092 19.016815	4.092 53.705019
4.093 32.472401	4.093 18.474644	4.093 57.674275
4.094 34.50601	4.094 20.186433	4.094 60.46755
4.095 33.449467	4.095 24.029449	4.095 61.434749
4.096 29.565543	4.096 29.557719	4.096 60.596293
4.097 23.694602	4.097 36.184804	4.097 58.546224
4.098 17.07882	4.098 43.302374	4.098 56.145309
4.099 11.128187	4.099 50.26462	4.099 54.175679
4.1 7.1616338	4.1 56.331555	4.1 53.086158
4.101 6.2124631	4.101 60.667269	4.101 52.943491
4.102 8.8428711	4.102 62.533236	4.102 53.543003
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4.105 33.261932	4.105 53.653205	4.105 56.231494
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4.107 45.17426	4.107 45.670792	4.107 55.31358
4.108 43.463376	4.108 44.071794	4.108 53.99056
4.109 35.94558	4.109 44.155103	4.109 52.855978
4.11 24.017355	4.11 45.402983	4.11 52.669317
4.111 10.10144	4.111 47.208775	4.111 53.942276
4.112 -3.170781	4.112 49.052701	4.112 56.716087
4.113 -13.59606	4.113 50.555064	4.113 60.588289
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4.115 -21.08454	4.115 51.436234	4.115 69.297332
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4.117 -11.81981	4.117 47.476306	4.117 76.764902
4.118 -4.458822	4.118 42.670224	4.118 79.512942
4.119 2.1083366	4.119 35.737009	4.119 81.261154
4.12 6.5530208	4.12 27.228879	4.12 81.700591
4.121 8.574358	4.121 18.453478	4.121 80.620022
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4.127 13.676801	4.127 23.646899	4.127 54.19305
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4.137 6.6942688	4.137 58.624496	4.137 47.509475
4.138 9.6504357	4.138 55.8668	4.138 54.068618
4.139 14.103672	4.139 53.105187	4.139 61.48663
4.14 19.269213	4.14 50.480722	4.14 68.975745
4.141 24.524925	4.141 47.885796	4.141 75.663484
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4.143 34.890987	4.143 41.829634	4.143 83.814667
4.144 40.258181	4.144 38.008616	4.144 84.802836
4.145 45.437582	4.145 33.633818	4.145 84.121595
4.146 49.473597	4.146 28.941217	4.146 82.343061
4.147 51.037018	4.147 24.483205	4.147 79.965078
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4.149 42.972489	4.149 19.787152	4.149 74.262389
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4.158 -5.46925	4.158 43.133775	4.158 42.088088
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4.165 4.6875257	4.165 71.759568	4.165 48.3134
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4.174 -5.434846	4.174 52.713273	4.174 91.675454
4.175 -8.703494	4.175 50.91523	4.175 91.673072
4.176 -10.85843	4.176 46.713478	4.176 90.228055
4.177 -11.76822	4.177 40.617749	4.177 88.517301
4.178 -11.32658	4.178 33.675014	4.178 87.587016
4.179 -9.482138	4.179 26.932921	4.179 87.909952
4.18 -6.364553	4.18 21.00728	4.18 89.309794

4.181 -2.353373	4.181 15.931591	4.181 91.266761
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4.183 6.355901	4.183 7.0542983	4.183 95.312936
4.184 10.510624	4.184 3.0841545	4.184 97.238302
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4.193 51.261645	4.193 31.160921	4.193 62.336001
4.194 52.251755	4.194 33.018575	4.194 53.548892
4.195 52.067538	4.195 33.240041	4.195 46.164287
4.196 50.509747	4.196 31.926624	4.196 40.468608
4.197 47.672419	4.197 29.401073	4.197 36.673892
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4.199 40.806449	4.199 23.141484	4.199 36.363944
4.2 38.357809	4.2 20.619734	4.2 40.724514
4.201 36.864252	4.201 18.858959	4.201 48.19369
4.202 35.725526	4.202 17.737566	4.202 58.17808
4.203 34.08395	4.203 17.029502	4.203 69.657393
4.204 31.383572	4.204 16.651623	4.204 81.484337
4.205 27.745112	4.205 16.741747	4.205 92.667666
4.206 23.939141	4.206 17.558195	4.206 102.45662
4.207 20.966524	4.207 19.286363	4.207 110.2719
4.208 19.535399	4.208 21.959528	4.208 115.63155
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4.235 55.134709	4.235 51.255374	4.235 110.94522
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4.238 44.876465	4.238 62.977995	4.238 102.27383
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4.297 43.993428	4.297 51.404977	4.297 103.31968
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4.301 42.951277	4.301 57.190973	4.301 85.407455
4.302 39.350777	4.302 58.495671	4.302 80.30476
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4.304 31.122953	4.304 62.509554	4.304 73.0216
4.305 25.710549	4.305 63.544693	4.305 71.965145
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4.307 13.0833	4.307 59.981258	4.307 76.080119
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4.389 3.7664197	4.389 68.286118	4.389 133.87537
4.39 5.2027039	4.39 64.299947	4.39 131.03432
4.391 9.6928485	4.391 59.34446	4.391 128.6081
4.392 16.443327	4.392 53.416011	4.392 126.79886
4.393 23.851028	4.393 46.672607	4.393 125.48087
4.394 29.897978	4.394 39.6137	4.394 124.21134
4.395 32.717696	4.395 33.100405	4.395 122.37031
4.396 31.170791	4.396 28.159001	4.396 119.39294
4.397 25.252858	4.397 25.693303	4.397 114.95158
4.398 16.168377	4.398 26.220769	4.398 109.03686
4.399 5.9467524	4.399 29.767173	4.399 101.93742
4.4 -3.225676	4.4 35.874205	4.4 94.178525
4.401 -9.670902	4.401 43.693684	4.401 86.497001
4.402 -12.54101	4.402 52.122347	4.402 79.773638
4.403 -11.70367	4.403 59.971572	4.403 74.919072
4.404 -7.443938	4.404 66.222396	4.404 72.657873
4.405 -0.216283	4.405 70.252044	4.405 73.280725
4.406 9.3517929	4.406 71.932932	4.406 76.514365
4.407 20.340467	4.407 71.559869	4.407 81.606445
4.408 31.514595	4.408 69.612795	4.408 87.609184
4.409 41.473164	4.409 66.508245	4.409 93.729687
4.41 48.992534	4.41 62.499778	4.41 99.559765
4.411 53.341734	4.411 57.755402	4.411 105.05189
4.412 54.409322	4.412 52.576326	4.412 110.30159
4.413 52.581261	4.413 47.568058	4.413 115.25827
4.414 48.4408	4.414 43.622302	4.414 119.55456
4.415 42.554161	4.415 41.7004	4.415 122.55685
4.416 35.430278	4.416 42.479466	4.416 123.57503
4.417 27.715995	4.417 46.037619	4.417 122.12561
4.418 20.306721	4.418 51.729582	4.418 118.14335
4.419 14.274623	4.419 58.333043	4.419 112.08081
4.42 10.579	4.42 64.42069	4.42 104.83217
4.421 9.7443984	4.421 68.79021	4.421 97.518211
4.422 11.680379	4.422 70.808411	4.422 91.20052
4.423 15.684378	4.423 70.562159	4.423 86.624086
4.424 20.636979	4.424 68.736986	4.424 84.100144
4.425 25.256612	4.425 66.28792	4.425 83.526095
4.426 28.405444	4.426 64.037253	4.426 84.496435
4.427 29.325724	4.427 62.35957	4.427 86.403331
4.428 27.787164	4.428 61.140455	4.428 88.514744
4.429 24.131529	4.429 59.966268	4.429 90.120403
4.43 19.170352	4.43 58.447595	4.43 90.75249
4.431 13.974073	4.431 56.441549	4.431 90.361013
4.432 9.5669726	4.432 54.014576	4.432 89.327349
4.433 6.5964761	4.433 51.23884	4.433 88.254902
4.434 5.1621851	4.434 48.010966	4.434 87.720567
4.435 4.9077474	4.435 44.090883	4.435 88.151212

4.436	5.39604	4.436	39.372039	4.436	89.876986
4.437	6.4607313	4.437	34.127099	4.437	93.146295
4.438	8.2495739	4.438	29.034097	4.438	98.02338
4.439	10.913867	4.439	24.92982	4.439	104.21167
4.44	14.195229	4.44	22.460954	4.44	111.01548
4.441	17.330691	4.441	21.911592	4.441	117.51152
4.442	19.361715	4.442	23.258107	4.442	122.82504
4.443	19.718356	4.443	26.338738	4.443	126.30272
4.444	18.56734	4.444	30.920497	4.444	127.55932
4.445	16.717434	4.445	36.613815	4.445	126.52568
4.446	15.139663	4.446	42.736932	4.446	123.56779
4.447	14.463995	4.447	48.32562	4.447	119.53753
4.448	14.743551	4.448	52.371537	4.448	115.57674
4.449	15.59301	4.449	54.197247	4.449	112.67823
4.45	16.568889	4.45	53.763772	4.45	111.23002
4.451	17.508145	4.451	51.69534	4.451	110.88938
4.452	18.657081	4.452	49.003773	4.452	110.90392
4.453	20.533854	4.453	46.630601	4.453	110.65056
4.454	23.616494	4.454	45.066648	4.454	110.06226
4.455	28.053696	4.455	44.225442	4.455	109.66273
4.456	33.517296	4.456	43.644594	4.456	110.23882
4.457	39.242799	4.457	42.872054	4.457	112.40836
4.458	44.199922	4.458	41.814499	4.458	116.33523
4.459	47.32784	4.459	40.839407	4.459	121.65601
4.46	47.796489	4.46	40.536077	4.46	127.60244
4.461	45.285359	4.461	41.331543	4.461	133.16692
4.462	40.219522	4.462	43.236208	4.462	137.30393
4.463	33.834191	4.463	45.906713	4.463	139.11931
4.464	27.953889	4.464	48.977176	4.464	138.12537
4.465	24.48741	4.465	52.390012	4.465	134.4954
4.466	24.805899	4.466	56.446653	4.466	129.17547
4.467	29.267039	4.467	61.537555	4.467	123.72147
4.468	37.055844	4.468	67.699261	4.468	119.82129
4.469	46.409401	4.469	74.372979	4.469	118.70273
4.47	55.155836	4.47	80.502849	4.47	120.65589
4.471	61.372339	4.471	84.970534	4.471	124.91565
4.472	63.961655	4.472	87.058172	4.472	129.98318
4.473	62.928757	4.473	86.696155	4.473	134.20462
4.474	59.226771	4.474	84.375897	4.474	136.3594
4.475	54.274215	4.475	80.871883	4.475	136.00386
4.476	49.408558	4.476	76.960626	4.476	133.46499
4.477	45.532425	4.477	73.294922	4.477	129.60199
4.478	43.048161	4.478	70.38588	4.478	125.47586
4.479	42.020495	4.479	68.609106	4.479	122.02524
4.48	42.346222	4.48	68.159513	4.48	119.81637
4.481	43.835137	4.481	68.977682	4.481	118.89876
4.482	46.163217	4.482	70.714526	4.482	118.8358
4.483	48.810891	4.483	72.753945	4.483	118.9542
4.484	51.09006	4.484	74.325596	4.484	118.71862
4.485	52.357603	4.485	74.69942	4.485	117.94324
4.486	52.353874	4.486	73.419238	4.486	116.77133

4.487 51.422471	4.487 70.523962	4.487 115.43648
4.488 50.415476	4.488 66.600668	4.488 114.06067
4.489 50.265522	4.489 62.607434	4.489 112.64757
4.49 51.424863	4.49 59.509163	4.49 111.20156
4.491 53.541013	4.491 57.892596	4.491 109.8192
4.492 55.56053	4.492 57.762851	4.492 108.60825
4.493 56.233694	4.493 58.59211	4.493 107.54123
4.494 54.727887	4.494 59.537825	4.494 106.4022
4.495 51.022671	4.495 59.738349	4.495 104.96829
4.496 45.867634	4.496 58.552719	4.496 103.28881
4.497 40.370247	4.497 55.762215	4.497 101.88841
4.498 35.446397	4.498 51.65567	4.498 101.63427
4.499 31.487138	4.499 46.953318	4.499 103.34531
4.5 28.406238	4.5 42.555616	4.5 107.34731
4.501 25.969321	4.501 39.254838	4.501 113.26361
4.502 24.13478	4.502 37.54015	4.502 120.12731
4.503 23.156901	4.503 37.620978	4.503 126.715
4.504 23.390009	4.504 39.55403	4.504 131.87243
4.505 25.021035	4.505 43.293121	4.505 134.71294
4.506 27.893951	4.506 48.61115	4.506 134.72812
4.507 31.5565	4.507 54.995528	4.507 131.897
4.508 35.43481	4.508 61.658911	4.508 126.76577
4.509 38.988243	4.509 67.723143	4.509 120.41676
4.51 41.741025	4.51 72.427635	4.51 114.27063
4.511 43.266152	4.511 75.254636	4.511 109.71943
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4.515 36.592205	4.515 65.904076	4.515 116.6695
4.516 34.824495	4.516 59.964492	4.516 121.62745
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4.525 51.351416	4.525 40.080969	4.525 154.62186
4.526 55.642195	4.526 41.323433	4.526 157.86826
4.527 58.134165	4.527 43.864184	4.527 158.4027
4.528 57.687406	4.528 47.612376	4.528 155.99346
4.529 54.138022	4.529 51.929797	4.529 151.17179
4.53 48.466693	4.53 55.906481	4.53 144.97406
4.531 42.464465	4.531 58.825562	4.531 138.53496
4.532 38.002844	4.532 60.541593	4.532 132.78035
4.533 36.267556	4.533 61.567545	4.533 128.34698
4.534 37.320382	4.534 62.786181	4.534 125.67411
4.535 40.172626	4.535 64.989864	4.535 125.05379
4.536 43.293773	4.536 68.460601	4.536 126.53459
4.537 45.282109	4.537 72.792287	4.537 129.73509

4.538 45.321617	4.538 77.043574	4.538 133.79396
4.539 43.296236	4.539 80.13161	4.539 137.62343
4.54 39.660751	4.54 81.278871	4.54 140.35494
4.541 35.207613	4.541 80.292881	4.541 141.65496
4.542 30.871701	4.542 77.541561	4.542 141.66563
4.543 27.539714	4.543 73.682049	4.543 140.63256
4.544 25.881323	4.544 69.338793	4.544 138.59135
4.545 26.233795	4.545 64.942392	4.545 135.35553
4.546 28.606805	4.546 60.808127	4.546 130.82203
4.547 32.751718	4.547 57.284374	4.547 125.29173
4.548 38.18826	4.548 54.763829	4.548 119.51998
4.549 44.12691	4.549 53.465838	4.549 114.49922
4.55 49.441831	4.55 53.191484	4.55 111.15503
4.551 52.863149	4.551 53.269126	4.551 110.14543
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4.553 50.716372	4.553 51.235147	4.553 116.2921
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4.555 38.932288	4.555 44.619438	4.555 131.78016
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4.557 28.096791	4.557 36.971755	4.557 147.83529
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4.559 26.46533	4.559 32.426745	4.559 151.57541
4.56 29.223176	4.56 32.322154	4.56 147.45815
4.561 33.452755	4.561 34.209961	4.561 140.9881
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4.563 42.452588	4.563 44.625238	4.563 129.34445
4.564 45.646963	4.564 52.50211	4.564 127.13852
4.565 47.507699	4.565 61.031993	4.565 127.69238
4.566 48.139493	4.566 69.054519	4.566 130.23862
4.567 47.803478	4.567 75.428801	4.567 133.66525
4.568 46.752172	4.568 79.314009	4.568 136.91718
4.569 45.165593	4.569 80.40231	4.569 139.22283
4.57 43.18995	4.57 79.040173	4.57 140.23342
4.571 40.899333	4.571 76.156819	4.571 140.00881
4.572 38.190521	4.572 73.003129	4.572 138.87228
4.573 34.713523	4.573 70.746157	4.573 137.19511
4.574 30.037849	4.574 70.083391	4.574 135.23057
4.575 24.037739	4.575 71.048661	4.575 133.17496
4.576 17.275381	4.576 73.048715	4.576 131.3489
4.577 11.040111	4.577 75.101055	4.577 130.33069
4.578 6.933106	4.578 76.125369	4.578 130.85678
4.579 6.1944859	4.579 75.20317	4.579 133.47685
4.58 9.1610501	4.58 71.775615	4.58 138.17
4.581 15.180269	4.581 65.828015	4.581 144.16622
4.582 22.957465	4.582 57.96549	4.582 150.15229
4.583 31.099086	4.583 49.337592	4.583 154.76588
4.584 38.54325	4.584 41.368475	4.584 157.20272
4.585 44.657093	4.585 35.337004	4.585 157.56241
4.586 49.118296	4.586 32.041993	4.586 156.75799
4.587 51.728852	4.587 31.653654	4.587 155.99628
4.588 52.375829	4.588 33.765735	4.588 156.06709

4.589 51.142151	4.589 37.59737	4.589 156.91285
4.59 48.470618	4.59 42.229326	4.59 157.67995
4.591 45.193463	4.591 46.829971	4.591 157.23963
4.592 42.336738	4.592 50.813024	4.592 154.90331
4.593 40.730322	4.593 53.847725	4.593 150.8674
4.594 40.622518	4.594 55.795674	4.594 146.19325
4.595 41.554646	4.595 56.591843	4.595 142.26309
4.596 42.578431	4.596 56.206267	4.596 140.06917
4.597 42.726987	4.597 54.700136	4.597 139.70647
4.598 41.463248	4.598 52.325199	4.598 140.42525
4.599 38.898773	4.599 49.564099	4.599 141.1285
4.6 35.667319	4.6 47.049084	4.6 141.02022
4.601 32.578447	4.601 45.408756	4.601 140.03037
4.602 30.24139	4.602 45.080689	4.602 138.79102
4.603 28.839808	4.603 46.16946	4.603 138.23953
4.604 28.131505	4.604 48.397197	4.604 139.03731
4.605 27.619357	4.605 51.150387	4.605 141.12395
4.606 26.789068	4.606 53.672564	4.606 143.63536
4.607 25.341113	4.607 55.346973	4.607 145.22831
4.608 23.346348	4.608 55.95073	4.608 144.62972
4.609 21.282521	4.609 55.715085	4.609 141.10085
4.61 19.922783	4.61 55.153484	4.61 134.65359
4.611 20.082579	4.611 54.691924	4.611 125.97844
4.612 22.29706	4.612 54.374923	4.612 116.26486
4.613 26.565111	4.613 53.843259	4.613 106.95748
4.614 32.312668	4.614 52.627641	4.614 99.482954
4.615 38.601762	4.615 50.553481	4.615 94.986188
4.616 44.494746	4.616 47.991207	4.616 94.114899
4.617 49.332802	4.617 45.789489	4.617 96.917074
4.618 52.801047	4.618 44.938861	4.618 102.91991
4.619 54.797513	4.619 46.157898	4.619 111.27474
4.62 55.259575	4.62 49.660485	4.62 120.94205
4.621 54.109545	4.621 55.165778	4.621 130.87126
4.622 51.340523	4.622 62.101349	4.622 140.20082
4.623 47.179242	4.623 69.828268	4.623 148.40872
4.624 42.164459	4.624 77.749157	4.624 155.39375
4.625 37.082744	4.625 85.288252	4.625 161.32705
4.626 32.757464	4.626 91.849315	4.626 166.37804
4.627 29.789409	4.627 96.864088	4.627 170.43566
4.628 28.366389	4.628 99.940037	4.628 173.04951
4.629 28.239293	4.629 100.9594	4.629 173.66643
4.63 28.861549	4.63 100.04543	4.63 171.97379
4.631 29.613837	4.631 97.379116	4.631 168.1122
4.632 29.971382	4.632 93.104201	4.632 162.60967
4.633 29.547235	4.633 87.397092	4.633 156.14546
4.634 28.100959	4.634 80.682203	4.634 149.33106
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4.636 22.412813	4.636 67.53364	4.636 136.5072
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4.638 16.919908	4.638 59.674998	4.638 127.01545
4.639 16.116737	4.639 57.505304	4.639 124.17974

4.64 16.82631	4.64 55.287324	4.64 123.01674
4.641 18.501097	4.641 52.193649	4.641 123.92675
4.642 20.435148	4.642 48.091475	4.642 127.32272
4.643 22.241383	4.643 43.619129	4.643 133.45503
4.644 24.038179	4.644 39.815762	4.644 142.26724
4.645 26.242909	4.645 37.509873	4.645 153.31248
4.646 29.176332	4.646 36.904443	4.646 165.73912
4.647 32.785697	4.647 37.596523	4.647 178.32712
4.648 36.685892	4.648 38.973573	4.648 189.55606
4.649 40.429242	4.649 40.699869	4.649 197.76018
4.65 43.781213	4.65 42.938	4.65 201.43924
4.651 46.786014	4.651 46.162605	4.651 199.65718
4.652 49.611936	4.652 50.724142	4.652 192.42572
4.653 52.33066	4.653 56.46897	4.653 180.86158
4.654 54.785579	4.654 62.708701	4.654 166.96456
4.655 56.616519	4.655 68.53658	4.655 153.08008
4.656 57.394026	4.656 73.260397	4.656 141.21981
4.657 56.742061	4.657 76.612522	4.657 132.62089
4.658 54.405204	4.658 78.644491	4.658 127.67367
4.659 50.250041	4.659 79.431756	4.659 126.20333
4.66 44.276974	4.66 78.866265	4.66 127.81953
4.661 36.672498	4.661 76.719127	4.661 132.128
4.662 27.893377	4.662 72.929291	4.662 138.76441
4.663 18.727191	4.663 67.845755	4.663 147.27526
4.664 10.21559	4.664 62.230343	4.664 157.03503
4.665 3.4781926	4.665 57.045679	4.665 167.2404
4.666 -0.561345	4.666 53.162275	4.666 177.01483
4.667 -1.43211	4.667 51.162584	4.667 185.56982
4.668 0.7307935	4.668 51.301967	4.668 192.36118
4.669 5.2310704	4.669 53.501219	4.669 197.1278
4.67 11.029806	4.67 57.338016	4.67 199.81286
4.671 17.052561	4.671 62.063149	4.671 200.43595
4.672 22.440233	4.672 66.736346	4.672 199.03388
4.673 26.64486	4.673 70.509804	4.673 195.71899
4.674 29.410742	4.674 72.862981	4.674 190.80415
4.675 30.715775	4.675 73.698897	4.675 184.83338
4.676 30.711649	4.676 73.230985	4.676 178.48012
4.677 29.686993	4.677 71.827205	4.677 172.35848
4.678 28.005897	4.678 69.926617	4.678 166.84061
4.679 26.084474	4.679 68.044547	4.679 162.03826
4.68 24.396973	4.68 66.77664	4.68 157.90928
4.681 23.481672	4.681 66.680609	4.681 154.43136
4.682 23.84536	4.682 68.074023	4.682 151.70005
4.683 25.787962	4.683 70.822424	4.683 149.90868
4.684 29.219938	4.684 74.322532	4.684 149.17606
4.685 33.637493	4.685 77.72891	4.685 149.42067
4.686 38.270174	4.686 80.328715	4.686 150.37092
4.687 42.282803	4.687 81.89083	4.687 151.73737
4.688 44.944329	4.688 82.776991	4.688 153.42736
4.689 45.741658	4.689 83.71414	4.689 155.57946
4.69 44.450234	4.69 85.311251	4.69 158.38457

4.691 41.226949	4.691 87.613863	4.691 161.76773
4.692 36.627648	4.692 89.91793	4.692 165.18067
4.693 31.573394	4.693 91.005648	4.693 167.69193
4.694 27.200174	4.694 89.661048	4.694 168.35231
4.695 24.641044	4.695 85.245359	4.695 166.59442
4.696 24.720855	4.696 78.031832	4.696 162.36828
4.697 27.670981	4.697 69.235552	4.697 155.99491
4.698 32.964438	4.698 60.691525	4.698 147.94983
4.699 39.390075	4.699 54.332877	4.699 138.83541
4.7 45.404813	4.7 51.570714	4.7 129.61428
4.701 49.62053	4.701 52.87143	4.701 121.74432
4.702 51.189993	4.702 57.634961	4.702 116.93669
4.703 49.944133	4.703 64.507705	4.703 116.52028
4.704 46.246254	4.704 71.941541	4.704 120.77347
4.705 40.74447	4.705 78.771597	4.705 128.68656
4.706 34.215897	4.706 84.49754	4.706 138.34227
4.707 27.593416	4.707 89.211444	4.707 147.67848
4.708 22.047131	4.708 93.304036	4.708 155.19028
4.709 18.950682	4.709 97.131315	4.709 160.28325
4.71 19.556876	4.71 100.83675	4.71 163.12498
4.711 24.531118	4.711 104.29765	4.711 164.22877
4.712 33.578834	4.712 107.18061	4.712 164.06583
4.713 45.410099	4.713 109.07916	4.713 162.94803
4.714 58.085448	4.714 109.72113	4.714 161.25837
4.715 69.591134	4.715 109.17743	4.715 159.71092
4.716 78.396704	4.716 107.91476	4.716 159.33584
4.717 83.761541	4.717 106.59482	4.717 161.03818
4.718 85.648651	4.718 105.65877	4.718 165.00292
4.719 84.42077	4.719 105.00036	4.719 170.38652
4.72 80.506213	4.72 103.90671	4.72 175.56878
4.721 74.336856	4.721 101.396	4.721 178.85702
4.722 66.472462	4.722 96.683582	4.722 179.23509
4.723 57.728548	4.723 89.549864	4.723 176.74004
4.724 49.046881	4.724 80.422309	4.724 172.37863
4.725 41.169261	4.725 70.209687	4.725 167.66127
4.726 34.351341	4.726 60.039875	4.726 164.02864
4.727 28.401617	4.727 51.05637	4.727 162.3695
4.728 23.008877	4.728 44.263981	4.728 162.78207
4.729 18.144107	4.729 40.417615	4.729 164.65796
4.73 14.177532	4.73 39.870456	4.73 167.07595
4.731 11.656768	4.731 42.489866	4.731 169.31305
4.732 10.959404	4.732 47.710486	4.732 171.21462
4.733 12.081867	4.733 54.811309	4.733 173.25178
4.734 14.714363	4.734 63.219565	4.734 176.19811
4.735 18.477165	4.735 72.592747	4.735 180.66365
4.736 23.061634	4.736 82.583969	4.736 186.71476
4.737 28.201904	4.737 92.48749	4.737 193.71635
4.738 33.536726	4.738 101.14091	4.738 200.4706
4.739 38.573447	4.739 107.22319	4.739 205.51837
4.74 42.787955	4.74 109.75453	4.74 207.58359
4.741 45.787856	4.741 108.43415	4.741 205.99083

4.742 47.398904	4.742 103.61935	4.742 200.87774
4.743 47.617429	4.743 96.09511	4.743 193.09231
4.744 46.513946	4.744 86.839949	4.744 183.82992
4.745 44.165497	4.745 76.965515	4.745 174.25573
4.746 40.681802	4.746 67.667307	4.746 165.342
4.747 36.326109	4.747 60.102205	4.747 157.85432
4.748 31.627372	4.748 55.132509	4.748 152.36671
4.749 27.390114	4.749 53.12529	4.749 149.09194
4.75 24.492486	4.75 53.911563	4.75 147.70329
4.751 23.544271	4.751 56.929725	4.751 147.39485
4.752 24.538613	4.752 61.473462	4.752 147.25676
4.753 26.772743	4.753 66.893699	4.753 146.78894
4.754 29.098185	4.754 72.693113	4.754 146.18689
4.755 30.450081	4.755 78.47702	4.755 146.18707
4.756 30.373766	4.756 83.821378	4.756 147.61244
4.757 29.232434	4.757 88.146884	4.757 150.92493
4.758 27.960968	4.758 90.769361	4.758 156.03314
4.759 27.499675	4.759 91.168614	4.759 162.3893
4.76 28.227458	4.76 89.311747	4.76 169.24127
4.761 29.777222	4.761 85.809036	4.761 175.83762
4.762 31.373856	4.762 81.712243	4.762 181.547
4.763 32.481605	4.763 78.039791	4.763 185.8783
4.764 33.282475	4.764 75.347236	4.764 188.55565
4.765 34.641314	4.765 73.57762	4.765 189.65735
4.766 37.524291	4.766 72.241938	4.766 189.72243
4.767 42.285925	4.767 70.76468	4.767 189.69843
4.768 48.287183	4.768 68.785073	4.768 190.6166
4.769 54.106362	4.769 66.359408	4.769 193.13486
4.77 58.221252	4.77 63.984956	4.77 197.17843
4.771 59.690903	4.771 62.47078	4.771 201.85758
4.772 58.410467	4.772 62.645246	4.772 205.78962
4.773 54.893432	4.773 64.986058	4.773 207.63451
4.774 49.815131	4.774 69.353132	4.774 206.63792
4.775 43.742736	4.775 75.018516	4.775 202.92355
4.776 37.183614	4.776 81.002789	4.776 197.34837
4.777 30.786106	4.777 86.530134	4.777 191.0386
4.778 25.418444	4.778 91.282786	4.778 184.82996
4.779 21.97131	4.779 95.267328	4.779 178.93069
4.78 21.013793	4.78 98.443982	4.78 172.97182
4.781 22.541479	4.781 100.43374	4.781 166.35642
4.782 26.008246	4.782 100.63439	4.782 158.70682
4.783 30.594133	4.783 98.678249	4.783 150.18348
4.784 35.499618	4.784 94.910953	4.784 141.6086
4.785 40.17704	4.785 90.472566	4.785 134.33943
4.786 44.424996	4.786 86.859145	4.786 129.94573
4.787 48.367619	4.787 85.253799	4.787 129.73613
4.788 52.30423	4.788 86.075193	4.788 134.31715
4.789 56.447877	4.789 88.969183	4.789 143.3508
4.79 60.638019	4.79 93.1797	4.79 155.61749
4.791 64.247165	4.791 97.935707	4.791 169.32925
4.792 66.37599	4.792 102.56773	4.792 182.54179

4.793 66.314179	4.793 106.35896	4.793 193.56541
4.794 63.969585	4.794 108.36751	4.794 201.27397
4.795 60.000264	4.795 107.57102	4.795 205.3003
4.796 55.525628	4.796 103.32895	4.796 206.06768
4.797 51.65539	4.797 95.925679	4.797 204.57584
4.798 49.040257	4.798 86.747588	4.798 202.0109
4.799 47.74575	4.799 77.878158	4.799 199.31477
4.8 47.401523	4.8 71.255297	4.8 196.91514
4.801 47.53839	4.801 67.832944	4.801 194.74365
4.802 47.835278	4.802 67.204568	4.802 192.45578
4.803 48.184794	4.803 67.851562	4.803 189.72439
4.804 48.612144	4.804 67.826046	4.804 186.40798
4.805 49.177757	4.805 65.561462	4.805 182.55842
4.806 49.948224	4.806 60.462218	4.806 178.30482
4.807 51.052053	4.807 53.138782	4.807 173.75452
4.808 52.706505	4.808 45.238909	4.808 168.99113
4.809 55.220319	4.809 38.915969	4.809 164.16663
4.81 58.899695	4.81 36.117132	4.81 159.58158
4.811 63.892791	4.811 37.90736	4.811 155.6634
4.812 70.007801	4.812 44.144506	4.812 152.83416
4.813 76.595458	4.813 53.625485	4.813 151.38527
4.814 82.605339	4.814 64.550822	4.814 151.46252
4.815 86.90304	4.815 75.084953	4.815 153.13633
4.816 88.717006	4.816 83.721942	4.816 156.42947
4.817 87.997341	4.817 89.507259	4.817 161.17944
4.818 85.431941	4.818 92.090112	4.818 166.8231
4.819 82.110132	4.819 91.683803	4.819 172.31093
4.82 79.003424	4.82 88.891676	4.82 176.34528
4.821 76.610818	4.821 84.438023	4.821 177.87204
4.822 74.951825	4.822 78.911312	4.822 176.54167
4.823 73.892953	4.823 72.737526	4.823 172.81509
4.824 73.507219	4.824 66.350421	4.824 167.64821
4.825 74.173224	4.825 60.404332	4.825 161.98716
4.826 76.27389	4.826 55.780471	4.826 156.43858
4.827 79.738301	4.827 53.331591	4.827 151.27704
4.828 83.792402	4.828 53.532551	4.828 146.72329
4.829 87.186223	4.829 56.292631	4.829 143.1999
4.83 88.779261	4.83 61.033662	4.83 141.37159
4.831 88.115521	4.831 66.981966	4.831 141.9667
4.832 85.59062	4.832 73.458076	4.832 145.46257
4.833 82.172822	4.833 79.97592	4.833 151.85477
4.834 78.851877	4.834 86.17419	4.834 160.591
4.835 76.200412	4.835 91.687182	4.835 170.67034
4.836 74.236569	4.836 96.107873	4.836 180.83679
4.837 72.588817	4.837 99.096471	4.837 189.82057
4.838 70.827587	4.838 100.54023	4.838 196.56093
4.839 68.749637	4.839 100.6573	4.839 200.43009
4.84 66.485461	4.84 99.898971	4.84 201.34739
4.841 64.409261	4.841 98.765553	4.841 199.73267
4.842 62.912151	4.842 97.568665	4.842 196.2736
4.843 62.208231	4.843 96.34	4.843 191.62655

4.844 62.277718	4.844 94.860652	4.844 186.24037
4.845 62.937422	4.845 92.797573	4.845 180.36898
4.846 63.933327	4.846 89.899428	4.846 174.21608
4.847 64.98828	4.847 86.202018	4.847 168.04712
4.848 65.803707	4.848 82.147067	4.848 162.21629
4.849 66.061197	4.849 78.545072	4.849 157.13813
4.85 65.474734	4.85 76.329557	4.85 153.28195
4.851 63.870339	4.851 76.159972	4.851 151.14353
4.852 61.282223	4.852 78.083745	4.852 151.15231
4.853 57.967802	4.853 81.460624	4.853 153.48547
4.854 54.364289	4.854 85.214088	4.854 157.98234
4.855 51.004359	4.855 88.289008	4.855 164.15763
4.856 48.447928	4.856 90.080193	4.856 171.31172
4.857 47.274667	4.857 90.572003	4.857 178.67832
4.858 48.039945	4.858 90.207636	4.858 185.50765
4.859 51.133659	4.859 89.563303	4.859 191.14352
4.86 56.528142	4.86 89.092227	4.86 195.12969
4.861 63.541361	4.861 89.014103	4.861 197.30686
4.862 70.865614	4.862 89.231911	4.862 197.82156
4.863 76.961167	4.863 89.323201	4.863 197.03332
4.864 80.677181	4.864 88.586782	4.864 195.31346
4.865 81.739966	4.865 86.255184	4.865 192.88512
4.866 80.765532	4.866 81.866936	4.866 189.7458
4.867 78.799643	4.867 75.577325	4.867 185.75828
4.868 76.678321	4.868 68.211423	4.868 180.86576
4.869 74.646735	4.869 61.006174	4.869 175.30409
4.87 72.487652	4.87 55.18974	4.87 169.69919
4.871 69.98656	4.871 51.632303	4.871 164.90395
4.872 67.366981	4.872 50.690375	4.872 161.64314
4.873 65.376661	4.873 52.211823	4.873 160.17393
4.874 64.918246	4.874 55.63058	4.874 160.21151
4.875 66.504892	4.875 60.142814	4.875 161.18931
4.876 69.86861	4.876 64.963774	4.876 162.67873
4.877 73.976407	4.877 69.525431	4.877 164.65171
4.878 77.452007	4.878 73.534788	4.878 167.39291
4.879 79.143215	4.879 76.830306	4.879 171.10527
4.88 78.562449	4.88 79.215319	4.88 175.5553
4.881 76.013635	4.881 80.435032	4.881 179.99456
4.882 72.393541	4.882 80.359087	4.882 183.42052
4.883 68.821785	4.883 79.202258	4.883 185.01329
4.884 66.205959	4.884 77.528196	4.884 184.47755
4.885 64.931657	4.885 75.974464	4.885 182.11199
4.886 64.766575	4.886 74.884696	4.886 178.63302
4.887 65.015008	4.887 74.150895	4.887 174.89503
4.888 64.896324	4.888 73.346415	4.888 171.63808
4.889 63.972399	4.889 72.070177	4.889 169.36691
4.89 62.408657	4.89 70.236153	4.89 168.34603
4.891 60.93769	4.891 68.14123	4.891 168.67235
4.892 60.477265	4.892 66.349816	4.892 170.37186
4.893 61.651906	4.893 65.437651	4.893 173.44489
4.894 64.463701	4.894 65.724602	4.894 177.81209

4.895 68.277023	4.895 67.127476	4.895 183.15832
4.896 72.099631	4.896 69.210358	4.896 188.84578
4.897 74.969572	4.897 71.429221	4.897 193.9921
4.898 76.218996	4.898 73.427036	4.898 197.76415
4.899 75.574732	4.899 75.162559	4.899 199.75391
4.9 73.143725	4.9 76.74819	4.9 200.18701
4.901 69.428917	4.901 78.096372	4.901 199.81183
4.902 65.317027	4.902 78.690827	4.902 199.49321
4.903 61.950019	4.903 77.664959	4.903 199.7558
4.904 60.364845	4.904 74.244952	4.904 200.51475
4.905 61.029772	4.905 68.265308	4.905 201.13861
4.906 63.555337	4.906 60.408494	4.906 200.81994
4.907 66.809519	4.907 52.028222	4.907 199.02899
4.908 69.408251	4.908 44.665417	4.908 195.81751
4.909 70.332956	4.909 39.640477	4.909 191.81895
4.91 69.287757	4.91 37.875837	4.91 187.99681
4.911 66.716286	4.911 39.914024	4.911 185.32058
4.912 63.53234	4.912 45.885555	4.912 184.57003
4.913 60.761819	4.913 55.344842	4.913 186.26326
4.914 59.253876	4.914 67.133301	4.914 190.56944
4.915 59.51917	4.915 79.490412	4.915 197.1448
4.916 61.690355	4.916 90.486762	4.916 204.98735
4.917 65.61286	4.917 98.611968	4.917 212.55199
4.918 70.972219	4.918 103.22265	4.918 218.19125
4.919 77.35382	4.919 104.63404	4.919 220.75804
4.92 84.187699	4.92 103.81643	4.92 220.01107
4.921 90.66834	4.921 101.87603	4.921 216.57844
4.922 95.771995	4.922 99.545164	4.922 211.59045
4.923 98.507808	4.923 96.971655	4.923 206.25524
4.924 98.309262	4.924 93.852205	4.924 201.60111
4.925 95.360098	4.925 89.85089	4.925 198.4605
4.926 90.616105	4.926 85.051174	4.926 197.5123
4.927 85.477517	4.927 80.171345	4.927 199.24106
4.928 81.255714	4.928 76.446429	4.928 203.77911
4.929 78.768844	4.929 75.178627	4.929 210.70707
4.93 78.204242	4.93 77.180306	4.93 218.96852
4.931 79.29165	4.931 82.367354	4.931 227.00252
4.932 81.579463	4.932 89.706941	4.932 233.11013
4.933 84.650018	4.933 97.601846	4.933 235.92722
4.934 88.173135	4.934 104.48331	4.934 234.812
4.935 91.828076	4.935 109.31857	4.935 230.00672
4.936 95.177751	4.936 111.80175	4.936 222.52531
4.937 97.614848	4.937 112.18936	4.937 213.84923
4.938 98.438994	4.938 111.00476	4.938 205.54429
4.939 97.036603	4.939 108.79168	4.939 198.89368
4.94 93.139983	4.94 106.03167	4.94 194.65855
4.941 87.057577	4.941 103.15084	4.941 193.05639
4.942 79.747576	4.942 100.52132	4.942 193.87955
4.943 72.621757	4.943 98.460975	4.943 196.71616
4.944 67.10473	4.944 97.231808	4.944 201.02941
4.945 64.134508	4.945 97.038599	4.945 206.10974

4.946 63.871269	4.946 97.97528	4.946 211.03443
4.947 65.788781	4.947 99.961876	4.947 214.7777
4.948 69.042568	4.948 102.68536	4.948 216.55829
4.949 72.842856	4.949 105.67899	4.949 216.24261
4.95 76.599529	4.95 108.49133	4.95 214.52828
4.951 79.826477	4.951 110.86529	4.951 212.7376
4.952 82.001829	4.952 112.79473	4.952 212.26879
4.953 82.615103	4.953 114.42593	4.953 213.93777
4.954 81.43571	4.954 115.84418	4.954 217.56688
4.955 78.810261	4.955 116.93102	4.955 222.00827
4.956 75.706797	4.956 117.36367	4.956 225.57634
4.957 73.36747	4.957 116.75879	4.957 226.66574
4.958 72.722173	4.958 114.85289	4.958 224.30233
4.959 73.876786	4.959 111.62166	4.959 218.47831
4.96 76.019378	4.96 107.31725	4.96 210.22819
4.961 77.765341	4.961 102.41159	4.961 201.446
4.962 77.73037	4.962 97.526427	4.962 194.40786
4.963 74.9876	4.963 93.315301	4.963 191.1292
4.964 69.308953	4.964 90.38582	4.964 192.75032
4.965 61.209216	4.965 89.221997	4.965 199.18207
4.966 51.892449	4.966 90.117809	4.966 209.17181
4.967 43.034072	4.967 93.093292	4.967 220.71039
4.968 36.353565	4.968 97.780119	4.968 231.57536
4.969 33.089263	4.969 103.38937	4.969 239.8299
4.97 33.623851	4.97 108.82056	4.97 244.1802
4.971 37.454123	4.971 112.93502	4.971 244.17513
4.972 43.468185	4.972 114.85782	4.972 240.26485
4.973 50.327167	4.973 114.20638	4.973 233.66536
4.974 56.767722	4.974 111.159	4.974 225.9844
4.975 61.814613	4.975 106.40955	4.975 218.68734
4.976 64.93907	4.976 101.03724	4.976 212.5949
4.977 66.138815	4.977 96.316388	4.977 207.68618
4.978 65.840779	4.978 93.465519	4.978 203.31361
4.979 64.670976	4.979 93.396272	4.979 198.71091
4.98 63.221369	4.98 96.48053	4.98 193.48972
4.981 61.967967	4.981 102.49635	4.981 187.91442
4.982 61.280682	4.982 110.70611	4.982 182.85183
4.983 61.371661	4.983 120.04833	4.983 179.46886
4.984 62.188266	4.984 129.31665	4.984 178.83176
4.985 63.358658	4.985 137.29251	4.985 181.50227
4.986 64.345142	4.986 142.81267	4.986 187.32819
4.987 64.727933	4.987 144.85394	4.987 195.46893
4.988 64.400245	4.988 142.6809	4.988 204.65563
4.989 63.499732	4.989 136.06981	4.989 213.56724
4.99 62.207195	4.99 125.55346	4.99 221.1672
4.991 60.627821	4.991 112.5464	4.991 226.89507
4.992 58.851193	4.992 99.175504	4.992 230.67394
4.993 57.112195	4.993 87.778333	4.993 232.75156
4.994 55.82991	4.994 80.225624	4.994 233.44309
4.995 55.442873	4.995 77.357739	4.995 232.89209
4.996 56.157233	4.996 78.808413	4.996 230.98851

4.997 57.786476	4.997 83.312056	4.997 227.50306
4.998 59.828387	4.998 89.247503	4.998 222.34282
4.999 61.718485	4.999 95.148676	4.999 215.80699
5 63.069715	5 99.96617	5 208.66183
5.001 63.783707	5.001 103.09842	5.001 202.02216
5.002 63.962317	5.002 104.34564	5.002 197.05983
5.003 63.748599	5.003 103.84198	5.003 194.70767
5.004 63.190299	5.004 102.01618	5.004 195.43915
5.005 62.247583	5.005 99.462802	5.005 199.21257
5.006 60.878907	5.006 96.7454	5.006 205.51495
5.007 59.166159	5.007 94.216434	5.007 213.46591
5.008 57.381999	5.008 91.95804	5.008 221.91505
5.009 55.961554	5.009 89.924931	5.009 229.61322
5.01 55.399908	5.01 88.185754	5.01 235.51513
5.011 56.079965	5.011 87.116076	5.011 239.10937
5.012 58.069065	5.012 87.35294	5.012 240.61179
5.013 60.981677	5.013 89.494224	5.013 240.77165
5.014 64.008378	5.014 93.674305	5.014 240.4036
5.015 66.162653	5.015 99.27635	5.015 239.87378
5.016 66.681153	5.016 104.97715	5.016 238.89926
5.017 65.402841	5.017 109.17317	5.017 236.75949
5.018 62.900024	5.018 110.58888	5.018 232.78263
5.019 60.27957	5.019 108.77041	5.019 226.79343
5.02 58.740306	5.02 104.25472	5.02 219.28532
5.021 59.121026	5.021 98.33871	5.021 211.29397
5.022 61.645029	5.022 92.553088	5.022 204.1318
5.023 65.911115	5.023 88.102986	5.023 199.14829
5.024 71.09556	5.024 85.507863	5.024 197.53305
5.025 76.209763	5.025 84.581678	5.025 200.05794
5.026 80.295392	5.026 84.725039	5.026 206.77611
5.027 82.564516	5.027 85.341622	5.027 216.77077
5.028 82.498287	5.028 86.13872	5.028 228.22006
5.029 79.997974	5.029 87.164019	5.029 238.84244
5.03 75.529199	5.03 88.652999	5.03 246.56298
5.031 70.127594	5.031 90.827716	5.031 250.12704
5.032 65.162638	5.032 93.830298	5.032 249.37501
5.033 61.877812	5.033 97.784898	5.033 245.14574
5.034 60.918574	5.034 102.87464	5.034 238.87692
5.035 62.095422	5.035 109.29236	5.035 232.1355
5.036 64.514765	5.036 117.0717	5.036 226.21692
5.037 67.013549	5.037 125.87866	5.037 221.894
5.038 68.669832	5.038 134.97872	5.038 219.35459
5.039 69.135933	5.039 143.39038	5.039 218.33238
5.04 68.703031	5.04 150.14784	5.04 218.41247
5.041 68.097315	5.041 154.49706	5.041 219.33322
5.042 68.127504	5.042 155.96426	5.042 221.12323
5.043 69.316551	5.043 154.33412	5.043 223.93949
5.044 71.691674	5.044 149.69882	5.044 227.75625
5.045 74.800943	5.045 142.58054	5.045 232.10514
5.046 77.976017	5.046 134.00512	5.046 236.13889
5.047 80.673071	5.047 125.36177	5.047 238.95411

5.048 82.694152	5.048 118.01427	5.048 239.99217
5.049 84.166838	5.049 112.80927	5.049 239.24738
5.05 85.32127	5.05 109.79322	5.05 237.21283
5.051 86.22102	5.051 108.24838	5.051 234.62153
5.052 86.638285	5.052 107.03844	5.052 232.18759
5.053 86.124121	5.053 105.08645	5.053 230.40435
5.054 84.230154	5.054 101.7846	5.054 229.45534
5.055 80.750516	5.055 97.243502	5.055 229.19084
5.056 75.878562	5.056 92.29449	5.056 229.20964
5.057 70.20754	5.057 88.245335	5.057 229.0644
5.058 64.590484	5.058 86.425855	5.058 228.53825
5.059 59.964847	5.059 87.673075	5.059 227.85278
5.06 57.177903	5.06 91.991001	5.06 227.61651
5.061 56.84139	5.061 98.535	5.061 228.49176
5.062 59.185444	5.062 105.94705	5.062 230.73722
5.063 63.941567	5.063 112.84664	5.063 233.90173
5.064 70.374515	5.064 118.2319	5.064 236.90439
5.065 77.442767	5.065 121.61539	5.065 238.50386
5.066 84.067762	5.066 122.86791	5.066 237.90142
5.067 89.322889	5.067 121.95007	5.067 235.11551
5.068 92.499965	5.068 118.77195	5.068 230.94321
5.069 93.105946	5.069 113.27005	5.069 226.57666
5.07 90.954339	5.07 105.68055	5.07 223.16407
5.071 86.356609	5.071 96.767773	5.071 221.50441
5.072 80.25431	5.072 87.854478	5.072 221.97077
5.073 74.070246	5.073 80.585665	5.073 224.49481
5.074 69.237633	5.074 76.560588	5.074 228.54053
5.075 66.660695	5.075 76.941877	5.075 233.11455
5.076 66.446764	5.076 82.159334	5.076 236.93557
5.077 68.030819	5.077 91.730143	5.077 238.82465
5.078 70.593071	5.078 104.28985	5.078 238.15896
5.079 73.428707	5.079 117.84301	5.079 235.17671
5.08 76.124596	5.08 130.18755	5.08 230.90097
5.081 78.511445	5.081 139.38813	5.081 226.73138
5.082 80.521842	5.082 144.15678	5.082 223.95643
5.083 82.072263	5.083 144.08686	5.083 223.38434
5.084 82.965599	5.084 139.71976	5.084 225.23171
5.085 82.888666	5.085 132.41376	5.085 229.2246
5.086 81.567655	5.086 123.97394	5.086 234.78709
5.087 79.086073	5.087 116.10447	5.087 241.19236
5.088 76.175351	5.088 109.89586	5.088 247.66442
5.089 74.230518	5.089 105.61177	5.089 253.42742
5.09 74.923746	5.09 102.90997	5.09 257.78908
5.091 79.523094	5.091 101.33927	5.091 260.27209
5.092 88.288479	5.092 100.74192	5.092 260.73663
5.093 100.20779	5.093 101.27521	5.093 259.40965
5.094 113.2019	5.094 103.08306	5.094 256.78758
5.095 124.70621	5.095 105.93282	5.095 253.43886
5.096 132.3885	5.096 109.15585	5.096 249.84816
5.097 134.82096	5.097 111.90933	5.097 246.33699
5.098 131.85922	5.098 113.58082	5.098 243.07272

5.099 124.6079	5.099 114.02616	5.099 240.11183
5.1 114.98691	5.1 113.53721	5.1 237.37231
5.101 105.05124	5.101 112.63442	5.101 234.59006
5.102 96.357183	5.102 111.85188	5.102 231.34199
5.103 89.61666	5.103 111.58552	5.103 227.23715
5.104 84.774973	5.104 112.04577	5.104 222.23525
5.105 81.360726	5.105 113.26582	5.105 216.93083
5.106 78.899627	5.106 115.17365	5.106 212.52782
5.107 77.144451	5.107 117.67562	5.107 210.42108
5.108 76.092339	5.108 120.6799	5.108 211.58924
5.109 75.868271	5.109 124.02062	5.109 216.10171
5.11 76.601536	5.11 127.34527	5.11 223.03767
5.111 78.334639	5.111 130.11041	5.111 230.82324
5.112 80.964847	5.112 131.73772	5.112 237.78998
5.113 84.245807	5.113 131.899	5.113 242.6452
5.114 87.824952	5.114 130.73261	5.114 244.72967
5.115 91.318895	5.115 128.83162	5.115 244.00212
5.116 94.404361	5.116 126.97947	5.116 240.91001
5.117 96.798732	5.117 125.79564	5.117 236.22395
5.118 98.1869	5.118 125.428	5.118 230.88526
5.119 98.179209	5.119 125.50293	5.119 225.86769
5.12 96.410398	5.12 125.33988	5.12 221.98939
5.121 92.816344	5.121 124.36025	5.121 219.73778
5.122 87.866052	5.122 122.48005	5.122 219.17715
5.123 82.514389	5.123 120.24474	5.123 220.00633
5.124 77.798571	5.124 118.61361	5.124 221.69715
5.125 74.317803	5.125 118.50429	5.125 223.66368
5.126 71.97745	5.126 120.32998	5.126 225.33218
5.127 70.249758	5.127 123.77524	5.127 226.19575
5.128 68.743929	5.128 127.92453	5.128 225.91104
5.129 67.649333	5.129 131.62023	5.129 224.47461
5.13 67.708673	5.13 133.90334	5.13 222.34347
5.131 69.795196	5.131 134.32756	5.131 220.36233
5.132 74.40594	5.132 133.06677	5.132 219.46136
5.133 81.393925	5.133 130.79992	5.133 220.27378
5.134 89.999313	5.134 128.42352	5.134 222.91303
5.135 99.030485	5.135 126.75395	5.135 227.02359
5.136 107.10659	5.136 126.29129	5.136 232.03547
5.137 112.98658	5.137 127.131	5.137 237.39532
5.138 115.90945	5.138 129.02515	5.138 242.62429
5.139 115.89447	5.139 131.53699	5.139 247.2076
5.14 113.71134	5.14 134.18368	5.14 250.49838
5.141 110.46471	5.141 136.55111	5.141 251.80859
5.142 107.01461	5.142 138.30781	5.142 250.6947
5.143 103.57516	5.143 139.2208	5.143 247.25788
5.144 99.773006	5.144 139.12857	5.144 242.23989
5.145 95.112562	5.145 137.97164	5.145 236.8639
5.146 89.493288	5.146 135.83576	5.146 232.46152
5.147 83.437471	5.147 132.97163	5.147 230.11089
5.148 77.91118	5.148 129.78238	5.148 230.40135
5.149 73.889516	5.149 126.72139	5.149 233.40162

5.15 71.954427	5.15 124.12919	5.15 238.76673
5.151 72.134169	5.151 122.11698	5.151 245.91855
5.152 73.957829	5.152 120.55828	5.152 254.1857
5.153 76.630204	5.153 119.26948	5.153 262.85555
5.154 79.21359	5.154 118.2873	5.154 271.12116
5.155 80.832552	5.155 118.04158	5.155 278.01299
5.156 80.910484	5.156 119.24922	5.156 282.46808
5.157 79.444573	5.157 122.51521	5.157 283.59146
5.158 77.138886	5.158 127.87711	5.158 281.0349
5.159 75.232409	5.159 134.5707	5.159 275.28521
5.16 75.006853	5.16 141.17502	5.16 267.66148
5.161 77.161701	5.161 146.1054	5.161 259.94696
5.162 81.400937	5.162 148.21608	5.162 253.82027
5.163 86.553807	5.163 147.23963	5.163 250.33436
5.164 91.186996	5.164 143.90621	5.164 249.69648
5.165 94.407849	5.165 139.6372	5.165 251.40643
5.166 96.317817	5.166 135.90234	5.166 254.57575
5.167 97.837114	5.167 133.52202	5.167 258.24577
5.168 100.00253	5.168 132.31684	5.168 261.56723
5.169 103.26749	5.169 131.30873	5.169 263.87895
5.17 107.21574	5.17 129.37559	5.17 264.73376
5.171 110.82779	5.171 125.93079	5.171 263.89381
5.172 113.04079	5.172 121.21731	5.172 261.32731
5.173 113.22453	5.173 116.08043	5.173 257.20428
5.174 111.3708	5.174 111.49546	5.174 251.90478
5.175 107.95818	5.175 108.15492	5.175 246.07554
5.176 103.70497	5.176 106.30617	5.176 240.61305
5.177 99.318755	5.177 105.83936	5.177 236.53888
5.178 95.341531	5.178 106.48038	5.178 234.7413
5.179 92.06731	5.179 107.98413	5.179 235.65982
5.18 89.523306	5.18 110.21524	5.18 239.09621
5.181 87.571345	5.181 113.11956	5.181 244.22723
5.182 86.067326	5.182 116.58004	5.182 249.84016
5.183 85.001601	5.183 120.29024	5.183 254.68256
5.184 84.549565	5.184 123.74491	5.184 257.77301
5.185 84.971649	5.185 126.37896	5.185 258.55956
5.186 86.468529	5.186 127.77825	5.186 256.93385
5.187 89.04353	5.187 127.81921	5.187 253.1687
5.188 92.431907	5.188 126.70376	5.188 247.87933
5.189 96.092038	5.189 124.89677	5.189 241.99657
5.19 99.307503	5.19 123.07281	5.19 236.69436
5.191 101.41118	5.191 122.00215	5.191 233.20884
5.192 102.03951	5.192 122.35213	5.192 232.55339
5.193 101.27833	5.193 124.38206	5.193 235.22574
5.194 99.538005	5.194 127.75552	5.194 241.01001
5.195 97.278598	5.195 131.59415	5.195 248.9631
5.196 94.770091	5.196 134.80762	5.196 257.6076
5.197 92.110409	5.197 136.49304	5.197 265.26647
5.198 89.478608	5.198 136.21111	5.198 270.46191
5.199 87.371704	5.199 134.01913	5.199 272.30139
5.2 86.600081	5.2 130.33631	5.2 270.70922

5.201 87.960232	5.201 125.7504	5.201 266.45718
5.202 91.815462	5.202 120.86242	5.202 260.89581
5.203 97.79346	5.203 116.16911	5.203 255.5005
5.204 104.76987	5.204 112.03632	5.204 251.4023
5.205 111.14698	5.205 108.70695	5.205 249.12534
5.206 115.31811	5.206 106.33638	5.206 248.6238
5.207 116.2203	5.207 105.00114	5.207 249.54525
5.208 113.79469	5.208 104.69582	5.208 251.43892
5.209 109.11479	5.209 105.33722	5.209 253.82325
5.21 104.07355	5.21 106.81184	5.21 256.15955
5.211 100.65926	5.211 109.04203	5.211 257.88202
5.212 100.13492	5.212 112.03417	5.212 258.57451
5.213 102.50285	5.213 115.87753	5.213 258.16037
5.214 106.54364	5.214 120.66973	5.214 256.93319
5.215 110.38729	5.215 126.41049	5.215 255.40099
5.216 112.29047	5.216 132.90184	5.216 254.04149
5.217 111.29273	5.217 139.7153	5.217 253.17382
5.218 107.43757	5.218 146.24551	5.218 252.97031
5.219 101.63258	5.219 151.81567	5.219 253.60337
5.22 95.26019	5.22 155.78311	5.22 255.32633
5.221 89.786023	5.221 157.64975	5.221 258.41812
5.222 86.40781	5.222 157.2049	5.222 262.97128
5.223 85.787165	5.223 154.66515	5.223 268.6588
5.224 87.872647	5.224 150.71255	5.224 274.62471
5.225 91.870596	5.225 146.33189	5.225 279.63362
5.226 96.440812	5.226 142.43892	5.226 282.44278
5.227 100.12527	5.227 139.51653	5.227 282.25454
5.228 101.8739	5.228 137.48246	5.228 278.99956
5.229 101.43422	5.229 135.83776	5.229 273.3252
5.23 99.371619	5.23 134.06659	5.23 266.32622
5.231 96.714964	5.231 131.95992	5.231 259.21574
5.232 94.466348	5.232 129.73879	5.232 253.09152
5.233 93.2129	5.233 127.86047	5.233 248.84484
5.234 93.093109	5.234 126.6849	5.234 247.10402
5.235 94.005206	5.235 126.21509	5.235 248.09028
5.236 95.837986	5.236 126.13279	5.236 251.4487
5.237 98.546814	5.237 126.11222	5.237 256.16895
5.238 102.02989	5.238 126.19497	5.238 260.80441
5.239 105.98238	5.239 126.86766	5.239 263.95904
5.24 109.88398	5.24 128.67423	5.24 264.81986
5.241 113.13715	5.241 131.66726	5.241 263.47398
5.242 115.23231	5.242 135.09041	5.242 260.79939
5.243 115.84739	5.243 137.57891	5.243 257.97344
5.244 114.86887	5.244 137.73798	5.244 255.83819
5.245 112.42627	5.245 134.7377	5.245 254.47767
5.246 108.92637	5.246 128.60792	5.246 253.2467
5.247 105.07918	5.247 120.13424	5.247 251.2545
5.248 101.79537	5.248 110.51495	5.248 248.08667
5.249 99.980246	5.249 100.97744	5.249 244.32339
5.25 100.30603	5.25 92.517059	5.25 241.5456
5.251 103.03218	5.251 85.814362	5.251 241.74802

5.252 107.92087	5.252 81.253617	5.252 246.47245
5.253 114.23864	5.253 78.979859	5.253 256.09258
5.254 120.88052	5.254 78.960799	5.254 269.59569
5.255 126.64741	5.255 81.042565	5.255 284.8773
5.256 130.61395	5.256 85.029361	5.256 299.33791
5.257 132.44499	5.257 90.733478	5.257 310.48212
5.258 132.49828	5.258 97.939856	5.258 316.41627
5.259 131.60311	5.259 106.28999	5.259 316.18629
5.26 130.63576	5.26 115.15499	5.26 310.01132
5.261 130.12961	5.261 123.68407	5.261 299.29297
5.262 130.12492	5.262 131.03855	5.262 286.37732
5.263 130.34188	5.263 136.67989	5.263 274.01548
5.264 130.47996	5.264 140.54107	5.264 264.68729
5.265 130.46242	5.265 142.97879	5.265 260.03061
5.266 130.49165	5.266 144.49961	5.266 260.52223
5.267 130.91856	5.267 145.49357	5.267 265.49108
5.268 132.08114	5.268 146.10665	5.268 273.39003
5.269 134.15513	5.269 146.31962	5.269 282.24639
5.27 137.07294	5.27 146.15407	5.27 290.23938
5.271 140.53302	5.271 145.79762	5.271 296.248
5.272 144.07793	5.272 145.58693	5.272 300.2173
5.273 147.26269	5.273 145.83424	5.273 303.0608
5.274 149.80367	5.274 146.65321	5.274 306.13756
5.275 151.60973	5.275 147.89982	5.275 310.49709
5.276 152.65646	5.276 149.27718	5.276 316.30729
5.277 152.78119	5.277 150.50924	5.277 322.75015
5.278 151.59949	5.278 151.47459	5.278 328.40827
5.279 148.61925	5.279 152.20932	5.279 331.83181
5.28 143.53335	5.28 152.80486	5.28 332.00374
5.281 136.47575	5.281 153.31356	5.281 328.58304
5.282 128.10809	5.282 153.71127	5.282 321.96783
5.283 119.51441	5.283 153.93136	5.283 313.23229
5.284 111.93417	5.284 153.9039	5.284 303.93531
5.285 106.42636	5.285 153.55306	5.285 295.7282
5.286 103.5131	5.286 152.75782	5.286 289.84129
5.287 102.957	5.287 151.34288	5.287 286.62993
5.288 103.81379	5.288 149.18601	5.288 285.48129
5.289 104.84359	5.289 146.4028	5.289 285.15957
5.29 105.08625	5.29 143.48168	5.29 284.4406
5.291 104.27902	5.291 141.2323	5.291 282.7161
5.292 102.84138	5.292 140.48424	5.292 280.22671
5.293 101.40812	5.293 141.67161	5.293 277.89634
5.294 100.26435	5.294 144.53744	5.294 276.87719
5.295 99.079401	5.295 148.15322	5.295 278.08516
5.296 97.117454	5.296 151.29731	5.296 281.90696
5.297 93.854704	5.297 152.9267	5.297 288.08768
5.298 89.538343	5.298 152.53073	5.298 295.80834
5.299 85.371889	5.299 150.16992	5.299 303.87157
5.3 83.11024	5.3 146.25981	5.3 311.00981
5.301 84.293902	5.301 141.3002	5.301 316.24941
5.302 89.518475	5.302 135.68714	5.302 319.21833

5.303 98.109584	5.303 129.65595	5.303 320.23153
5.304 108.37079	5.304 123.35752	5.304 320.09972
5.305 118.19462	5.305 117.01235	5.305 319.70877
5.306 125.78285	5.306 111.11938	5.306 319.59973
5.307 130.15288	5.307 106.56903	5.307 319.78391
5.308 131.30761	5.308 104.53047	5.308 319.84457
5.309 130.0882	5.309 106.06482	5.309 319.22968
5.31 127.80245	5.31 111.65855	5.31 317.53659
5.311 125.80693	5.311 120.91325	5.311 314.65287
5.312 125.14599	5.312 132.59408	5.312 310.7727
5.313 126.37688	5.313 144.91637	5.313 306.33377
5.314 129.51718	5.314 155.95381	5.314 301.91202
5.315 134.06064	5.315 164.05152	5.315 298.09298
5.316 139.05239	5.316 168.20799	5.316 295.34257
5.317 143.26003	5.317 168.34187	5.317 293.93823
5.318 145.49533	5.318 165.32662	5.318 293.9665
5.319 145.00847	5.319 160.68187	5.319 295.39567
5.32 141.82146	5.32 155.98427	5.32 298.14823
5.321 136.81613	5.321 152.28702	5.321 302.11835
5.322 131.48275	5.322 149.88606	5.322 307.13724
5.323 127.40293	5.323 148.50742	5.323 312.87897
5.324 125.63587	5.324 147.75778	5.324 318.78378
5.325 126.31059	5.325 147.43112	5.325 324.03077
5.326 128.58472	5.326 147.47435	5.326 327.64646
5.327 131.03152	5.327 147.73416	5.327 328.79374
5.328 132.27186	5.328 147.78148	5.328 327.20603
5.329 131.5304	5.329 147.03687	5.329 323.54128
5.33 128.91341	5.33 145.10232	5.33 319.35027
5.331 125.22861	5.331 142.04183	5.331 316.54888
5.332 121.55562	5.332 138.39677	5.332 316.58463
5.333 118.77093	5.333 134.94836	5.333 319.77293
5.334 117.27916	5.334 132.42745	5.334 325.15844
5.335 117.03028	5.335 131.29155	5.335 330.99263
5.336 117.71936	5.336 131.60211	5.336 335.5092
5.337 119.02298	5.337 132.96359	5.337 337.59306
5.338 120.75881	5.338 134.57427	5.338 337.03922
5.339 122.94897	5.339 135.50328	5.339 334.40261
5.34 125.79715	5.34 135.13178	5.34 330.60863
5.341 129.56665	5.341 133.56407	5.341 326.56801
5.342 134.42032	5.342 131.68167	5.342 322.92842
5.343 140.25876	5.343 130.75397	5.343 320.00901
5.344 146.61878	5.344 131.7195	5.344 317.84268
5.345 152.63162	5.345 134.60001	5.345 316.26749
5.346 157.09705	5.346 138.35748	5.346 314.97516
5.347 158.73168	5.347 141.29568	5.347 313.51849
5.348 156.5965	5.348 141.75931	5.348 311.31685
5.349 150.54187	5.349 138.7939	5.349 307.7403
5.35 141.44377	5.35 132.48066	5.35 302.32366
5.351 131.01528	5.351 123.91083	5.351 295.07034
5.352 121.21835	5.352 114.8658	5.352 286.70567
5.353 113.57066	5.353 107.34702	5.353 278.7242

5.354 108.74025	5.354 103.06686	5.354 273.09659
5.355 106.5931	5.355 103.06671	5.355 271.70581
5.356 106.61968	5.356 107.51021	5.356 275.6644
5.357 108.35266	5.357 115.72776	5.357 284.83162
5.358 111.59411	5.358 126.41283	5.358 297.71863
5.359 116.28836	5.359 137.8825	5.359 311.85712
5.36 122.22379	5.36 148.37039	5.36 324.45303
5.361 128.81785	5.361 156.3897	5.361 333.10767
5.362 135.1217	5.362 161.13273	5.362 336.38529
5.363 140.06735	5.363 162.7929	5.363 334.13959
5.364 142.8286	5.364 162.52375	5.364 327.53266
5.365 143.15193	5.365 162.00472	5.365 318.69822
5.366 141.49261	5.366 162.7229	5.366 310.1017
5.367 138.84833	5.367 165.33043	5.367 303.77381
5.368 136.32743	5.368 169.38991	5.368 300.72548
5.369 134.63626	5.369 173.65635	5.369 300.77949
5.37 133.80133	5.37 176.67959	5.37 302.87466
5.371 133.24959	5.371 177.47231	5.371 305.66951
5.372 132.17422	5.372 175.9029	5.372 308.12604
5.373 129.95668	5.373 172.71829	5.373 309.84735
5.374 126.43385	5.374 169.19031	5.374 311.05793
5.375 121.92997	5.375 166.58833	5.375 312.33075
5.376 117.09714	5.376 165.65574	5.376 314.26358
5.377 112.66132	5.377 166.35373	5.377 317.26872
5.378 109.19923	5.378 167.95757	5.378 321.50795
5.379 106.99778	5.379 169.46106	5.379 326.87949
5.38 106.06134	5.38 170.06301	5.38 332.95176
5.381 106.19806	5.381 169.47417	5.381 338.87098
5.382 107.11496	5.382 167.88954	5.382 343.38516
5.383 108.50128	5.383 165.70218	5.383 345.14199
5.384 110.15176	5.384 163.18545	5.384 343.20493
5.385 112.11826	5.385 160.36528	5.385 337.51693
5.386 114.77688	5.386 157.11588	5.386 329.08592
5.387 118.70081	5.387 153.40149	5.387 319.74437
5.388 124.34008	5.388 149.46723	5.388 311.63057
5.389 131.67145	5.389 145.87578	5.389 306.56134
5.39 140.04507	5.39 143.33655	5.39 305.49553
5.391 148.32964	5.391 142.44148	5.391 308.24404
5.392 155.25654	5.392 143.39488	5.392 313.54812
5.393 159.78575	5.393 145.86166	5.393 319.51094
5.394 161.36219	5.394 149.0288	5.394 324.22231
5.395 159.97371	5.395 151.88503	5.395 326.29471
5.396 156.07976	5.396 153.61408	5.396 325.10704
5.397 150.46047	5.397 153.91053	5.397 320.78489
5.398 144.05795	5.398 153.02884	5.398 314.06151
5.399 137.83987	5.399 151.59317	5.399 306.12996
5.4 132.65991	5.4 150.28838	5.4 298.49894
5.401 129.11393	5.401 149.59915	5.401 292.77128
5.402 127.42741	5.402 149.65782	5.402 290.31367
5.403 127.41459	5.403 150.21629	5.403 291.88083
5.404 128.54662	5.404 150.73265	5.404 297.32986

5.405 130.08899	5.405 150.59738	5.405 305.52873
5.406 131.31103	5.406 149.47031	5.406 314.57395
5.407 131.6988	5.407 147.55765	5.407 322.32939
5.408 131.13073	5.408 145.61789	5.408 327.14744
5.409 129.9031	5.409 144.58675	5.409 328.46422
5.41 128.51304	5.41 145.00757	5.41 326.93586
5.411 127.29388	5.411 146.63928	5.411 323.97031
5.412 126.12342	5.412 148.52081	5.412 320.93748
5.413 124.45682	5.413 149.47094	5.413 318.5455
5.414 121.74182	5.414 148.7018	5.414 316.80519
5.415 117.93917	5.415 146.16998	5.415 315.51153
5.416 113.78069	5.416 142.49537	5.416 314.80769
5.417 110.57342	5.417 138.63554	5.417 315.36423
5.418 109.63895	5.418 135.51494	5.418 318.01381
5.419 111.73989	5.419 133.81585	5.419 323.11726
5.42 116.81263	5.42 133.88108	5.42 330.10786
5.421 124.05599	5.421 135.65291	5.421 337.51771
5.422 132.24267	5.422 138.63166	5.422 343.45683
5.423 140.05766	5.423 141.9196	5.423 346.27936
5.424 146.33455	5.424 144.41057	5.424 345.13597
5.425 150.24994	5.425 145.14908	5.425 340.18658
5.426 151.48409	5.426 143.70784	5.426 332.45091
5.427 150.30765	5.427 140.39776	5.427 323.40181
5.428 147.47602	5.428 136.19607	5.428 314.51851
5.429 143.92712	5.429 132.39327	5.429 307.00678
5.43 140.45045	5.43 130.11735	5.43 301.73158
5.431 137.5474	5.431 129.95032	5.431 299.27392
5.432 135.56314	5.432 131.81807	5.432 299.95091
5.433 134.8769	5.433 135.14836	5.433 303.69215
5.434 135.96034	5.434 139.17525	5.434 309.87314
5.435 139.15224	5.435 143.22013	5.435 317.27451
5.436 144.37563	5.436 146.85038	5.436 324.33214
5.437 151.00463	5.437 149.92922	5.437 329.65234
5.438 157.9864	5.438 152.5622	5.438 332.53761
5.439 164.14332	5.439 154.94758	5.439 333.21576
5.44 168.46938	5.44 157.17417	5.44 332.64645
5.441 170.33432	5.441 159.05211	5.441 331.95997
5.442 169.55472	5.442 160.12774	5.442 331.84388
5.443 166.39318	5.443 159.95582	5.443 332.19247
5.444 161.47828	5.444 158.44009	5.444 332.18393
5.445 155.65154	5.445 156.03427	5.445 330.74372
5.446 149.76458	5.446 153.60108	5.446 327.13783
5.447 144.45893	5.447 152.00817	5.447 321.37745
5.448 140.06206	5.448 151.70854	5.448 314.26778
5.449 136.6641	5.449 152.58506	5.449 307.10916
5.45 134.31434	5.45 154.09473	5.45 301.27535
5.451 133.22691	5.451 155.60843	5.451 297.88964
5.452 133.79032	5.452 156.75132	5.452 297.68188
5.453 136.34837	5.453 157.57018	5.453 300.92609
5.454 140.85973	5.454 158.50563	5.454 307.36601
5.455 146.65704	5.455 160.17135	5.455 316.14702

5.456 152.48184	5.456 163.05259	5.456 325.87545
5.457 156.81116	5.457 167.26024	5.457 334.9125
5.458 158.34143	5.458 172.4402	5.458 341.83324
5.459 156.43551	5.459 177.84762	5.459 345.79256
5.46 151.35992	5.46 182.52863	5.46 346.6372
5.461 144.21392	5.461 185.531	5.461 344.75385
5.462 136.63951	5.462 186.11854	5.462 340.83411
5.463 130.36983	5.463 183.96581	5.463 335.71405
5.464 126.75336	5.464 179.24392	5.464 330.32785
5.465 126.36142	5.465 172.57904	5.465 325.66301
5.466 128.83263	5.466 164.90552	5.466 322.65273
5.467 133.03395	5.467 157.28376	5.467 322.01819
5.468 137.4822	5.468 150.76111	5.468 324.14407
5.469 140.8936	5.469 146.24526	5.469 329.06555
5.47 142.61762	5.47 144.31356	5.47 336.50665
5.471 142.83036	5.471 144.9664	5.471 345.89338
5.472 142.38032	5.472 147.46121	5.472 356.34453
5.473 142.3419	5.473 150.42032	5.473 366.7082
5.474 143.45513	5.474 152.25124	5.474 375.74371
5.475 145.72495	5.475 151.78715	5.475 382.40238
5.476 148.41853	5.476 148.79962	5.476 386.03743
5.477 150.49383	5.477 144.12834	5.477 386.4246
5.478 151.18308	5.478 139.33512	5.478 383.62933
5.479 150.33294	5.479 136.07668	5.479 377.86682
5.48 148.28449	5.48 135.50316	5.48 369.54402
5.481 145.46264	5.481 137.92031	5.481 359.40787
5.482 142.04556	5.482 142.78605	5.482 348.63577
5.483 138.00592	5.483 148.95825	5.483 338.70611
5.484 133.46735	5.484 155.09266	5.484 331.02516
5.485 129.05665	5.485 160.08342	5.485 326.46565
5.486 125.90205	5.486 163.45235	5.486 325.05188
5.487 125.24994	5.487 165.46074	5.487 325.9751
5.488 127.9316	5.488 166.88055	5.488 327.96643
5.489 133.9739	5.489 168.48158	5.489 329.83682
5.49 142.56402	5.49 170.51607	5.49 330.93942
5.491 152.31258	5.491 172.52468	5.491 331.30478
5.492 161.64078	5.492 173.61094	5.492 331.45473
5.493 169.11043	5.493 172.98578	5.493 332.05408
5.494 173.61437	5.494 170.48207	5.494 333.60828
5.495 174.48703	5.495 166.72749	5.495 336.33862
5.496 171.60508	5.496 162.89144	5.496 340.20941
5.497 165.50505	5.497 160.16564	5.497 344.98833
5.498 157.42884	5.498 159.26244	5.498 350.28932
5.499 149.12962	5.499 160.17074	5.499 355.57064
5.5 142.41164	5.5 162.24311	5.5 360.13021
5.501 138.57278	5.501 164.53011	5.501 363.18769
5.502 138.0488	5.502 166.14242	5.502 364.04864
5.503 140.43349	5.503 166.52566	5.503 362.33131
5.504 144.78805	5.504 165.55525	5.504 358.20185
5.505 150.03721	5.505 163.50165	5.505 352.45778
5.506 155.21983	5.506 160.87298	5.506 346.42865

5.507 159.57296	5.507 158.22259	5.507 341.65132
5.508 162.51895	5.508 156.001	5.508 339.40715
5.509 163.67371	5.509 154.49459	5.509 340.32802
5.51 162.90154	5.51 153.87932	5.51 344.21197
5.511 160.3966	5.511 154.31534	5.511 350.14126
5.512 156.67139	5.512 155.99346	5.512 356.81548
5.513 152.43843	5.513 159.03813	5.513 362.96076
5.514 148.4071	5.514 163.36489	5.514 367.68011
5.515 145.11532	5.515 168.53542	5.515 370.63509
5.516 142.89836	5.516 173.78825	5.516 372.0169
5.517 141.9945	5.517 178.19582	5.517 372.31787
5.518 142.65	5.518 180.96107	5.518 372.00941
5.519 145.07688	5.519 181.64291	5.519 371.28789
5.52 149.26995	5.52 180.23691	5.52 370.04891
5.521 154.82473	5.521 177.07821	5.521 368.07006
5.522 160.93696	5.522 172.65957	5.522 365.2929
5.523 166.60455	5.523 167.48295	5.523 361.99345
5.524 170.95326	5.524 162.0208	5.524 358.74948
5.525 173.48188	5.525 156.74271	5.525 356.28339
5.526 174.10256	5.526 152.15248	5.526 355.25356
5.527 173.01008	5.527 148.78965	5.527 356.05848
5.528 170.49266	5.528 147.16626	5.528 358.67358
5.529 166.87421	5.529 147.65497	5.529 362.55645
5.53 162.58645	5.53 150.35896	5.53 366.73891
5.531 158.30412	5.531 155.0442	5.531 370.13623
5.532 154.91865	5.532 161.14566	5.532 371.95168
5.533 153.24866	5.533 167.87459	5.533 371.93684
5.534 153.60468	5.534 174.37958	5.534 370.33566
5.535 155.47599	5.535 179.89487	5.535 367.62878
5.536 157.61332	5.536 183.83851	5.536 364.3191
5.537 158.49223	5.537 185.85773	5.537 360.91428
5.538 156.93107	5.538 185.84202	5.538 358.00296
5.539 152.56847	5.539 183.89433	5.539 356.17899
5.54 146.01059	5.54 180.32867	5.54 355.74064
5.541 138.66007	5.541 175.63836	5.541 356.41074
5.542 132.36334	5.542 170.47852	5.542 357.35735
5.543 128.95936	5.543 165.59949	5.543 357.64587
5.544 129.81221	5.544 161.76221	5.544 356.8348
5.545 135.41231	5.545 159.59717	5.545 355.33841
5.546 145.13166	5.546 159.46759	5.546 354.29316
5.547 157.26731	5.547 161.37947	5.547 354.95659
5.548 169.41995	5.548 165.00429	5.548 358.01204
5.549 179.12344	5.549 169.78468	5.549 363.14564
5.55 184.50633	5.55 175.07305	5.55 369.13132
5.551 184.77156	5.551 180.25183	5.551 374.3671
5.552 180.32467	5.552 184.77602	5.552 377.57911
5.553 172.55806	5.553 188.17949	5.553 378.30841
5.554 163.35545	5.554 190.10296	5.554 376.96097
5.555 154.53487	5.555 190.35779	5.555 374.46903
5.556 147.38024	5.556 188.98956	5.556 371.79806
5.557 142.43551	5.557 186.29231	5.557 369.647

5.558 139.61287	5.558 182.71885	5.558 368.41413
5.559 138.5228	5.559 178.7615	5.559 368.33907
5.56 138.85692	5.56 174.90711	5.56 369.57308
5.561 140.60037	5.561 171.68677	5.561 372.06705
5.562 144.01458	5.562 169.70536	5.562 375.42621
5.563 149.37384	5.563 169.51507	5.563 378.89727
5.564 156.62704	5.564 171.33215	5.564 381.63079
5.565 165.1748	5.565 174.76715	5.565 383.08513
5.566 173.88011	5.566 178.8646	5.566 383.27737
5.567 181.34127	5.567 182.46305	5.567 382.71434
5.568 186.3307	5.568 184.70959	5.568 382.08029
5.569 188.22484	5.569 185.38855	5.569 381.92081
5.57 187.20445	5.57 184.90988	5.57 382.50797
5.571 184.16279	5.571 183.97039	5.571 383.88417
5.572 180.36137	5.572 183.14573	5.572 385.94896
5.573 176.96229	5.573 182.65954	5.573 388.5023
5.574 174.63736	5.574 182.45509	5.574 391.26681
5.575 173.42552	5.575 182.47493	5.575 393.91292
5.576 172.88449	5.576 182.91969	5.576 396.11644
5.577 172.4216	5.577 184.26721	5.577 397.61431
5.578 171.60482	5.578 187.0119	5.578 398.26736
5.579 170.27486	5.579 191.2679	5.579 398.14314
5.58 168.43344	5.58 196.53283	5.58 397.57369
5.581 166.11311	5.581 201.77022	5.581 397.09018
5.582 163.37711	5.582 205.75712	5.582 397.1649
5.583 160.49696	5.583 207.50532	5.583 397.92281
5.584 158.1143	5.584 206.54864	5.584 399.01627
5.585 157.17159	5.585 203.01512	5.585 399.80762
5.586 158.54677	5.586 197.52779	5.586 399.7655
5.587 162.56968	5.587 191.03468	5.587 398.75679
5.588 168.75809	5.588 184.61873	5.588 397.11517
5.589 175.93571	5.589 179.28869	5.589 395.4118
5.59 182.68051	5.59 175.77101	5.59 394.13043
5.591 187.83052	5.591 174.27945	5.591 393.44193
5.592 190.76102	5.592 174.46761	5.592 393.21195
5.593 191.37625	5.593 175.57421	5.593 393.16413
5.594 189.92382	5.594 176.7731	5.594 393.06293
5.595 186.84871	5.595 177.51455	5.595 392.72687
5.596 182.74605	5.596 177.66009	5.596 391.90893
5.597 178.34537	5.597 177.43397	5.597 390.24664
5.598 174.44357	5.598 177.29533	5.598 387.4048
5.599 171.76153	5.599 177.82444	5.599 383.41905
5.6 170.83889	5.6 179.6211	5.6 378.96161
5.601 172.01491	5.601 183.1236	5.601 375.26845
5.602 175.4338	5.602 188.37151	5.602 373.68599
5.603 180.93771	5.603 194.84134	5.603 375.04812
5.604 187.84814	5.604 201.53087	5.604 379.23567
5.605 194.84887	5.605 207.3067	5.605 385.13421
5.606 200.15591	5.606 211.35763	5.606 391.00744
5.607 202.07702	5.607 213.51059	5.607 395.12036
5.608 199.66968	5.608 214.23465	5.608 396.32723

5.609 193.19023	5.609 214.31845	5.609 394.42181
5.61 184.06719	5.61 214.45157	5.61 390.14431
5.611 174.42464	5.611 214.96332	5.611 384.85232
5.612 166.39767	5.612 215.84066	5.612 380.08902
5.613 161.46657	5.613 216.94137	5.613 377.17993
5.614 160.10274	5.614 218.17708	5.614 377.01587
5.615 161.75948	5.615 219.47911	5.615 379.94069
5.616 165.17636	5.616 220.66051	5.616 385.70128
5.617 168.837	5.617 221.3448	5.617 393.41552
5.618 171.39592	5.618 221.1494	5.618 401.66711
5.619 172.02074	5.619 219.94136	5.619 408.82642
5.62 170.58147	5.62 218.00592	5.62 413.57281
5.621 167.65798	5.621 215.95966	5.621 415.39592
5.622 164.3147	5.622 214.44325	5.622 414.75904
5.623 161.67083	5.623 213.82283	5.623 412.83899
5.624 160.45132	5.624 214.09186	5.624 410.9341
5.625 160.73253	5.625 214.96178	5.625 409.9249
5.626 162.03242	5.626 216.05339	5.626 409.99229
5.627 163.65244	5.627 217.0359	5.627 410.7117
5.628 165.03187	5.628 217.6083	5.628 411.3843
5.629 165.93248	5.629 217.43497	5.629 411.42623
5.63 166.40106	5.63 216.14809	5.63 410.67318
5.631 166.64183	5.631 213.48222	5.631 409.48415
5.632 166.91558	5.632 209.50102	5.632 408.5792
5.633 167.54607	5.633 204.75976	5.633 408.69554
5.634 168.93443	5.634 200.30688	5.634 410.15438
5.635 171.49028	5.635 197.42335	5.635 412.59499
5.636 175.42372	5.636 197.1993	5.636 415.07719
5.637 180.50271	5.637 200.07281	5.637 416.4912
5.638 185.98615	5.638 205.54201	5.638 416.09182
5.639 190.7926	5.639 212.20546	5.639 413.81761
5.64 193.87978	5.64 218.19469	5.64 410.2593
5.641 194.62221	5.641 221.833	5.641 406.32649
5.642 192.98986	5.642 222.26145	5.642 402.87922
5.643 189.50198	5.643 219.69816	5.643 400.51823
5.644 184.99454	5.644 215.27029	5.644 399.57035
5.645 180.36914	5.645 210.45848	5.645 400.14913
5.646 176.3937	5.646 206.47701	5.646 402.16861
5.647 173.5868	5.647 203.82506	5.647 405.30551
5.648 172.18214	5.648 202.18386	5.648 408.97757
5.649 172.14597	5.649 200.70881	5.649 412.41597
5.65 173.2256	5.65 198.56091	5.65 414.81557
5.651 175.03788	5.651 195.46352	5.651 415.53147
5.652 177.1435	5.652 191.96673	5.652 414.21759
5.653 179.06891	5.653 189.27334	5.653 410.88933
5.654 180.30075	5.654 188.65492	5.654 405.85899
5.655 180.34106	5.655 190.74881	5.655 399.6164
5.656 178.90805	5.656 195.12675	5.656 392.76204
5.657 176.21165	5.657 200.3536	5.657 386.06431
5.658 173.12463	5.658 204.51265	5.658 380.59681
5.659 171.03406	5.659 205.94395	5.659 377.77626

5.66 171.36204	5.66 203.8669	5.66 379.0672
5.661 174.9289	5.661 198.63416	5.661 385.3601
5.662 181.45733	5.662 191.57075	5.662 396.32807
5.663 189.51582	5.663 184.47031	5.663 410.15282
5.664 196.96354	5.664 178.96769	5.664 423.8881
5.665 201.73078	5.665 176.06983	5.665 434.36896
5.666 202.57438	5.666 175.99556	5.666 439.31113
5.667 199.44579	5.667 178.36325	5.667 438.06668
5.668 193.33524	5.668 182.54214	5.668 431.728
5.669 185.72688	5.669 187.93366	5.669 422.52748
5.67 178.0123	5.67 194.04481	5.67 412.9167
5.671 171.19118	5.671 200.37301	5.671 404.77754
5.672 165.9235	5.672 206.23869	5.672 399.08769
5.673 162.78675	5.673 210.77746	5.673 396.0604
5.674 162.40607	5.674 213.12972	5.674 395.43621
5.675 165.26957	5.675 212.81886	5.675 396.70066
5.676 171.28711	5.676 210.02561	5.676 399.14499
5.677 179.43629	5.677 205.6185	5.677 401.92663
5.678 187.83563	5.678 200.84804	5.678 404.24807
5.679 194.39348	5.679 196.85871	5.679 405.62338
5.68 197.74821	5.68 194.29518	5.68 406.00895
5.681 197.96325	5.681 193.16208	5.681 405.70795
5.682 196.49728	5.682 192.98893	5.682 405.09948
5.683 195.41759	5.683 193.18938	5.683 404.41985
5.684 196.31323	5.684 193.41939	5.684 403.77164
5.685 199.51675	5.685 193.76391	5.685 403.31425
5.686 204.08302	5.686 194.63042	5.686 403.43211
5.687 208.44384	5.687 196.3697	5.687 404.67423
5.688 211.26167	5.688 198.88549	5.688 407.47189
5.689 212.03054	5.689 201.53248	5.689 411.85657
5.69 211.10568	5.69 203.38771	5.69 417.36505
5.691 209.29663	5.691 203.76366	5.691 423.18513
5.692 207.37718	5.692 202.58772	5.692 428.41879
5.693 205.77228	5.693 200.44223	5.693 432.27707
5.694 204.56689	5.694 198.27255	5.694 434.16221
5.695 203.70966	5.695 197.0038	5.695 433.68024
5.696 203.22413	5.696 197.26158	5.696 430.6671
5.697 203.33389	5.697 199.31278	5.697 425.31233
5.698 204.40506	5.698 203.13975	5.698 418.26497
5.699 206.81585	5.699 208.52704	5.699 410.68261
5.7 210.75881	5.7 215.0553	5.7 404.04344
5.701 216.02425	5.701 222.02559	5.701 399.79074
5.702 221.88065	5.702 228.44345	5.702 398.86381
5.703 227.15942	5.703 233.20271	5.703 401.3591
5.704 230.54408	5.704 235.45934	5.704 406.45285
5.705 231.01216	5.705 235.00041	5.705 412.6818
5.706 228.19843	5.706 232.37703	5.706 418.46043
5.707 222.53052	5.707 228.64356	5.707 422.64476
5.708 215.10274	5.708 224.89504	5.708 424.87479
5.709 207.34562	5.709 221.84499	5.709 425.56039
5.71 200.60719	5.71 219.67033	5.71 425.54998

5.711 195.75236	5.711 218.11875	5.711 425.63205
5.712 192.93055	5.712 216.76482	5.712 426.15211
5.713 191.66024	5.713 215.26117	5.713 426.95742
5.714 191.17849	5.714 213.5038	5.714 427.63927
5.715 190.91402	5.715 211.65756	5.715 427.92849
5.716 190.76612	5.716 210.06901	5.716 427.97688
5.717 191.0302	5.717 209.0734	5.717 428.36822
5.718 192.05424	5.718 208.84426	5.718 429.88627
5.719 193.86722	5.719 209.3362	5.719 433.15319
5.72 196.0314	5.72 210.36323	5.72 438.28322
5.721 197.80759	5.721 211.73822	5.721 444.68539
5.722 198.48051	5.722 213.34272	5.722 451.04194
5.723 197.6602	5.723 215.07847	5.723 455.57132
5.724 195.38673	5.724 216.77544	5.724 456.52894
5.725 192.06509	5.725 218.13861	5.725 452.86615
5.726 188.32167	5.726 218.84994	5.726 444.80503
5.727 184.87698	5.727 218.74047	5.727 434.0554
5.728 182.45101	5.728 217.9659	5.728 423.43797
5.729 181.60586	5.729 217.02714	5.729 416.00119
5.73 182.52974	5.73 216.62429	5.73 413.91191
5.731 184.87751	5.731 217.40568	5.731 417.64681
5.732 187.85474	5.732 219.72104	5.732 425.82547
5.733 190.54034	5.733 223.45601	5.733 435.78338
5.734 192.28985	5.734 227.99439	5.734 444.59968
5.735 192.94374	5.735 232.31201	5.735 450.11963
5.736 192.77039	5.736 235.19649	5.736 451.59968
5.737 192.25891	5.737 235.56919	5.737 449.73068
5.738 191.96141	5.738 232.88061	5.738 446.08334
5.739 192.42249	5.739 227.45611	5.739 442.27588
5.74 194.10757	5.74 220.61004	5.74 439.24145
5.741 197.20495	5.741 214.36346	5.741 436.97373
5.742 201.41668	5.742 210.82601	5.742 434.82441
5.743 205.89591	5.743 211.47625	5.743 432.10037
5.744 209.52064	5.744 216.71102	5.744 428.59396
5.745 211.36284	5.745 225.85984	5.745 424.75548
5.746 211.13383	5.746 237.55763	5.746 421.48523
5.747 209.28914	5.747 250.18909	5.747 419.72811
5.748 206.78982	5.748 262.17943	5.748 420.07773
5.749 204.65337	5.749 272.11707	5.749 422.57131
5.75 203.61342	5.75 278.81927	5.75 426.72795
5.751 204.03251	5.751 281.45029	5.751 431.74597
5.752 206.01474	5.752 279.69802	5.752 436.7745
5.753 209.51673	5.753 273.89214	5.753 441.12055
5.754 214.37134	5.754 265.00228	5.754 444.34721
5.755 220.17904	5.755 254.40261	5.755 446.31508
5.756 226.27061	5.756 243.47277	5.756 447.1622
5.757 231.75199	5.757 233.24122	5.757 447.23449
5.758 235.7231	5.758 224.25621	5.758 446.93162
5.759 237.52044	5.759 216.79827	5.759 446.52785
5.76 236.95883	5.76 211.21193	5.76 446.06189
5.761 234.38392	5.761 208.04455	5.761 445.3891

5.762 230.49122	5.762 207.86736	5.762 444.39094
5.763 225.95848	5.763 210.87779	5.763 443.19439
5.764 221.1607	5.764 216.60314	5.764 442.26285
5.765 216.17924	5.765 223.93561	5.765 442.2578
5.766 211.11698	5.766 231.44292	5.766 443.70681
5.767 206.40508	5.767 237.81467	5.767 446.64563
5.768 202.85364	5.768 242.19339	5.768 450.44181
5.769 201.3057	5.769 244.28991	5.769 453.92291
5.77 202.16938	5.77 244.26294	5.77 455.80059
5.771 205.12351	5.771 242.49954	5.771 455.15275
5.772 209.26462	5.772 239.43983	5.772 451.7167
5.773 213.53548	5.773 235.5698	5.773 445.90009
5.774 217.21034	5.774 231.4956	5.774 438.57769
5.775 220.10259	5.775 227.95437	5.775 430.85851
5.776 222.45961	5.776 225.65273	5.776 423.92333
5.777 224.64367	5.777 224.96691	5.777 418.9062
5.778 226.84655	5.778 225.74719	5.778 416.77828
5.779 228.95337	5.779 227.33829	5.779 418.19968
5.78 230.61261	5.78 228.85303	5.78 423.41372
5.781 231.40699	5.781 229.49514	5.781 432.16469
5.782 231.059	5.782 228.80808	5.782 443.70038
5.783 229.54726	5.783 226.77838	5.783 456.7902
5.784 227.0858	5.784 223.81245	5.784 469.81605
5.785 223.96636	5.785 220.60034	5.785 480.95553
5.786 220.40337	5.786 217.93584	5.786 488.43544
5.787 216.54254	5.787 216.54733	5.787 490.87578
5.788 212.64578	5.788 216.98065	5.788 487.62816
5.789 209.24841	5.789 219.56119	5.789 478.98084
5.79 207.0759	5.79 224.32414	5.79 466.14048
5.791 206.71697	5.791 230.90228	5.791 450.97986
5.792 208.24697	5.792 238.41019	5.792 435.6574
5.793 211.07859	5.793 245.51965	5.793 422.26935
5.794 214.13576	5.794 250.85419	5.794 412.58785
5.795 216.19409	5.795 253.53144	5.795 407.83777
5.796 216.23722	5.796 253.57288	5.796 408.55043
5.797 213.76384	5.797 251.87409	5.797 414.51075
5.798 208.99057	5.798 249.74888	5.798 424.88461
5.799 202.92588	5.799 248.35565	5.799 438.46287
5.8 197.20427	5.8 248.29881	5.8 453.86746
5.801 193.65464	5.801 249.55866	5.801 469.64184
5.802 193.74918	5.802 251.69381	5.802 484.27918
5.803 198.11711	5.803 254.11806	5.803 496.38016
5.804 206.35056	5.804 256.30137	5.804 504.96116
5.805 217.14566	5.805 257.82879	5.805 509.74322
5.806 228.68667	5.806 258.37717	5.806 511.21074
5.807 239.12929	5.807 257.72879	5.807 510.31624
5.808 246.98031	5.808 255.89385	5.808 508.0482
5.809 251.27532	5.809 253.2349	5.809 505.07704
5.81 251.50794	5.81 250.49632	5.81 501.69041
5.811 247.51637	5.811 248.56551	5.811 497.99173
5.812 239.51121	5.812 248.13936	5.812 494.1495

5.813 228.30683	5.813 249.44789	5.813 490.51602
5.814 215.53748	5.814 252.19482	5.814 487.5311
5.815 203.534	5.815 255.6946	5.815 485.49934
5.816 194.75867	5.816 259.13126	5.816 484.41933
5.817 191.022	5.817 261.81605	5.817 484.02815
5.818 192.87317	5.818 263.37468	5.818 484.0328
5.819 199.48183	5.819 263.79287	5.819 484.39703
5.82 209.05037	5.82 263.29946	5.82 485.42362
5.821 219.45392	5.821 262.12036	5.821 487.51622
5.822 228.81617	5.822 260.27132	5.822 490.80198
5.823 235.83264	5.823 257.51286	5.823 494.87081
5.824 239.84328	5.824 253.49107	5.824 498.87026
5.825 240.78518	5.825 247.97497	5.825 501.91108
5.826 239.17246	5.826 241.05621	5.826 503.51363
5.827 236.04321	5.827 233.22956	5.827 503.78678
5.828 232.79402	5.828 225.32241	5.828 503.23448
5.829 230.81478	5.829 218.29653	5.829 502.3467
5.83 231.00995	5.83 212.94869	5.83 501.27845
5.831 233.45207	5.831 209.64782	5.831 499.83542
5.832 237.37512	5.832 208.18879	5.832 497.7476
5.833 241.52032	5.833 207.90717	5.833 495.00461
5.834 244.63808	5.834 207.98439	5.834 492.04636
5.835 245.89147	5.835 207.80779	5.835 489.64306
5.836 245.03294	5.836 207.23743	5.836 488.53159
5.837 242.3514	5.837 206.63434	5.837 489.01841
5.838 238.49994	5.838 206.7264	5.838 490.79105
5.839 234.32427	5.839 208.33681	5.839 493.06569
5.84 230.72553	5.84 212.09442	5.84 495.01455
5.841 228.58279	5.841 218.14319	5.841 496.23179
5.842 228.66026	5.842 225.98064	5.842 496.91796
5.843 231.44901	5.843 234.50499	5.843 497.70156
5.844 236.97022	5.844 242.31809	5.844 499.19828
5.845 244.60983	5.845 248.21067	5.845 501.62249
5.846 253.10691	5.846 251.57738	5.846 504.6623
5.847 260.71713	5.847 252.54049	5.847 507.60891
5.848 265.59479	5.848 251.69205	5.848 509.63559
5.849 266.284	5.849 249.68242	5.849 510.069
5.85 262.24658	5.85 246.939	5.85 508.60375
5.851 254.16613	5.851 243.67984	5.851 505.437
5.852 243.87687	5.852 240.1633	5.852 501.28333
5.853 233.81714	5.853 236.89564	5.853 497.1916
5.854 226.19444	5.854 234.63944	5.854 494.25873
5.855 222.24123	5.855 234.18159	5.855 493.3315
5.856 221.89901	5.856 236.00468	5.856 494.84178
5.857 224.02732	5.857 240.08508	5.857 498.74128
5.858 226.9718	5.858 245.87548	5.858 504.50599
5.859 229.22297	5.859 252.50917	5.859 511.14793
5.86 229.93047	5.86 259.01063	5.86 517.38183
5.861 229.14618	5.861 264.45764	5.861 521.97492
5.862 227.73369	5.862 268.03968	5.862 524.18203
5.863 226.97789	5.863 269.15688	5.863 524.00876

5.864 228.00054	5.864 267.58957	5.864 522.09161
5.865 231.256	5.865 263.7007	5.865 519.24987
5.866 236.31171	5.866 258.46154	5.866 516.0297
5.867 242.02702	5.867 253.19892	5.867 512.59081
5.868 246.99423	5.868 249.1724	5.868 508.94755
5.869 250.0309	5.869 247.21962	5.869 505.34381
5.87 250.52673	5.87 247.69436	5.87 502.38759
5.871 248.55947	5.871 250.62096	5.871 500.82553
5.872 244.80947	5.872 255.83463	5.872 501.14688
5.873 240.32087	5.873 262.88965	5.873 503.34192
5.874 236.21591	5.874 270.80737	5.874 507.04034
5.875 233.43537	5.875 277.96892	5.875 511.86453
5.876 232.57122	5.876 282.42784	5.876 517.70332
5.877 233.81344	5.877 282.64436	5.877 524.61166
5.878 236.9785	5.878 278.27999	5.878 532.41391
5.879 241.55543	5.879 270.51861	5.879 540.31537
5.88 246.75123	5.88 261.6417	5.88 546.87489
5.881 251.56436	5.881 254.06215	5.881 550.4378
5.882 254.92656	5.882 249.36316	5.882 549.8167
5.883 255.95306	5.883 247.85913	5.883 544.82173
5.884 254.24467	5.884 248.80372	5.884 536.39585
5.885 250.15637	5.885 251.00399	5.885 526.25639
5.886 244.8646	5.886 253.39078	5.886 516.29319
5.887 240.10135	5.887 255.3507	5.887 508.00418
5.888 237.55951	5.888 256.73047	5.888 502.20475
5.889 238.19708	5.889 257.68126	5.889 499.03639
5.89 241.78006	5.89 258.42724	5.89 498.21127
5.891 246.93204	5.891 259.09208	5.891 499.30467
5.892 251.73609	5.892 259.65494	5.892 501.96632
5.893 254.59035	5.893 260.04422	5.893 505.96333
5.894 254.84794	5.894 260.32187	5.894 511.0183
5.895 252.92888	5.895 260.80323	5.895 516.62625
5.896 249.91767	5.896 261.98925	5.896 521.97281
5.897 246.94883	5.897 264.3099	5.897 526.1108
5.898 244.77794	5.898 267.81022	5.898 528.33773
5.899 243.69535	5.899 271.98065	5.899 528.53773
5.9 243.68474	5.9 275.86321	5.9 527.26912
5.901 244.60364	5.901 278.36558	5.901 525.49355
5.902 246.19639	5.902 278.62383	5.902 524.11332
5.903 248.01159	5.903 276.27443	5.903 523.57693
5.904 249.41958	5.904 271.56494	5.904 523.74102
5.905 249.82532	5.905 265.32599	5.905 524.05115
5.906 248.9577	5.906 258.79403	5.906 523.90791
5.907 247.04009	5.907 253.30298	5.907 523.01874
5.908 244.68353	5.908 249.90418	5.908 521.56926
5.909 242.58133	5.909 249.05162	5.909 520.08345
5.91 241.16905	5.91 250.4892	5.91 519.07771
5.911 240.45395	5.911 253.44563	5.911 518.69683
5.912 240.09706	5.912 257.00707	5.912 518.54936
5.913 239.71269	5.913 260.51175	5.913 517.85513
5.914 239.16752	5.914 263.72592	5.914 515.84192

5.915 238.69956	5.915 266.76647	5.915 512.19858
5.916 238.74873	5.916 269.81508	5.916 507.35285
5.917 239.5929	5.917 272.81788	5.917 502.41924
5.918 241.05798	5.918 275.37571	5.918 498.84709
5.919 242.49826	5.919 276.86129	5.919 497.91196
5.92 243.09118	5.92 276.71665	5.92 500.27693
5.921 242.27819	5.921 274.7764	5.921 505.84057
5.922 240.07095	5.922 271.39634	5.922 513.82275
5.923 237.06681	5.923 267.29295	5.923 523.00519
5.924 234.15537	5.924 263.16573	5.924 531.97988
5.925 232.11692	5.925 259.3398	5.925 539.35877
5.926 231.27793	5.926 255.67277	5.926 543.98809
5.927 231.43963	5.927 251.80029	5.927 545.1895
5.928 232.05587	5.928 247.56064	5.928 542.9541
5.929 232.5849	5.929 243.33177	5.929 537.9911
5.93 232.79193	5.93 240.02077	5.93 531.55253
5.931 232.84615	5.931 238.7374	5.931 525.06107
5.932 233.17279	5.932 240.29075	5.932 519.70609
5.933 234.17778	5.933 244.8083	5.933 516.14105
5.934 236.03991	5.934 251.63082	5.934 514.41344
5.935 238.65865	5.935 259.56332	5.935 514.08434
5.936 241.72122	5.936 267.26904	5.936 514.46266
5.937 244.81133	5.937 273.69581	5.937 514.87131
5.938 247.49589	5.938 278.29576	5.938 514.84279
5.939 249.42585	5.939 281.04036	5.939 514.24839
5.94 250.40778	5.94 282.23052	5.94 513.30049
5.941 250.47115	5.941 282.23286	5.941 512.46255
5.942 249.86724	5.942 281.2585	5.942 512.27057
5.943 249.02833	5.943 279.33423	5.943 513.15053
5.944 248.50293	5.944 276.46332	5.944 515.32036
5.945 248.85025	5.945 272.83292	5.945 518.79272
5.946 250.45517	5.946 268.89868	5.946 523.4309
5.947 253.31042	5.947 265.28067	5.947 529
5.948 256.8827	5.948 262.5341	5.948 535.12441
5.949 260.2298	5.949 260.94535	5.949 541.26055
5.95 262.34136	5.95 260.43893	5.95 546.77609
5.951 262.55949	5.951 260.65131	5.951 551.20656
5.952 260.76948	5.952 261.09528	5.952 554.53769
5.953 257.34258	5.953 261.34554	5.953 557.29891
5.954 252.90555	5.954 261.15812	5.954 560.27693
5.955 248.15299	5.955 260.50112	5.955 563.98926
5.956 243.72922	5.956 259.45615	5.956 568.22794
5.957 240.16612	5.957 258.13183	5.957 571.98887
5.958 237.81395	5.958 256.60535	5.958 573.88579
5.959 236.76404	5.959 254.97157	5.959 572.82539
5.96 236.87231	5.96 253.41886	5.96 568.57552
5.961 237.8884	5.961 252.25999	5.961 561.91126
5.962 239.60891	5.962 251.83221	5.962 554.25943
5.963 241.96615	5.963 252.37329	5.963 547.10508
5.964 244.99107	5.964 253.89969	5.964 541.4582
5.965 248.69929	5.965 256.19351	5.965 537.66501

5.966 252.93419	5.966 258.88515	5.966 535.52955
5.967 257.29312	5.967 261.58021	5.967 534.56936
5.968 261.19084	5.968 263.91556	5.968 534.23918
5.969 264.05816	5.969 265.5597	5.969 534.10806
5.97 265.56673	5.97 266.19331	5.97 533.98931
5.971 265.72469	5.971 265.57792	5.971 534.02815
5.972 264.79313	5.972 263.73235	5.972 534.60955
5.973 263.10562	5.973 261.11487	5.973 536.07957
5.974 260.94919	5.974 258.67018	5.974 538.41103
5.975 258.5963	5.975 257.61587	5.975 541.06169
5.976 256.39929	5.976 258.99321	5.976 543.16881
5.977 254.83259	5.977 263.17594	5.977 544.00489
5.978 254.35018	5.978 269.59901	5.978 543.37078
5.979 255.10874	5.979 276.84331	5.979 541.70768
5.98 256.74104	5.98 283.06961	5.98 539.86031
5.981 258.41274	5.981 286.66413	5.981 538.71495
5.982 259.16803	5.982 286.80865	5.982 538.91062
5.983 258.4386	5.983 283.78298	5.983 540.77303
5.984 256.37741	5.984 278.84519	5.984 544.38587
5.985 253.78285	5.985 273.73686	5.985 549.65313
5.986 251.6637	5.986 270.0629	5.986 556.21794
5.987 250.69766	5.987 268.79485	5.987 563.29758
5.988 250.91627	5.988 270.06641	5.988 569.58729
5.989 251.80933	5.989 273.26746	5.989 573.45324
5.99 252.7505	5.99 277.31275	5.99 573.4187
5.991 253.48395	5.991 281.02784	5.991 568.81192
5.992 254.35464	5.992 283.57222	5.992 560.23671
5.993 256.12602	5.993 284.7715	5.993 549.57938
5.994 259.51236	5.994 285.15441	5.994 539.43929
5.995 264.70078	5.995 285.59017	5.995 532.21524
5.996 271.16031	5.996 286.7028	5.996 529.25045
5.997 277.7973	5.997 288.4718	5.997 530.46604
5.998 283.36756	5.998 290.32165	5.998 534.61565
5.999 286.90993	5.999 291.61328	5.999 539.94346
6 287.99162	6 292.13769	6 544.89048
6.001 286.73605	6.001 292.21094	6.001 548.50281
6.002 283.68228	6.002 292.37097	6.002 550.50577
6.003 279.5925	6.003 292.95531	6.003 551.17507
6.004 275.30937	6.004 293.92598	6.004 551.13543
6.005 271.67438	6.005 294.95724	6.005 551.1266
6.006 269.46426	6.006 295.62205	6.006 551.76359
6.007 269.31842	6.007 295.50182	6.007 553.32484
6.008 271.58957	6.008 294.2313	6.008 555.68726
6.009 276.18356	6.009 291.58696	6.009 558.44054
6.01 282.45017	6.01 287.67477	6.01 561.07716
6.011 289.22882	6.011 283.08754	6.011 563.14917
6.012 295.07737	6.012 278.89215	6.012 564.30157
6.013 298.62755	6.013 276.32461	6.013 564.25935
6.014 298.95076	6.014 276.31708	6.014 562.85093
6.015 295.86745	6.015 279.10279	6.015 560.1393
6.016 290.07088	6.016 284.06343	6.016 556.51166

6.017 282.97562	6.017 289.96938	6.017 552.67596
6.018 276.30597	6.018 295.44507	6.018 549.50563
6.019 271.55493	6.019 299.43347	6.019 547.80872
6.02 269.53599	6.02 301.46744	6.02 548.06054
6.021 270.23302	6.021 301.63842	6.021 550.20536
6.022 272.9663	6.022 300.37348	6.022 553.63891
6.023 276.69946	6.023 298.17143	6.023 557.44044
6.024 280.35732	6.024 295.43219	6.024 560.788
6.025 283.07163	6.025 292.43879	6.025 563.32602
6.026 284.39209	6.026 289.42524	6.026 565.27359
6.027 284.41588	6.027 286.67524	6.027 567.18938
6.028 283.77701	6.028 284.57365	6.028 569.55025
6.029 283.41135	6.029 283.58559	6.029 572.41316
6.03 284.17568	6.03 284.15931	6.03 575.31882
6.031 286.55528	6.031 286.55871	6.031 577.47356
6.032 290.59512	6.032 290.69007	6.032 578.10559
6.033 296.03606	6.033 296.02612	6.033 576.77285
6.034 302.4435	6.034 301.70816	6.034 573.53577
6.035 309.20921	6.035 306.81507	6.035 568.89984
6.036 315.40493	6.036 310.65793	6.036 563.59388
6.037 319.73532	6.037 312.9288	6.037 558.31816
6.038 320.73188	6.038 313.66791	6.038 553.59002
6.039 317.25661	6.039 313.14473	6.039 549.76166
6.04 309.05144	6.04 311.75042	6.04 547.14415
6.041 297.0972	6.041 309.94453	6.041 546.14855
6.042 283.53366	6.042 308.10083	6.042 547.29195
6.043 271.15382	6.043 306.36033	6.043 551.00934
6.044 262.60312	6.044 304.56362	6.044 557.3443
6.045 259.58137	6.045 302.41415	6.045 565.7243
6.046 262.34043	6.046 299.78447	6.046 574.96013
6.047 269.69175	6.047 296.9265	6.047 583.55496
6.048 279.50977	6.048 294.45731	6.048 590.17296
6.049 289.47114	6.049 293.14811	6.049 594.00851
6.05 297.73442	6.05 293.68604	6.05 594.89954
6.051 303.28694	6.051 296.44049	6.051 593.15554
6.052 305.91403	6.052 301.25301	6.052 589.29673
6.053 305.91002	6.053 307.25791	6.053 583.88221
6.054 303.76191	6.054 312.92108	6.054 577.50152
6.055 299.94475	6.055 316.43664	6.055 570.85999
6.056 294.86644	6.056 316.38087	6.056 564.77762
6.057 288.92923	6.057 312.27937	6.057 559.99704
6.058 282.62854	6.058 304.73551	6.058 556.93359
6.059 276.61032	6.059 295.08279	6.059 555.56383
6.06 271.632	6.06 284.79475	6.06 555.61385
6.061 268.4695	6.061 275.02094	6.061 556.91905
6.062 267.71153	6.062 266.44324	6.062 559.6515
6.063 269.57991	6.063 259.39688	6.063 564.21337
6.064 273.82404	6.064 254.0636	6.064 570.84513
6.065 279.77783	6.065 250.56403	6.065 579.20834
6.066 286.5292	6.066 248.96192	6.066 588.22912
6.067 293.11833	6.067 249.25983	6.067 596.27956

6.068 298.65856	6.068 251.42764	6.068 601.63441
6.069 302.44805	6.069 255.40635	6.069 602.9943
6.07 304.10251	6.07 260.99308	6.07 599.91441
6.071 303.69974	6.071 267.66082	6.071 593.01429
6.072 301.79634	6.072 274.51243	6.072 583.85407
6.073 299.25858	6.073 280.47038	6.073 574.52931
6.074 296.95554	6.074 284.64863	6.074 567.06792
6.075 295.482	6.075 286.63269	6.075 562.8368
6.076 295.05083	6.076 286.54453	6.076 562.20105
6.077 295.53471	6.077 284.84047	6.077 564.54022
6.078 296.55623	6.078 282.11597	6.078 568.62953
6.079 297.54861	6.079 278.97019	6.079 573.17292
6.08 297.85733	6.08 276.02267	6.08 577.24754
6.081 296.9337	6.081 273.95547	6.081 580.46891
6.082 294.59221	6.082 273.50521	6.082 582.90432
6.083 291.17596	6.083 275.30755	6.083 584.84379
6.084 287.48264	6.084 279.64009	6.084 586.6049
6.085 284.42849	6.085 286.17566	6.085 588.44346
6.086 282.62551	6.086 293.93598	6.086 590.53724
6.087 282.1331	6.087 301.54427	6.087 593.01187
6.088 282.50929	6.088 307.71317	6.088 595.94273
6.089 283.10275	6.089 311.69905	6.089 599.3257
6.09 283.39214	6.09 313.49805	6.09 603.00295
6.091 283.19424	6.091 313.66151	6.091 606.58274
6.092 282.69146	6.092 312.90552	6.092 609.45633
6.093 282.31524	6.093 311.71179	6.093 610.9601
6.094 282.52738	6.094 310.13907	6.094 610.65977
6.095 283.56913	6.095 307.89955	6.095 608.58774
6.096 285.26083	6.096 304.64672	6.096 605.29308
6.097 286.99188	6.097 300.28955	6.097 601.70504
6.098 287.92409	6.098 295.18344	6.098 598.89243
6.099 287.34696	6.099 290.06795	6.099 597.86475
6.1 284.95485	6.1 285.85605	6.1 599.3778
6.101 280.92262	6.101 283.35089	6.101 603.73295
6.102 275.75377	6.102 283.09666	6.102 610.58535
6.103 270.09899	6.103 285.32898	6.103 618.90378
6.104 264.71135	6.104 290.03416	6.104 627.19408
6.105 260.50908	6.105 296.94343	6.105 633.91142
6.106 258.5345	6.106 305.44717	6.106 637.88933
6.107 259.67824	6.107 314.51872	6.107 638.58243
6.108 264.24303	6.108 322.79575	6.108 636.08407
6.109 271.62848	6.109 328.88744	6.109 630.97654
6.11 280.3807	6.11 331.77463	6.11 624.12451
6.111 288.65581	6.111 331.08234	6.111 616.50415
6.112 294.85211	6.112 327.07159	6.112 609.09083
6.113 298.1105	6.113 320.39401	6.113 602.79179
6.114 298.45025	6.114 311.85124	6.114 598.37904
6.115 296.58168	6.115 302.31786	6.115 596.36246
6.116 293.54224	6.116 292.8114	6.116 596.80571
6.117 290.34596	6.117 284.54219	6.117 599.17696
6.118 287.75143	6.118 278.78464	6.118 602.38182

6.119 286.18148	6.119 276.56814	6.119 605.01974
6.12 285.76131	6.12 278.29591	6.12 605.84325
6.121 286.43554	6.121 283.4644	6.121 604.20311
6.122 288.05572	6.122 290.64347	6.122 600.32937
6.123 290.45582	6.123 297.76598	6.123 595.35346
6.124 293.47293	6.124 302.69177	6.124 591.04872
6.125 296.95288	6.125 303.87944	6.125 589.38686
6.126 300.71576	6.126 300.91087	6.126 591.97215
6.127 304.5523	6.127 294.65574	6.127 599.50278
6.128 308.20808	6.128 286.98012	6.128 611.40793
6.129 311.38705	6.129 280.06931	6.129 625.8255
6.13 313.72965	6.13 275.67055	6.13 640.00492
6.131 314.78778	6.131 274.57376	6.131 651.04716
6.132 314.06049	6.132 276.53923	6.132 656.77451
6.133 311.14401	6.133 280.63799	6.133 656.39844
6.134 305.9598	6.134 285.72435	6.134 650.72405
6.135 298.91737	6.135 290.8141	6.135 641.78029
6.136 290.85753	6.136 295.25352	6.136 632.03181
6.137 282.81875	6.137 298.79106	6.137 623.49656
6.138 275.76162	6.138 301.58224	6.138 617.14377
6.139 270.45372	6.139 304.10795	6.139 612.82917
6.14 267.46166	6.14 306.92989	6.14 609.79155
6.141 267.17074	6.141 310.32824	6.141 607.44249
6.142 269.71706	6.142 313.98498	6.142 605.96662
6.143 274.82781	6.143 316.97639	6.143 606.31212
6.144 281.71884	6.144 318.14121	6.144 609.55502
6.145 289.1163	6.145 316.65064	6.145 616.02951
6.146 295.4654	6.146 312.46918	6.146 624.86575
6.147 299.30199	6.147 306.44306	6.147 634.23384
6.148 299.66069	6.148 300.01352	6.148 642.14309
6.149 296.40801	6.149 294.72374	6.149 647.26344
6.15 290.32324	6.15 291.73654	6.15 649.29181
6.151 282.84772	6.151 291.56448	6.151 648.80017
6.152 275.59909	6.152 293.98871	6.152 646.76371
6.153 269.89853	6.153 298.19913	6.153 644.10736
6.154 266.52793	6.154 303.09001	6.154 641.4579
6.155 265.75454	6.155 307.603	6.155 639.13216
6.156 267.49854	6.156 310.993	6.156 637.28136
6.157 271.41852	6.157 312.88636	6.157 636.04665
6.158 276.89749	6.158 313.19641	6.158 635.59822
6.159 283.01564	6.159 312.02226	6.159 636.01163
6.16 288.69818	6.16 309.66739	6.16 637.06114
6.161 293.02661	6.161 306.71824	6.161 638.08878
6.162 295.54752	6.162 304.02416	6.162 638.12096
6.163 296.39732	6.163 302.50418	6.163 636.23097
6.164 296.2071	6.164 302.83319	6.164 631.98838
6.165 295.88873	6.165 305.19392	6.165 625.77206
6.166 296.41821	6.166 309.19002	6.166 618.75712
6.167 298.62065	6.167 313.9292	6.167 612.63419
6.168 302.9451	6.168 318.21004	6.168 609.15692
6.169 309.24024	6.169 320.81237	6.169 609.65045

6.17 316.70609	6.17 320.85652	6.17 614.58643
6.171 324.08201	6.171 318.13236	6.171 623.32636
6.172 330.03806	6.172 313.20278	6.172 634.18004
6.173 333.58317	6.173 307.165	6.173 644.8513
6.174 334.31982	6.174 301.14538	6.174 653.18043
6.175 332.46015	6.175 295.84616	6.175 657.86099
6.176 328.67621	6.176 291.44039	6.176 658.77432
6.177 323.88009	6.177 287.85129	6.177 656.82743
6.178 319.04378	6.178 285.13264	6.178 653.45038
6.179 315.07644	6.179 283.59164	6.179 650.07354
6.18 312.75098	6.18 283.57159	6.18 647.74935
6.181 312.54369	6.181 285.1048	6.181 646.96004
6.182 314.43389	6.182 287.80189	6.182 647.56135
6.183 317.76237	6.183 291.10058	6.183 648.90282
6.184 321.33523	6.184 294.71116	6.184 650.15311
6.185 323.8407	6.185 298.84608	6.185 650.71894
6.186 324.3906	6.186 304.0335	6.186 650.55009
6.187 322.88975	6.187 310.60772	6.187 650.11111
6.188 320.00432	6.188 318.22348	6.188 650.05041
6.189 316.75629	6.189 325.75271	6.189 650.79988
6.19 314.00706	6.19 331.69849	6.19 652.35217
6.191 312.08808	6.191 334.88539	6.191 654.29163
6.192 310.7869	6.192 335.05874	6.192 655.98582
6.193 309.62578	6.193 333.00944	6.193 656.84977
6.194 308.24638	6.194 330.1769	6.194 656.58214
6.195 306.66437	6.195 327.94127	6.195 655.30314
6.196 305.27972	6.196 326.99273	6.196 653.52012
6.197 304.68617	6.197 327.09796	6.197 651.94439
6.198 305.39502	6.198 327.34176	6.198 651.2229
6.199 307.62447	6.199 326.68821	6.199 651.72327
6.2 311.2394	6.2 324.54729	6.2 653.43887
6.201 315.80996	6.201 321.03279	6.201 655.98658
6.202 320.77034	6.202 316.83862	6.202 658.64642
6.203 325.6099	6.203 312.84179	6.203 660.45137
6.204 329.97726	6.204 309.71089	6.204 660.41766
6.205 333.63319	6.205 307.72262	6.205 657.93035
6.206 336.32297	6.206 306.8648	6.206 653.1192
6.207 337.69637	6.207 307.07497	6.207 646.97798
6.208 337.41904	6.208 308.3989	6.208 641.10374
6.209 335.41612	6.209 310.93391	6.209 637.15763
6.21 332.03202	6.21 314.57764	6.21 636.34545
6.211 327.96997	6.211 318.79596	6.211 639.1432
6.212 324.03747	6.212 322.62046	6.212 645.33296
6.213 320.91669	6.213 324.97518	6.213 654.21486
6.214 319.10373	6.214 325.15257	6.214 664.77379
6.215 318.96859	6.215 323.121	6.215 675.74315
6.216 320.78884	6.216 319.50584	6.216 685.63977
6.217 324.60125	6.217 315.27486	6.217 692.89136
6.218 329.95689	6.218 311.40629	6.218 696.12487
6.219 335.809	6.219 308.68742	6.219 694.54865
6.22 340.67698	6.22 307.64739	6.22 688.27464

6.221 343.09878	6.221 308.50939	6.221 678.41538
6.222 342.16107	6.222 311.17392	6.222 666.87456
6.223 337.90604	6.223 315.29836	6.223 655.88063
6.224 331.39681	6.224 320.46726	6.224 647.39603
6.225 324.41531	6.225 326.32615	6.225 642.60266
6.226 318.9126	6.226 332.55029	6.226 641.65242
6.227 316.38896	6.227 338.64952	6.227 643.76117
6.228 317.49984	6.228 343.85892	6.228 647.58722
6.229 322.00659	6.229 347.2518	6.229 651.73018
6.23 329.02359	6.23 348.06844	6.23 655.17462
6.231 337.33417	6.231 346.00456	6.231 657.5708
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6.234 356.76549	6.234 327.11776	6.234 663.9365
6.235 357.75544	6.235 319.84258	6.235 667.97958
6.236 355.47377	6.236 314.13947	6.236 672.6903
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6.24 331.95131	6.24 318.05515	6.24 676.80038
6.241 325.87476	6.241 321.71457	6.241 673.48073
6.242 320.01693	6.242 323.49595	6.242 670.19947
6.243 314.78775	6.243 322.76993	6.243 667.5855
6.244 310.98849	6.244 319.80896	6.244 665.58993
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6.247 313.38909	6.247 306.60827	6.247 658.89544
6.248 317.15954	6.248 303.51054	6.248 656.05553
6.249 320.35161	6.249 301.82739	6.249 653.56521
6.25 322.01418	6.25 301.68245	6.25 651.96323
6.251 321.93784	6.251 303.02327	6.251 651.60091
6.252 320.61123	6.252 305.64126	6.252 652.59185
6.253 318.86917	6.253 309.21192	6.253 654.89113
6.254 317.51494	6.254 313.34552	6.254 658.41862
6.255 317.0653	6.255 317.60973	6.255 663.0847
6.256 317.70629	6.256 321.51683	6.256 668.68844
6.257 319.37873	6.257 324.51391	6.257 674.78283
6.258 321.87926	6.258 326.06571	6.258 680.62928
6.259 324.91439	6.259 325.8635	6.259 685.33321
6.26 328.07617	6.26 324.061	6.26 688.09341
6.261 330.82631	6.261 321.35648	6.261 688.44271
6.262 332.60316	6.262 318.77128	6.262 686.38184
6.263 333.02715	6.263 317.25009	6.263 682.43042
6.264 332.10294	6.264 317.31295	6.264 677.62598
6.265 330.28459	6.265 318.97804	6.265 673.43735
6.266 328.31659	6.266 321.87435	6.266 671.48834
6.267 326.92825	6.267 325.41573	6.267 673.07379
6.268 326.59031	6.268 328.85931	6.268 678.6525
6.269 327.46	6.269 331.32157	6.269 687.5606
6.27 329.5109	6.27 331.87477	6.27 698.10394
6.271 332.69676	6.271 329.80145	6.271 708.0431

6.272 336.98123	6.272 324.93376	6.272 715.25094
6.273 342.24857	6.273 317.87995	6.273 718.35216
6.274 348.19703	6.274 309.96838	6.274 717.09302
6.275 354.33053	6.275 302.852	6.275 712.31143
6.276 360.01318	6.276 297.95945	6.276 705.50935
6.277 364.53655	6.277 296.0519	6.277 698.22135
6.278 367.1956	6.278 297.06968	6.278 691.49079
6.279 367.44268	6.279 300.32248	6.279 685.70294
6.28 365.14548	6.28 304.85851	6.28 680.80409
6.281 360.79849	6.281 309.8472	6.281 676.64197
6.282 355.47359	6.282 314.80709	6.282 673.18225
6.283 350.42313	6.283 319.6351	6.283 670.48151
6.284 346.49209	6.284 324.43	6.284 668.57165
6.285 343.73606	6.285 329.19668	6.285 667.44813
6.286 341.46502	6.286 333.62285	6.286 667.21831
6.287 338.71824	6.287 337.11814	6.287 668.231
6.288 334.87686	6.288 339.09302	6.288 671.00108
6.289 330.05317	6.289 339.28207	6.289 675.89291
6.29 325.02446	6.29 337.83725	6.29 682.75237
6.291 320.83111	6.291 335.10901	6.291 690.7583
6.292 318.30366	6.292 331.35178	6.292 698.60961
6.293 317.78325	6.293 326.64413	6.293 704.92739
6.294 319.14173	6.294 321.13308	6.294 708.68352
6.295 321.99831	6.295 315.39062	6.295 709.47687
6.296 325.96131	6.296 310.53879	6.296 707.62293
6.297 330.76865	6.297 307.9733	6.297 704.10544
6.298 336.26395	6.298 308.81215	6.298 700.37877
6.299 342.23675	6.299 313.41894	6.299 698.02948
6.3 348.21077	6.3 321.25764	6.3 698.3474
6.301 353.3246	6.301 331.10054	6.301 701.97137
6.302 356.44454	6.302 341.41454	6.302 708.75856
6.303 356.55218	6.303 350.70408	6.303 717.92227
6.304 353.22252	6.304 357.72325	6.304 728.30491
6.305 346.94463	6.305 361.57743	6.305 738.62902
6.306 339.08806	6.306 361.80237	6.306 747.64755
6.307 331.49094	6.307 358.49126	6.307 754.2345
6.308 325.84993	6.308 352.38631	6.308 757.5293
6.309 323.19143	6.309 344.82145	6.309 757.12758
6.31 323.64714	6.31 337.42242	6.31 753.25488
6.311 326.61839	6.311 331.62489	6.311 746.77404
6.312 331.18181	6.312 328.24211	6.312 738.95417
6.313 336.4928	6.313 327.28074	6.313 731.08539
6.314 341.98461	6.314 328.12782	6.314 724.14503
6.315 347.36617	6.315 329.91756	6.315 718.67743
6.316 352.46835	6.316 331.89	6.316 714.92553
6.317 357.10977	6.317 333.54608	6.317 713.02965
6.318 361.00238	6.318 334.6302	6.318 713.11119
6.319 363.72319	6.319 335.05891	6.319 715.13327
6.32 364.77076	6.32 334.89996	6.32 718.66303
6.321 363.73003	6.321 334.42051	6.321 722.76541
6.322 360.5408	6.322 334.10087	6.322 726.16369

6.323 355.69515	6.323 334.58159	6.323 727.65396
6.324 350.22003	6.324 336.45348	6.324 726.54465
6.325 345.38301	6.325 340.04108	6.325 722.91285
6.326 342.29113	6.326 345.23939	6.326 717.55559
6.327 341.5524	6.327 351.47961	6.327 711.69394
6.328 343.1662	6.328 357.84915	6.328 706.57548
6.329 346.64504	6.329 363.30519	6.329 703.17695
6.33 351.25969	6.33 366.98082	6.33 702.09583
6.331 356.26919	6.331 368.4948	6.331 703.6259
6.332 361.06494	6.332 368.13746	6.332 707.87643
6.333 365.17653	6.333 366.81763	6.333 714.7997
6.334 368.24454	6.334 365.73441	6.334 724.06356
6.335 369.97625	6.335 365.89401	6.335 734.86552
6.336 370.18183	6.336 367.7202	6.336 745.85923
6.337 368.85516	6.337 370.92224	6.337 755.29749
6.338 366.27977	6.338 374.68195	6.338 761.38168
6.339 363.04379	6.339 377.9555	6.339 762.67773
6.34 359.87721	6.34 379.81773	6.34 758.50518
6.341 357.36423	6.341 379.70289	6.341 749.22675
6.342 355.63974	6.342 377.54604	6.342 736.38875
6.343 354.32053	6.343 373.77979	6.343 722.58903
6.344 352.72475	6.344 369.13159	6.344 710.96432
6.345 350.27218	6.345 364.30005	6.345 704.30499
6.346 346.82931	6.346 359.65972	6.346 704.10581
6.347 342.79492	6.347 355.21603	6.347 709.99689
6.348 338.93032	6.348 350.82882	6.348 719.88671
6.349 336.03178	6.349 346.60685	6.349 730.8255
6.35 334.62351	6.35 343.14098	6.35 740.15676
6.351 334.76953	6.351 341.4342	6.351 746.39937
6.352 336.0951	6.352 342.51305	6.352 749.49588
6.353 337.97143	6.353 346.93316	6.353 750.38514
6.354 339.7703	6.354 354.414	6.354 750.27858
6.355 341.03189	6.355 363.7458	6.355 750.08446
6.356 341.51794	6.356 373.03978	6.356 750.19931
6.357 341.19161	6.357 380.20231	6.357 750.64707
6.358 340.28793	6.358 383.52487	6.358 751.29667
6.359 339.39703	6.359 382.18936	6.359 751.97812
6.36 339.46455	6.36 376.53541	6.36 752.44857
6.361 341.50821	6.361 367.95168	6.361 752.35341
6.362 346.13201	6.362 358.4277	6.362 751.29397
6.363 353.09315	6.363 349.91538	6.363 749.01252
6.364 361.24575	6.364 343.82093	6.364 745.59935
6.365 368.93004	6.365 340.81599	6.365 741.57684
6.366 374.59723	6.366 340.99647	6.366 737.77003
6.367 377.31247	6.367 344.17978	6.367 734.97772
6.368 376.91366	6.368 350.10409	6.368 733.60304
6.369 373.87427	6.369 358.37368	6.369 733.42362
6.37 369.06348	6.37 368.22786	6.37 733.68211
6.371 363.51508	6.371 378.37235	6.371 733.47377
6.372 358.25566	6.372 387.09618	6.372 732.24518
6.373 354.15362	6.373 392.72013	6.373 730.12649

6.374 351.80302	6.374 394.16427	6.374 727.91473
6.375 351.4792	6.375 391.36864	6.375 726.72103
6.376 353.17771	6.376 385.33921	6.376 727.48259
6.377 356.66017	6.377 377.83806	6.377 730.55077
6.378 361.41141	6.378 370.85871	6.378 735.58712
6.379 366.55058	6.379 366.06334	6.379 741.76838
6.38 370.91542	6.38 364.3469	6.38 748.18928
6.381 373.38548	6.381 365.62086	6.381 754.24451
6.382 373.39055	6.382 368.92819	6.382 759.72167
6.383 371.20124	6.383 372.85598	6.383 764.59536
6.384 367.81911	6.384 376.09345	6.384 768.7087
6.385 364.48102	6.385 377.8873	6.385 771.60113
6.386 362.12486	6.386 378.16127	6.386 772.61405
6.387 361.09098	6.387 377.29724	6.387 771.24456
6.388 361.1476	6.388 375.75383	6.388 767.50202
6.389 361.67742	6.389 373.76094	6.389 762.09486
6.39 361.87608	6.39 371.21232	6.39 756.30573
6.391 360.9402	6.391 367.80338	6.391 751.60071
6.392 358.35544	6.392 363.31073	6.392 749.13959
6.393 354.21705	6.393 357.88215	6.393 749.38011
6.394 349.39284	6.394 352.21	6.394 751.97465
6.395 345.33304	6.395 347.46084	6.395 755.96544
6.396 343.53403	6.396 344.92141	6.396 760.16323
6.397 344.90772	6.397 345.47411	6.397 763.50287
6.398 349.42177	6.398 349.15426	6.398 765.23973
6.399 356.14992	6.399 355.08788	6.399 764.98277
6.4 363.63928	6.4 361.89479	6.4 762.66248
6.401 370.34096	6.401 368.35496	6.401 758.54481
6.402 374.9604	6.402 373.90434	6.402 753.29084
6.403 376.75435	6.403 378.63277	6.403 747.95301
6.404 375.74986	6.404 382.84592	6.404 743.81496
6.405 372.82163	6.405 386.55196	6.405 742.046
6.406 369.50775	6.406 389.28309	6.406 743.28916
6.407 367.52525	6.407 390.39459	6.407 747.38967
6.408 368.14171	6.408 389.56146	6.408 753.40883
6.409 371.63055	6.409 387.1243	6.409 759.90136
6.41 377.07452	6.41 383.98235	6.41 765.34882
6.411 382.65004	6.411 381.19268	6.411 768.57205
6.412 386.35041	6.412 379.49208	6.412 768.99527
6.413 386.82235	6.413 379.04999	6.413 766.75554
6.414 383.90175	6.414 379.5098	6.414 762.62142
6.415 378.59984	6.415 380.27724	6.415 757.77524
6.416 372.56337	6.416 380.86266	6.416 753.4892
6.417 367.37478	6.417 381.13004	6.417 750.78503
6.418 364.12361	6.418 381.32825	6.418 750.18292
6.419 363.34406	6.419 381.91262	6.419 751.62272
6.42 365.17323	6.42 383.2468	6.42 754.56612
6.421 369.47286	6.421 385.38472	6.421 758.21739
6.422 375.78015	6.422 388.06822	6.422 761.78944
6.423 383.20311	6.423 390.92666	6.423 764.71663
6.424 390.41946	6.424 393.70567	6.424 766.77403

6.425 395.89507	6.425 396.33659	6.425 768.0603
6.426 398.31104	6.426 398.80526	6.426 768.85578
6.427 397.06345	6.427 400.92959	6.427 769.44964
6.428 392.62775	6.428 402.27269	6.428 770.0219
6.429 386.58405	6.429 402.25791	6.429 770.62409
6.43 381.13347	6.43 400.43263	6.43 771.24514
6.431 378.24137	6.431 396.74626	6.431 771.87927
6.432 378.77596	6.432 391.63811	6.432 772.51534
6.433 382.13979	6.433 385.94621	6.433 773.06033
6.434 386.60292	6.434 380.64636	6.434 773.30349
6.435 390.16939	6.435 376.58669	6.435 772.99886
6.436 391.4566	6.436 374.27352	6.436 772.05986
6.437 390.1533	6.437 373.80424	6.437 770.67978
6.438 386.92397	6.438 374.90355	6.438 769.22489
6.439 383.00747	6.439 377.04828	6.439 767.93444
6.44 379.77354	6.44 379.57553	6.44 766.6796
6.441 378.42504	6.441 381.76794	6.441 765.02157
6.442 379.76269	6.442 382.91671	6.442 762.53624
6.443 383.96281	6.443 382.43981	6.443 759.16391
6.444 390.44332	6.444 380.08921	6.444 755.28862
6.445 397.94685	6.445 376.17515	6.445 751.54774
6.446 404.94261	6.446 371.6743	6.446 748.59013
6.447 410.18204	6.447 368.10268	6.447 746.98525
6.448 413.13582	6.448 367.12118	6.448 747.28805
6.449 414.08112	6.449 369.95274	6.449 750.03358
6.45 413.81053	6.45 376.83209	6.45 755.53368
6.451 413.17771	6.451 386.72015	6.451 763.5424
6.452 412.73016	6.452 397.53192	6.452 773.05076
6.453 412.5869	6.453 406.80179	6.453 782.44168
6.454 412.56359	6.454 412.56441	6.454 790.0031
6.455 412.4384	6.455 413.98033	6.455 794.54072
6.456 412.15491	6.456 411.43102	6.456 795.77276
6.457 411.86851	6.457 406.10723	6.457 794.34021
6.458 411.83243	6.458 399.3752	6.458 791.45224
6.459 412.23605	6.459 392.31699	6.459 788.42591
6.46 413.11767	6.46 385.58614	6.46 786.29163
6.461 414.37888	6.461 379.56747	6.461 785.55898
6.462 415.84839	6.462 374.61756	6.462 786.16806
6.463 417.32137	6.463 371.21395	6.463 787.51884
6.464 418.52781	6.464 369.86793	6.464 788.61728
6.465 419.11048	6.465 370.87371	6.465 788.30553
6.466 418.6613	6.466 374.0615	6.466 785.60704
6.467 416.8254	6.467 378.79435	6.467 780.14031
6.468 413.44433	6.468 384.25182	6.468 772.43666
6.469 408.67003	6.469 389.80902	6.469 763.97248
6.47 403.02166	6.47 395.2206	6.47 756.78496
6.471 397.29503	6.471 400.42976	6.471 752.76917
6.472 392.37377	6.472 405.11525	6.472 752.9684
6.473 388.99352	6.473 408.42332	6.473 757.22192
6.474 387.57231	6.474 409.17416	6.474 764.33946
6.475 388.17447	6.475 406.52061	6.475 772.61354

6.476 390.57031	6.476 400.65367	6.476 780.38613
6.477 394.32156	6.477 393.00402	6.477 786.41184
6.478 398.82904	6.478 385.77881	6.478 789.97215
6.479 403.40009	6.479 381.04463	6.479 790.86362
6.48 407.3534	6.48 379.89744	6.48 789.37931
6.481 410.18378	6.481 382.12419	6.481 786.28709
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6.483 411.75601	6.483 391.45737	6.483 779.87318
6.484 410.6803	6.484 395.74579	6.484 778.64096
6.485 408.69277	6.485 398.77217	6.485 779.26821
6.486 406.1752	6.486 400.54035	6.486 781.29728
6.487 403.62638	6.487 401.33696	6.487 783.81086
6.488 401.59658	6.488 401.41027	6.488 785.85748
6.489 400.53249	6.489 400.84695	6.489 786.80333
6.49 400.59553	6.49 399.63627	6.49 786.48317
6.491 401.55866	6.491 397.78781	6.491 785.13468
6.492 402.8475	6.492 395.35664	6.492 783.23851
6.493 403.73871	6.493 392.39703	6.493 781.36503
6.494 403.69353	6.494 388.97247	6.494 780.02039
6.495 402.71549	6.495 385.26926	6.495 779.51142
6.496 401.52246	6.496 381.71696	6.496 779.88072
6.497 401.33845	6.497 378.98328	6.497 780.98356
6.498 403.31629	6.498 377.72431	6.498 782.66205
6.499 407.8496	6.499 378.28896	6.499 784.90282
6.5 414.21635	6.5 380.53881	6.5 787.85565
6.501 420.82048	6.501 383.91005	6.501 791.65374
6.502 425.9363	6.502 387.62928	6.502 796.20993
6.503 428.5178	6.503 390.91258	6.503 801.11912
6.504 428.55223	6.504 393.07398	6.504 805.75369
6.505 426.84496	6.505 393.55857	6.505 809.46983
6.506 424.39967	6.506 392.00354	6.506 811.79275
6.507 421.8697	6.507 388.30664	6.507 812.48198
6.508 419.35764	6.508 382.68964	6.508 811.50303
6.509 416.6132	6.509 375.69625	6.509 808.96159
6.51 413.39796	6.51 368.16393	6.51 805.05704
6.511 409.77781	6.511 361.17239	6.511 800.10226
6.512 406.19159	6.512 355.92522	6.512 794.53855
6.513 403.29469	6.513 353.51108	6.513 788.94725
6.514 401.66058	6.514 354.60919	6.514 784.01948
6.515 401.49739	6.515 359.24379	6.515 780.49813
6.516 402.52786	6.516 366.74791	6.516 779.0936
6.517 404.11204	6.517 375.92195	6.517 780.34521
6.518 405.56296	6.518 385.31897	6.518 784.38509
6.519 406.51176	6.519 393.55016	6.519 790.69662
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6.523 413.46318	6.523 401.09071	6.523 810.0059
6.524 418.63205	6.524 396.7656	6.524 808.01084
6.525 424.69605	6.525 390.33747	6.525 804.05033
6.526 430.39416	6.526 381.8937	6.526 799.61632

6.527 434.26576	6.527 371.89198	6.527 796.00757
6.528 435.10648	6.528 361.507	6.528 793.95534
6.529 432.40637	6.529 352.60548	6.529 793.53251
6.53 426.57585	6.53 347.29239	6.53 794.30618
6.531 418.91354	6.531 347.22465	6.531 795.61659
6.532 411.24288	6.532 353.01351	6.532 796.86708
6.533 405.37918	6.533 363.94371	6.533 797.69324
6.534 402.63464	6.534 378.11816	6.534 797.97328
6.535 403.55531	6.535 392.91834	6.535 797.7247
6.536 407.92185	6.536 405.67545	6.536 796.98671
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6.538 423.30681	6.538 418.12765	6.538 794.24005
6.539 431.66004	6.539 417.27726	6.539 792.5481
6.54 438.48602	6.54 413.09022	6.54 791.04438
6.541 442.52067	6.541 407.20262	6.541 790.01995
6.542 443.05651	6.542 401.0938	6.542 789.54552
6.543 440.19822	6.543 395.78491	6.543 789.40354
6.544 434.86267	6.544 391.79714	6.544 789.16077
6.545 428.4762	6.545 389.28703	6.545 788.36194
6.546 422.50199	6.546 388.15754	6.546 786.7171
6.547 418.04754	6.547 388.14748	6.547 784.22086
6.548 415.7076	6.548 388.85191	6.548 781.20381
6.549 415.6262	6.549 389.78125	6.549 778.29052
6.55 417.61351	6.55 390.51196	6.55 776.28162
6.551 421.20155	6.551 390.88121	6.551 775.93011
6.552 425.67807	6.552 391.14186	6.552 777.66356
6.553 430.17357	6.553 391.91199	6.553 781.37318
6.554 433.82838	6.554 393.89415	6.554 786.39572
6.555 436.03135	6.555 397.43904	6.555 791.72869
6.556 436.52643	6.556 402.1844	6.556 796.38184
6.557 435.39842	6.557 407.02963	6.557 799.7039
6.558 432.92754	6.558 410.50375	6.558 801.51991
6.559 429.44788	6.559 411.41238	6.559 802.04105
6.56 425.271	6.56 409.44851	6.56 801.65702
6.561 420.73401	6.561 405.41707	6.561 800.77102
6.562 416.30193	6.562 400.94762	6.562 799.79865
6.563 412.62161	6.563 397.86417	6.563 799.25501
6.564 410.45561	6.564 397.48415	6.564 799.78051
6.565 410.45835	6.565 400.20757	6.565 801.9766
6.566 412.87119	6.566 405.47033	6.566 806.09439
6.567 417.28419	6.567 412.02078	6.567 811.75323
6.568 422.63154	6.568 418.32991	6.568 817.90796
6.569 427.47362	6.569 422.98542	6.569 823.13661
6.57 430.4941	6.57 424.97808	6.57 826.17628
6.571 431.00265	6.571 423.88751	6.571 826.4305
6.572 429.18315	6.572 419.93381	6.572 824.20756
6.573 425.92937	6.573 413.95019	6.573 820.56722
6.574 422.35679	6.574 407.22062	6.574 816.84235
6.575 419.25871	6.575 401.18319	6.575 814.06501
6.576 416.81775	6.576 397.0795	6.576 812.56774
6.577 414.72199	6.577 395.65604	6.577 811.94329

6.578 412.56168	6.578 397.02762	6.578 811.36262
6.579 410.25597	6.579 400.74411	6.579 810.06622
6.58 408.2309	6.58 405.99158	6.58 807.7782
6.581 407.28484	6.581 411.82354	6.581 804.86256
6.582 408.17318	6.582 417.32569	6.582 802.14088
6.583 411.17615	6.583 421.7421	6.583 800.49002
6.584 415.8549	6.584 424.55721	6.584 800.43648
6.585 421.15473	6.585 425.56769	6.585 801.91858
6.586 425.79549	6.586 424.88087	6.586 804.35117
6.587 428.77465	6.587 422.83423	6.587 806.91202
6.588 429.72908	6.588 419.87691	6.588 808.90369
6.589 429.05368	6.589 416.50751	6.589 809.97923
6.59 427.77494	6.59 413.22365	6.59 810.17303
6.591 427.25756	6.591 410.46846	6.591 809.7819
6.592 428.81064	6.592 408.53417	6.592 809.26572
6.593 433.24868	6.593 407.47054	6.593 809.21338
6.594 440.51258	6.594 407.09213	6.594 810.33652
6.595 449.52491	6.595 407.10146	6.595 813.33031
6.596 458.42121	6.596 407.24659	6.596 818.61178
6.597 465.14063	6.597 407.37092	6.597 826.0324
6.598 468.16736	6.598 407.35217	6.598 834.80925
6.599 467.0648	6.599 407.01445	6.599 843.78042
6.6 462.56493	6.6 406.16923	6.6 851.8195
6.601 456.16671	6.601 404.80351	6.601 858.12825
6.602 449.47522	6.602 403.26853	6.602 862.22532
6.603 443.63209	6.603 402.33602	6.603 863.71529
6.604 439.05031	6.604 402.9843	6.604 862.1645
6.605 435.54673	6.605 406.01662	6.605 857.30719
6.606 432.74022	6.606 411.64175	6.606 849.49175
6.607 430.50027	6.607 419.24083	6.607 840.00808
6.608 429.15327	6.608 427.48252	6.608 830.91841
6.609 429.34694	6.609 434.7687	6.609 824.35842
6.61 431.60361	6.61 439.82767	6.61 821.68893
6.611 435.85464	6.611 442.14231	6.611 822.9558
6.612 441.29472	6.612 441.97341	6.612 826.95149
6.613 446.67579	6.613 440.00603	6.613 831.77943
6.614 450.84189	6.614 436.90751	6.614 835.60051
6.615 453.10727	6.615 433.15147	6.615 837.20203
6.616 453.28006	6.616 429.17164	6.616 836.26443
6.617 451.41958	6.617 425.63721	6.617 833.29438
6.618 447.6678	6.618 423.51624	6.618 829.37171
6.619 442.34914	6.619 423.77398	6.619 825.77959
6.62 436.24006	6.62 426.83637	6.62 823.59299
6.621 430.70486	6.621 432.17985	6.621 823.33966
6.622 427.45114	6.622 438.33372	6.622 824.83298
6.623 427.91569	6.623 443.37369	6.623 827.29683
6.624 432.62257	6.624 445.69039	6.624 829.73025
6.625 440.85371	6.625 444.63708	6.625 831.35408
6.626 450.85026	6.626 440.74239	6.626 831.9074
6.627 460.43283	6.627 435.44997	6.627 831.66045
6.628 467.73813	6.628 430.52207	6.628 831.20797

6.629 471.75478	6.629 427.42484	6.629 831.1995
6.63 472.48302	6.63 426.89789	6.63 832.12499
6.631 470.73959	6.631 428.82258	6.631 834.20848
6.632 467.71262	6.632 432.36866	6.632 837.38372
6.633 464.49897	6.633 436.34892	6.633 841.34945
6.634 461.72886	6.634 439.66947	6.634 845.70062
6.635 459.46756	6.635 441.70334	6.635 850.07968
6.636 457.34795	6.636 442.41799	6.636 854.20342
6.637 454.85137	6.637 442.2203	6.637 857.7413
6.638 451.57319	6.638 441.61896	6.638 860.15388
6.639 447.39181	6.639 440.9123	6.639 860.69044
6.64 442.54227	6.64 440.06511	6.64 858.67389
6.641 437.60435	6.641 438.81253	6.641 853.93922
6.642 433.40408	6.642 436.92157	6.642 847.18577
6.643 430.79191	6.643 434.43341	6.643 839.96069
6.644 430.34789	6.644 431.78011	6.644 834.26231
6.645 432.16312	6.645 429.68195	6.645 831.89733
6.646 435.83486	6.646 428.87959	6.646 833.84601
6.647 440.68399	6.647 429.83357	6.647 839.85202
6.648 446.03368	6.648 432.54121	6.648 848.42212
6.649 451.38635	6.649 436.5803	6.649 857.24896
6.65 456.44645	6.65 441.30061	6.65 863.92931
6.651 461.04997	6.651 446.06286	6.651 866.7392
6.652 465.13099	6.652 450.3972	6.652 865.18461
6.653 468.7368	6.653 454.06459	6.653 860.14575
6.654 472.05482	6.654 457.05046	6.654 853.53676
6.655 475.33126	6.655 459.49916	6.655 847.61709
6.656 478.72149	6.656 461.60049	6.656 844.17078
6.657 482.14343	6.657 463.43281	6.657 843.90928
6.658 485.2572	6.658 464.82868	6.658 846.30353
6.659 487.64309	6.659 465.35643	6.659 849.9274
6.66 489.02973	6.66 464.45477	6.66 853.09484
6.661 489.43356	6.661 461.70589	6.661 854.52714
6.662 489.07635	6.662 457.07971	6.662 853.76435
6.663 488.1701	6.663 451.03991	6.663 851.25924
6.664 486.74861	6.664 444.47029	6.664 848.16988
6.665 484.70621	6.665 438.46365	6.665 845.94309
6.666 481.98261	6.666 434.0769	6.666 845.79748
6.667 478.76145	6.667 432.13595	6.667 848.2663
6.668 475.50253	6.668 433.10389	6.668 852.99263
6.669 472.82636	6.669 436.98179	6.669 858.87575
6.67 471.33232	6.67 443.24971	6.67 864.51768
6.671 471.43626	6.671 450.88925	6.671 868.73241
6.672 473.27162	6.672 458.54993	6.672 870.90657
6.673 476.62261	6.673 464.83597	6.673 871.06595
6.674 480.93368	6.674 468.60876	6.674 869.77707
6.675 485.40965	6.675 469.23327	6.675 867.94418
6.676 489.20755	6.676 466.67064	6.676 866.58457
6.677 491.63376	6.677 461.46185	6.677 866.5428
6.678 492.29538	6.678 454.62492	6.678 868.18625
6.679 491.15921	6.679 447.43272	6.679 871.23564

6.68 488.58998	6.68 441.11989	6.68 874.86972
6.681 485.34308	6.681 436.54567	6.681 878.10899
6.682 482.44632	6.682 433.99118	6.682 880.25715
6.683 480.92635	6.683 433.18445	6.683 881.13906
6.684 481.41163	6.684 433.52538	6.684 881.02346
6.685 483.81369	6.685 434.36823	6.685 880.37693
6.686 487.28628	6.686 435.24664	6.686 879.65175
6.687 490.54215	6.687 436.01926	6.687 879.21127
6.688 492.39692	6.688 436.90381	6.688 879.31764
6.689 492.26772	6.689 438.37867	6.689 880.08476
6.69 490.37461	6.69 440.88469	6.69 881.37472
6.691 487.5663	6.691 444.45794	6.691 882.73376
6.692 484.8717	6.692 448.52453	6.692 883.47598
6.693 483.04946	6.693 452.04242	6.693 882.9336
6.694 482.33423	6.694 453.9638	6.694 880.76566
6.695 482.48285	6.695 453.75464	6.695 877.1937
6.696 483.03731	6.696 451.62642	6.696 873.0362
6.697 483.59072	6.697 448.3881	6.697 869.50857
6.698 483.91588	6.698 445.02035	6.698 867.82598
6.699 483.89468	6.699 442.28542	6.699 868.75554
6.7 483.39731	6.7 440.54181	6.7 872.33375
6.701 482.27014	6.701 439.85903	6.701 877.85324
6.702 480.48004	6.702 440.25459	6.702 884.14886
6.703 478.30124	6.703 441.84939	6.703 889.99304
6.704 476.35279	6.704 444.83332	6.704 894.40091
6.705 475.36298	6.705 449.19355	6.705 896.72806
6.706 475.78013	6.706 454.48991	6.706 896.66363
6.707 477.49352	6.707 459.79757	6.707 894.22714
6.708 479.83737	6.708 463.93711	6.708 889.86173
6.709 481.92409	6.709 465.85482	6.709 884.49568
6.71 483.07476	6.71 464.91375	6.71 879.43275
6.711 483.10588	6.711 461.00061	6.711 875.98297
6.712 482.31364	6.712 454.46668	6.712 874.95378
6.713 481.22888	6.713 446.05706	6.713 876.26779
6.714 480.34174	6.714 436.85752	6.714 878.96454
6.715 479.96197	6.715 428.23011	6.715 881.62724
6.716 480.25681	6.716 421.58977	6.716 883.04621
6.717 481.35839	6.717 418.05474	6.717 882.75236
6.718 483.38483	6.718 418.13796	6.718 881.16351
6.719 486.30617	6.719 421.6085	6.719 879.31612
6.72 489.7741	6.72 427.60887	6.72 878.39565
6.721 493.08289	6.721 434.93862	6.721 879.29947
6.722 495.37143	6.722 442.31943	6.722 882.38711
6.723 495.99581	6.723 448.59092	6.723 887.42522
6.724 494.8639	6.724 452.82371	6.724 893.66819
6.725 492.56651	6.725 454.41614	6.725 900.05683
6.726 490.20167	6.726 453.21823	6.726 905.52711
6.727 488.99447	6.727 449.64856	6.727 909.31395
6.728 489.84604	6.728 444.72695	6.728 911.13986
6.729 492.97777	6.729 439.89056	6.729 911.18148
6.73 497.80546	6.73 436.63142	6.73 909.87074

6.731 503.07412	6.731 436.04836	6.731 907.66904
6.732 507.2169	6.732 438.5679	6.732 904.98301
6.733 508.8692	6.733 443.89112	6.733 902.2324
6.734 507.3793	6.734 451.15035	6.734 899.94913
6.735 503.1421	6.735 459.15661	6.735 898.74611
6.736 497.56938	6.736 466.62984	6.736 899.10444
6.737 492.60969	6.737 472.42796	6.737 901.11152
6.738 489.96905	6.738 475.78867	6.738 904.3304
6.739 490.37226	6.739 476.53211	6.739 907.92921
6.74 493.27957	6.74 475.11289	6.74 910.98051
6.741 497.20322	6.741 472.4537	6.741 912.74082
6.742 500.4255	6.742 469.61115	6.742 912.80604
6.743 501.71331	6.743 467.40302	6.743 911.15577
6.744 500.70362	6.744 466.17339	6.744 908.18249
6.745 497.83235	6.745 465.74734	6.745 904.71009
6.746 493.9897	6.746 465.56122	6.746 901.90996
6.747 490.08391	6.747 464.93403	6.747 900.95482
6.748 486.71816	6.748 463.34921	6.748 902.50819
6.749 484.08244	6.749 460.6945	6.749 906.29056
6.75 482.0295	6.75 457.33842	6.75 911.0275
6.751 480.32345	6.751 454.00806	6.751 914.89371
6.752 478.90599	6.752 451.53927	6.752 916.27108
6.753 478.07847	6.753 450.57068	6.753 914.46024
6.754 478.47801	6.754 451.32346	6.754 910.01703
6.755 480.80827	6.755 453.57807	6.755 904.56327
6.756 485.43951	6.756 456.78865	6.756 900.16508
6.757 492.05933	6.757 460.3219	6.757 898.57304
6.758 499.56181	6.758 463.68835	6.758 900.63162
6.759 506.28357	6.759 466.66393	6.759 906.08098
6.76 510.54126	6.76 469.24873	6.76 913.76105
6.761 511.28721	6.761 471.51962	6.761 922.07003
6.762 508.56553	6.762 473.48512	6.762 929.46972
6.763 503.49598	6.763 475.03464	6.763 934.84158
6.764 497.75348	6.764 476.02848	6.764 937.66686
6.765 492.81358	6.765 476.4537	6.765 938.02937
6.766 489.42095	6.766 476.53767	6.766 936.48745
6.767 487.56605	6.767 476.70375	6.767 933.84106
6.768 486.87771	6.768 477.37585	6.768 930.86967
6.769 487.06646	6.769 478.71404	6.769 928.13785
6.77 488.08221	6.77 480.47658	6.77 925.94799
6.771 489.9442	6.771 482.14495	6.771 924.43181
6.772 492.46358	6.772 483.25034	6.772 923.67389
6.773 495.1313	6.773 483.68944	6.773 923.73681
6.774 497.23891	6.774 483.76641	6.774 924.5825
6.775 498.16287	6.775 483.92401	6.775 925.98373
6.776 497.60626	6.776 484.37347	6.776 927.53564
6.777 495.73516	6.777 484.91089	6.777 928.82077
6.778 493.15416	6.778 485.09119	6.778 929.62192
6.779 490.74557	6.779 484.5867	6.779 930.04413
6.78 489.44857	6.78 483.39065	6.78 930.4142
6.781 490.02051	6.781 481.7865	6.781 931.03382

6.782 492.87468	6.782 480.09373	6.782 931.9167
6.783 497.99454	6.783 478.47143	6.783 932.69918
6.784 504.91092	6.784 476.91367	6.784 932.80358
6.785 512.70012	6.785 475.38796	6.785 931.8068
6.786 520.02229	6.786 473.96265	6.786 929.80483
6.787 525.30081	6.787 472.8126	6.787 927.54532
6.788 527.07187	6.788 472.10594	6.788 926.17918
6.789 524.48475	6.789 471.88484	6.789 926.69927
6.79 517.72317	6.79 472.03586	6.79 929.39954
6.791 508.14614	6.791 472.35878	6.791 933.66525
6.792 498.00561	6.792 472.69196	6.792 938.22488
6.793 489.81532	6.793 472.96052	6.793 941.71252
6.794 485.60677	6.794 473.14035	6.794 943.18802
6.795 486.35697	6.795 473.17597	6.795 942.35803
6.796 491.76261	6.796 472.95443	6.796 939.46002
6.797 500.41219	6.797 472.39477	6.797 934.97554
6.798 510.23293	6.798 471.56815	6.798 929.3868
6.799 519.07758	6.799 470.74347	6.799 923.10492
6.8 525.27465	6.8 470.3208	6.8 916.58922
6.801 527.98297	6.801 470.65747	6.801 910.52647
6.802 527.28042	6.802 471.92718	6.802 905.89845
6.803 523.99268	6.803 474.04314	6.803 903.81241
6.804 519.43851	6.804 476.68344	6.804 905.13657
6.805 515.15902	6.805 479.43616	6.805 910.12546
6.806 512.69098	6.806 481.98946	6.806 918.21387
6.807 513.23721	6.807 484.27141	6.807 928.1137
6.808 517.24245	6.808 486.43788	6.808 938.15245
6.809 524.00256	6.809 488.69001	6.809 946.71973
6.81 531.65693	6.81 491.06172	6.81 952.66949
6.811 537.73939	6.811 493.35813	6.811 955.53891
6.812 540.10883	6.812 495.28349	6.812 955.53267
6.813 537.79557	6.813 496.65336	6.813 953.3273
6.814 531.31199	6.814 497.47671	6.814 949.7728
6.815 522.31893	6.815 497.80177	6.815 945.66926
6.816 512.88978	6.816 497.47508	6.816 941.65922
6.817 504.80686	6.817 496.06038	6.817 938.22604
6.818 499.15364	6.818 493.07133	6.818 935.70953
6.819 496.27729	6.819 488.41076	6.819 934.30325
6.82 495.94143	6.82 482.73217	6.82 934.03451
6.821 497.53803	6.821 477.43442	6.821 934.77608
6.822 500.29223	6.822 474.20066	6.822 936.33956
6.823 503.45339	6.823 474.31895	6.823 938.62515
6.824 506.48283	6.824 478.09055	6.824 941.74922
6.825 509.17372	6.825 484.66368	6.825 945.99944
6.826 511.67683	6.826 492.38367	6.826 951.61478
6.827 514.37019	6.827 499.42162	6.827 958.4329
6.828 517.64604	6.828 504.3862	6.828 965.64749
6.829 521.64669	6.829 506.66133	6.829 971.86221
6.83 526.09992	6.83 506.38577	6.83 975.51509
6.831 530.3134	6.831 504.21328	6.831 975.50238
6.832 533.38409	6.832 501.03039	6.832 971.69314

6.833 534.52813	6.833 497.74419	6.833 965.08547
6.834 533.40967	6.834 495.17113	6.834 957.5112
6.835 530.30813	6.835 493.92116	6.835 951.0163
6.836 526.08993	6.836 494.25665	6.836 947.24597
6.837 522.04181	6.837 495.98235	6.837 947.00452
6.838 519.61089	6.838 498.43048	6.838 950.15675
6.839 520.06071	6.839 500.61665	6.839 955.79691
6.84 524.06409	6.84 501.56876	6.84 962.54914
6.841 531.33071	6.841 500.74377	6.841 968.91447
6.842 540.48724	6.842 498.4059	6.842 973.57415
6.843 549.36397	6.843 495.73137	6.843 975.61659
6.844 555.66232	6.844 494.50214	6.844 974.64277
6.845 557.76224	6.845 496.39657	6.845 970.75664
6.846 555.27045	6.846 502.17787	6.846 964.50138
6.847 549.09676	6.847 511.21403	6.847 956.76829
6.848 541.06575	6.848 521.58355	6.848 948.68516
6.849 533.29807	6.849 530.76515	6.849 941.41679
6.85 527.61411	6.85 536.47695	6.85 935.89957
6.851 525.10991	6.851 537.30417	6.851 932.60394
6.852 525.96626	6.852 532.97894	6.852 931.48895
6.853 529.4929	6.853 524.35677	6.853 932.17485
6.854 534.37894	6.854 513.24192	6.854 934.23946
6.855 539.07927	6.855 502.02008	6.855 937.43184
6.856 542.22676	6.856 493.10199	6.856 941.69108
6.857 542.98731	6.857 488.25567	6.857 946.99674
6.858 541.26495	6.858 488.10054	6.858 953.1501
6.859 537.75881	6.859 492.01057	6.859 959.62188
6.86 533.85889	6.86 498.52095	6.86 965.52321
6.861 531.3475	6.861 505.95073	6.861 969.721
6.862 531.84533	6.862 512.92274	6.862 971.15342
6.863 536.1339	6.863 518.53666	6.863 969.22209
6.864 543.63154	6.864 522.20343	6.864 964.15352
6.865 552.3887	6.865 523.44367	6.865 957.10627
6.866 559.74318	6.866 521.85507	6.866 949.92993
6.867 563.40683	6.867 517.36532	6.867 944.61701
6.868 562.43406	6.868 510.59616	6.868 942.64948
6.869 557.54404	6.869 502.97651	6.869 944.54074
6.87 550.63296	6.87 496.43908	6.87 949.76007
6.871 543.81379	6.871 492.7558	6.871 957.05834
6.872 538.54664	6.872 492.87167	6.872 965.01164
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7.174 631.11605	7.174 611.59865	7.174 1100.8928
7.175 634.7342	7.175 613.05489	7.175 1106.2714
7.176 641.36857	7.176 618.39626	7.176 1114.4041
7.177 650.05884	7.177 627.06499	7.177 1123.1682
7.178 659.37831	7.178 637.8025	7.178 1130.4885
7.179 667.72392	7.179 649.04327	7.179 1135.1599
7.18 673.68781	7.18 659.3188	7.18 1137.222
7.181 676.4339	7.181 667.48501	7.181 1137.6768
7.182 675.91419	7.182 672.79518	7.182 1137.7231
7.183 672.82332	7.183 674.92189	7.183 1137.9793
7.184 668.29904	7.184 673.98769	7.184 1138.1366
7.185 663.47699	7.185 670.57229	7.185 1137.252
7.186 659.14451	7.186 665.59589	7.186 1134.4638
7.187 655.67338	7.187 660.0691	7.187 1129.7161
7.188 653.19506	7.188 654.84683	7.188 1124.0546
7.189 651.84341	7.189 650.46849	7.189 1119.2983

7.19 651.82222	7.19 647.15636	7.19 1117.2616
7.191 653.28855	7.191 644.90086	7.191 1118.906
7.192 656.10693	7.192 643.55991	7.192 1123.8769
7.193 659.74784	7.193 642.92289	7.193 1130.658
7.194 663.3628	7.194 642.75179	7.194 1137.267
7.195 666.04122	7.195 642.81925	7.195 1142.1175
7.196 667.07677	7.196 642.94415	7.196 1144.6064
7.197 666.15371	7.197 643.05466	7.197 1145.1565
7.198 663.38598	7.198 643.2127	7.198 1144.8172
7.199 659.25517	7.199 643.6063	7.199 1144.7271
7.2 654.4634	7.2 644.47132	7.2 1145.7154
7.201 649.79013	7.201 645.93638	7.201 1148.1254
7.202 645.95035	7.202 647.86849	7.202 1151.7467
7.203 643.47943	7.203 649.78971	7.203 1155.8349
7.204 642.62309	7.204 651.01586	7.204 1159.2587
7.205 643.27158	7.205 650.95592	7.205 1160.8631
7.206 645.00073	7.206 649.47335	7.206 1159.9431
7.207 647.23637	7.207 647.08872	7.207 1156.5496
7.208 649.52153	7.208 644.89167	7.208 1151.4392
7.209 651.67608	7.209 644.16189	7.209 1145.7414
7.21 653.79994	7.21 645.82103	7.21 1140.5887
7.211 656.04886	7.211 649.92355	7.211 1136.9786
7.212 658.36087	7.212 655.43233	7.212 1135.7743
7.213 660.33559	7.213 660.44944	7.213 1137.6446
7.214 661.37096	7.214 662.9169	7.214 1142.7853
7.215 661.00566	7.215 661.49187	7.215 1150.5654
7.216 659.24953	7.216 656.17761	7.216 1159.4119
7.217 656.69368	7.217 648.37097	7.217 1167.1156
7.218 654.2676	7.218 640.31907	7.218 1171.4967
7.219 652.78393	7.219 634.27402	7.219 1171.1506
7.22 652.54359	7.22 631.79233	7.22 1165.9347
7.221 653.26886	7.221 633.39086	7.221 1157.008
7.222 654.40962	7.222 638.61446	7.222 1146.4617
7.223 655.58845	7.223 646.32658	7.223 1136.7085
7.224 656.83572	7.224 655.03062	7.224 1129.8427
7.225 658.47352	7.225 663.14479	7.225 1127.1742
7.226 660.75416	7.226 669.18253	7.226 1128.9955
7.227 663.59616	7.227 671.90159	7.227 1134.6542
7.228 666.59078	7.228 670.49107	7.228 1142.8356
7.229 669.28548	7.229 664.78522	7.229 1151.9663
7.23 671.47665	7.23 655.45955	7.23 1160.5712
7.231 673.33604	7.231 644.06194	7.231 1167.476
7.232 675.27334	7.232 632.76005	7.232 1171.8821
7.233 677.65327	7.233 623.79917	7.233 1173.4061
7.234 680.56674	7.234 618.83041	7.234 1172.16
7.235 683.76482	7.235 618.37856	7.235 1168.8201
7.236 686.80592	7.236 621.71473	7.236 1164.5111
7.237 689.32358	7.237 627.22267	7.237 1160.4625
7.238 691.27144	7.238 633.08608	7.238 1157.5716
7.239 693.02635	7.239 637.95552	7.239 1156.1281
7.24 695.25226	7.24 641.29105	7.24 1155.868

7.241 698.54426	7.241 643.29228	7.241 1156.2995
7.242 703.03044	7.242 644.56838	7.242 1157.0215
7.243 708.14382	7.243 645.7522	7.243 1157.8751
7.244 712.74914	7.244 647.27242	7.244 1158.8686
7.245 715.58754	7.245 649.22699	7.245 1160.0427
7.246 715.81603	7.246 651.3329	7.246 1161.3905
7.247 713.32221	7.247 652.90994	7.247 1162.8409
7.248 708.68383	7.248 653.03703	7.248 1164.2588
7.249 702.84116	7.249 650.92825	7.249 1165.4506
7.25 696.71195	7.25 646.43448	7.25 1166.1835
7.251 691.00226	7.251 640.35869	7.251 1166.2754
7.252 686.23319	7.252 634.32014	7.252 1165.7005
7.253 682.8869	7.253 630.15595	7.253 1164.6788
7.254 681.43448	7.254 629.1677	7.254 1163.6686
7.255 682.19142	7.255 631.59997	7.255 1163.2466
7.256 685.06396	7.256 636.61101	7.256 1163.9268
7.257 689.43772	7.257 642.7245	7.257 1165.9355
7.258 694.31015	7.258 648.47393	7.258 1169.0795
7.259 698.64725	7.259 652.93469	7.259 1172.7746
7.26 701.7507	7.26 655.93523	7.26 1176.2377
7.261 703.44746	7.261 657.89084	7.261 1178.774
7.262 704.02306	7.262 659.42965	7.262 1180.0328
7.263 704.00776	7.263 660.99298	7.263 1180.1082
7.264 703.96515	7.264 662.60076	7.264 1179.5122
7.265 704.38706	7.265 663.82124	7.265 1178.9928
7.266 705.66071	7.266 663.9515	7.266 1179.2655
7.267 708.01447	7.267 662.35905	7.267 1180.7305
7.268 711.4278	7.268 658.86389	7.268 1183.2524
7.269 715.53458	7.269 653.98388	7.269 1186.1793
7.27 719.63335	7.27 648.86201	7.27 1188.5916
7.271 722.82917	7.271 644.80795	7.271 1189.6925
7.272 724.27877	7.272 642.68188	7.272 1189.1178
7.273 723.44661	7.273 642.48997	7.273 1187.0414
7.274 720.29173	7.274 643.4244	7.274 1184.0537
7.275 715.33557	7.275 644.31521	7.275 1180.9188
7.276 709.53703	7.276 644.17934	7.276 1178.3058
7.277 704.01412	7.277 642.54895	7.277 1176.5709
7.278 699.67278	7.278 639.51491	7.278 1175.6518
7.279 696.92504	7.279 635.62398	7.279 1175.1496
7.28 695.64271	7.28 631.78405	7.28 1174.6151
7.281 695.39764	7.281 629.16664	7.281 1173.8966
7.282 695.82538	7.282 628.96566	7.282 1173.3552
7.283 696.88357	7.283 631.94692	7.283 1173.7327
7.284 698.83411	7.284 637.98368	7.284 1175.7436
7.285 701.98499	7.285 645.89024	7.285 1179.6361
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7.287 711.49201	7.287 659.91757	7.287 1190.8792
7.288 716.44814	7.288 663.18151	7.288 1196.2085
7.289 720.08003	7.289 663.62483	7.289 1200.0769
7.29 721.40194	7.29 662.11888	7.29 1201.8643
7.291 719.9573	7.291 659.85583	7.291 1201.1313

7.292 716.02228	7.292 657.85099	7.292 1197.5201
7.293 710.5728	7.293 656.71098	7.293 1190.8651
7.294 705.02	7.294 656.63965	7.294 1181.4863
7.295 700.78313	7.295 657.57789	7.295 1170.4744
7.296 698.83939	7.296 659.34028	7.296 1159.6881
7.297 699.40932	7.297 661.68943	7.297 1151.3898
7.298 701.89715	7.298 664.35394	7.298 1147.6324
7.299 705.17812	7.299 667.06826	7.299 1149.6502
7.3 708.13167	7.3 669.58285	7.3 1157.5035
7.301 710.1474	7.301 671.6907	7.301 1170.0421
7.302 711.30197	7.302 673.21529	7.302 1185.1835
7.303 712.11228	7.303 673.99454	7.303 1200.3872
7.304 713.04986	7.304 673.88266	7.304 1213.2067
7.305 714.17303	7.305 672.80821	7.305 1221.7696
7.306 715.11408	7.306 670.83842	7.306 1225.0755
7.307 715.4082	7.307 668.22043	7.307 1223.0512
7.308 714.91261	7.308 665.36068	7.308 1216.396
7.309 714.03518	7.309 662.71315	7.309 1206.3319
7.31 713.60316	7.31 660.67742	7.31 1194.3594
7.311 714.46603	7.311 659.53444	7.311 1182.0901
7.312 717.01172	7.312 659.48548	7.312 1171.1471
7.313 720.86016	7.313 660.70063	7.313 1163.0518
7.314 724.85214	7.314 663.29069	7.314 1159.0534
7.315 727.34463	7.315 667.19219	7.315 1159.8977
7.316 726.72582	7.316 672.00856	7.316 1165.6107
7.317 722.0133	7.317 676.97866	7.317 1175.3704
7.318 713.34683	7.318 681.13566	7.318 1187.5873
7.319 702.17433	7.319 683.58826	7.319 1200.1949
7.32 690.97964	7.32 683.78143	7.32 1211.0859
7.321 682.5426	7.321 681.6338	7.321 1218.5933
7.322 678.99143	7.322 677.53889	7.322 1221.866
7.323 681.08963	7.323 672.29343	7.323 1221.0364
7.324 688.07892	7.324 666.96242	7.324 1217.127
7.325 698.10872	7.325 662.70021	7.325 1211.7121
7.326 708.96483	7.326 660.48291	7.326 1206.438
7.327 718.71491	7.327 660.84059	7.327 1202.5286
7.328 726.08026	7.328 663.68365	7.328 1200.4411
7.329 730.53161	7.329 668.3249	7.329 1199.7981
7.33 732.22212	7.33 673.71079	7.33 1199.6427
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7.332 730.17819	7.332 682.48312	7.332 1197.0504
7.333 728.13681	7.333 684.39186	7.333 1194.1234
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7.336 722.89208	7.336 678.5441	7.336 1187.3629
7.337 721.66816	7.337 674.23368	7.337 1187.9422
7.338 721.04755	7.338 670.07708	7.338 1189.8445
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7.34 723.03683	7.34 664.94542	7.34 1195.527
7.341 725.796	7.341 664.51329	7.341 1198.4987
7.342 729.21145	7.342 665.45182	7.342 1201.3305

7.343 732.53926	7.343 667.66375	7.343 1204.0244
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7.345 735.9458	7.345 675.44576	7.345 1209.0829
7.346 735.18644	7.346 680.18714	7.346 1211.1495
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7.348 730.10364	7.348 686.45469	7.348 1211.9683
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7.35 725.65931	7.35 682.0096	7.35 1205.9118
7.351 724.92032	7.351 675.8752	7.351 1201.3015
7.352 724.81645	7.352 668.96933	7.352 1197.2221
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7.354 724.3304	7.354 660.43381	7.354 1195.0888
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7.356 723.16666	7.356 665.80669	7.356 1202.4612
7.357 723.40301	7.357 672.68197	7.357 1208.1845
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7.359 727.00226	7.359 687.69748	7.359 1219.4088
7.36 730.2211	7.36 693.42483	7.36 1223.9375
7.361 734.16593	7.361 697.14719	7.361 1227.6333
7.362 738.73146	7.362 698.76755	7.362 1230.5763
7.363 743.75721	7.363 698.44852	7.363 1232.709
7.364 748.85979	7.364 696.55376	7.364 1233.759
7.365 753.3512	7.365 693.65577	7.365 1233.4015
7.366 756.38581	7.366 690.50741	7.366 1231.5023
7.367 757.26437	7.367 687.91956	7.367 1228.3192
7.368 755.74919	7.368 686.56231	7.368 1224.5297
7.369 752.2224	7.369 686.75176	7.369 1221.087
7.37 747.63962	7.37 688.32261	7.37 1218.9979
7.371 743.27965	7.371 690.62173	7.371 1219.0637
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7.373 739.68844	7.373 693.43586	7.373 1226.3662
7.374 741.23429	7.374 692.28941	7.374 1232.3911
7.375 744.2087	7.375 689.22793	7.375 1238.417
7.376 747.29109	7.376 684.9734	7.376 1243.2262
7.377 749.17361	7.377 680.71618	7.377 1246.0209
7.378 749.1078	7.378 677.69698	7.378 1246.5737
7.379 747.2275	7.379 676.80874	7.379 1245.1404
7.38 744.48776	7.38 678.38102	7.38 1242.2799
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7.382 741.61328	7.382 687.54957	7.382 1235.4265
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7.401 766.46014	7.401 707.33599	7.401 1252.6701
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7.428 778.16198	7.428 753.87826	7.428 1218.8553
7.429 779.77535	7.429 758.16743	7.429 1225.4377
7.43 779.68676	7.43 760.42948	7.43 1234.7456
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7.458 768.84817	7.458 753.34217	7.458 1247.4212
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7.464 801.15526	7.464 764.18996	7.464 1292.5821
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7.467 799.0269	7.467 746.80401	7.467 1282.2981
7.468 794.14901	7.468 741.6575	7.468 1274.0192
7.469 789.67626	7.469 737.60125	7.469 1265.4939
7.47 786.99843	7.47 734.20145	7.47 1258.572
7.471 786.86686	7.471 730.92744	7.471 1254.7626
7.472 789.20864	7.472 727.64508	7.472 1254.7274
7.473 793.20063	7.473 724.83743	7.473 1258.0949
7.474 797.56996	7.474 723.48107	7.474 1263.714
7.475 801.1083	7.475 724.6399	7.475 1270.2366
7.476 803.16979	7.476 729.01006	7.476 1276.721
7.477 803.93044	7.477 736.57049	7.477 1282.9261
7.478 804.20958	7.478 746.48586	7.478 1289.1507
7.479 804.90479	7.479 757.26286	7.479 1295.725
7.48 806.3767	7.48 767.14902	7.48 1302.4434
7.481 808.18908	7.481 774.58582	7.481 1308.3022
7.482 809.39021	7.482 778.59031	7.482 1311.7138
7.483 809.15365	7.483 778.94166	7.483 1311.1538
7.484 807.31792	7.484 776.18051	7.484 1305.9161
7.485 804.47389	7.485 771.47885	7.485 1296.5715
7.486 801.54675	7.486 766.41146	7.486 1284.9154
7.487 799.24203	7.487 762.63942	7.487 1273.4139
7.488 797.75031	7.488 761.47189	7.488 1264.4491
7.489 796.87644	7.489 763.4226	7.489 1259.6774
7.49 796.4048	7.49 767.9549	7.49 1259.6602
7.491 796.36122	7.491 773.59638	7.491 1263.8033
7.492 796.97023	7.492 778.46797	7.492 1270.5691
7.493 798.40804	7.493 780.99604	7.493 1277.9127
7.494 800.60186	7.494 780.4873	7.494 1283.8597
7.495 803.23776	7.495 777.28943	7.495 1287.0601

7.496 805.91584	7.496 772.50262	7.496 1287.115
7.497 808.30816	7.497 767.40705	7.497 1284.5697
7.498 810.18937	7.498 762.9111	7.498 1280.6122
7.499 811.3904	7.499 759.27029	7.499 1276.6455
7.5 811.75987	7.5 756.23374	7.5 1273.8997
7.501 811.1816	7.501 753.48492	7.501 1273.176
7.502 809.63823	7.502 751.08546	7.502 1274.7309
7.503 807.29161	7.503 749.61115	7.503 1278.2447
7.504 804.54273	7.504 749.89264	7.504 1282.8985
7.505 802.00944	7.505 752.51152	7.505 1287.5325
7.506 800.41782	7.506 757.41437	7.506 1290.9492
7.507 800.37294	7.507 763.88707	7.507 1292.2933
7.508 802.09442	7.508 770.87248	7.508 1291.4367
7.509 805.24294	7.509 777.43325	7.509 1289.1162
7.51 808.98541	7.51 783.05911	7.51 1286.7189
7.511 812.31064	7.511 787.67743	7.511 1285.7553
7.512 814.4919	7.512 791.43092	7.512 1287.2975
7.513 815.44776	7.513 794.41673	7.513 1291.6453
7.514 815.78935	7.514 796.56431	7.514 1298.3366
7.515 816.47914	7.515 797.71537	7.515 1306.3672
7.516 818.25879	7.516 797.81402	7.516 1314.4629
7.517 821.16995	7.517 797.00758	7.517 1321.3251
7.518 824.47852	7.518 795.61457	7.518 1325.8823
7.519 827.08668	7.519 793.9785	7.519 1327.5567
7.52 828.16888	7.52 792.36755	7.52 1326.4066
7.521 827.66771	7.521 791.00605	7.521 1323.0259
7.522 826.34949	7.522 790.19	7.522 1318.1915
7.523 825.42796	7.523 790.36464	7.523 1312.507
7.524 826.00368	7.524 792.05458	7.524 1306.278
7.525 828.62568	7.525 795.61654	7.525 1299.6811
7.526 833.15648	7.526 800.95967	7.526 1293.077
7.527 838.91105	7.527 807.39245	7.527 1287.242
7.528 844.95862	7.528 813.69791	7.528 1283.3621
7.529 850.43117	7.529 818.43357	7.529 1282.7742
7.53 854.72702	7.53 820.37011	7.53 1286.5444
7.531 857.54594	7.531 818.88644	7.531 1294.9744
7.532 858.81476	7.532 814.17183	7.532 1307.2669
7.533 858.57093	7.533 807.17607	7.533 1321.5218
7.534 856.8968	7.534 799.26004	7.534 1335.1619
7.535 853.93807	7.535 791.73369	7.535 1345.6388
7.536 849.99675	7.536 785.45395	7.536 1351.1542
7.537 845.59652	7.537 780.70085	7.537 1351.1142
7.538 841.47067	7.538 777.3312	7.538 1346.2053
7.539 838.38606	7.539 775.11222	7.539 1338.1025
7.54 836.86256	7.54 773.97439	7.54 1328.9152
7.541 836.92509	7.541 774.08227	7.541 1320.5271
7.542 838.07387	7.542 775.74016	7.542 1314.047
7.543 839.49344	7.543 779.22609	7.543 1309.59
7.544 840.40106	7.544 784.6264	7.544 1306.4801
7.545 840.3397	7.545 791.65375	7.545 1303.7813
7.546 839.28403	7.546 799.48791	7.546 1300.8773

7.547 837.59072	7.547 806.79896	7.547 1297.828
7.548 835.87616	7.548 812.07006	7.548 1295.3487
7.549 834.83655	7.549 814.18305	7.549 1294.4557
7.55 834.99862	7.55 812.95548	7.55 1295.981
7.551 836.45682	7.551 809.2697	7.551 1300.1915
7.552 838.69556	7.552 804.67189	7.552 1306.6741
7.553 840.6931	7.553 800.67771	7.553 1314.495
7.554 841.31954	7.554 798.23038	7.554 1322.4908
7.555 839.9222	7.555 797.5733	7.555 1329.535
7.556 836.795	7.556 798.49911	7.556 1334.7029
7.557 833.23993	7.557 800.65767	7.557 1337.3428
7.558 831.13477	7.558 803.68313	7.558 1337.1498
7.559 832.10884	7.559 807.12206	7.559 1334.2861
7.56 836.73047	7.56 810.33541	7.56 1329.4764
7.561 844.08559	7.561 812.54819	7.561 1323.9553
7.562 851.99944	7.562 813.07028	7.562 1319.2127
7.563 857.81692	7.563 811.55341	7.563 1316.5661
7.564 859.3908	7.564 808.10717	7.564 1316.7236
7.565 855.83863	7.565 803.25565	7.565 1319.5816
7.566 847.78723	7.566 797.77441	7.566 1324.306
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7.568 826.28294	7.568 788.32897	7.568 1334.4971
7.569 817.93854	7.569 785.78067	7.569 1337.9281
7.57 814.18883	7.57 785.11402	7.57 1339.601
7.571 816.28062	7.571 786.08233	7.571 1339.6134
7.572 824.2027	7.572 788.00914	7.572 1338.4036
7.573 836.46761	7.573 790.03918	7.573 1336.6018
7.574 850.24007	7.574 791.45443	7.574 1334.8582
7.575 861.95711	7.575 791.92912	7.575 1333.6824
7.576 868.35578	7.576 791.58743	7.576 1333.3277
7.577 867.59201	7.577 790.87621	7.577 1333.7396
7.578 859.94863	7.578 790.3507	7.578 1334.5839
7.579 847.80432	7.579 790.45141	7.579 1335.3283
7.58 834.83871	7.58 791.40101	7.58 1335.3831
7.581 824.79836	7.581 793.19946	7.581 1334.2761
7.582 820.33529	7.582 795.68614	7.582 1331.8416
7.583 822.32641	7.583 798.57184	7.583 1328.3269
7.584 829.87607	7.584 801.48046	7.584 1324.3837
7.585 840.82323	7.585 804.04997	7.585 1320.9265
7.586 852.50619	7.586 806.11564	7.586 1318.9239
7.587 862.46631	7.587 807.87704	7.587 1319.1664
7.588 868.92106	7.588 809.86202	7.588 1322.0575
7.589 871.00288	7.589 812.62852	7.589 1327.4928
7.59 868.81223	7.59 816.35036	7.59 1334.8428
7.591 863.33545	7.591 820.58436	7.591 1343.1498
7.592 856.22327	7.592 824.43633	7.592 1351.4723
7.593 849.40312	7.593 827.04441	7.593 1359.2659
7.594 844.58834	7.594 828.05044	7.594 1366.517
7.595 842.85031	7.595 827.73867	7.595 1373.5006
7.596 844.38164	7.596 826.76044	7.596 1380.2513
7.597 848.54953	7.597 825.67625	7.597 1386.1577

7.598 854.14603	7.598 824.66503	7.598 1390.0219
7.599 859.73053	7.599 823.61222	7.599 1390.6608
7.6 863.94915	7.6 822.40185	7.6 1387.6771
7.601 865.79982	7.601 821.12473	7.601 1381.8916
7.602 864.81392	7.602 819.98227	7.602 1375.1492
7.603 861.18349	7.603 818.98942	7.603 1369.5716
7.604 855.77367	7.604 817.81704	7.604 1366.7005
7.605 849.93819	7.605 815.96375	7.605 1366.9485
7.606 845.17141	7.606 813.16789	7.606 1369.5637
7.607 842.68296	7.607 809.76087	7.607 1373.0514
7.608 843.08356	7.608 806.6531	7.608 1375.8343
7.609 846.29648	7.609 804.92324	7.609 1376.8612
7.61 851.6851	7.61 805.26361	7.61 1375.9123
7.611 858.28327	7.611 807.61559	7.611 1373.5233
7.612 865.02065	7.612 811.22347	7.612 1370.6237
7.613 870.91619	7.613 815.07471	7.613 1368.0982
7.614 875.2316	7.614 818.41748	7.614 1366.4748
7.615 877.61529	7.615 821.05471	7.615 1365.8524
7.616 878.17127	7.616 823.25416	7.616 1366
7.617 877.41143	7.617 825.41847	7.617 1366.5359
7.618 876.08794	7.618 827.78295	7.618 1367.0737
7.619 874.94648	7.619 830.32269	7.619 1367.2966
7.62 874.47099	7.62 832.8267	7.62 1366.9713
7.621 874.72096	7.621 835.02596	7.621 1365.9709
7.622 875.30039	7.622 836.6581	7.622 1364.3284
7.623 875.51622	7.623 837.49092	7.623 1362.2983
7.624 874.7027	7.624 837.32685	7.624 1360.3714
7.625 872.59914	7.625 836.06715	7.625 1359.1414
7.626 869.60291	7.626 833.75151	7.626 1359.0853
7.627 866.73828	7.627 830.55107	7.627 1360.3346
7.628 865.27302	7.628 826.70388	7.628 1362.6132
7.629 866.1319	7.629 822.43358	7.629 1365.3345
7.63 869.38153	7.63 817.93659	7.63 1367.8207
7.631 874.05025	7.631 813.47931	7.631 1369.5525
7.632 878.4418	7.632 809.5084	7.632 1370.3533
7.633 880.79335	7.633 806.69201	7.633 1370.4381
7.634 879.99203	7.634 805.77707	7.634 1370.3071
7.635 876.0113	7.635 807.3153	7.635 1370.5087
7.636 869.86335	7.636 811.40065	7.636 1371.3383
7.637 863.12161	7.637 817.52419	7.637 1372.6695
7.638 857.25347	7.638 824.63993	7.638 1374.0424
7.639 853.11929	7.639 831.40511	7.639 1375.0182
7.64 850.84692	7.64 836.53701	7.64 1375.5854
7.641 850.11806	7.641 839.18764	7.641 1376.3586
7.642 850.61203	7.642 839.2117	7.642 1378.3665
7.643 852.29954	7.643 837.22265	7.643 1382.5094
7.644 855.41559	7.644 834.36655	7.644 1388.9723
7.645 860.12488	7.645 831.87677	7.645 1396.9415
7.646 866.12978	7.646 830.59389	7.646 1404.8151
7.647 872.49013	7.647 830.71925	7.647 1410.8273
7.648 877.81604	7.648 831.91488	7.648 1413.7498

7.649 880.76737	7.649 833.66003	7.649 1413.2838
7.65 880.63402	7.65 835.57957	7.65 1410.0222
7.651 877.70465	7.651 837.53579	7.651 1405.0455
7.652 873.20216	7.652 839.47448	7.652 1399.4661
7.653 868.80867	7.653 841.21921	7.653 1394.1012
7.654 866.01048	7.654 842.43939	7.654 1389.3807
7.655 865.60793	7.655 842.81759	7.655 1385.4023
7.656 867.60475	7.656 842.27751	7.656 1382.0539
7.657 871.45728	7.657 841.12388	7.657 1379.171
7.658 876.45285	7.658 839.99908	7.658 1376.7253
7.659 881.95695	7.659 839.69663	7.659 1374.9761
7.66 887.44737	7.66 840.90034	7.66 1374.4808
7.661 892.41584	7.661 843.93731	7.661 1375.8827
7.662 896.31174	7.662 848.60824	7.662 1379.515
7.663 898.61762	7.663 854.15755	7.663 1385.0315
7.664 899.02057	7.664 859.42412	7.664 1391.2913
7.665 897.56223	7.665 863.16891	7.665 1396.6381
7.666 894.66146	7.666 864.50326	7.666 1399.4903
7.667 891.02592	7.667 863.24252	7.667 1398.9673
7.668 887.51423	7.668 859.99799	7.668 1395.2552
7.669 884.98642	7.669 855.9217	7.669 1389.5537
7.67 884.12135	7.67 852.24483	7.67 1383.6088
7.671 885.18932	7.671 849.84155	7.671 1379.0831
7.672 887.86514	7.672 849.0099	7.672 1377.0092
7.673 891.19223	7.673 849.48526	7.673 1377.527
7.674 893.84487	7.674 850.61272	7.674 1379.9742
7.675 894.6156	7.675 851.55766	7.675 1383.2114
7.676 892.92126	7.676 851.56566	7.676 1386.0667
7.677 889.10898	7.677 850.21842	7.677 1387.7363
7.678 884.37399	7.678 847.60704	7.678 1388.019
7.679 880.33325	7.679 844.3373	7.679 1387.3197
7.68 878.40517	7.68 841.34274	7.68 1386.4412
7.681 879.23971	7.681 839.58993	7.681 1386.2385
7.682 882.45474	7.682 839.77038	7.682 1387.2897
7.683 886.82684	7.683 842.08564	7.683 1389.6975
7.684 890.86085	7.684 846.18804	7.684 1393.0893
7.685 893.46585	7.685 851.28884	7.685 1396.7941
7.686 894.38939	7.686 856.40309	7.686 1400.101
7.687 894.21908	7.687 860.62425	7.687 1402.4987
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7.689 894.55816	7.689 864.07782	7.689 1404.1583
7.69 896.26055	7.69 862.94298	7.69 1403.8728
7.691 898.6543	7.691 860.18029	7.691 1403.2479
7.692 900.76323	7.692 856.38843	7.692 1402.4351
7.693 901.51018	7.693 852.40604	7.693 1401.4288
7.694 900.2314	7.694 849.11999	7.694 1400.2192
7.695 897.03965	7.695 847.175	7.695 1399.0047
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7.697 889.14447	7.697 847.25591	7.697 1398.7059
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7.701 895.90017	7.701 846.62828	7.701 1417.0071
7.702 900.4268	7.702 845.97215	7.702 1422.6015
7.703 903.22959	7.703 846.17697	7.703 1426.1453
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7.705 900.55657	7.705 848.64164	7.705 1424.7444
7.706 895.84606	7.706 849.75695	7.706 1420.943
7.707 890.66932	7.707 850.25392	7.707 1416.9748
7.708 886.66657	7.708 850.32614	7.708 1414.2233
7.709 885.06185	7.709 850.57206	7.709 1413.3515
7.71 886.22769	7.71 851.66293	7.71 1414.1673
7.711 889.55899	7.711 853.98492	7.711 1415.8973
7.712 893.70918	7.712 857.39493	7.712 1417.6381
7.713 897.188	7.713 861.2219	7.713 1418.726
7.714 899.01651	7.714 864.49062	7.714 1418.8681
7.715 899.1151	7.715 866.26935	7.715 1418.0911
7.716 898.21357	7.716 865.9935	7.716 1416.6045
7.717 897.36092	7.717 863.64392	7.717 1414.6843
7.718 897.36825	7.718 859.70815	7.718 1412.6513
7.719 898.51816	7.719 854.97516	7.719 1410.902
7.72 900.63477	7.72 850.24223	7.72 1409.945
7.721 903.3486	7.721 846.09316	7.721 1410.3339
7.722 906.31944	7.722 842.84292	7.722 1412.4464
7.723 909.27531	7.723 840.65653	7.723 1416.1866
7.724 911.90888	7.724 839.75612	7.724 1420.864
7.725 913.81763	7.725 840.50453	7.725 1425.3589
7.726 914.5851	7.726 843.27645	7.726 1428.6011
7.727 913.97883	7.727 848.13138	7.727 1430.0696
7.728 912.14522	7.728 854.52104	7.728 1429.9878
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7.73 907.04849	7.73 866.93392	7.73 1428.1462
7.731 905.04972	7.731 870.39407	7.731 1427.5601
7.732 903.91827	7.732 871.33795	7.732 1427.3389
7.733 903.7317	7.733 870.36696	7.733 1427.3489
7.734 904.49109	7.734 868.69774	7.734 1427.6129
7.735 906.21042	7.735 867.60281	7.735 1428.3814
7.736 908.86618	7.736 867.90369	7.736 1429.931
7.737 912.30582	7.737 869.75199	7.737 1432.3067
7.738 916.21036	7.738 872.68849	7.738 1435.1992
7.739 920.18434	7.739 875.87092	7.739 1438.0744
7.74 923.88704	7.74 878.34805	7.74 1440.4127
7.741 927.09193	7.741 879.34454	7.741 1441.8999
7.742 929.62441	7.742 878.52574	7.742 1442.4693
7.743 931.24225	7.743 876.21388	7.743 1442.2258
7.744 931.58628	7.744 873.37575	7.744 1441.3601
7.745 930.31262	7.745 871.33308	7.745 1440.0691
7.746 927.37812	7.746 871.25406	7.746 1438.4882
7.747 923.3356	7.747 873.66915	7.747 1436.6041
7.748 919.4293	7.748 878.25683	7.748 1434.2186
7.749 917.32516	7.749 883.98694	7.749 1431.0317
7.75 918.50598	7.75 889.55659	7.75 1426.9158

7.751 923.55037	7.751 893.8759	7.751 1422.207
7.752 931.66211	7.752 896.39556	7.752 1417.8063
7.753 940.71928	7.753 897.15925	7.753 1414.9448
7.754 947.93208	7.754 896.58066	7.754 1414.7
7.755 950.84243	7.755 895.10858	7.755 1417.5378
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7.757 940.81422	7.757 889.87433	7.757 1430.5702
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8.041 1069.7327	8.041 1022.3247	8.041 1569.6266
8.042 1068.9763	8.042 1025.9608	8.042 1561.8852
8.043 1068.7108	8.043 1028.9989	8.043 1555.1192
8.044 1068.1338	8.044 1030.8736	8.044 1550.3246
8.045 1066.9295	8.045 1030.9931	8.045 1548.1615
8.046 1065.3441	8.046 1028.933	8.046 1548.8489
8.047 1063.9499	8.047 1024.6723	8.047 1552.159
8.048 1063.2759	8.048 1018.8025	8.048 1557.4982
8.049 1063.5501	8.049 1012.5983	8.049 1564.0143
8.05 1064.631	8.05 1007.8109	8.05 1570.7139
8.051 1066.0614	8.051 1006.1415	8.051 1576.5836
8.052 1067.256	8.052 1008.5992	8.052 1580.7054
8.053 1067.7396	8.053 1015.0077	8.053 1582.3585
8.054 1067.3878	8.054 1023.9986	8.054 1581.1715
8.055 1066.5351	8.055 1033.496	8.055 1577.3004
8.056 1065.836	8.056 1041.464	8.056 1571.5674

8.057 1065.9221	8.057 1046.5809	8.057 1565.4116
8.058 1067.0433	8.058 1048.5286	8.058 1560.5601
8.059 1068.927	8.059 1047.8672	8.059 1558.492
8.06 1070.9183	8.06 1045.671	8.06 1559.8922
8.061 1072.3	8.061 1043.119	8.061 1564.357
8.062 1072.5977	8.062 1041.2401	8.062 1570.5041
8.063 1071.7458	8.063 1040.7949	8.063 1576.408
8.064 1070.0787	8.064 1042.2089	8.064 1580.2114
8.065 1068.2053	8.065 1045.4967	8.065 1580.6597
8.066 1066.7974	8.066 1050.1897	8.066 1577.4667
8.067 1066.4039	8.067 1055.3886	8.067 1571.4166
8.068 1067.3056	8.068 1059.9971	8.068 1564.1807
8.069 1069.4675	8.069 1063.1019	8.069 1557.842
8.07 1072.5637	8.07 1064.2921	8.07 1554.2181
8.071 1076.0587	8.071 1063.7705	8.071 1554.2421
8.072 1079.3195	8.072 1062.1893	8.072 1557.6873
8.073 1081.7815	8.073 1060.3229	8.073 1563.3602
8.074 1083.1433	8.074 1058.7493	8.074 1569.6839
8.075 1083.5057	8.075 1057.7131	8.075 1575.3364
8.076 1083.3781	8.076 1057.1852	8.076 1579.6092
8.077 1083.4637	8.077 1057.0373	8.077 1582.3463
8.078 1084.3191	8.078 1057.1989	8.078 1583.6214
8.079 1086.0392	8.079 1057.6703	8.079 1583.4263
8.08 1088.1712	8.08 1058.4395	8.08 1581.6462
8.081 1089.9266	8.081 1059.3778	8.081 1578.3229
8.082 1090.5654	8.082 1060.2071	8.082 1573.9424
8.083 1089.7408	8.083 1060.5453	8.083 1569.4925
8.084 1087.5962	8.084 1059.9927	8.084 1566.1578
8.085 1084.6123	8.085 1058.2691	8.085 1564.8887
8.086 1081.3717	8.086 1055.4082	8.086 1566.0859
8.087 1078.4281	8.087 1051.8934	8.087 1569.5665
8.088 1076.3421	8.088 1048.6447	8.088 1574.7841
8.089 1075.7501	8.089 1046.7428	8.089 1581.0892
8.09 1077.2837	8.09 1046.9757	8.09 1587.8847
8.091 1081.2902	8.091 1049.4439	8.091 1594.6291
8.092 1087.5058	8.092 1053.4625	8.092 1600.7418
8.093 1094.9546	8.093 1057.8282	8.093 1605.5373
8.094 1102.209	8.094 1061.3122	8.094 1608.3116
8.095 1107.8893	8.095 1063.1516	8.095 1608.5853
8.096 1111.1156	8.096 1063.3442	8.096 1606.3806
8.097 1111.6645	8.097 1062.6091	8.097 1602.3603
8.098 1109.8179	8.098 1062.0301	8.098 1597.6721
8.099 1106.0983	8.099 1062.5224	8.099 1593.5179
8.1 1101.1194	8.1 1064.3487	8.1 1590.6548
8.101 1095.5967	8.101 1066.9823	8.101 1589.1017
8.102 1090.406	8.102 1069.3803	8.102 1588.2231
8.103 1086.5109	8.103 1070.5844	8.103 1587.1042
8.104 1084.7299	8.104 1070.3236	8.104 1585.0153
8.105 1085.4468	8.105 1069.2694	8.105 1581.6886
8.106 1088.4752	8.106 1068.8007	8.106 1577.3802
8.107 1093.1687	8.107 1070.3442	8.107 1572.7623

8.108 1098.7085	8.108 1074.6402	8.108 1568.7793
8.109 1104.391	8.109 1081.2807	8.109 1566.4767
8.11 1109.7425	8.11 1088.7792	8.11 1566.769
8.111 1114.448	8.111 1095.0886	8.111 1570.1899
8.112 1118.2074	8.112 1098.3434	8.112 1576.6953
8.113 1120.6526	8.113 1097.4338	8.113 1585.6343
8.114 1121.4232	8.114 1092.2673	8.114 1595.916
8.115 1120.3525	8.115 1083.6976	8.115 1606.2548
8.116 1117.649	8.116 1073.2536	8.116 1615.3896
8.117 1113.9281	8.117 1062.7738	8.117 1622.2836
8.118 1110.0727	8.118 1054.03	8.118 1626.2996
8.119 1106.9614	8.119 1048.3807	8.119 1627.3645
8.12 1105.2054	8.12 1046.5204	8.12 1626.0139
8.121 1104.9819	8.121 1048.3386	8.121 1623.224
8.122 1106.0166	8.122 1052.9742	8.122 1620.0201
8.123 1107.7059	8.123 1058.9951	8.123 1617.0854
8.124 1109.3205	8.124 1064.7041	8.124 1614.5783
8.125 1110.2332	8.125 1068.5152	8.125 1612.26
8.126 1110.114	8.126 1069.3271	8.126 1609.8465
8.127 1109.0496	8.127 1066.8245	8.127 1607.3331
8.128 1107.5483	8.128 1061.5569	8.128 1605.1202
8.129 1106.3822	8.129 1054.7459	8.129 1603.8484
8.13 1106.3284	8.13 1047.8702	8.13 1604.0916
8.131 1107.8792	8.131 1042.1971	8.131 1606.049
8.132 1111.0538	8.132 1038.4837	8.132 1609.4489
8.133 1115.3643	8.133 1036.9559	8.133 1613.6688
8.134 1119.9502	8.134 1037.467	8.134 1618.0358
8.135 1123.8122	8.135 1039.6984	8.135 1622.1073
8.136 1126.0553	8.136 1043.2899	8.136 1625.7996
8.137 1126.0804	8.137 1047.8557	8.137 1629.3253
8.138 1123.6949	8.138 1052.9459	8.138 1632.9765
8.139 1119.1384	8.139 1058	8.139 1636.8636
8.14 1113.0318	8.14 1062.3237	8.14 1640.7242
8.141 1106.2581	8.141 1065.169	8.141 1643.9033
8.142 1099.7846	8.142 1065.9448	8.142 1645.5263
8.143 1094.4489	8.143 1064.5144	8.143 1644.8366
8.144 1090.7927	8.144 1061.4027	8.144 1641.5294
8.145 1089.0093	8.145 1057.7257	8.145 1635.9114
8.146 1089.0292	8.146 1054.8242	8.146 1628.7813
8.147 1090.644	8.147 1053.7706	8.147 1621.1266
8.148 1093.5739	8.148 1055.0143	8.148 1613.8214
8.149 1097.4407	8.149 1058.3513	8.149 1607.4964
8.15 1101.7164	8.15 1063.1613	8.15 1602.5866
8.151 1105.7559	8.151 1068.7286	8.151 1599.4048
8.152 1108.9442	8.152 1074.448	8.152 1598.1204
8.153 1110.8903	8.153 1079.839	8.153 1598.6308
8.154 1111.5409	8.154 1084.4377	8.154 1600.4801
8.155 1111.1703	8.155 1087.6977	8.155 1602.9421
8.156 1110.2654	8.156 1089.0091	8.156 1605.2759
8.157 1109.3742	8.157 1087.8974	8.157 1607.0172
8.158 1108.9703	8.158 1084.2952	8.158 1608.1318

8.159	1109.3221	8.159	1078.7758	8.159	1608.9505
8.16	1110.4416	8.16	1072.5272	8.16	1609.9405
8.161	1112.1222	8.161	1067.0563	8.161	1611.4433
8.162	1114.0895	8.162	1063.7448	8.162	1613.5192
8.163	1116.172	8.163	1063.4493	8.163	1615.9586
8.164	1118.3627	8.164	1066.2716	8.164	1618.4226
8.165	1120.7026	8.165	1071.5491	8.165	1620.6176
8.166	1123.0912	8.166	1077.9904	8.166	1622.3936
8.167	1125.1969	8.167	1083.9756	8.167	1623.747
8.168	1126.5838	8.168	1088.0036	8.168	1624.7666
8.169	1126.9721	8.169	1089.2109	8.169	1625.5804
8.17	1126.4305	8.17	1087.731	8.17	1626.3064
8.171	1125.3497	8.171	1084.6579	8.171	1627.0047
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8.173	1123.4837	8.173	1079.6666	8.173	1628.1226
8.174	1123.1606	8.174	1079.5048	8.174	1628.4427
8.175	1123.0078	8.175	1080.6278	8.175	1628.862
8.176	1122.525	8.176	1082.0871	8.176	1629.9125
8.177	1121.2306	8.177	1082.9834	8.177	1632.1476
8.178	1119.0039	8.178	1082.903	8.178	1635.7525
8.179	1116.3283	8.179	1082.0416	8.179	1640.2643
8.18	1114.195	8.18	1081.045	8.18	1644.6521
8.181	1113.6365	8.181	1080.7359	8.181	1647.7124
8.182	1115.1061	8.182	1081.8227	8.182	1648.5453
8.183	1118.1226	8.183	1084.7099	8.183	1646.8696
8.184	1121.4558	8.184	1089.3908	8.184	1643.0597
8.185	1123.7603	8.185	1095.4747	8.185	1638.0028
8.186	1124.2702	8.186	1102.3315	8.186	1632.8523
8.187	1123.1247	8.187	1109.2573	8.187	1628.7576
8.188	1121.1772	8.188	1115.6381	8.188	1626.5714
8.189	1119.4545	8.189	1121.0444	8.189	1626.6071
8.19	1118.6575	8.19	1125.2541	8.19	1628.553
8.191	1118.9597	8.191	1128.2216	8.191	1631.622
8.192	1120.1857	8.192	1129.9689	8.192	1634.9124
8.193	1122.1652	8.193	1130.4604	8.193	1637.7783
8.194	1124.9774	8.194	1129.5405	8.194	1640.0291
8.195	1128.8905	8.195	1127.0543	8.195	1641.8276
8.196	1134.0269	8.196	1123.0963	8.196	1643.362
8.197	1139.9947	8.197	1118.1995	8.197	1644.5661
8.198	1145.7879	8.198	1113.2878	8.198	1645.1015
8.199	1150.0976	8.199	1109.3398	8.199	1644.6333
8.2	1151.8329	8.2	1107.0025	8.2	1643.231
8.201	1150.5684	8.201	1106.3863	8.201	1641.5513
8.202	1146.6776	8.202	1107.1632	8.202	1640.6469
8.203	1141.1428	8.203	1108.8445	8.203	1641.4747
8.204	1135.1877	8.204	1111.0124	8.204	1644.3931
8.205	1129.9397	8.205	1113.3923	8.205	1648.9685
8.206	1126.213	8.206	1115.7676	8.206	1654.2078
8.207	1124.43	8.207	1117.8793	8.207	1659.082
8.208	1124.6386	8.208	1119.3966	8.208	1662.9891
8.209	1126.5877	8.209	1119.9916	8.209	1665.9122

8.21	1129.8103	8.21	1119.4732	8.21	1668.1893
8.211	1133.7278	8.211	1117.89	8.211	1670.1267
8.212	1137.7408	8.212	1115.5697	8.212	1671.7287
8.213	1141.3107	8.213	1113.0097	8.213	1672.7354
8.214	1144.0432	8.214	1110.6565	8.214	1672.8867
8.215	1145.7326	8.215	1108.6767	8.215	1672.1679
8.216	1146.4158	8.216	1106.8692	8.216	1670.8245
8.217	1146.3681	8.217	1104.8539	8.217	1669.0963
8.218	1146.0362	8.218	1102.3957	8.218	1666.953
8.219	1145.8836	8.219	1099.6406	8.219	1664.0587
8.22	1146.2047	8.22	1097.0531	8.22	1660.0515
8.221	1147.0158	8.221	1095.1024	8.221	1654.9499
8.222	1148.105	8.222	1093.9319	8.222	1649.3561
8.223	1149.1964	8.223	1093.2844	8.223	1644.3036
8.224	1150.1203	8.224	1092.7414	8.224	1640.8274
8.225	1150.8891	8.225	1092.1142	8.225	1639.5138
8.226	1151.6203	8.226	1091.7112	8.226	1640.2862
8.227	1152.3848	8.227	1092.274	8.227	1642.501
8.228	1153.0741	8.228	1094.5805	8.228	1645.299
8.229	1153.4022	8.229	1098.9706	8.229	1648.0349
8.23	1153.0435	8.23	1105.0794	8.23	1650.5606
8.231	1151.8671	8.231	1111.9725	8.231	1653.1898
8.232	1150.1175	8.232	1118.5551	8.232	1656.312
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8.234	1147.4922	8.234	1127.6836	8.234	1663.1617
8.235	1147.9363	8.235	1129.4277	8.235	1664.826
8.236	1149.803	8.236	1128.9641	8.236	1663.6534
8.237	1152.5802	8.237	1126.1416	8.237	1659.2135
8.238	1155.3704	8.238	1121.0418	8.238	1652.2994
8.239	1157.2575	8.239	1114.1131	8.239	1644.7918
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8.241	1156.8352	8.241	1098.2006	8.241	1636.9901
8.242	1155.3244	8.242	1091.4194	8.242	1639.5486
8.243	1154.1892	8.243	1087.0262	8.243	1646.2536
8.244	1154.3136	8.244	1086.0979	8.244	1655.5193
8.245	1156.0694	8.245	1089.2389	8.245	1665.2294
8.246	1159.1629	8.246	1096.2239	8.246	1673.4552
8.247	1162.7841	8.247	1105.8707	8.247	1679.0353
8.248	1165.9879	8.248	1116.2966	8.248	1681.8438
8.249	1168.1315	8.249	1125.496	8.249	1682.6989
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8.251	1169.5985	8.251	1134.772	8.251	1684.0098
8.252	1170.3076	8.252	1134.153	8.252	1686.6107
8.253	1172.0214	8.253	1130.7859	8.253	1690.621
8.254	1174.9526	8.254	1125.7852	8.254	1695.0027
8.255	1178.5899	8.255	1120.354	8.255	1698.3178
8.256	1181.7905	8.256	1115.5527	8.256	1699.4537
8.257	1183.1515	8.257	1112.1664	8.257	1698.1592
8.258	1181.5391	8.258	1110.6494	8.258	1695.0869
8.259	1176.5659	8.259	1111.1076	8.259	1691.3492
8.26	1168.8532	8.26	1113.2804	8.26	1687.9147

8.261 1159.9398	8.261 1116.5703	8.261 1685.2454
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8.269 1164.8963	8.269 1141.0544	8.269 1689.8525
8.27 1163.1749	8.27 1142.7551	8.27 1694.4535
8.271 1158.9212	8.271 1142.7356	8.271 1698.6112
8.272 1153.8625	8.272 1141.1679	8.272 1701.1678
8.273 1149.8965	8.273 1138.7291	8.273 1701.3073
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8.296 1177.742	8.296 1142.485	8.296 1722.5425
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8.299 1174.0364	8.299 1154.8134	8.299 1717.6572
8.3 1175.6132	8.3 1157.6646	8.3 1717.6249
8.301 1179.1002	8.301 1158.9781	8.301 1719.086
8.302 1183.8229	8.302 1158.5182	8.302 1721.8036
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8.314 1207.8047	8.314 1154.4204	8.314 1720.1205
8.315 1206.5405	8.315 1156.0324	8.315 1718.7164
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8.317 1205.5831	8.317 1156.5373	8.317 1718.242
8.318 1206.0159	8.318 1155.9596	8.318 1720.7007
8.319 1206.1542	8.319 1155.3828	8.319 1724.7967
8.32 1205.2446	8.32 1155.0615	8.32 1729.3723
8.321 1203.0607	8.321 1154.9158	8.321 1732.9232
8.322 1200.0444	8.322 1154.5692	8.322 1734.2771
8.323 1197.0028	8.323 1153.6027	8.323 1733.0961
8.324 1194.5602	8.324 1151.9136	8.324 1729.9882
8.325 1192.7408	8.325 1149.9207	8.325 1726.1892
8.326 1190.9762	8.326 1148.4546	8.326 1723.0017
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8.33 1180.4554	8.33 1158.5345	8.33 1727.5521
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8.337 1219.1677	8.337 1175.1983	8.337 1753.4112
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8.339 1220.6152	8.339 1171.7853	8.339 1740.9217
8.34 1220.4674	8.34 1171.7737	8.34 1735.8252
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8.342 1220.5915	8.342 1177.0388	8.342 1734.9984
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8.348 1201.3366	8.348 1165.1318	8.348 1738.5349
8.349 1199.2888	8.349 1159.1449	8.349 1732.9216
8.35 1199.5152	8.35 1157.0099	8.35 1728.8817
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8.369 1231.8511	8.369 1168.8266	8.369 1763.3704
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8.411 1249.7144	8.411 1203.6587	8.411 1789.2909
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8.429 1264.2118	8.429 1211.6733	8.429 1783.0935
8.43 1274.9167	8.43 1210.9554	8.43 1779.9709
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8.616 1343.5143	8.616 1273.8622	8.616 1899.1803
8.617 1341.3657	8.617 1278.1477	8.617 1907.7652

8.618 1338.5924	8.618 1283.9814	8.618 1915.1753
8.619 1335.0366	8.619 1290.6997	8.619 1920.4479
8.62 1330.6704	8.62 1297.5981	8.62 1922.4363
8.621 1325.9294	8.621 1304.159	8.621 1920.2811
8.622 1321.8137	8.622 1310.0664	8.622 1913.9758
8.623 1319.6365	8.623 1315.02	8.623 1904.6333
8.624 1320.499	8.624 1318.5571	8.624 1894.281
8.625 1324.7509	8.625 1320.0832	8.625 1885.241
8.626 1331.7316	8.626 1319.1578	8.626 1879.428
8.627 1339.8965	8.627 1315.8462	8.627 1877.831
8.628 1347.2753	8.628 1310.8799	8.628 1880.3352
8.629 1352.0913	8.629 1305.5394	8.629 1885.8984
8.63 1353.307	8.63 1301.3167	8.63 1892.9687
8.631 1350.9517	8.631 1299.545	8.631 1899.9792
8.632 1346.0893	8.632 1301.0915	8.632 1905.7534
8.633 1340.4697	8.633 1306.1412	8.633 1909.671
8.634 1335.9515	8.634 1314.0962	8.634 1911.6306
8.635 1333.9237	8.635 1323.6093	8.635 1911.8514
8.636 1334.9227	8.636 1332.8219	8.636 1910.666
8.637 1338.5321	8.637 1339.8115	8.637 1908.3655
8.638 1343.5904	8.638 1343.1331	8.638 1905.1196
8.639 1348.6035	8.639 1342.294	8.639 1901.0099
8.64 1352.2397	8.64 1337.9344	8.64 1896.1477
8.641 1353.756	8.641 1331.6046	8.641 1890.8423
8.642 1353.2439	8.642 1325.1699	8.642 1885.6857
8.643 1351.5793	8.643 1320.121	8.643 1881.465
8.644 1350.1006	8.644 1317.1109	8.644 1878.9412
8.645 1350.1076	8.645 1315.9587	8.645 1878.5963
8.646 1352.352	8.646 1316.0444	8.646 1880.4643
8.647 1356.7202	8.647 1316.818	8.647 1884.0963
8.648 1362.2222	8.648 1318.1154	8.648 1888.6412
8.649 1367.2931	8.649 1320.1692	8.649 1893.0405
8.65 1370.3025	8.65 1323.358	8.65 1896.3114
8.651 1370.1029	8.651 1327.886	8.651 1897.8428
8.652 1366.4492	8.652 1333.5542	8.652 1897.5784
8.653 1360.1467	8.653 1339.7362	8.653 1895.971
8.654 1352.8162	8.654 1345.5808	8.654 1893.7468
8.655 1346.3051	8.655 1350.3037	8.655 1891.6317
8.656 1341.9593	8.656 1353.4045	8.656 1890.1804
8.657 1340.1087	8.657 1354.6907	8.657 1889.7127
8.658 1340.0739	8.658 1354.2033	8.658 1890.3176
8.659 1340.7493	8.659 1352.0986	8.659 1891.8621
8.66 1341.4087	8.66 1348.6214	8.66 1894.0647
8.661 1342.2266	8.661 1344.094	8.661 1896.5973
8.662 1344.1406	8.662 1338.9031	8.662 1899.2155
8.663 1348.1368	8.663 1333.5161	8.663 1901.8364
8.664 1354.4327	8.664 1328.5146	8.664 1904.5317
8.665 1362.0721	8.665 1324.617	8.665 1907.4519
8.666 1369.2237	8.666 1322.5704	8.666 1910.6839
8.667 1373.9535	8.667 1322.8858	8.667 1914.0968
8.668 1375.1103	8.668 1325.5543	8.668 1917.2245

8.669 1372.8448	8.669 1329.9509	8.669 1919.2569
8.67 1368.548	8.67 1334.9843	8.67 1919.2188
8.671 1364.2406	8.671 1339.4277	8.671 1916.315
8.672 1361.6988	8.672 1342.2812	8.672 1910.2876
8.673 1361.7457	8.673 1343.0626	8.673 1901.6259
8.674 1364.0636	8.674 1341.9575	8.674 1891.5252
8.675 1367.605	8.675 1339.8158	8.675 1881.6473
8.676 1371.2967	8.676 1337.9191	8.676 1873.742
8.677 1374.5928	8.677 1337.5762	8.677 1869.2493
8.678 1377.5479	8.678 1339.6557	8.678 1868.9259
8.679 1380.5131	8.679 1344.2517	8.679 1872.6199
8.68 1383.706	8.68 1350.6345	8.68 1879.2886
8.681 1386.9831	8.681 1357.4746	8.681 1887.2991
8.682 1389.8832	8.682 1363.2421	8.682 1894.9142
8.683 1391.8536	8.683 1366.5881	8.683 1900.7547
8.684 1392.4864	8.684 1366.6437	8.684 1904.0664
8.685 1391.6566	8.685 1363.1854	8.685 1904.7169
8.686 1389.5416	8.686 1356.7022	8.686 1903.0357
8.687 1386.5518	8.687 1348.3438	8.687 1899.5884
8.688 1383.2155	8.688 1339.7142	8.688 1895.0258
8.689 1380.0808	8.689 1332.5272	8.689 1890.0051
8.69 1377.6282	8.69 1328.1536	8.69 1885.149
8.691 1376.1799	8.691 1327.2363	8.691 1880.9914
8.692 1375.8318	8.692 1329.4917	8.692 1877.8846
8.693 1376.4058	8.693 1333.7886	8.693 1875.9076
8.694 1377.478	8.694 1338.4795	8.694 1874.8567
8.695 1378.5259	8.695 1341.8799	8.695 1874.3568
8.696 1379.137	8.696 1342.7732	8.696 1874.0928
8.697 1379.2331	8.697 1340.783	8.697 1874.0457
8.698 1379.1818	8.698 1336.512	8.698 1874.5795
8.699 1379.6955	8.699 1331.358	8.699 1876.2602
8.7 1381.4635	8.7 1327.0588	8.7 1879.4808
8.701 1384.6733	8.701 1325.1499	8.701 1884.0987
8.702 1388.6642	8.702 1326.535	8.702 1889.3111
8.703 1392.0085	8.703 1331.2909	8.703 1893.8772
8.704 1393.0609	8.704 1338.7037	8.704 1896.5863
8.705 1390.761	8.705 1347.4535	8.705 1896.7215
8.706 1385.2271	8.706 1355.925	8.706 1894.3019
8.707 1377.8003	8.707 1362.5704	8.707 1889.9885
8.708 1370.478	8.708 1366.2956	8.708 1884.7276
8.709 1365.0747	8.709 1366.7236	8.709 1879.3675
8.71 1362.5583	8.71 1364.2335	8.71 1874.4706
8.711 1362.8651	8.711 1359.7797	8.711 1870.3845
8.712 1365.2085	8.712 1354.5454	8.712 1867.454
8.713 1368.6232	8.713 1349.5498	8.713 1866.1312
8.714 1372.4094	8.714 1345.3374	8.714 1866.8462
8.715 1376.2825	8.715 1341.856	8.715 1869.6841
8.716 1380.2272	8.716 1338.6101	8.716 1874.1237
8.717 1384.2643	8.717 1335.0842	8.717 1879.0215
8.718 1388.2832	8.718 1331.2326	8.718 1882.9473
8.719 1392.0283	8.719 1327.7589	8.719 1884.7045

8.72 1395.1508	8.72 1325.9649	8.72 1883.8349
8.721 1397.2963	8.721 1327.1909	8.721 1880.8598
8.722 1398.201	8.722 1332.1317	8.722 1877.1565
8.723 1397.8184	8.723 1340.4017	8.723 1874.5233
8.724 1396.4136	8.724 1350.5571	8.724 1874.5641
8.725 1394.5433	8.725 1360.5378	8.725 1878.1265
8.726 1392.8792	8.726 1368.3223	8.726 1884.9755
8.727 1391.99	8.727 1372.5271	8.727 1893.8105
8.728 1392.1953	8.728 1372.754	8.728 1902.611
8.729 1393.563	8.729 1369.5981	8.729 1909.1958
8.73 1395.9763	8.73 1364.3821	8.73 1911.8631
8.731 1399.18	8.731 1358.7141	8.731 1909.904
8.732 1402.7887	8.732 1354.0853	8.732 1903.8527
8.733 1406.2974	8.733 1351.5412	8.733 1895.3588
8.734 1409.1274	8.734 1351.5181	8.734 1886.6727
8.735 1410.7242	8.735 1353.7861	8.735 1879.9086
8.736 1410.6772	8.736 1357.5124	8.736 1876.3673
8.737 1408.8248	8.737 1361.488	8.737 1876.2022
8.738 1405.3264	8.738 1364.499	8.738 1878.5655
8.739 1400.7048	8.739 1365.7402	8.739 1882.1441
8.74 1395.8528	8.74 1365.1152	8.74 1885.7858
8.741 1391.9653	8.741 1363.2424	8.741 1888.8657
8.742 1390.3277	8.742 1361.1739	8.742 1891.3217
8.743 1391.9451	8.743 1359.9586	8.743 1893.3974
8.744 1397.0804	8.744 1360.2655	8.744 1895.3626
8.745 1404.9615	8.745 1362.2019	8.745 1897.3803
8.746 1413.8746	8.746 1365.3415	8.746 1899.5288
8.747 1421.676	8.747 1368.8749	8.747 1901.8472
8.748 1426.5122	8.748 1371.8145	8.748 1904.2725
8.749 1427.4038	8.749 1373.2283	8.749 1906.5046
8.75 1424.4736	8.75 1372.5132	8.75 1907.9402
8.751 1418.7992	8.751 1369.6373	8.751 1907.8415
8.752 1412.0287	8.752 1365.241	8.752 1905.7088
8.753 1405.9236	8.753 1360.4893	8.753 1901.6727
8.754 1401.9439	8.754 1356.6973	8.754 1896.6251
8.755 1400.934	8.755 1354.9061	8.755 1891.9921
8.756 1402.945	8.756 1355.5532	8.756 1889.2261
8.757 1407.2543	8.757 1358.3305	8.757 1889.2795
8.758 1412.5663	8.758 1362.2503	8.758 1892.3003
8.759 1417.4055	8.759 1365.8905	8.759 1897.6649
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8.763 1417.9103	8.763 1360.4951	8.763 1918.8796
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8.765 1411.61	8.765 1356.144	8.765 1916.2566
8.766 1408.4266	8.766 1357.7258	8.766 1911.0859
8.767 1405.3143	8.767 1361.4015	8.767 1904.5468
8.768 1402.4857	8.768 1365.9101	8.768 1898.1017
8.769 1400.4208	8.769 1369.9603	8.769 1893.3546
8.77 1399.701	8.77 1372.6928	8.77 1891.6561

8.771 1400.6812	8.771 1373.7756	8.771 1893.7095
8.772 1403.1887	8.772 1373.2456	8.772 1899.3229
8.773 1406.4291	8.773 1371.3401	8.773 1907.4399
8.774 1409.197	8.774 1368.4477	8.774 1916.5057
8.775 1410.3692	8.775 1365.1129	8.775 1924.9925
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8.777 1407.0081	8.777 1359.4415	8.777 1936.4464
8.778 1404.3921	8.778 1357.8828	8.778 1938.7214
8.779 1403.3154	8.779 1357.3774	8.779 1938.6419
8.78 1405.0209	8.78 1358.0584	8.78 1936.2976
8.781 1409.7766	8.781 1360.1949	8.781 1932.0036
8.782 1416.8205	8.782 1364.0478	8.782 1926.4537
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8.789 1437.6421	8.789 1384.9637	8.789 1920.6443
8.79 1433.9489	8.79 1382.1056	8.79 1923.9648
8.791 1429.907	8.791 1380.1743	8.791 1927.0137
8.792 1425.8385	8.792 1380.0333	8.792 1929.8249
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8.794 1418.126	8.794 1385.6254	8.794 1934.2162
8.795 1414.7954	8.795 1390.4304	8.795 1934.9119
8.796 1412.2364	8.796 1395.5761	8.796 1934.0337
8.797 1410.8241	8.797 1400.3557	8.797 1931.6555
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8.801 1416.3242	8.801 1410.4786	8.801 1921.4142
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8.805 1423.3785	8.805 1406.3597	8.805 1926.8921
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8.807 1424.8012	8.807 1396.0046	8.807 1930.6071
8.808 1424.4285	8.808 1390.8469	8.808 1930.2648
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8.813 1422.8241	8.813 1405.2878	8.813 1920.0353
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8.817 1433.0905	8.817 1412.4368	8.817 1951.1547
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8.819 1436.8628	8.819 1400.1327	8.819 1959.954
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8.821 1437.1045	8.821 1388.7678	8.821 1960.4552

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8.823 1432.3619	8.823 1389.3217	8.823 1960.7333
8.824 1429.0861	8.824 1394.8507	8.824 1961.8854
8.825 1426.328	8.825 1402.6919	8.825 1963.1156
8.826 1424.747	8.826 1411.3088	8.826 1963.5498
8.827 1424.4999	8.827 1419.0909	8.827 1962.3632
8.828 1425.3007	8.828 1424.7325	8.828 1959.1031
8.829 1426.7686	8.829 1427.5288	8.829 1953.9155
8.83 1428.7854	8.83 1427.5226	8.83 1947.6082
8.831 1431.5763	8.831 1425.4496	8.831 1941.4858
8.832 1435.449	8.832 1422.4647	8.832 1936.9731
8.833 1440.3706	8.833 1419.7633	8.833 1935.1289
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8.835 1450.4201	8.835 1418.4666	8.835 1939.8766
8.836 1453.3849	8.836 1420.4797	8.836 1944.7429
8.837 1454.0339	8.837 1424.0416	8.837 1949.4685
8.838 1452.5477	8.838 1428.5232	8.838 1952.9135
8.839 1449.7603	8.839 1432.9135	8.839 1954.5291
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8.841 1444.7018	8.841 1436.3184	8.841 1953.2152
8.842 1444.0629	8.842 1433.3513	8.842 1951.64
8.843 1444.9841	8.843 1427.2083	8.843 1950.3694
8.844 1447.0722	8.844 1419.1022	8.844 1949.8472
8.845 1449.5589	8.845 1410.918	8.845 1950.286
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8.852 1425.3881	8.852 1406.0437	8.852 1955.034
8.853 1421.37	8.853 1404.6264	8.853 1951.5505
8.854 1421.2782	8.854 1402.2503	8.854 1948.334
8.855 1425.67	8.855 1400.2122	8.855 1946.5157
8.856 1434.0463	8.856 1400.0351	8.856 1946.8117
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8.86 1473.8126	8.86 1423.8623	8.86 1963.3343
8.861 1477.0884	8.861 1429.3174	8.861 1967.6971
8.862 1476.1967	8.862 1431.373	8.862 1971.3004
8.863 1471.5557	8.863 1429.8955	8.863 1974.2258
8.864 1464.2137	8.864 1425.8389	8.864 1976.5746
8.865 1455.7341	8.865 1420.8243	8.865 1978.2244
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8.872 1461.0418	8.872 1435.3827	8.872 1957.6726

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8.877 1462.4503	8.877 1439.9408	8.877 1955.3864
8.878 1463.9053	8.878 1438.7755	8.878 1958.0609
8.879 1467.4247	8.879 1438.4138	8.879 1962.1745
8.88 1471.6697	8.88 1439.535	8.88 1967.3059
8.881 1474.7052	8.881 1442.5537	8.881 1972.7627
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8.884 1465.5324	8.884 1459.4499	8.884 1986.6671
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8.889 1449.1128	8.889 1464.4763	8.889 1996.9253
8.89 1453.545	8.89 1459.9048	8.89 1993.3267
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8.892 1464.552	8.892 1449.1947	8.892 1982.4362
8.893 1469.3801	8.893 1444.4751	8.893 1978.36
8.894 1473.2328	8.894 1441	8.894 1976.9591
8.895 1476.088	8.895 1439.1403	8.895 1978.4524
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8.897 1479.0513	8.897 1440.4422	8.897 1986.6851
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8.899 1478.2024	8.899 1446.7281	8.899 1994.539
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8.909 1475.6851	8.909 1471.636	8.909 1992.3462
8.91 1477.779	8.91 1472.1598	8.91 1993.5364
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8.912 1477.428	8.912 1466.7456	8.912 1995.6486
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9.206 1614.958	9.206 1619.8962	9.206 2132.1944
9.207 1615.8624	9.207 1624.3195	9.207 2135.4096
9.208 1618.3994	9.208 1626.3186	9.208 2139.7657
9.209 1622.0152	9.209 1625.932	9.209 2144.9291
9.21 1625.5533	9.21 1623.7973	9.21 2150.7892
9.211 1627.7374	9.211 1620.7437	9.211 2157.1612
9.212 1627.6294	9.212 1617.3191	9.212 2163.4046
9.213 1624.866	9.213 1613.555	9.213 2168.2578
9.214 1619.7096	9.214 1609.1254	9.214 2170.1337
9.215 1613.0012	9.215 1603.8149	9.215 2167.803
9.216 1606.0569	9.216 1597.9898	9.216 2161.1144
9.217 1600.4453	9.217 1592.7342	9.217 2151.3314
9.218 1597.5919	9.218 1589.5155	9.218 2140.8674
9.219 1598.2898	9.219 1589.5061	9.219 2132.4931
9.22 1602.3364	9.22 1592.934	9.22 2128.3861
9.221 1608.4908	9.221 1598.8441	9.221 2129.4476
9.222 1614.8595	9.222 1605.4062	9.222 2135.1449
9.223 1619.5505	9.223 1610.6554	9.223 2143.8879
9.224 1621.3312	9.224 1613.2565	9.224 2153.6636
9.225 1620.0067	9.225 1612.9459	9.225 2162.6242
9.226 1616.3962	9.226 1610.487	9.226 2169.3823
9.227 1611.9393	9.227 1607.2058	9.227 2173.0643
9.228 1608.1462	9.228 1604.4554	9.228 2173.2517
9.229 1606.0872	9.229 1603.1948	9.229 2169.9918

9.23 1606.0872	9.23 1603.8194	9.23 2163.8891
9.231 1607.6795	9.231 1606.1538	9.231 2156.1358
9.232 1609.775	9.232 1609.564	9.232 2148.3459
9.233 1610.9756	9.233 1613.1051	9.233 2142.1347
9.234 1609.9837	9.234 1615.7188	9.234 2138.6339
9.235 1606.0495	9.235 1616.4224	9.235 2138.1274
9.236 1599.3728	9.236 1614.5308	9.236 2140.0297
9.237 1591.279	9.237 1609.861	9.237 2143.2113
9.238 1583.9966	9.238 1602.9264	9.238 2146.5587
9.239 1579.972	9.239 1594.9837	9.239 2149.4668
9.24 1580.9246	9.24 1587.8223	9.24 2152.0242
9.241 1587.0596	9.241 1583.2349	9.241 2154.7875
9.242 1596.8721	9.242 1582.3552	9.242 2158.3017
9.243 1607.7159	9.243 1585.189	9.243 2162.6629
9.244 1616.8896	9.244 1590.6438	9.244 2167.3822
9.245 1622.6862	9.245 1597.0393	9.245 2171.5595
9.246 1624.9079	9.246 1602.8108	9.246 2174.2351
9.247 1624.615	9.247 1607.0155	9.247 2174.7217
9.248 1623.3704	9.248 1609.4125	9.248 2172.7971
9.249 1622.4202	9.249 1610.2386	9.249 2168.7854
9.25 1622.2269	9.25 1609.9158	9.25 2163.5023
9.251 1622.4747	9.251 1608.8749	9.251 2158.0906
9.252 1622.4284	9.252 1607.5057	9.252 2153.7375
9.253 1621.3941	9.253 1606.0882	9.253 2151.3665
9.254 1619.0759	9.254 1604.7185	9.254 2151.3936
9.255 1615.7137	9.255 1603.3258	9.255 2153.6511
9.256 1611.9801	9.256 1601.8461	9.256 2157.4818
9.257 1608.6992	9.257 1600.4582	9.257 2161.9571
9.258 1606.5179	9.258 1599.6409	9.258 2166.1655
9.259 1605.6623	9.259 1599.9364	9.259 2169.4915
9.26 1605.9421	9.26 1601.5474	9.26 2171.8117
9.261 1606.9552	9.261 1604.1007	9.261 2173.5004
9.262 1608.3672	9.262 1606.7634	9.262 2175.2185
9.263 1610.0522	9.263 1608.6527	9.263 2177.5415
9.264 1612.005	9.264 1609.2528	9.264 2180.6328
9.265 1614.1358	9.265 1608.6246	9.265 2184.0804
9.266 1616.1422	9.266 1607.3359	9.266 2187.0187
9.267 1617.5945	9.267 1606.2618	9.267 2188.4284
9.268 1618.1559	9.268 1606.3494	9.268 2187.518
9.269 1617.75	9.269 1608.3862	9.269 2184.0431
9.27 1616.5612	9.27 1612.7508	9.27 2178.4999
9.271 1614.8906	9.271 1619.1855	9.271 2172.0884
9.272 1613.0413	9.272 1626.6772	9.272 2166.4418
9.273 1611.2877	9.273 1633.6226	9.273 2163.1935
9.274 1609.8997	9.274 1638.283	9.274 2163.5114
9.275 1609.1559	9.275 1639.3996	9.275 2167.7936
9.276 1609.3087	9.276 1636.6966	9.276 2175.5429
9.277 1610.5035	9.277 1631.0384	9.277 2185.4319
9.278 1612.6703	9.278 1624.1699	9.278 2195.5166
9.279 1615.4553	9.279 1618.1619	9.279 2203.5779
9.28 1618.2451	9.28 1614.797	9.28 2207.6084

9.281 1620.3478	9.281 1615.1513	9.281 2206.3532
9.282 1621.292	9.282 1619.4285	9.282 2199.7594
9.283 1621.0714	9.283 1627.0236	9.283 2189.1235
9.284 1620.1657	9.284 1636.6771	9.284 2176.7978
9.285 1619.2621	9.285 1646.6965	9.285 2165.4942
9.286 1618.8503	9.286 1655.2285	9.286 2157.4487
9.287 1618.9079	9.287 1660.6516	9.287 2153.7668
9.288 1618.8752	9.288 1661.9936	9.288 2154.2544
9.289 1617.9523	9.289 1659.232	9.289 2157.7317
9.29 1615.5377	9.29 1653.28	9.29 2162.6533
9.291 1611.6011	9.291 1645.6492	9.291 2167.6938
9.292 1606.7356	9.292 1637.9569	9.292 2172.089
9.293 1601.8877	9.293 1631.5477	9.293 2175.633
9.294 1597.903	9.294 1627.3289	9.294 2178.4516
9.295 1595.1664	9.295 1625.7172	9.295 2180.7297
9.296 1593.532	9.296 1626.5755	9.296 2182.5576
9.297 1592.5723	9.297 1629.1623	9.297 2183.9241
9.298 1591.9569	9.298 1632.2628	9.298 2184.8021
9.299 1591.7202	9.299 1634.6242	9.299 2185.1848
9.3 1592.2415	9.3 1635.5437	9.3 2185.0251
9.301 1593.9813	9.301 1635.2684	9.301 2184.1603
9.302 1597.1535	9.302 1634.9302	9.302 2182.3347
9.303 1601.5332	9.303 1636.0365	9.303 2179.3972
9.304 1606.4702	9.304 1639.7963	9.304 2175.5817
9.305 1611.0711	9.305 1646.5969	9.305 2171.6799
9.306 1614.4467	9.306 1655.7873	9.306 2168.9601
9.307 1615.9289	9.307 1665.7904	9.307 2168.7732
9.308 1615.2293	9.308 1674.4913	9.308 2171.976
9.309 1612.517	9.309 1679.8272	9.309 2178.4734
9.31 1608.4223	9.31 1680.4511	9.31 2187.1207
9.311 1603.9576	9.311 1676.2451	9.311 2196.1043
9.312 1600.319	9.312 1668.4623	9.312 2203.6198
9.313 1598.5622	9.313 1659.3863	9.313 2208.4765
9.314 1599.1928	9.314 1651.6156	9.314 2210.3349
9.315 1601.882	9.315 1647.254	9.315 2209.5065
9.316 1605.4629	9.316 1647.3211	9.316 2206.5691
9.317 1608.31	9.317 1651.5525	9.317 2202.0716
9.318 1608.9092	9.318 1658.6078	9.318 2196.4668
9.319 1606.3345	9.319 1666.564	9.319 2190.1956
9.32 1600.4235	9.32 1673.4679	9.32 2183.7879
9.321 1591.6784	9.321 1677.7958	9.321 2177.9257
9.322 1581.0574	9.322 1678.6923	9.322 2173.4393
9.323 1569.7984	9.323 1675.9909	9.323 2171.1991
9.324 1559.2264	9.324 1670.1159	9.324 2171.8889
9.325 1550.4547	9.325 1661.9324	9.325 2175.6641
9.326 1544.0091	9.326 1652.6106	9.326 2181.882
9.327 1539.5549	9.327 1643.4655	9.327 2189.1018
9.328 1535.9681	9.328 1635.7717	9.328 2195.4599
9.329 1531.7885	9.329 1630.5546	9.329 2199.2835
9.33 1525.8413	9.33 1628.4022	9.33 2199.6392
9.331 1517.6908	9.331 1629.3355	9.331 2196.576

9.332 1507.7109	9.332 1632.779	9.332 2190.9693
9.333 1496.7647	9.333 1637.709	9.333 2184.1499
9.334 1485.749	9.334 1642.9386	9.334 2177.5096
9.335 1475.2562	9.335 1647.4653	9.335 2172.2674
9.336 1465.5403	9.336 1650.6988	9.336 2169.3465
9.337 1456.7198	9.337 1652.4739	9.337 2169.2973
9.338 1448.9957	9.338 1652.9048	9.338 2172.1833
9.339 1442.6745	9.339 1652.2444	9.339 2177.4894
9.34 1437.9478	9.34 1650.8388	9.34 2184.1854
9.341 1434.6133	9.341 1649.1739	9.341 2190.989
9.342 1431.9849	9.342 1647.8547	9.342 2196.7723
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9.347 1409.2648	9.347 1655.4754	9.347 2210.3192
9.348 1405.1925	9.348 1658.2285	9.348 2214.511
9.349 1402.6367	9.349 1660.7916	9.349 2219.2154
9.35 1401.2435	9.35 1663.0605	9.35 2223.0407
9.351 1400.29	9.351 1664.9059	9.351 2224.4361
9.352 1399.1739	9.352 1666.2691	9.352 2222.3796
9.353 1397.7825	9.353 1667.3166	9.353 2216.8574
9.354 1396.5228	9.354 1668.4817	9.354 2208.9034
9.355 1396.0176	9.355 1670.309	9.355 2200.1748
9.356 1396.6318	9.356 1673.2038	9.356 2192.3257
9.357 1398.1061	9.357 1677.2605	9.357 2186.52
9.358 1399.5337	9.358 1682.2227	9.358 2183.266
9.359 1399.7262	9.359 1687.5957	9.359 2182.6136
9.36 1397.8228	9.36 1692.7527	9.36 2184.432
9.361 1393.7951	9.361 1697.0504	9.361 2188.5248
9.362 1388.5531	9.362 1699.9302	9.362 2194.4431
9.363 1383.566	9.363 1701.0282	9.363 2201.1964
9.364 1380.2153	9.364 1700.2489	9.364 2207.2102
9.365 1379.2415	9.365 1697.7655	9.365 2210.6971
9.366 1380.5617	9.366 1693.9434	9.366 2210.3492
9.367 1383.4962	9.367 1689.2409	9.367 2205.9236
9.368 1387.2336	9.368 1684.1291	9.368 2198.395
9.369 1391.2308	9.369 1679.059	9.369 2189.6111
9.37 1395.3575	9.37 1674.4326	9.37 2181.6649
9.371 1399.7443	9.371 1670.5985	9.371 2176.2965
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9.377 1414.7655	9.377 1669.9967	9.377 2198.6376
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9.38 1397.2136	9.38 1678.4002	9.38 2196.8882
9.381 1391.6513	9.381 1681.4325	9.381 2192.1265
9.382 1388.2194	9.382 1684.3003	9.382 2185.9178

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9.385 1395.3159	9.385 1689.987	9.385 2157.768
9.386 1403.3563	9.386 1690.4724	9.386 2146.0234
9.387 1413.3684	9.387 1690.2274	9.387 2134.9244
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9.389 1433.6058	9.389 1688.0923	9.389 2121.2815
9.39 1439.8411	9.39 1686.599	9.39 2121.2836
9.391 1441.0501	9.391 1685.1333	9.391 2126.3477
9.392 1436.5874	9.392 1683.98	9.392 2135.6713
9.393 1427.2632	9.393 1683.4541	9.393 2147.5014
9.394 1415.1779	9.394 1683.8427	9.394 2159.4484
9.395 1403.0717	9.395 1685.3116	9.395 2169.0978
9.396 1393.4777	9.396 1687.8279	9.396 2174.7138
9.397 1387.9976	9.397 1691.1569	9.397 2175.717
9.398 1386.9301	9.398 1694.9035	9.398 2172.7361
9.399 1389.3083	9.399 1698.6034	9.399 2167.2042
9.4 1393.2839	9.4 1701.8481	9.4 2160.7758
9.401 1396.7144	9.401 1704.4071	9.401 2154.8123
9.402 1397.7521	9.402 1706.3122	9.402 2150.1491
9.403 1395.2343	9.403 1707.8179	9.403 2147.1142
9.404 1388.7812	9.404 1709.2328	9.404 2145.6982
9.405 1378.6786	9.405 1710.7217	9.405 2145.7004
9.406 1365.7077	9.406 1712.173	9.406 2146.7899
9.407 1351.0196	9.407 1713.2461	9.407 2148.4773
9.408 1336.0141	9.408 1713.5794	9.408 2150.1118
9.409 1322.1111	9.409 1713.0554	9.409 2150.9604
9.41 1310.3906	9.41 1712.0067	9.41 2150.3647
9.411 1301.2447	9.411 1711.1946	9.411 2147.9129
9.412 1294.2732	9.412 1711.5157	9.412 2143.5413
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9.414 1282.9813	9.414 1716.9786	9.414 2130.2892
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9.421 1260.6275	9.421 1711.2976	9.421 2081.7012
9.422 1263.1805	9.422 1706.6106	9.422 2076.9242
9.423 1265.6264	9.423 1702.8329	9.423 2071.4005
9.424 1267.6999	9.424 1700.5227	9.424 2064.5823
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9.426 1272.6166	9.426 1701.8727	9.426 2048.6762
9.427 1276.7294	9.427 1705.431	9.427 2042.2027
9.428 1281.98	9.428 1709.9747	9.428 2038.7563
9.429 1287.3699	9.429 1714.2396	9.429 2039.2594
9.43 1291.3036	9.43 1716.8554	9.43 2043.7634
9.431 1292.2285	9.431 1716.7841	9.431 2051.4654
9.432 1289.3863	9.432 1713.6993	9.432 2060.9187
9.433 1283.3039	9.433 1708.1952	9.433 2070.3599

9.434 1275.6984	9.434 1701.71	9.434 2078.1248
9.435 1268.7817	9.435 1696.1251	9.435 2083.0757
9.436 1264.2793	9.436 1693.1667	9.436 2084.8338
9.437 1262.7026	9.437 1693.8223	9.437 2083.7209
9.438 1263.2575	9.438 1698.0263	9.438 2080.4459
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9.441 1263.713	9.441 1718.6738	9.441 2064.3094
9.442 1261.3299	9.442 1722.7369	9.442 2058.3278
9.443 1258.3307	9.443 1723.6275	9.443 2052.6415
9.444 1255.521	9.444 1721.4321	9.444 2047.5582
9.445 1253.6029	9.445 1717.0346	9.445 2043.2963
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9.448 1257.23	9.448 1704.2064	9.448 2036.6613
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9.453 1266.3567	9.453 1702.1074	9.453 2046.6717
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9.457 1257.9311	9.457 1719.0833	9.457 2074.9088
9.458 1257.08	9.458 1726.817	9.458 2081.7602
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9.467 1224.9077	9.467 1708.8117	9.467 2068.8747
9.468 1230.9082	9.468 1702.3593	9.468 2074.4908
9.469 1238.201	9.469 1699.6872	9.469 2080.3016
9.47 1244.692	9.47 1701.9304	9.47 2084.6662
9.471 1248.612	9.471 1709.1756	9.471 2086.4432
9.472 1249.0415	9.472 1720.317	9.472 2085.1792
9.473 1246.0124	9.473 1733.2657	9.473 2081.0995
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9.475 1232.5237	9.475 1754.4114	9.475 2068.0945
9.476 1223.6282	9.476 1758.4305	9.476 2061.7279
9.477 1213.9344	9.477 1756.9021	9.477 2057.1388
9.478 1203.644	9.478 1750.4586	9.478 2055.1692
9.479 1192.881	9.479 1740.7539	9.479 2056.0779
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9.487	1139.1551	9.487	1739.9961	9.487	2062.3835
9.488	1144.0996	9.488	1746.7407	9.488	2060.2425
9.489	1150.1976	9.489	1750.366	9.489	2061.0434
9.49	1155.7617	9.49	1751.0251	9.49	2064.7804
9.491	1159.1786	9.491	1749.8816	9.491	2070.512
9.492	1159.29	9.492	1748.4543	9.492	2076.8965
9.493	1155.732	9.493	1747.8181	9.493	2082.7391
9.494	1149.1207	9.494	1748.1257	9.494	2087.2759
9.495	1140.9128	9.495	1748.6774	9.495	2090.2043
9.496	1132.8667	9.496	1748.502	9.496	2091.6023
9.497	1126.3217	9.497	1747.0706	9.497	2091.875
9.498	1121.6276	9.498	1744.706	9.498	2091.7057
9.499	1117.9878	9.499	1742.4539	9.499	2091.9197
9.5	1113.7854	9.5	1741.5027	9.5	2093.2263
9.501	1107.2124	9.501	1742.5322	9.501	2095.9105
9.502	1096.947	9.502	1745.3883	9.502	2099.6563
9.503	1082.6777	9.503	1749.227	9.503	2103.6092
9.504	1065.3174	9.504	1753.0058	9.504	2106.6808
9.505	1046.8294	9.505	1755.9761	9.505	2107.9837
9.506	1029.6908	9.506	1757.8809	9.506	2107.1781
9.507	1016.1517	9.507	1758.8128	9.507	2104.5274
9.508	1007.5657	9.508	1758.9243	9.508	2100.6458
9.509	1004.05	9.509	1758.2524	9.509	2096.1216
9.51	1004.5279	9.51	1756.7767	9.51	2091.3067
9.511	1007.0919	9.511	1754.6241	9.511	2086.39
9.512	1009.5313	9.512	1752.2005	9.512	2081.659
9.513	1009.8745	9.513	1750.1525	9.513	2077.659
9.514	1006.8662	9.514	1749.1492	9.514	2075.1032
9.515	1000.2397	9.515	1749.6314	9.515	2074.5887
9.516	990.71487	9.516	1751.636	9.516	2076.3599
9.517	979.70883	9.517	1754.7865	9.517	2080.2572
9.518	968.88454	9.518	1758.4629	9.518	2085.8314
9.519	959.67754	9.519	1762.0664	9.519	2092.467
9.52	952.97859	9.52	1765.248	9.52	2099.4005
9.521	949.01807	9.521	1767.9507	9.521	2105.7214
9.522	947.45378	9.522	1770.2346	9.522	2110.4588
9.523	947.5732	9.523	1772	9.523	2112.8518
9.524	948.54083	9.524	1772.8723	9.524	2112.6819
9.525	949.58712	9.525	1772.3728	9.525	2110.4622
9.526	950.0985	9.526	1770.2667	9.526	2107.3054
9.527	949.65661	9.527	1766.8532	9.527	2104.4658
9.528	948.06672	9.528	1762.9506	9.528	2102.8046
9.529	945.42045	9.529	1759.5368	9.529	2102.4478
9.53	942.15312	9.53	1757.2494	9.53	2102.8233
9.531	938.98925	9.531	1756.0164	9.531	2103.0448
9.532	936.76183	9.532	1755.0099	9.532	2102.4314
9.533	936.11837	9.533	1752.9481	9.533	2100.8688
9.534	937.26162	9.534	1748.5983	9.534	2098.8311
9.535	939.82981	9.535	1741.2161	9.535	2097.0858

9.536 942.9684	9.536 1730.7482	9.536 2096.2947
9.537 945.55727	9.537 1717.7205	9.537 2096.7684
9.538 946.52077	9.538 1702.9618	9.538 2098.5223
9.539 945.14074	9.539 1687.3874	9.539 2101.4683
9.54 941.27982	9.54 1671.9463	9.54 2105.5126
9.541 935.43824	9.541 1657.6857	9.541 2110.4167
9.542 928.60015	9.542 1645.7472	9.542 2115.5459
9.543 921.89066	9.543 1637.1684	9.543 2119.7907
9.544 916.18437	9.544 1632.5282	9.544 2121.8166
9.545 911.84585	9.545 1631.6507	9.545 2120.5961
9.546 908.74047	9.546 1633.5362	9.546 2115.9234
9.547 906.46776	9.547 1636.5986	9.547 2108.6839
9.548 904.69075	9.548 1639.0926	9.548 2100.6902
9.549 903.33265	9.549 1639.5315	9.549 2094.1347
9.55 902.55713	9.55 1636.9813	9.55 2090.8364
9.551 902.54315	9.551 1631.183	9.551 2091.5681
9.552 903.19781	9.552 1622.5769	9.552 2095.7773
9.553 903.9744	9.553 1612.2467	9.553 2101.8436
9.554 903.92733	9.554 1601.7097	9.554 2107.7839
9.555 902.01289	9.555 1592.517	9.555 2112.0544
9.556 897.58617	9.556 1585.729	9.556 2114.0777
9.557 890.88149	9.557 1581.5081	9.557 2114.2865
9.558 883.24375	9.558 1579.067	9.558 2113.7177
9.559 876.87632	9.559 1577.0328	9.559 2113.3879
9.56 874.13154	9.56 1574.0213	9.56 2113.7512
9.561 876.59686	9.561 1569.1378	9.561 2114.4808
9.562 884.38085	9.562 1562.1892	9.562 2114.6614
9.563 895.91106	9.563 1553.6168	9.563 2113.3289
9.564 908.30544	9.564 1544.2756	9.564 2110.0095
9.565 918.23145	9.565 1535.1839	9.565 2104.9784
9.566 922.97185	9.566 1527.2895	9.566 2099.1087
9.567 921.35347	9.567 1521.2252	9.567 2093.4981
9.568 914.19473	9.568 1517.1048	9.568 2089.1377
9.569 904.013	9.569 1514.4678	9.569 2086.7888
9.57 894.07334	9.57 1512.4998	9.57 2086.931
9.571 887.19117	9.571 1510.4713	9.571 2089.6856
9.572 884.83717	9.572 1508.1305	9.572 2094.691
9.573 886.883	9.573 1505.7861	9.573 2101.1219
9.574 891.97779	9.574 1503.9966	9.574 2107.9241
9.575 898.22198	9.575 1503.1069	9.575 2114.1649
9.576 903.80748	9.576 1502.9562	9.576 2119.2786
9.577 907.42596	9.577 1502.9082	9.577 2123.063
9.578 908.41408	9.578 1502.1549	9.578 2125.5347
9.579 906.69304	9.579 1500.0921	9.579 2126.8057
9.58 902.65061	9.58 1496.5539	9.58 2127.1177
9.581 897.03676	9.581 1491.8668	9.581 2126.9378
9.582 890.91162	9.582 1486.7359	9.582 2126.9334
9.583 885.52591	9.583 1482.0553	9.583 2127.7343
9.584 882.0311	9.584 1478.7664	9.584 2129.5713
9.585 881.04351	9.585 1477.7348	9.585 2132.0459
9.586 882.32613	9.586 1479.5798	9.586 2134.229

9.587 884.88182	9.587 1484.3924	9.587 2135.0534
9.588 887.48207	9.588 1491.4198	9.588 2133.7845
9.589 889.31084	9.589 1498.9673	9.589 2130.3679
9.59 890.27598	9.59 1504.6938	9.59 2125.4563
9.591 890.82856	9.591 1506.3164	9.591 2120.1941
9.592 891.51364	9.592 1502.485	9.592 2115.887
9.593 892.63898	9.593 1493.451	9.593 2113.7073
9.594 894.25345	9.594 1481.2396	9.594 2114.4681
9.595 896.30814	9.595 1469.1533	9.595 2118.4604
9.596 898.76573	9.596 1460.7513	9.596 2125.3277
9.597 901.54972	9.597 1458.6569	9.597 2134.0033
9.598 904.45787	9.598 1463.7035	9.598 2142.7976
9.599 907.16473	9.599 1474.7943	9.599 2149.715
9.6 909.33099	9.6 1489.4341	9.6 2152.9844
9.601 910.69892	9.601 1504.6079	9.601 2151.6254
9.602 911.06744	9.602 1517.5739	9.602 2145.8172
9.603 910.21554	9.603 1526.3322	9.603 2136.8761
9.604 907.85015	9.604 1529.7945	9.604 2126.8631
9.605 903.68873	9.605 1527.7929	9.605 2117.97
9.606 897.6389	9.606 1520.9966	9.606 2111.9315
9.607 889.97187	9.607 1510.77	9.607 2109.675
9.608 881.37055	9.608 1498.9332	9.608 2111.3092
9.609 872.79488	9.609 1487.4206	9.609 2116.361
9.61 865.22001	9.61 1477.9109	9.61 2124.0646
9.611 859.36437	9.611 1471.483	9.611 2133.518
9.612 855.53007	9.612 1468.4205	9.612 2143.672
9.613 853.63069	9.613 1468.2358	9.613 2153.2914
9.614 853.33552	9.614 1469.9218	9.614 2161.0386
9.615 854.23792	9.615 1472.3514	9.615 2165.7982
9.616 855.9442	9.616 1474.5986	9.616 2167.0593
9.617 858.08722	9.617 1476.0739	9.617 2165.1365
9.618 860.30944	9.618 1476.431	9.618 2161.0314
9.619 862.28926	9.619 1475.413	9.619 2156.0034
9.62 863.79158	9.62 1472.783	9.62 2151.0871
9.621 864.69662	9.621 1468.4134	9.621 2146.8195
9.622 864.97396	9.622 1462.4697	9.622 2143.3192
9.623 864.59825	9.623 1455.4904	9.623 2140.5964
9.624 863.49201	9.624 1448.2694	9.624 2138.8433
9.625 861.50566	9.625 1441.5766	9.625 2138.5022
9.626 858.40972	9.626 1435.8707	9.626 2140.0364
9.627 853.87189	9.627 1431.2039	9.627 2143.5873
9.628 847.47559	9.628 1427.3628	9.628 2148.7638
9.629 838.86899	9.629 1424.1427	9.629 2154.7243
9.63 828.04003	9.63 1421.5509	9.63 2160.5356
9.631 815.56757	9.631 1419.7822	9.631 2165.5635
9.632 802.58925	9.632 1418.9772	9.632 2169.6552
9.633 790.41406	9.633 1418.9365	9.633 2172.998
9.634 779.94506	9.634 1419.0152	9.634 2175.7773
9.635 771.29008	9.635 1418.2983	9.635 2177.8598
9.636 763.83792	9.636 1415.9804	9.636 2178.7313
9.637 756.75234	9.637 1411.7199	9.637 2177.7151

9.638 749.54966	9.638 1405.8071	9.638 2174.3533
9.639 742.39254	9.639 1399.0702	9.639 2168.7486
9.64 735.8983	9.64 1392.6029	9.64 2161.6564
9.641 730.66484	9.641 1387.4377	9.641 2154.3152
9.642 726.8089	9.642 1384.254	9.642 2148.0764
9.643 723.8307	9.643 1383.1979	9.643 2143.9765
9.644 720.87093	9.644 1383.8407	9.644 2142.3932
9.645 717.16368	9.645 1385.3438	9.645 2142.9221
9.646 712.42408	9.646 1386.7637	9.646 2144.5529
9.647 706.96421	9.647 1387.3524	9.647 2146.1056
9.648 701.55918	9.648 1386.7505	9.648 2146.7511
9.649 697.15932	9.649 1385.0239	9.649 2146.3566
9.65 694.6296	9.65 1382.6343	9.65 2145.4706
9.651 694.59255	9.651 1380.3933	9.651 2144.9925
9.652 697.3216	9.652 1379.3605	9.652 2145.6881
9.653 702.64308	9.653 1380.5647	9.653 2147.8313
9.654 709.83357	9.654 1384.5867	9.654 2151.1257
9.655 717.59185	9.655 1391.1861	9.655 2154.8834
9.656 724.2121	9.656 1399.2317	9.656 2158.3372
9.657 728.00964	9.657 1407.0312	9.657 2160.8854
9.658 727.85616	9.658 1412.9261	9.658 2162.2
9.659 723.60516	9.659 1415.8126	9.659 2162.2071
9.66 716.16648	9.66 1415.3773	9.66 2161.0403
9.661 707.23273	9.661 1411.9662	9.661 2159.0283
9.662 698.80749	9.662 1406.2898	9.662 2156.7035
9.663 692.71036	9.663 1399.1458	9.663 2154.7609
9.664 690.1754	9.664 1391.3324	9.664 2153.9314
9.665 691.60323	9.665 1383.6556	9.665 2154.807
9.666 696.49043	9.666 1376.9438	9.666 2157.72
9.667 703.60538	9.667 1371.9608	9.667 2162.7305
9.668 711.40734	9.668 1369.2211	9.668 2169.6907
9.669 718.54404	9.669 1368.7933	9.669 2178.2383
9.67 724.2346	9.67 1370.1981	9.67 2187.6467
9.671 728.31455	9.671 1372.4787	9.671 2196.6605
9.672 730.98383	9.672 1374.4823	9.672 2203.52
9.673 732.48229	9.673 1375.2187	9.673 2206.3493
9.674 732.96619	9.674 1374.1732	9.674 2203.8478
9.675 732.61558	9.675 1371.4188	9.675 2195.9097
9.676 731.78687	9.676 1367.4867	9.676 2183.8441
9.677 730.98665	9.677 1363.1267	9.677 2170.035
9.678 730.57908	9.678 1359.11	9.678 2157.2195
9.679 730.4624	9.679 1356.1519	9.679 2147.7385
9.68 730.01999	9.68 1354.9255	9.68 2143.033
9.681 728.42965	9.681 1356.0277	9.681 2143.4954
9.682 725.14185	9.682 1359.8194	9.682 2148.5742
9.683 720.21853	9.683 1366.2129	9.683 2157.0031
9.684 714.34611	9.684 1374.5486	9.684 2167.0886
9.685 708.59914	9.685 1383.6761	9.685 2177.0485
9.686 704.08283	9.686 1392.2558	9.686 2185.3981
9.687 701.64473	9.687 1399.1141	9.687 2191.3161
9.688 701.67601	9.688 1403.4946	9.688 2194.795

9.689 704.04855	9.689 1405.0765	9.689 2196.4749
9.69 708.16264	9.69 1403.818	9.69 2197.203
9.691 713.10728	9.691 1399.7945	9.691 2197.5447
9.692 717.90668	9.692 1393.2089	9.692 2197.541
9.693 721.7696	9.693 1384.6182	9.693 2196.8394
9.694 724.28957	9.694 1375.182	9.694 2195.1072
9.695 725.50476	9.695 1366.6519	9.695 2192.4416
9.696 725.78452	9.696 1360.9463	9.696 2189.5117
9.697 725.57446	9.697 1359.3971	9.697 2187.3684
9.698 725.11329	9.698 1362.0933	9.698 2186.9919
9.699 724.26141	9.699 1367.7053	9.699 2188.834
9.7 722.52883	9.7 1373.9741	9.7 2192.5791
9.701 719.2852	9.701 1378.6386	9.701 2197.1943
9.702 714.03838	9.702 1380.3088	9.702 2201.264
9.703 706.67754	9.703 1378.8498	9.703 2203.4547
9.704 697.56685	9.704 1375.1168	9.704 2202.9705
9.705 687.46026	9.705 1370.2916	9.705 2199.8489
9.706 677.31959	9.706 1365.2731	9.706 2194.9548
9.707 668.12382	9.707 1360.4138	9.707 2189.672
9.708 660.7204	9.708 1355.675	9.708 2185.4026
9.709 655.70063	9.709 1350.989	9.709 2183.1016
9.71 653.27691	9.71 1346.5346	9.71 2183.0498
9.711 653.16433	9.711 1342.7598	9.711 2184.9164
9.712 654.53889	9.712 1340.1256	9.712 2187.9927
9.713 656.18783	9.713 1338.7492	9.713 2191.4386
9.714 656.79223	9.714 1338.1916	9.714 2194.4518
9.715 655.27838	9.715 1337.5791	9.715 2196.3836
9.716 651.12135	9.716 1336.008	9.716 2196.8504
9.717 644.53369	9.717 1333.0025	9.717 2195.8312
9.718 636.48229	9.718 1328.6962	9.718 2193.7242
9.719 628.47647	9.719 1323.6516	9.719 2191.2826
9.72 622.11806	9.72 1318.4694	9.72 2189.4463
9.721 618.57205	9.721 1313.4941	9.721 2189.0428
9.722 618.18361	9.722 1308.7985	9.722 2190.4546
9.723 620.41234	9.723 1304.3622	9.723 2193.3639
9.724 624.10266	9.724 1300.2701	9.724 2196.7497
9.725 627.91239	9.725 1296.7895	9.725 2199.2205
9.726 630.70811	9.726 1294.3412	9.726 2199.583
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9.728 631.08447	9.728 1294.564	9.728 2193.1634
9.729 628.94839	9.729 1298.1258	9.729 2188.2062
9.73 626.23117	9.73 1304.1286	9.73 2184.021
9.731 624.00028	9.731 1312.0047	9.731 2181.707
9.732 623.30023	9.732 1320.615	9.732 2181.6137
9.733 624.8899	9.733 1328.5528	9.733 2183.3989
9.734 628.97215	9.734 1334.6317	9.734 2186.4131
9.735 634.99669	9.735 1338.2728	9.735 2190.1134
9.736 641.68569	9.736 1339.5695	9.736 2194.2291
9.737 647.35947	9.737 1339.0753	9.737 2198.5913
9.738 650.51844	9.738 1337.4666	9.738 2202.8246
9.739 650.46853	9.739 1335.3545	9.739 2206.2033

9.74 647.65836	9.74 1333.2795	9.74 2207.85
9.741 643.53086	9.741 1331.7723	9.741 2207.142
9.742 639.96239	9.742 1331.3235	9.742 2204.0529
9.743 638.56022	9.743 1332.2253	9.743 2199.1779
9.744 640.09711	9.744 1334.3572	9.744 2193.4975
9.745 644.27364	9.745 1337.1442	9.745 2188.0307
9.746 649.82105	9.746 1339.7384	9.746 2183.5824
9.747 654.91859	9.747 1341.3686	9.747 2180.6155
9.748 657.85045	9.748 1341.6381	9.748 2179.2468
9.749 657.6731	9.749 1340.5983	9.749 2179.3146
9.75 654.6449	9.75 1338.5879	9.75 2180.5239
9.751 650.15557	9.751 1335.9954	9.751 2182.5965
9.752 646.16851	9.752 1333.096	9.752 2185.3303
9.753 644.41644	9.753 1330.0736	9.753 2188.5026
9.754 645.75388	9.754 1327.1444	9.754 2191.6943
9.755 649.91642	9.755 1324.7114	9.755 2194.2304
9.756 655.69824	9.756 1323.3784	9.756 2195.3358
9.757 661.41597	9.757 1323.8132	9.757 2194.4265
9.758 665.4137	9.758 1326.4484	9.758 2191.3885
9.759 666.46645	9.759 1331.1774	9.759 2186.6117
9.76 664.01842	9.76 1337.1784	9.76 2180.8105
9.761 658.28293	9.761 1343.043	9.761 2174.7727
9.762 650.24917	9.762 1347.1872	9.762 2169.2203
9.763 641.55311	9.763 1348.4231	9.763 2164.8184
9.764 634.14856	9.764 1346.4385	9.764 2162.2366
9.765 629.76632	9.765 1341.9762	9.765 2162.1224
9.766 629.30087	9.766 1336.6285	9.766 2164.8958
9.767 632.42996	9.767 1332.2834	9.767 2170.4455
9.768 637.68745	9.768 1330.4457	9.768 2177.9329
9.769 642.98871	9.769 1331.7136	9.769 2185.8697
9.77 646.39657	9.77 1335.568	9.77 2192.5527
9.771 646.80058	9.771 1340.5909	9.771 2196.6725
9.772 644.25735	9.772 1344.991	9.772 2197.8053
9.773 639.93024	9.773 1347.271	9.773 2196.5355
9.774 635.66324	9.774 1346.7616	9.774 2194.1487
9.775 633.32334	9.775 1343.8123	9.775 2192.0907
9.776 634.13086	9.776 1339.5476	9.776 2191.4569
9.777 638.19454	9.777 1335.354	9.777 2192.6945
9.778 644.45201	9.778 1332.335	9.778 2195.5953
9.779 651.06445	9.779 1330.9712	9.779 2199.4643
9.78 656.11771	9.78 1331.0431	9.78 2203.394
9.781 658.34632	9.781 1331.7827	9.781 2206.5156
9.782 657.53564	9.782 1332.1386	9.782 2208.2155
9.783 654.43242	9.783 1331.1638	9.783 2208.2434
9.784 650.28744	9.784 1328.4137	9.784 2206.7576
9.785 646.32174	9.785 1324.2473	9.785 2204.275
9.786 643.43039	9.786 1319.8125	9.786 2201.5627
9.787 642.18861	9.787 1316.6461	9.787 2199.4865
9.788 642.98256	9.788 1315.9908	9.788 2198.7802
9.789 646.02013	9.789 1318.1801	9.789 2199.7591
9.79 651.19117	9.79 1322.4162	9.79 2202.0817

9.791 657.89106	9.791 1327.1009	9.791 2204.7357
9.792 665.00385	9.792 1330.5795	9.792 2206.3395
9.793 671.13685	9.793 1331.9348	9.793 2205.7096
9.794 675.03075	9.794 1331.4436	9.794 2202.4139
9.795 675.94478	9.795 1330.4861	9.795 2197.0184
9.796 673.89226	9.796 1330.9186	9.796 2190.846
9.797 669.63714	9.797 1334.1924	9.797 2185.3488
9.798 664.43619	9.798 1340.5992	9.798 2181.3834
9.799 659.6593	9.799 1349.0501	9.799 2178.7545
9.8 656.40909	9.8 1357.5051	9.8 2176.2438
9.801 655.309	9.801 1363.8664	9.801 2172.0985
9.802 656.50418	9.802 1366.8606	9.802 2164.7685
9.803 659.76265	9.803 1366.456	9.803 2153.5436
9.804 664.58459	9.804 1363.6652	9.804 2138.8678
9.805 670.28245	9.805 1359.8841	9.805 2122.193
9.806 676.09486	9.806 1356.1734	9.806 2105.5055
9.807 681.35589	9.807 1352.8831	9.807 2090.6953
9.808 685.61348	9.808 1349.732	9.808 2079.0648
9.809 688.55544	9.809 1346.2831	9.809 2071.1221
9.81 689.81493	9.81 1342.4208	9.81 2066.6774
9.811 688.83977	9.811 1338.5404	9.811 2065.0942
9.812 685.0643	9.812 1335.3505	9.812 2065.5357
9.813 678.34991	9.813 1333.4838	9.813 2067.1197
9.814 669.40851	9.814 1333.1905	9.814 2068.9643
9.815 659.79802	9.815 1334.3287	9.815 2070.2101
9.816 651.44771	9.816 1336.5334	9.816 2070.0425
9.817 645.9153	9.817 1339.3969	9.817 2067.7172
9.818 643.81077	9.818 1342.5239	9.818 2062.5683
9.819 644.69483	9.819 1345.5233	9.819 2054.0192
9.82 647.41724	9.82 1348.0046	9.82 2041.673
9.821 650.6465	9.821 1349.6324	9.821 2025.5234
9.822 653.28487	9.822 1350.2018	9.822 2006.2151
9.823 654.59803	9.823 1349.6845	9.823 1985.1495
9.824 654.13268	9.824 1348.2583	9.824 1964.266
9.825 651.58308	9.825 1346.325	9.825 1945.4474
9.826 646.76106	9.826 1344.4805	9.826 1929.809
9.827 639.70298	9.827 1343.4049	9.827 1917.2235
9.828 630.81664	9.828 1343.6737	9.828 1906.3737
9.829 620.91919	9.829 1345.5825	9.829 1895.2897
9.83 611.1331	9.83 1349.0767	9.83 1882.0933
9.831 602.65187	9.831 1353.8386	9.831 1865.5961
9.832 596.51704	9.832 1359.4363	9.832 1845.5571
9.833 593.47383	9.833 1365.4459	9.833 1822.6462
9.834 593.89832	9.834 1371.4372	9.834 1798.1981
9.835 597.77198	9.835 1376.9056	9.835 1773.8731
9.836 604.66911	9.836 1381.236	9.836 1751.27
9.837 613.76355	9.837 1383.7947	9.837 1731.5782
9.838 623.83377	9.838 1384.1143	9.838 1715.3704
9.839 633.32011	9.839 1382.0883	9.839 1702.605
9.84 640.47399	9.84 1378.1039	9.84 1692.8033
9.841 643.60207	9.841 1373.0478	9.841 1685.2775

9.842 641.49001	9.842 1368.1658	9.842 1679.2714
9.843 633.89562	9.843 1364.7544	9.843 1673.9753
9.844 621.90814	9.844 1363.7263	9.844 1668.5318
9.845 607.94423	9.845 1365.2361	9.845 1662.1173
9.846 595.19247	9.846 1368.511	9.846 1654.1722
9.847 586.63132	9.847 1372.0074	9.847 1644.6374
9.848 584.0169	9.848 1373.8752	9.848 1634.0468
9.849 587.287	9.849 1372.5678	9.849 1623.3063
9.85 594.65436	9.85 1367.4416	9.85 1613.2839
9.851 603.32193	9.851 1359.1083	9.851 1604.4432
9.852 610.44445	9.852 1349.3524	9.852 1596.7899
9.853 613.98431	9.853 1340.5902	9.853 1590.1412
9.854 613.17593	9.854 1335.0401	9.854 1584.4791
9.855 608.51388	9.855 1334.0172	9.855 1580.0507
9.856 601.38086	9.856 1337.6376	9.856 1577.0975
9.857 593.48551	9.857 1345.0364	9.857 1575.4263
9.858 586.3792	9.858 1354.8245	9.858 1574.1359
9.859 581.16896	9.859 1365.4862	9.859 1571.7752
9.86 578.38881	9.86 1375.5836	9.86 1566.8812
9.861 577.94757	9.861 1383.8296	9.861 1558.6629
9.862 579.1168	9.862 1389.2002	9.862 1547.4867
9.863 580.6493	9.863 1391.127	9.863 1534.9229
9.864 581.05119	9.864 1389.677	9.864 1523.2859
9.865 579.02993	9.865 1385.5442	9.865 1514.8319
9.866 573.91307	9.866 1379.8251	9.866 1510.9621
9.867 565.86859	9.867 1373.6492	9.867 1511.7603
9.868 555.84798	9.868 1367.8886	9.868 1516.036
9.869 545.28969	9.869 1363.094	9.869 1521.7677
9.87 535.69678	9.87 1359.627	9.87 1526.714
9.871 528.27779	9.871 1357.8288	9.871 1528.9294
9.872 523.7405	9.872 1358.0243	9.872 1527.0613
9.873 522.27745	9.873 1360.341	9.873 1520.4851
9.874 523.67998	9.874 1364.455	9.874 1509.3677
9.875 527.46814	9.875 1369.5163	9.875 1494.7034
9.876 532.92925	9.876 1374.3466	9.876 1478.2543
9.877 539.10291	9.877 1377.8527	9.877 1462.2961
9.878 544.75685	9.878 1379.404	9.878 1449.1324
9.879 548.49978	9.879 1378.9979	9.879 1440.5038
9.88 549.05599	9.88 1377.1654	9.88 1437.1821
9.881 545.62428	9.881 1374.746	9.881 1438.909
9.882 538.20849	9.882 1372.6577	9.882 1444.7075
9.883 527.72769	9.883 1371.7345	9.883 1453.322
9.884 515.86654	9.884 1372.5541	9.884 1463.526
9.885 504.67351	9.885 1375.2144	9.885 1474.1786
9.886 496.03849	9.886 1379.1282	9.886 1484.1531
9.887 491.18549	9.887 1383.0232	9.887 1492.3075
9.888 490.35638	9.888 1385.2975	9.888 1497.6475
9.889 492.75737	9.889 1384.6941	9.889 1499.6024
9.89 496.76331	9.89 1380.9646	9.89 1498.2797
9.891 500.30645	9.891 1375.1283	9.891 1494.4901
9.892 501.33501	9.892 1369.1218	9.892 1489.5048

9.893 498.27056	9.893 1364.9914	9.893 1484.6328
9.894 490.39131	9.894 1364.0902	9.894 1480.8196
9.895 478.06279	9.895 1366.6616	9.895 1478.4399
9.896 462.64673	9.896 1371.9481	9.896 1477.3633
9.897 446.11461	9.897 1378.6645	9.897 1477.1981
9.898 430.47588	9.898 1385.509	9.898 1477.5338
9.899 417.31148	9.899 1391.554	9.899 1478.0844
9.9 407.58277	9.9 1396.3632	9.9 1478.6669
9.901 401.65337	9.901 1399.9279	9.901 1479.1087
9.902 399.35879	9.902 1402.4059	9.902 1479.1568
9.903 400.03305	9.903 1403.7983	9.903 1478.5075
9.904 402.61805	9.904 1403.7565	9.904 1476.9657
9.905 405.95059	9.905 1401.6423	9.905 1474.6551
9.906 409.17311	9.906 1396.8683	9.906 1472.1358
9.907 411.9524	9.907 1389.294	9.907 1470.227
9.908 414.37159	9.908 1379.4382	9.908 1469.5769
9.909 416.54658	9.909 1368.4214	9.909 1470.2258
9.91 418.32753	9.91 1357.7047	9.91 1471.4667
9.911 419.33723	9.911 1348.7977	9.911 1472.1705
9.912 419.3343	9.912 1342.9708	9.912 1471.43
9.913 418.57959	9.913 1340.982	9.913 1469.1268
9.914 417.89217	9.914 1342.8581	9.914 1466.103
9.915 418.27545	9.915 1347.892	9.915 1463.8253
9.916 420.32084	9.916 1354.8585	9.916 1463.748
9.917 423.77483	9.917 1362.3776	9.917 1466.6695
9.918 427.60073	9.918 1369.1975	9.918 1472.3461
9.919 430.51298	9.919 1374.3068	9.919 1479.5267
9.92 431.66162	9.92 1377.0297	9.92 1486.3903
9.921 431.03427	9.921 1377.1896	9.921 1491.2388
9.922 429.34431	9.922 1375.3271	9.922 1493.1581
9.923 427.5623	9.923 1372.7035	9.923 1492.2906
9.924 426.40419	9.924 1370.9132	9.924 1489.5631
9.925 426.07753	9.925 1371.2156	9.925 1486.0511
9.926 426.34084	9.926 1373.9133	9.926 1482.3542
9.927 426.73774	9.927 1378.1684	9.927 1478.4469
9.928 426.8542	9.928 1382.3427	9.928 1474.0558
9.929 426.47848	9.929 1384.6712	9.929 1469.2765
9.93 425.6622	9.93 1383.9587	9.93 1464.9297
9.931 424.66338	9.931 1379.979	9.931 1462.3572
9.932 423.82374	9.932 1373.4471	9.932 1462.7748
9.933 423.41326	9.933 1365.6164	9.933 1466.5677
9.934 423.49887	9.934 1357.6858	9.934 1472.9689
9.935 423.8632	9.935 1350.3102	9.935 1480.2984
9.936 424.0162	9.936 1343.4086	9.936 1486.5969
9.937 423.31305	9.937 1336.3375	9.937 1490.3352
9.938 421.16694	9.938 1328.2982	9.938 1490.8515
9.939 417.26183	9.939 1318.7167	9.939 1488.4111
9.94 411.6924	9.94 1307.4634	9.94 1483.96
9.941 404.96803	9.941 1294.9128	9.941 1478.7622
9.942 397.85324	9.942 1281.8906	9.942 1474.0951
9.943 391.10338	9.943 1269.5743	9.943 1471.0442

9.944 385.15952	9.944 1259.3135	9.944 1470.3487
9.945 379.9733	9.945 1252.3329	9.945 1472.288
9.946 375.06312	9.946 1249.4246	9.946 1476.6151
9.947 369.79316	9.947 1250.6835	9.947 1482.5988
9.948 363.71495	9.948 1255.3868	9.948 1489.1584
9.949 356.77627	9.949 1262.0628	9.949 1495.0323
9.95 349.29058	9.95 1268.7755	9.95 1498.9616
9.951 341.74641	9.951 1273.6006	9.951 1499.9113
9.952 334.61933	9.952 1275.1613	9.952 1497.3246
9.953 328.26821	9.953 1272.9942	9.953 1491.3249
9.954 322.88529	9.954 1267.5964	9.954 1482.7486
9.955 318.48636	9.955 1260.1437	9.955 1472.9739
9.956 314.92358	9.956 1252.0828	9.956 1463.6294
9.957 311.95937	9.957 1244.7961	9.957 1456.321
9.958 309.35412	9.958 1239.398	9.958 1452.4598
9.959 306.94025	9.959 1236.622	9.959 1453.0669
9.96 304.6623	9.96 1236.7056	9.96 1458.5451
9.961 302.61895	9.961 1239.3165	9.961 1468.4085
9.962 301.07963	9.962 1243.6169	9.962 1481.1833
9.963 300.43573	9.963 1248.4462	9.963 1494.6492
9.964 301.01001	9.964 1252.5489	9.964 1506.3905
9.965 302.81018	9.965 1254.7445	9.965 1514.4727
9.966 305.39631	9.966 1254.0383	9.966 1517.9504
9.967 307.99323	9.967 1249.7473	9.967 1517
9.968 309.79391	9.968 1241.6646	9.968 1512.6462
9.969 310.27826	9.969 1230.1805	9.969 1506.2436
9.97 309.33257	9.97 1216.2511	9.97 1498.9756
9.971 307.16488	9.971 1201.1356	9.971 1491.6284
9.972 304.1295	9.972 1186.0834	9.972 1484.6866
9.973 300.59122	9.973 1172.142	9.973 1478.6017
9.974 296.88439	9.974 1160.1109	9.974 1473.9883
9.975 293.31216	9.975 1150.5916	9.975 1471.5636
9.976 290.11475	9.976 1143.9405	9.976 1471.8563
9.977 287.37403	9.977 1140.1116	9.977 1474.8425
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9.982 273.27129	9.982 1132.6568	9.982 1490.6603
9.983 269.9602	9.983 1127.5333	9.983 1487.6897
9.984 266.88172	9.984 1120.8455	9.984 1483.9622
9.985 263.99964	9.985 1112.7906	9.985 1480.9962
9.986 261.21047	9.986 1103.3485	9.986 1479.7712
9.987 258.58676	9.987 1092.2753	9.987 1480.3593
9.988 256.44374	9.988 1079.2992	9.988 1481.9825
9.989 255.14969	9.989 1064.4134	9.989 1483.3961
9.99 254.82934	9.99 1048.1137	9.99 1483.3498
9.991 255.25057	9.991 1031.4403	9.991 1480.939
9.992 256.00047	9.992 1015.7934	9.992 1475.7534
9.993 256.74726	9.993 1002.5789	9.993 1467.8388
9.994 257.343	9.994 992.84026	9.994 1457.5305

9.995 257.70385	9.995 986.97011	9.995 1445.3003
9.996 257.66594	9.996 984.60526	9.996 1431.6929
9.997 257.01863	9.997 984.66972	9.997 1417.3695
9.998 255.72634	9.998 985.59615	9.998 1403.1426
9.999 254.10193	9.999 985.70223	9.999 1389.9186
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10.002 252.91217	10.002 971.55261	10.002 1363.3554
10.003 254.35544	10.003 962.71235	10.003 1359.6106
10.004 255.91765	10.004 953.28081	10.004 1357.8525
10.005 256.84932	10.005 943.71123	10.005 1357.3434
10.006 256.67332	10.006 933.72664	10.006 1357.302
10.007 255.32206	10.007 922.59256	10.007 1357.0859
10.008 253.07076	10.008 909.70371	10.008 1356.3042
10.009 250.36407	10.009 895.10688	10.009 1354.7899
10.01 247.67391	10.01 879.62829	10.01 1352.4798
10.011 245.42662	10.011 864.54079	10.011 1349.2545
10.012 243.94741	10.012 850.97212	10.012 1344.8504
10.013 243.37321	10.013 839.43624	10.013 1338.9197
10.014 243.55746	10.014 829.72093	10.014 1331.1575
10.015 244.01062	10.015 821.1344	10.015 1321.4453
10.016 243.93815	10.016 812.92613	10.016 1309.8938
10.017 242.39462	10.017 804.54301	10.017 1296.7938
10.018 238.60375	10.018 795.64691	10.018 1282.5496
10.019 232.38335	10.019 785.94582	10.019 1267.6758
10.02 224.48033	10.02 775.07588	10.02 1252.8564
10.021 216.5545	10.021 762.65816	10.021 1238.9957
10.022 210.64928	10.022 748.50096	10.022 1227.1491
10.023 208.33537	10.023 732.78212	10.023 1218.2841
10.024 210.02093	10.024 716.07542	10.024 1212.9712
10.025 214.84311	10.025 699.17921	10.025 1211.1517
10.026 221.22999	10.026 682.85711	10.026 1212.1124
10.027 227.73251	10.027 667.58787	10.027 1214.6885
10.028 233.57189	10.028 653.47982	10.028 1217.5882
10.029 238.6531	10.029 640.3368	10.029 1219.7057
10.03 243.16633	10.03 627.83958	10.03 1220.3097
10.031 247.21376	10.031 615.73173	10.031 1219.0538
10.032 250.6675	10.032 603.92389	10.032 1215.8314
10.033 253.27554	10.033 592.48471	10.033 1210.6109
10.034 254.82339	10.034 581.55742	10.034 1203.3364
10.035 255.23115	10.035 571.32598	10.035 1193.9418
10.036 254.53349	10.036 562.04938	10.036 1182.463
10.037 252.83474	10.037 554.17423	10.037 1169.1387
10.038 250.29793	10.038 548.36827	10.038 1154.4673
10.039 247.20631	10.039 545.37335	10.039 1139.1756
10.04 244.03434	10.04 545.65329	10.04 1124.1417
10.041 241.43667	10.041 548.97636	10.041 1110.269
10.042 240.08967	10.042 554.23582	10.042 1098.3069
10.043 240.42041	10.043 559.64879	10.043 1088.6516
10.044 242.34236	10.044 563.32638	10.044 1081.2078
10.045 245.17529	10.045 563.91963	10.045 1075.385

10.046 247.83321	10.046 561.02127	10.046 1070.2896
10.047 249.23171	10.047 555.15395	10.047 1065.0305
10.048 248.73845	10.048 547.43188	10.048 1059.0925
10.049 246.44625	10.049 539.12851	10.049 1052.5876
10.05 243.14776	10.05 531.36303	10.05 1046.3213
10.051 240.00379	10.051 524.98962	10.051 1041.5753
10.052 238.05345	10.052 520.61982	10.052 1039.6541
10.053 237.78946	10.053 518.63452	10.053 1041.338
10.054 238.96692	10.054 519.14918	10.054 1046.4949
10.055 240.74658	10.055 521.90759	10.055 1054.0262
10.056 242.01403	10.056 526.25514	10.056 1062.2062
10.057 241.79603	10.057 531.23136	10.057 1069.2848
10.058 239.55995	10.058 535.78496	10.058 1074.0951
10.059 235.33833	10.059 539.03634	10.059 1076.4285
10.06 229.64952	10.06 540.42958	10.06 1076.9875
10.061 223.28036	10.061 539.72953	10.061 1076.9797
10.062 217.05405	10.062 536.91742	10.062 1077.5666
10.063 211.63444	10.063 532.08802	10.063 1079.4195
10.064 207.43307	10.064 525.46527	10.064 1082.5714
10.065 204.60508	10.065 517.4915	10.065 1086.4872
10.066 203.13354	10.066 508.87605	10.066 1090.2711
10.067 202.97554	10.067 500.47474	10.067 1092.8607
10.068 204.16135	10.068 493.04068	10.068 1093.2396
10.069 206.75992	10.069 487.03762	10.069 1090.6887
10.07 210.71278	10.07 482.67267	10.07 1085.0735
10.071 215.6468	10.071 480.11479	10.071 1077.0096
10.072 220.84909	10.072 479.69528	10.072 1067.7904
10.073 225.42939	10.073 481.83443	10.073 1058.9932
10.074 228.60198	10.074 486.72305	10.074 1051.9763
10.075 229.94686	10.075 493.97507	10.075 1047.4958
10.076 229.5191	10.076 502.55596	10.076 1045.6465
10.077 227.78554	10.077 511.10627	10.077 1046.1119
10.078 225.46642	10.078 518.4696	10.078 1048.4951
10.079 223.34281	10.079 524.1156	10.079 1052.4789
10.08 222.07462	10.08 528.1711	10.08 1057.738
10.081 222.01944	10.081 531.04074	10.081 1063.7268
10.082 223.07341	10.082 532.92114	10.082 1069.5192
10.083 224.61515	10.083 533.558	10.083 1073.871
10.084 225.67187	10.084 532.37654	10.084 1075.5246
10.085 225.32463	10.085 528.88836	10.085 1073.6435
10.086 223.18466	10.086 523.04882	10.086 1068.1605
10.087 219.63433	10.087 515.34694	10.087 1059.8504
10.088 215.70094	10.088 506.64035	10.088 1050.072
10.089 212.6226	10.089 497.89297	10.089 1040.2905
10.09 211.38636	10.09 489.95608	10.09 1031.6233
10.091 212.44337	10.091 483.45331	10.091 1024.6048
10.092 215.62899	10.092 478.73005	10.092 1019.2472
10.093 220.24982	10.093 475.8146	10.093 1015.2846
10.094 225.26659	10.094 474.42333	10.094 1012.4641
10.095 229.54794	10.095 474.05095	10.095 1010.7108
10.096 232.19102	10.096 474.14976	10.096 1010.0753

10.097 232.78357	10.097 474.31081	10.097 1010.4956
10.098 231.54245	10.098 474.35896	10.098 1011.5428
10.099 229.20818	10.099 474.27262	10.099 1012.3175
10.1 226.73837	10.1 473.99759	10.1 1011.6215
10.101 224.90501	10.101 473.26571	10.101 1008.3128
10.102 223.9944	10.102 471.53516	10.102 1001.6711
10.103 223.78773	10.103 468.07093	10.103 991.62893
10.104 223.81849	10.104 462.10282	10.104 978.80929
10.105 223.77237	10.105 453.08776	10.105 964.41488
10.106 223.7041	10.106 441.00474	10.106 949.98215
10.107 223.95316	10.107 426.6142	10.107 937.11222
10.108 224.85692	10.108 411.49739	10.108 927.16425
10.109 226.49585	10.109 397.74668	10.109 921.00389
10.11 228.67855	10.11 387.32929	10.11 918.83944
10.111 231.12317	10.111 381.40882	10.111 920.19091
10.112 233.66732	10.112 380.01344	10.112 924.04791
10.113 236.32442	10.113 382.18804	10.113 929.14603
10.114 239.16391	10.114 386.53848	10.114 934.31178
10.115 242.14085	10.115 391.82979	10.115 938.71703
10.116 245.00239	10.116 397.29189	10.116 941.97499
10.117 247.40315	10.117 402.5986	10.117 944.08413
10.118 249.16911	10.118 407.62604	10.118 945.27908
10.119 250.5419	10.119 412.18615	10.119 945.85455
10.12 252.18481	10.12 415.94736	10.12 945.99927
10.121 254.84401	10.121 418.49932	10.121 945.73792
10.122 258.85115	10.122 419.50856	10.122 944.9955
10.123 263.77938	10.123 418.82374	10.123 943.7252
10.124 268.55363	10.124 416.46305	10.124 941.96571
10.125 271.93784	10.125 412.60948	10.125 939.74011
10.126 273.09431	10.126 407.66557	10.126 936.90316
10.127 271.8538	10.127 402.3462	10.127 933.10245
10.128 268.59425	10.128 397.65728	10.128 927.97606
10.129 263.92065	10.129 394.66338	10.129 921.48097
10.13 258.4035	10.13 394.10962	10.13 914.14509
10.131 252.51559	10.131 396.16412	10.131 907.04161
10.132 246.71322	10.132 400.43817	10.132 901.43332
10.133 241.52824	10.133 406.26524	10.133 898.27958
10.134 237.59655	10.134 413.00938	10.134 897.8341
10.135 235.60225	10.135 420.23148	10.135 899.57195
10.136 236.09779	10.136 427.64519	10.136 902.46572
10.137 239.29696	10.137 434.95547	10.137 905.44081
10.138 244.87592	10.138 441.7516	10.138 907.76912
10.139 251.92391	10.139 447.52234	10.139 909.16146
10.14 259.10518	10.14 451.81376	10.14 909.6029
10.141 264.98183	10.141 454.44398	10.141 909.05069
10.142 268.38706	10.142 455.63265	10.142 907.23598
10.143 268.70471	10.143 455.93168	10.143 903.71424
10.144 266.00231	10.144 455.95524	10.144 898.12438
10.145 261.01639	10.145 456.01172	10.145 890.53529
10.146 255.01622	10.146 455.9368	10.146 881.62949
10.147 249.50109	10.147 455.20657	10.147 872.61249

10.148 245.78064	10.148 453.29898	10.148 864.90589
10.149 244.54441	10.149 450.03989	10.149 859.7619
10.15 245.64241	10.15 445.64436	10.15 857.93989
10.151 248.22879	10.151 440.48576	10.151 859.49597
10.152 251.20886	10.152 434.81348	10.152 863.71173
10.153 253.71487	10.153 428.70276	10.153 869.22114
10.154 255.34739	10.154 422.31955	10.154 874.37618
10.155 256.06568	10.155 416.28087	10.155 877.77134
10.156 255.96794	10.156 411.75154	10.156 878.69876
10.157 255.13015	10.157 410.07321	10.157 877.25675
10.158 253.66685	10.158 412.07546	10.158 874.07023
10.159 251.84265	10.159 417.4803	10.159 869.80613
10.16 250.0667	10.16 424.83749	10.16 864.84368
10.161 248.72927	10.161 432.0913	10.161 859.30883
10.162 247.974	10.162 437.45041	10.162 853.40275
10.163 247.63324	10.163 440.0241	10.163 847.71613
10.164 247.38786	10.164 439.91926	10.164 843.24792
10.165 247.05269	10.165 437.85222	10.165 841.04129
10.166 246.77997	10.166 434.64121	10.166 841.69568
10.167 246.98612	10.167 430.91161	10.167 845.0443
10.168 248.08217	10.168 427.11514	10.168 850.21498
10.169 250.15275	10.169 423.66232	10.169 856.00857
10.17 252.78479	10.17 420.99577	10.17 861.33163
10.171 255.15909	10.171 419.46363	10.171 865.48532
10.172 256.33872	10.172 419.10656	10.172 868.20895
10.173 255.61835	10.173 419.51255	10.173 869.56222
10.174 252.77624	10.174 419.84757	10.174 869.74812
10.175 248.15984	10.175 419.09693	10.175 868.94756
10.176 242.59025	10.176 416.40132	10.176 867.19599
10.177 237.13049	10.177 411.34558	10.177 864.3328
10.178 232.7855	10.178 404.08513	10.178 860.06731
10.179 230.20575	10.179 395.28362	10.179 854.21419
10.18 229.52069	10.18 385.94509	10.18 846.97524
10.181 230.3597	10.181 377.23607	10.181 839.11493
10.182 232.05041	10.182 370.37762	10.182 831.82465
10.183 233.84469	10.183 366.4943	10.183 826.23363
10.184 235.11433	10.184 366.44144	10.184 822.80629
10.185 235.47865	10.185 370.50089	10.185 820.97971
10.186 234.93174	10.186 378.16481	10.186 819.3238
10.187 233.91872	10.187 388.11757	10.187 816.19786
10.188 233.23228	10.188 398.57449	10.188 810.56585
10.189 233.66259	10.189 407.83264	10.189 802.51705
10.19 235.56868	10.19 414.84991	10.19 793.27385
10.191 238.65666	10.191 419.51742	10.191 784.73374
10.192 242.13574	10.192 422.4861	10.192 778.85424
10.193 245.10958	10.193 424.62328	10.193 777.11342
10.194 246.95334	10.194 426.42887	10.194 780.1819
10.195 247.41923	10.195 427.74357	10.195 787.76649
10.196 246.5126	10.196 427.93579	10.196 798.57227
10.197 244.32565	10.197 426.41083	10.197 810.45452
10.198 240.98761	10.198 423.09919	10.198 820.8305

10.199 236.77776	10.199 418.62505	10.199 827.37844
10.2 232.2363	10.2 414.06273	10.2 828.78526
10.201 228.1154	10.201 410.46815	10.201 825.17832
10.202 225.12694	10.202 408.43258	10.202 818.02592
10.203 223.64277	10.203 407.88608	10.203 809.54914
10.204 223.52894	10.204 408.18343	10.204 801.94272
10.205 224.25103	10.205 408.37677	10.205 796.78018
10.206 225.17272	10.206 407.54808	10.206 794.73792
10.207 225.86385	10.207 405.07796	10.207 795.63381
10.208 226.23079	10.208 400.85597	10.208 798.66387
10.209 226.43125	10.209 395.32484	10.209 802.72002
10.21 226.68717	10.21 389.43754	10.21 806.7279
10.211 227.12372	10.211 384.41087	10.211 809.93717
10.212 227.73682	10.212 381.36385	10.212 812.0847
10.213 228.47292	10.213 380.92496	10.213 813.37751
10.214 229.31836	10.214 383.01865	10.214 814.34618
10.215 230.31733	10.215 386.95432	10.215 815.6029
10.216 231.48623	10.216 391.80885	10.216 817.59296
10.217 232.73904	10.217 396.81995	10.217 820.41015
10.218 233.90654	10.218 401.53696	10.218 823.75092
10.219 234.88035	10.219 405.68903	10.219 827.00676
10.22 235.75866	10.22 408.97592	10.22 829.46381
10.221 236.86333	10.221 411.05075	10.221 830.50467
10.222 238.61367	10.222 411.69959	10.222 829.72593
10.223 241.33052	10.223 411.03634	10.223 827.00447
10.224 245.08363	10.224 409.49648	10.224 822.54182
10.225 249.67415	10.225 407.68842	10.225 816.92852
10.226 254.67415	10.226 406.25262	10.226 811.15515
10.227 259.48593	10.227 405.82945	10.227 806.41762
10.228 263.39452	10.228 407.01515	10.228 803.74046
10.229 265.70448	10.229 410.16937	10.229 803.54373
10.23 265.95255	10.23 415.08645	10.23 805.44773
10.231 264.16682	10.231 420.81615	10.231 808.45302
10.232 260.97988	10.232 425.88954	10.232 811.43327
10.233 257.48408	10.233 428.92418	10.233 813.65385
10.234 254.82108	10.234 429.29013	10.234 815.06085
10.235 253.71487	10.235 427.4028	10.235 816.19063
10.236 254.21256	10.236 424.48318	10.236 817.81424
10.237 255.7707	10.237 421.93295	10.237 820.49942
10.238 257.64084	10.238 420.69998	10.238 824.27788
10.239 259.24829	10.239 420.96573	10.239 828.54261
10.24 260.34814	10.24 422.20152	10.24 832.20643
10.241 260.89398	10.241 423.48257	10.241 834.08887
10.242 260.80256	10.242 423.87355	10.242 833.37749
10.243 259.90534	10.243 422.75095	10.243 829.93196
10.244 258.12033	10.244 420.01378	10.244 824.30046
10.245 255.71214	10.245 416.17393	10.245 817.47328
10.246 253.31641	10.246 412.23163	10.246 810.52596
10.247 251.66733	10.247 409.33824	10.247 804.32861
10.248 251.17896	10.248 408.32034	10.248 799.37295
10.249 251.68286	10.249 409.31106	10.249 795.75782

10.25 252.45835	10.25 411.68242	10.25 793.29797
10.251 252.58435	10.251 414.38163	10.251 791.74176
10.252 251.36054	10.252 416.42438	10.252 790.96992
10.253 248.66297	10.253 417.23954	10.253 791.0438
10.254 245.08142	10.254 416.67054	10.254 792.06597
10.255 241.82739	10.255 414.76766	10.255 793.96305
10.256 240.39285	10.256 411.60238	10.256 796.39821
10.257 242.02552	10.257 407.29226	10.257 798.90557
10.258 247.19373	10.258 402.16405	10.258 801.15071
10.259 255.29427	10.259 396.87158	10.259 803.14639
10.26 264.80616	10.26 392.31076	10.26 805.27479
10.261 273.86985	10.261 389.35073	10.261 808.06112
10.262 281.00097	10.262 388.51786	10.262 811.83268
10.263 285.55139	10.263 389.75187	10.263 816.3981
10.264 287.73006	10.264 392.36711	10.264 820.93583
10.265 288.24419	10.265 395.28718	10.265 824.20264
10.266 287.85944	10.266 397.49247	10.266 825.0094
10.267 287.11833	10.267 398.50333	10.267 822.75373
10.268 286.25715	10.268 398.65254	10.268 817.73404
10.269 285.27645	10.269 398.96646	10.269 811.08102
10.27 284.05496	10.27 400.68396	10.27 804.31725
10.271 282.47276	10.271 404.69017	10.271 798.79645
10.272 280.55095	10.272 411.12418	10.272 795.21602
10.273 278.58227	10.273 419.32989	10.273 793.46363
10.274 277.15424	10.274 428.08965	10.274 792.80494
10.275 277.00242	10.275 436.00351	10.275 792.32073
10.276 278.66711	10.276 441.84817	10.276 791.36398
10.277 282.11129	10.277 444.86999	10.277 789.85264
10.278 286.55552	10.278 444.93327	10.278 788.2635
10.279 290.69787	10.279 442.46395	10.279 787.3797
10.28 293.24333	10.28 438.23652	10.28 787.89202
10.281 293.47409	10.281 433.13712	10.281 790.04896
10.282 291.51639	10.282 428.05352	10.282 793.48812
10.283 288.16326	10.283 423.89773	10.283 797.36034
10.284 284.42693	10.284 421.58578	10.284 800.6612
10.285 281.08942	10.285 421.87685	10.285 802.63365
10.286 278.4842	10.286 425.03903	10.286 803.02235
10.287 276.56425	10.287 430.61045	10.287 802.08235
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10.289 273.9791	10.289 444.23257	10.289 798.7686
10.29 273.10976	10.29 449.80774	10.29 797.86759
10.291 272.49608	10.291 453.65897	10.291 798.2653
10.292 272.01579	10.292 455.75195	10.292 800.15427
10.293 271.39058	10.293 456.22155	10.293 803.24573
10.294 270.31233	10.294 455.0996	10.294 806.79947
10.295 268.6853	10.295 452.33438	10.295 809.92235
10.296 266.86466	10.296 448.03389	10.296 811.95113
10.297 265.66735	10.297 442.73712	10.297 812.72549
10.298 266.10097	10.298 437.42246	10.298 812.55883
10.299 268.85694	10.299 433.23855	10.299 811.98902
10.3 273.82045	10.3 431.05953	10.3 811.48013

10.301 279.88194	10.301 431.11963	10.301 811.26435
10.302 285.2093	10.302 432.86592	10.302 811.38883
10.303 287.85324	10.303 435.12497	10.303 811.87067
10.304 286.45446	10.304 436.51738	10.304 812.81548
10.305 280.73375	10.305 435.94247	10.305 814.38607
10.306 271.62759	10.306 432.97532	10.306 816.65994
10.307 261.09395	10.307 427.94874	10.307 819.46844
10.308 251.6339	10.308 421.7355	10.308 822.3444
10.309 245.61835	10.309 415.35001	10.309 824.66561
10.31 244.60138	10.31 409.5837	10.31 825.92551
10.311 248.83581	10.311 404.88236	10.311 825.97646
10.312 257.16919	10.312 401.46334	10.312 825.07939
10.313 267.39323	10.313 399.54764	10.313 823.72588
10.314 276.88739	10.314 399.4727	10.314 822.31612
10.315 283.33689	10.315 401.59849	10.315 820.92074
10.316 285.30871	10.316 406.07267	10.316 819.25822
10.317 282.54378	10.317 412.59363	10.317 816.92217
10.318 275.95154	10.318 420.35435	10.318 813.71846
10.319 267.27951	10.319 428.22322	10.319 809.94401
10.32 258.55579	10.32 435.06422	10.32 806.36878
10.321 251.45675	10.321 440.09734	10.321 803.90082
10.322 246.87146	10.322 443.10436	10.322 803.08803
10.323 244.84013	10.323 444.44878	10.323 803.75872
10.324 244.85263	10.324 444.91014	10.324 805.03938
10.325 246.25911	10.325 445.42349	10.325 805.73118
10.326 248.51762	10.326 446.7684	10.326 804.83924
10.327 251.19339	10.327 449.30023	10.327 801.9605
10.328 253.83313	10.328 452.79049	10.328 797.41015
10.329 255.95794	10.329 456.47348	10.329 792.09551
10.33 257.26167	10.33 459.2779	10.33 787.23649
10.331 257.87781	10.331 460.17496	10.331 783.9982
10.332 258.46252	10.332 458.52797	10.332 783.18855
10.333 259.96362	10.333 454.30241	10.333 785.11126
10.334 263.16421	10.334 448.13376	10.334 789.57495
10.335 268.28092	10.335 441.24879	10.335 796.01846
10.336 274.83019	10.336 435.27131	10.336 803.63975
10.337 281.79849	10.337 431.87814	10.337 811.49474
10.338 287.97067	10.338 432.30914	10.338 818.60553
10.339 292.26616	10.339 436.81904	10.339 824.15398
10.34 294.01576	10.34 444.35457	10.34 827.6879
10.341 293.11491	10.341 452.68299	10.341 829.24693
10.342 290.03391	10.342 459.06111	10.342 829.30706
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10.344 280.98434	10.344 457.85951	10.344 827.58703
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10.347 271.82255	10.347 427.40083	10.347 825.05096
10.348 270.96377	10.348 418.96389	10.348 823.77332
10.349 271.00775	10.349 415.31984	10.349 822.13813
10.35 271.80716	10.35 417.11958	10.35 820.45687
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10.353 279.31503	10.353 441.39191	10.353 818.96385
10.354 284.13555	10.354 448.35396	10.354 819.49318
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10.359 295.10113	10.359 445.37161	10.359 812.62647
10.36 287.32584	10.36 443.23354	10.36 811.40124
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10.362 267.81342	10.362 440.70777	10.362 815.16212
10.363 260.22184	10.363 439.86811	10.363 820.7292
10.364 255.8465	10.364 439.35462	10.364 828.16641
10.365 254.77738	10.365 439.5243	10.365 836.36101
10.366 256.25126	10.366 440.72437	10.366 843.97358
10.367 259.03493	10.367 442.99922	10.367 849.8061
10.368 261.87311	10.368 445.98533	10.368 853.16074
10.369 263.84253	10.369 449.04061	10.369 854.01917
10.37 264.51372	10.37 451.49343	10.37 853.01549
10.371 263.89679	10.371 452.86783	10.371 851.17307
10.372 262.30426	10.372 453.01543	10.372 849.51744
10.373 260.22079	10.373 452.11089	10.373 848.68717
10.374 258.27886	10.374 450.55943	10.374 848.73861
10.375 257.24991	10.375 448.88656	10.375 849.24121
10.376 257.94078	10.376 447.59475	10.376 849.60565
10.377 260.91629	10.377 447.02901	10.377 849.47434
10.378 266.14681	10.378 447.26204	10.378 848.92752
10.379 272.80125	10.379 448.06548	10.379 848.41302
10.38 279.41063	10.38 448.95735	10.38 848.42858
10.381 284.43649	10.381 449.32179	10.381 849.14986
10.382 286.96428	10.382 448.53938	10.382 850.26199
10.383 287.12821	10.383 446.1166	10.383 851.11392
10.384 286.01555	10.384 441.84362	10.384 851.12767
10.385 285.07434	10.385 435.94166	10.385 850.2244
10.386 285.38141	10.386 429.11867	10.386 848.93125
10.387 287.14672	10.387 422.42038	10.387 848.11467
10.388 289.71104	10.388 416.89279	10.388 848.50005
10.389 291.94438	10.389 413.22695	10.389 850.32051
10.39 292.85243	10.39 411.60023	10.39 853.31277
10.391 292.0194	10.391 411.80967	10.391 857.00085
10.392 289.7431	10.392 413.57603	10.392 860.97221
10.393 286.79798	10.393 416.79353	10.393 864.90867
10.394 284.01734	10.394 421.56619	10.394 868.40746
10.395 281.90687	10.395 428.02925	10.395 870.83346
10.396 280.48175	10.396 436.02229	10.396 871.42181
10.397 279.31534	10.397 444.8295	10.397 869.59602
10.398 277.78883	10.398 453.18028	10.398 865.32092
10.399 275.41413	10.399 459.59959	10.399 859.25221
10.4 272.13765	10.4 462.98626	10.4 852.6272
10.401 268.46303	10.401 463.10382	10.401 846.95312
10.402 265.34921	10.402 460.63638	10.402 843.59745

10.403 263.87466	10.403 456.77505	10.403 843.37056
10.404 264.82214	10.404 452.61565	10.404 846.20738
10.405 268.34605	10.405 448.79813	10.405 851.09126
10.406 273.85257	10.406 445.53567	10.406 856.27891
10.407 280.18454	10.407 442.88574	10.407 859.80978
10.408 285.96972	10.408 440.93795	10.408 860.08942
10.409 290.00984	10.409 439.76319	10.409 856.36002
10.41 291.59101	10.41 439.24045	10.41 848.89506
10.411 290.61825	10.411 438.98547	10.411 838.91677
10.412 287.5874	10.412 438.51977	10.412 828.27957
10.413 283.38403	10.413 437.55619	10.413 819.02843
10.414 278.99552	10.414 436.19382	10.414 812.95721
10.415 275.17226	10.415 434.84128	10.415 811.25459
10.416 272.21708	10.416 433.8912	10.416 814.32678
10.417 269.98136	10.417 433.38489	10.417 821.77157
10.418 268.1031	10.418 432.92312	10.418 832.47203
10.419 266.34474	10.419 431.95856	10.419 844.79088
10.42 264.81662	10.42 430.27212	10.42 856.85642
10.421 263.92865	10.421 428.30011	10.421 866.95531
10.422 264.12455	10.422 427.02775	10.422 873.90493
10.423 265.56974	10.423 427.49713	10.423 877.22601
10.424 268.0027	10.424 430.2311	10.424 877.01112
10.425 270.85034	10.425 434.96092	10.425 873.62653
10.426 273.52274	10.426 440.79492	10.426 867.49414
10.427 275.67105	10.427 446.6453	10.427 859.19731
10.428 277.25093	10.428 451.64603	10.428 849.80327
10.429 278.38789	10.429 455.33083	10.429 841.04264
10.43 279.19945	10.43 457.5906	10.43 834.99987
10.431 279.73102	10.431 458.54675	10.431 833.3629
10.432 279.99133	10.432 458.49243	10.432 836.64937
10.433 280.04937	10.433 457.89889	10.433 843.9288
10.434 280.04902	10.434 457.41672	10.434 853.21796
10.435 280.14519	10.435 457.73448	10.435 862.26644
10.436 280.43897	10.436 459.33644	10.436 869.27263
10.437 280.93547	10.437 462.21978	10.437 873.1855
10.438 281.55246	10.438 465.78459	10.438 873.63659
10.439 282.15167	10.439 468.93026	10.439 870.71949
10.44 282.57899	10.44 470.40236	10.44 864.8901
10.441 282.72272	10.441 469.25654	10.441 857.01375
10.442 282.56118	10.442 465.25171	10.442 848.42649
10.443 282.17906	10.443 459.02036	10.443 840.79319
10.444 281.7258	10.444 451.88008	10.444 835.7329
10.445 281.37805	10.445 445.40257	10.445 834.35574
10.446 281.30552	10.446 440.85728	10.446 836.93171
10.447 281.61647	10.447 438.79972	10.447 842.89014
10.448 282.30443	10.448 438.98658	10.448 851.08419
10.449 283.23304	10.449 440.67315	10.449 860.16398
10.45 284.21142	10.45 443.1045	10.45 868.87932
10.451 285.18214	10.451 445.89869	10.451 876.32192
10.452 286.35252	10.452 449.09785	10.452 882.10144
10.453 288.17292	10.453 452.82638	10.453 886.45997

10.454 291.06572	10.454 456.85028	10.454 890.16543
10.455 295.03342	10.455 460.35179	10.455 894.14547
10.456 299.39632	10.456 462.13429	10.456 898.97135
10.457 302.92636	10.457 461.16151	10.457 904.49436
10.458 304.33284	10.458 457.12903	10.458 909.86146
10.459 302.89842	10.459 450.75458	10.459 913.88078
10.46 298.85426	10.46 443.67129	10.46 915.49799
10.461 293.23385	10.461 437.90415	10.461 914.06404
10.462 287.34161	10.462 435.17194	10.462 909.34029
10.463 282.14345	10.463 436.26047	10.463 901.40787
10.464 277.93745	10.464 440.77848	10.464 890.71843
10.465 274.45282	10.465 447.37907	10.465 878.28279
10.466 271.1796	10.466 454.3044	10.466 865.807
10.467 267.74442	10.467 459.98386	10.467 855.45616
10.468 264.15388	10.468 463.41986	10.468 849.23826
10.469 260.86219	10.469 464.31465	10.469 848.25
10.47 258.62225	10.47 462.93958	10.47 852.23988
10.471 258.14196	10.471 459.91999	10.471 859.72298
10.472 259.68273	10.472 455.99631	10.472 868.56459
10.473 262.81298	10.473 451.84041	10.473 876.70637
10.474 266.54139	10.474 447.91826	10.474 882.70972
10.475 269.80823	10.475 444.47999	10.475 885.94732
10.476 272.05687	10.476 441.68148	10.476 886.49469
10.477 273.55691	10.477 439.72709	10.477 884.87991
10.478 275.26267	10.478 438.94904	10.478 881.84292
10.479 278.30206	10.479 439.70478	10.479 878.20056
10.48 283.4061	10.48 442.14061	10.48 874.77228
10.481 290.53557	10.481 445.99754	10.481 872.32084
10.482 298.80039	10.482 450.60215	10.482 871.44086
10.483 306.70916	10.483 455.10984	10.483 872.39881
10.484 312.57669	10.484 458.80972	10.484 875.03544
10.485 315.06068	10.485 461.33729	10.485 878.79113
10.486 313.66088	10.486 462.68555	10.486 882.88711
10.487 308.97091	10.487 463.08072	10.487 886.57991
10.488 302.53635	10.488 462.81221	10.488 889.41106
10.489 296.29927	10.489 462.15497	10.489 891.33982
10.49 291.87896	10.49 461.41249	10.49 892.70542
10.491 290.09087	10.491 461.02897	10.491 894.02773
10.492 290.89894	10.492 461.56107	10.492 895.70449
10.493 293.72497	10.493 463.40624	10.493 897.73393
10.494 297.78416	10.494 466.40935	10.494 899.59061
10.495 302.25115	10.495 469.68632	10.495 900.34149
10.496 306.2495	10.496 471.90424	10.496 898.98072
10.497 308.83561	10.497 471.96394	10.497 894.85383
10.498 309.10405	10.498 469.66084	10.498 887.98015
10.499 306.37337	10.499 465.87993	10.499 879.10597
10.5 300.397	10.5 462.14873	10.5 869.47852
10.501 291.51825	10.501 459.83967	10.501 860.44911
10.502 280.78331	10.502 459.51571	10.502 853.16733
10.503 269.89333	10.503 460.77856	10.503 848.48971
10.504 260.96255	10.504 462.69768	10.504 847.06765

10.505 255.94436	10.505 464.44665	10.505 849.40259
10.506 255.93133	10.506 465.7136	10.506 855.68648
10.507 260.61814	10.507 466.64551	10.507 865.44935
10.508 268.26332	10.508 467.44291	10.508 877.27824
10.509 276.23917	10.509 468.03234	10.509 888.86966
10.51 281.93395	10.51 468.08633	10.51 897.61736
10.511 283.58331	10.511 467.35668	10.511 901.51149
10.512 280.6947	10.512 465.97002	10.512 899.95215
10.513 273.96249	10.513 464.43351	10.513 894.0154
10.514 264.84159	10.514 463.30816	10.514 886.02659
10.515 255.07297	10.515 462.83163	10.515 878.58968
10.516 246.32098	10.516 462.78191	10.516 873.56276
10.517 239.94459	10.517 462.68728	10.517 871.4826
10.518 236.87392	10.518 462.20466	10.518 871.7073
10.519 237.51828	10.519 461.39103	10.519 873.14783
10.52 241.72584	10.52 460.66953	10.52 875.07175
10.521 248.84711	10.521 460.54533	10.521 877.55297
10.522 257.85151	10.522 461.27644	10.522 881.29981
10.523 267.52817	10.523 462.7243	10.523 887.06937
10.524 276.75763	10.524 464.43987	10.524 895.06705
10.525 284.75173	10.525 465.89943	10.525 904.68355
10.526 291.20445	10.526 466.67148	10.526 914.68162
10.527 296.24541	10.527 466.47548	10.527 923.59781
10.528 300.19679	10.528 465.162	10.528 930.13106
10.529 303.22594	10.529 462.70264	10.529 933.33485
10.53 305.08865	10.53 459.28223	10.53 932.67065
10.531 305.09233	10.531 455.37677	10.531 928.04796
10.532 302.36443	10.532 451.71553	10.532 919.91951
10.533 296.34499	10.533 449.07048	10.533 909.36261
10.534 287.28192	10.534 447.96277	10.534 898.00945
10.535 276.44381	10.535 448.45358	10.535 887.7221
10.536 265.84386	10.536 450.17287	10.536 880.1097
10.537 257.54548	10.537 452.54443	10.537 876.05836
10.538 252.89168	10.538 455.06974	10.538 875.50291
10.539 252.08725	10.539 457.50594	10.539 877.5014
10.54 254.30133	10.54 459.87932	10.54 880.62013
10.541 258.19474	10.541 462.38511	10.541 883.46252
10.542 262.51374	10.542 465.25194	10.542 885.13865
10.543 266.44634	10.543 468.60902	10.543 885.44077
10.544 269.69256	10.544 472.32154	10.544 884.72205
10.545 272.30472	10.545 475.83136	10.545 883.59356
10.546 274.50921	10.546 478.1602	10.546 882.62489
10.547 276.61737	10.547 478.14875	10.547 882.20437
10.548 279.01348	10.548 474.96685	10.548 882.50558
10.549 282.12749	10.549 468.57065	10.549 883.45488
10.55 286.29067	10.55 459.82565	10.55 884.75528
10.551 291.48578	10.551 450.16687	10.551 885.99155
10.552 297.14782	10.552 440.96862	10.552 886.86954
10.553 302.2183	10.553 433.05857	10.553 887.44021
10.554 305.46955	10.554 426.6853	10.554 888.15047
10.555 305.97007	10.555 421.89131	10.555 889.61648

10.556 303.48032	10.556 418.94948	10.556 892.19866
10.557 298.61474	10.557 418.44227	10.557 895.63674
10.558 292.73172	10.558 420.93939	10.558 898.95278
10.559 287.58856	10.559 426.50495	10.559 900.80817
10.56 284.81332	10.56 434.47568	10.56 900.13854
10.561 285.3887	10.561 443.64246	10.561 896.77755
10.562 289.3253	10.562 452.71542	10.562 891.64724
10.563 295.68681	10.563 460.67494	10.563 886.38
10.564 302.95499	10.564 466.87638	10.564 882.57755
10.565 309.55131	10.565 470.94181	10.565 881.13511
10.566 314.23356	10.566 472.68997	10.566 882.0026
10.567 316.2616	10.567 472.21889	10.567 884.42951
10.568 315.32336	10.568 470.04402	10.568 887.45243
10.569 311.47285	10.569 467.12571	10.569 890.29748
10.57 305.17871	10.57 464.66622	10.57 892.53869
10.571 297.45249	10.571 463.7187	10.571 894.03029
10.572 289.83991	10.572 464.86169	10.572 894.75542
10.573 284.08796	10.573 468.03968	10.573 894.71459
10.574 281.54125	10.574 472.64808	10.574 893.9145
10.575 282.58019	10.575 477.74662	10.575 892.38349
10.576 286.39437	10.576 482.32673	10.576 890.20728
10.577 291.24978	10.577 485.57674	10.577 887.54584
10.578 295.15655	10.578 487.12137	10.578 884.66856
10.579 296.5938	10.579 487.15083	10.579 881.99209
10.58 295.0317	10.58 486.35494	10.58 880.0423
10.581 291.00932	10.581 485.61508	10.581 879.33288
10.582 285.80024	10.582 485.58781	10.582 880.11462
10.583 280.87461	10.583 486.35503	10.583 882.1758
10.584 277.40277	10.584 487.36587	10.584 884.78251
10.585 276.0138	10.585 487.66793	10.585 886.82512
10.586 276.77807	10.586 486.35465	10.586 887.11681
10.587 279.30568	10.587 482.94899	10.587 884.74166
10.588 282.81421	10.588 477.62986	10.588 879.36396
10.589 286.22079	10.589 471.14578	10.589 871.43857
10.59 288.34616	10.59 464.53806	10.59 862.23979
10.591 288.30923	10.591 458.77401	10.591 853.62124
10.592 285.91401	10.592 454.47528	10.592 847.51584
10.593 281.86877	10.593 451.83564	10.593 845.32558
10.594 277.60035	10.594 450.7131	10.594 847.50813
10.595 274.7404	10.595 450.78822	10.595 853.55199
10.596 274.46256	10.596 451.6719	10.596 862.31263
10.597 276.98851	10.597 452.93212	10.597 872.46093
10.598 281.45845	10.598 454.10525	10.598 882.80294
10.599 286.27456	10.599 454.8071	10.599 892.3886
10.6 289.72452	10.6 454.91732	10.6 900.48619
10.601 290.67094	10.601 454.76044	10.601 906.52446
10.602 288.97339	10.602 455.1218	10.602 910.07855
10.603 285.47658	10.603 457.03083	10.603 910.91724
10.604 281.61084	10.604 461.34948	10.604 909.13746
10.605 278.79089	10.605 468.34053	10.605 905.34424
10.606 277.92495	10.606 477.4652	10.606 900.66664

10.607 279.21169	10.607 487.51943	10.607 896.5494
10.608 282.23847	10.608 497.09248	10.608 894.2821
10.609 286.27538	10.609 505.06423	10.609 894.51888
10.61 290.58578	10.61 510.86247	10.61 897.08357
10.611 294.65005	10.611 514.3729	10.611 901.1135
10.612 298.24893	10.612 515.67113	10.612 905.47565
10.613 301.42657	10.613 514.85385	10.613 909.19353
10.614 304.3337	10.614 512.09931	10.614 911.68672
10.615 307.07648	10.615 507.83393	10.615 912.79754
10.616 309.61033	10.616 502.75127	10.616 912.65966
10.617 311.72766	10.617 497.57398	10.617 911.54851
10.618 313.09061	10.618 492.73778	10.618 909.78425
10.619 313.29938	10.619 488.22263	10.619 907.69842
10.62 312.06938	10.62 483.69283	10.62 905.66349
10.621 309.44594	10.621 478.85815	10.621 904.13139
10.622 305.9564	10.622 473.85058	10.622 903.63141
10.623 302.50233	10.623 469.38448	10.623 904.69374
10.624 299.95903	10.624 466.57506	10.624 907.64982
10.625 298.71823	10.625 466.49529	10.625 912.38934
10.626 298.49704	10.626 469.66883	10.626 918.18376
10.627 298.5855	10.627 475.76149	10.627 923.76496
10.628 298.34433	10.628 483.65582	10.628 927.6772
10.629 297.5901	10.629 491.85775	10.629 928.77492
10.63 296.63598	10.63 499.00567	10.63 926.61867
10.631 295.99967	10.631 504.2208	10.631 921.62475
10.632 296.05466	10.632 507.16986	10.632 914.9228
10.633 296.85161	10.633 507.89515	10.633 908.05915
10.634 298.23502	10.634 506.60022	10.634 902.66182
10.635 300.08398	10.635 503.53484	10.635 900.1377
10.636 302.44261	10.636 499.0272	10.636 901.42198
10.637 305.39835	10.637 493.58712	10.637 906.80201
10.638 308.75925	10.638 487.91556	10.638 915.77545
10.639 311.788	10.639 482.80003	10.639 927.05718
10.64 313.27054	10.64 478.87796	10.64 938.72872
10.641 311.90784	10.641 476.46715	10.641 948.59282
10.642 306.9033	10.642 475.54568	10.642 954.66008
10.643 298.41411	10.643 475.90212	10.643 955.64348
10.644 287.67203	10.644 477.32891	10.644 951.31321
10.645 276.64683	10.645 479.71544	10.645 942.55142
10.646 267.43716	10.646 483.0069	10.646 931.10099
10.647 261.60126	10.647 487.13294	10.647 919.10561
10.648 259.77675	10.648 492.01391	10.648 908.55723
10.649 261.71716	10.649 497.60386	10.649 900.86258
10.65 266.66359	10.65 503.86692	10.65 896.59418
10.651 273.77547	10.651 510.65304	10.651 895.49795
10.652 282.34777	10.652 517.54093	10.652 896.69979
10.653 291.73454	10.653 523.78706	10.653 899.03323
10.654 301.11348	10.654 528.46572	10.654 901.37481
10.655 309.3533	10.655 530.70754	10.655 902.9099
10.656 315.1576	10.656 529.91427	10.656 903.31365
10.657 317.43494	10.657 525.93228	10.657 902.8006

10.658 315.72735	10.658 519.13034	10.658 902.04455
10.659 310.46698	10.659 510.42269	10.659 901.92124
10.66 302.97002	10.66 501.12218	10.66 903.1488
10.661 295.16361	10.661 492.65811	10.661 905.98281
10.662 289.13265	10.662 486.23158	10.662 910.1185
10.663 286.62548	10.663 482.56064	10.663 914.87069
10.664 288.63578	10.664 481.78833	10.664 919.48789
10.665 295.13148	10.665 483.55232	10.665 923.42337
10.666 305.01853	10.666 487.10519	10.666 926.46933
10.667 316.30715	10.667 491.46071	10.667 928.77767
10.668 326.50555	10.668 495.5463	10.668 930.83986
10.669 333.1832	10.669 498.42292	10.669 933.34881
10.67 334.62871	10.67 499.50269	10.67 936.89874
10.671 330.38132	10.671 498.68848	10.671 941.53031
10.672 321.45174	10.672 496.35085	10.672 946.40253
10.673 310.05583	10.673 493.14258	10.673 949.92536
10.674 298.93436	10.674 489.7791	10.674 950.41986
10.675 290.52139	10.675 486.85419	10.675 947.02074
10.676 286.26989	10.676 484.7716	10.676 940.26488
10.677 286.38469	10.677 483.71296	10.677 931.9526
10.678 289.94237	10.678 483.64589	10.678 924.36777
10.679 295.31606	10.679 484.32216	10.679 919.31138
10.68 300.73501	10.68 485.31069	10.68 917.53288
10.681 304.86877	10.681 486.09907	10.681 918.7523
10.682 307.23641	10.682 486.28068	10.682 922.12032
10.683 308.27058	10.683 485.83608	10.683 926.70511
10.684 308.97246	10.684 485.35962	10.684 931.7408
10.685 310.33454	10.685 486.07054	10.685 936.58284
10.686 312.82743	10.686 489.41524	10.686 940.54229
10.687 316.23262	10.687 496.33956	10.687 942.80973
10.688 319.83334	10.688 506.56274	10.688 942.60139
10.689 322.77388	10.689 518.31418	10.689 939.43816
10.69 324.36162	10.69 528.8206	10.69 933.43482
10.691 324.19808	10.691 535.38139	10.691 925.40964
10.692 322.19589	10.692 536.49521	10.692 916.74681
10.693 318.5916	10.693 532.41054	10.693 909.06342
10.694 314.01367	10.694 524.83047	10.694 903.80989
10.695 309.45265	10.695 515.99977	10.695 901.87186
10.696 306.06687	10.696 507.73731	10.696 903.31886
10.697 304.79561	10.697 500.92539	10.697 907.36467
10.698 305.99506	10.698 495.58803	10.698 912.64732
10.699 309.29341	10.699 491.34032	10.699 917.78635
10.7 313.74007	10.7 487.85014	10.7 921.98332
10.701 318.20481	10.701 485.05086	10.701 925.32006
10.702 321.77426	10.702 483.13485	10.702 928.59509
10.703 323.97184	10.703 482.37573	10.703 932.76633
10.704 324.69361	10.704 482.96417	10.704 938.34769
10.705 324.00468	10.705 484.93655	10.705 945.06486
10.706 321.98774	10.706 488.17994	10.706 951.92363
10.707 318.79065	10.707 492.4751	10.707 957.58237
10.708 314.77313	10.708 497.48014	10.708 960.86286

10.709 310.56416	10.709 502.67182	10.709 961.18565
10.71 306.89424	10.71 507.37656	10.71 958.77494
10.711 304.26816	10.711 510.93802	10.711 954.5175
10.712 302.75431	10.712 512.96721	10.712 949.51364
10.713 302.06892	10.713 513.51637	10.713 944.55253
10.714 301.92572	10.714 513.01077	10.714 939.88395
10.715 302.36194	10.715 512.01041	10.715 935.44822
10.716 303.76766	10.716 510.95943	10.716 931.37734
10.717 306.54814	10.717 510.08835	10.717 928.38384
10.718 310.64226	10.718 509.44659	10.718 927.67474
10.719 315.24002	10.719 509.02221	10.719 930.43201
10.72 319.05064	10.72 508.82383	10.72 937.1935
10.721 321.02709	10.721 508.958	10.721 947.44635
10.722 321.11785	10.722 509.68252	10.722 959.67884
10.723 320.49875	10.723 511.4489	10.723 971.79016
10.724 321.00357	10.724 514.78108	10.724 981.67826
10.725 324.05842	10.725 520.0377	10.725 987.8114
10.726 329.76141	10.726 527.13646	10.726 989.55335
10.727 336.76284	10.727 535.3953	10.727 987.1649
10.728 342.98606	10.728 543.62702	10.728 981.53582
10.729 346.73742	10.729 550.4021	10.729 973.81951
10.73 347.49534	10.73 554.39287	10.73 965.12806
10.731 345.98221	10.731 554.68205	10.731 956.39088
10.732 343.55761	10.732 550.98864	10.732 948.3169
10.733 341.3826	10.733 543.79876	10.733 941.42353
10.734 339.81103	10.734 534.30664	10.734 936.09733
10.735 338.27536	10.735 524.11314	10.735 932.60916
10.736 335.68369	10.736 514.75644	10.736 931.07918
10.737 331.04986	10.737 507.28604	10.737 931.37199
10.738 324.10931	10.738 502.09588	10.738 933.03259
10.739 315.60081	10.739 499.1178	10.739 935.35442
10.74 307.1268	10.74 498.17113	10.74 937.61816
10.741 300.59814	10.741 499.24172	10.741 939.37316
10.742 297.48631	10.742 502.50876	10.742 940.58151
10.743 298.23437	10.743 508.159	10.743 941.52708
10.744 302.11442	10.744 516.12687	10.744 942.58673
10.745 307.60611	10.745 525.96451	10.745 944.03117
10.746 313.08135	10.746 536.86428	10.746 945.96973
10.747 317.44602	10.747 547.82129	10.747 948.40494
10.748 320.40995	10.748 557.79664	10.748 951.24609
10.749 322.32114	10.749 565.83224	10.749 954.23309
10.75 323.69105	10.75 571.09214	10.75 956.83534
10.751 324.67976	10.751 572.87696	10.751 958.29742
10.752 324.87343	10.752 570.71329	10.752 957.88181
10.753 323.49264	10.753 564.52521	10.753 955.21897
10.754 319.9743	10.754 554.90357	10.754 950.53079
10.755 314.53618	10.755 543.27518	10.755 944.63763
10.756 308.33161	10.756 531.83115	10.756 938.73742
10.757 303.04674	10.757 523.08022	10.757 934.108
10.758 300.18714	10.758 519.13772	10.758 931.80443
10.759 300.48661	10.759 521.06011	10.759 932.39484

10.76 303.74024	10.76 528.5026	10.76 935.82422
10.761 309.00417	10.761 539.87308	10.761 941.46116
10.762 314.97389	10.762 552.81581	10.762 948.36096
10.763 320.31071	10.763 564.83939	10.763 955.55977
10.764 323.88726	10.764 573.87762	10.764 962.25768
10.765 324.98069	10.765 578.68476	10.765 967.79972
10.766 323.41682	10.766 578.98813	10.766 971.56143
10.767 319.6127	10.767 575.35282	10.767 972.9466
10.768 314.51077	10.768 568.82684	10.768 971.57909
10.769 309.35704	10.769 560.47506	10.769 967.58669
10.77 305.39707	10.77 551.09518	10.77 961.74723
10.771 303.57472	10.771 541.20975	10.771 955.31444
10.772 304.3125	10.772 531.29371	10.772 949.54542
10.773 307.44404	10.773 522.03672	10.773 945.21664
10.774 312.33302	10.774 514.38007	10.774 942.39303
10.775 318.12867	10.775 509.25675	10.775 940.60239
10.776 324.08625	10.776 507.17377	10.776 939.32171
10.777 329.79139	10.777 507.8909	10.777 938.43324
10.778 335.21495	10.778 510.4514	10.778 938.40309
10.779 340.54014	10.779 513.5573	10.779 940.07101
10.78 345.88175	10.78 516.10172	10.78 944.1893
10.781 351.04779	10.781 517.54879	10.781 950.97111
10.782 355.49138	10.782 518.0115	10.782 959.87177
10.783 358.42731	10.783 518.04232	10.783 969.69836
10.784 359.03188	10.784 518.30109	10.784 979.03731
10.785 356.66137	10.785 519.28832	10.785 986.72061
10.786 351.09275	10.786 521.2281	10.786 992.12664
10.787 342.76968	10.787 524.09919	10.787 995.17069
10.788 332.95688	10.788 527.6964	10.788 996.04861
10.789 323.62543	10.789 531.64072	10.789 994.93674
10.79 316.98213	10.79 535.34705	10.79 991.8613
10.791 314.7326	10.791 538.05603	10.791 986.81716
10.792 317.35821	10.792 539.0409	10.792 980.01048
10.793 323.74141	10.793 537.92445	10.793 972.04321
10.794 331.46398	10.794 534.92687	10.794 963.87902
10.795 337.69013	10.795 530.7847	10.795 956.61641
10.796 340.32345	10.796 526.37725	10.796 951.20394
10.797 338.85815	10.797 522.27363	10.797 948.24033
10.798 334.50041	10.798 518.50274	10.798 947.92711
10.799 329.48281	10.799 514.70778	10.799 950.11244
10.8 325.97776	10.8 510.51221	10.8 954.33929
10.801 325.1808	10.801 505.87745	10.801 959.83429
10.802 327.00755	10.802 501.20848	10.802 965.47676
10.803 330.4374	10.803 497.25823	10.803 969.87453
10.804 334.16457	10.804 494.91869	10.804 971.64806
10.805 337.19191	10.805 495.0023	10.805 969.88923
10.806 339.08803	10.806 498.0404	10.806 964.63898
10.807 339.89779	10.807 504.08299	10.807 957.12968
10.808 339.88121	10.808 512.54798	10.808 949.61539
10.809 339.281	10.809 522.1831	10.809 944.72555
10.81 338.21446	10.81 531.25247	10.81 944.60383

10.811 336.71205	10.811 537.95251	10.811 950.13653
10.812 334.81371	10.812 540.97427	10.812 960.61031
10.813 332.66055	10.813 539.92875	10.813 973.88632
10.814 330.53608	10.814 535.43338	10.814 986.96167
10.815 328.8236	10.815 528.83193	10.815 996.7191
10.816 327.90175	10.816 521.70016	10.816 1000.6803
10.817 327.9984	10.817 515.39495	10.817 997.62084
10.818 329.09369	10.818 510.81615	10.818 987.94689
10.819 330.91575	10.819 508.41299	10.819 973.65676
10.82 333.01744	10.82 508.3516	10.82 957.84097
10.821 334.89556	10.821 510.66798	10.821 943.79522
10.822 336.11976	10.822 515.29902	10.822 934.06417
10.823 336.41398	10.823 521.9637	10.823 929.81464
10.824 335.72096	10.824 529.99189	10.824 930.75659
10.825 334.19173	10.825 538.29068	10.825 935.58708
10.826 332.11301	10.826 545.57001	10.826 942.66269
10.827 329.82299	10.827 550.79862	10.827 950.57031
10.828 327.66134	10.828 553.61296	10.828 958.36611
10.829 326.02004	10.829 554.46568	10.829 965.47872
10.83 325.40172	10.83 554.37612	10.83 971.44332
10.831 326.39583	10.831 554.44236	10.831 975.6911
10.832 329.48019	10.832 555.37203	10.832 977.54129
10.833 334.70599	10.833 557.21593	10.833 976.4037
10.834 341.4782	10.834 559.36206	10.834 972.16651
10.835 348.59623	10.835 560.73968	10.835 965.56505
10.836 354.56442	10.836 560.16454	10.836 958.29124
10.837 358.04182	10.837 556.73945	10.837 952.63959
10.838 358.26493	10.838 550.27184	10.838 950.74528
10.839 355.29498	10.839 541.51109	10.839 953.69205
10.84 350.03328	10.84 532.03153	10.84 960.97603
10.841 343.95067	10.841 523.70409	10.841 970.61419
10.842 338.59036	10.842 517.95348	10.842 979.84965
10.843 334.99994	10.843 515.20767	10.843 986.08644
10.844 333.39722	10.844 514.883	10.844 987.6145
10.845 333.24306	10.845 515.90873	10.845 983.85781
10.846 333.64828	10.846 517.43623	10.846 975.24502
10.847 333.89895	10.847 519.25202	10.847 962.89429
10.848 333.7572	10.848 521.65457	10.848 948.26498
10.849 333.39865	10.849 524.96161	10.849 932.88408
10.85 333.09479	10.85 529.09265	10.85 918.13167
10.851 332.88747	10.851 533.53533	10.851 905.09869
10.852 332.47869	10.852 537.69567	10.852 894.51467
10.853 331.40864	10.853 541.28083	10.853 886.67843
10.854 329.38329	10.854 544.38943	10.854 881.40775
10.855 326.52507	10.855 547.22247	10.855 878.03284
10.856 323.37091	10.856 549.67548	10.856 875.57197
10.857 320.63561	10.857 551.11707	10.857 873.07737
10.858 318.88954	10.858 550.58557	10.858 870.03411
10.859 318.30743	10.859 547.30723	10.859 866.56545
10.86 318.61239	10.86 541.21279	10.86 863.32426
10.861 319.18256	10.861 533.16521	10.861 861.15337

10.862 319.28969	10.862 524.73623	10.862 860.66231
10.863 318.36669	10.863 517.63571	10.863 861.92553
10.864 316.22801	10.864 513.09568	10.864 864.41708
10.865 313.11391	10.865 511.49446	10.865 867.20112
10.866 309.535	10.866 512.44449	10.866 869.32252
10.867 305.99009	10.867 515.221	10.867 870.22819
10.868 302.71552	10.868 519.26184	10.868 869.96232
10.869 299.63645	10.869 524.35732	10.869 869.03007
10.87 296.55082	10.87 530.4336	10.87 868.0421
10.871 293.43462	10.871 537.14378	10.871 867.36123
10.872 290.61334	10.872 543.6407	10.872 866.98371
10.873 288.70219	10.873 548.76823	10.873 866.64966
10.874 288.30031	10.874 551.54327	10.874 866.00244
10.875 289.6596	10.875 551.59596	10.875 864.69881
10.876 292.53623	10.876 549.28269	10.876 862.462
10.877 296.31177	10.877 545.4535	10.877 859.14414
10.878 300.3221	10.878 541.0873	10.878 854.8143
10.879 304.15376	10.879 537.03763	10.879 849.76132
10.88 307.72123	10.88 533.97156	10.88 844.39088
10.881 311.11019	10.881 532.40832	10.881 839.04524
10.882 314.33735	10.882 532.7324	10.882 833.91209
10.883 317.22613	10.883 535.08174	10.883 829.05115
10.884 319.48856	10.884 539.22806	10.884 824.52846
10.885 320.86555	10.885 544.59091	10.885 820.52735
10.886 321.21639	10.886 550.43007	10.886 817.33215
10.887 320.47083	10.887 556.15234	10.887 815.20262
10.888 318.56334	10.888 561.51905	10.888 814.20051
10.889 315.4443	10.889 566.6476	10.889 814.11214
10.89 311.18495	10.89 571.7911	10.89 814.54865
10.891 306.08353	10.891 577.0321	10.891 815.20993
10.892 300.67424	10.892 582.06593	10.892 816.15775
10.893 295.64154	10.893 586.18897	10.893 817.91861
10.894 291.67793	10.894 588.50786	10.894 821.27168
10.895 289.35535	10.895 588.26387	10.895 826.8301
10.896 288.97762	10.896 585.12865	10.896 834.61984
10.897 290.46513	10.897 579.3458	10.897 843.92672
10.898 293.31319	10.898 571.70539	10.898 853.45916
10.899 296.72638	10.899 563.3675	10.899 861.7599
10.9 299.89595	10.9 555.6014	10.9 867.59896
10.901 302.31805	10.901 549.5021	10.901 870.19396
10.902 304.03129	10.902 545.73755	10.902 869.20944
10.903 305.62732	10.903 544.40806	10.903 864.63556
10.904 308.04299	10.904 545.09242	10.904 856.6744
10.905 312.18503	10.905 547.11319	10.905 845.73782
10.906 318.4405	10.906 549.90529	10.906 832.52295
10.907 326.35365	10.907 553.32817	10.907 818.11603
10.908 334.60014	10.908 557.70953	10.908 803.96627
10.909 341.37392	10.909 563.56422	10.909 791.62062
10.91 345.04485	10.91 571.11578	10.91 782.2912
10.911 344.76355	10.911 579.86397	10.911 776.43369
10.912 340.73804	10.912 588.45765	10.912 773.58212

10.913	334.056	10.913	595.00632	10.913	772.57658
10.914	326.22819	10.914	597.72764	10.914	772.09502
10.915	318.7309	10.915	595.65538	10.915	771.19326
10.916	312.69979	10.916	589.03968	10.916	769.61933
10.917	308.81991	10.917	579.25359	10.917	767.75714
10.918	307.29078	10.918	568.26317	10.918	766.28472
10.919	307.83345	10.919	557.98717	10.919	765.74754
10.92	309.73411	10.92	549.85757	10.92	766.24184
10.921	312.01706	10.921	544.72197	10.921	767.33869
10.922	313.72697	10.922	542.97384	10.922	768.24593
10.923	314.20314	10.923	544.67327	10.923	768.14242
10.924	313.21529	10.924	549.53489	10.924	766.51884
10.925	310.89992	10.925	556.86277	10.925	763.42535
10.926	307.60145	10.926	565.55535	10.926	759.4998
10.927	303.73173	10.927	574.31344	10.927	755.76645
10.928	299.76384	10.928	581.93847	10.928	753.27593
10.929	296.24874	10.929	587.56904	10.929	752.70373
10.93	293.78677	10.93	590.72354	10.93	754.01059
10.931	292.9206	10.931	591.22291	10.931	756.3505
10.932	293.94241	10.932	589.14159	10.932	758.29921
10.933	296.78347	10.933	584.87756	10.933	758.44328
10.934	300.99428	10.934	579.24472	10.934	756.08049
10.935	305.82596	10.935	573.38655	10.935	751.65702
10.936	310.35047	10.936	568.45419	10.936	746.66554
10.937	313.641	10.937	565.17991	10.937	743.01128
10.938	314.99964	10.938	563.63194	10.938	742.20467
10.939	314.20105	10.939	563.32427	10.939	744.79759
10.94	311.61595	10.94	563.6138	10.94	750.30959
10.941	308.13443	10.941	564.09305	10.941	757.55392
10.942	304.82747	10.942	564.75037	10.942	765.1066
10.943	302.55249	10.943	565.87526	10.943	771.69372
10.944	301.69187	10.944	567.8299	10.944	776.40304
10.945	302.18973	10.945	570.85658	10.945	778.73219
10.946	303.78766	10.946	574.93845	10.946	778.54351
10.947	306.26987	10.947	579.67417	10.947	775.96629
10.948	309.53629	10.948	584.16125	10.948	771.34013
10.949	313.434	10.949	587.0127	10.949	765.22292
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10.951	321.15841	10.951	581.87343	10.951	752.20475
10.952	323.43738	10.952	572.62756	10.952	747.85719
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10.954	322.30495	10.954	547.48078	10.954	749.79192
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10.958	306.45861	10.958	539.57015	10.958	787.86566
10.959	302.15102	10.959	549.89331	10.959	794.26245
10.96	298.55676	10.96	561.6603	10.96	796.44033
10.961	296.34059	10.961	572.66869	10.961	794.61429
10.962	296.04073	10.962	581.35205	10.962	789.86632
10.963	297.78414	10.963	586.9505	10.963	783.70369

10.964 301.2159	10.964 589.45739	10.964 777.69627
10.965 305.6771	10.965 589.43806	10.965 773.26388
10.966 310.47304	10.966 587.83883	10.966 771.55208
10.967 315.05288	10.967 585.75662	10.967 773.28313
10.968 319.01458	10.968 584.12935	10.968 778.52294
10.969 322.02584	10.969 583.43713	10.969 786.49454
10.97 323.78203	10.97 583.51599	10.97 795.56052
10.971 324.0512	10.971 583.64172	10.971 803.51267
10.972 322.76768	10.972 582.84572	10.972 808.16042
10.973 320.09634	10.973 580.33765	10.973 808.04824
10.974 316.41954	10.974 575.8269	10.974 803.02579
10.975 312.27164	10.975 569.65764	10.975 794.35901
10.976 308.22751	10.976 562.76086	10.976 784.28849
10.977 304.79722	10.977 556.44979	10.977 775.15432
10.978 302.34932	10.978 552.11311	10.978 768.53285
10.979 301.07484	10.979 550.84245	10.979 764.81083
10.98 300.99916	10.98 553.09833	10.98 763.38119
10.981 302.03636	10.981 558.52594	10.981 763.28254
10.982 304.03877	10.982 566.05336	10.982 763.8146
10.983 306.86522	10.983 574.20263	10.983 764.73038
10.984 310.41327	10.984 581.52416	10.984 765.94573
10.985 314.60897	10.985 586.96014	10.985 767.06881
10.986 319.32902	10.986 590.00229	10.986 767.18129
10.987 324.32391	10.987 590.65324	10.987 765.10351
10.988 329.15684	10.988 589.26782	10.988 760.01477
10.989 333.20052	10.989 586.39994	10.989 752.02489
10.99 335.70597	10.99 582.69197	10.99 742.33608
10.991 335.92747	10.991 578.77438	10.991 732.90173
10.992 333.34402	10.992 575.13538	10.992 725.77697
10.993 327.92704	10.993 571.97294	10.993 722.49406
10.994 320.39103	10.994 569.06794	10.994 723.65496
10.995 312.24754	10.995 565.83091	10.995 728.89211
10.996 305.56229	10.996 561.59389	10.996 737.05195
10.997 302.39608	10.997 556.03641	10.997 746.5303
10.998 304.11801	10.998 549.48843	10.998 755.6259
10.999 310.83953	10.999 542.91398	10.999 762.86891
11 321.20655	11 537.52474	11 767.31476
11.001 332.72099	11.001 534.23299	11.001 768.68805
11.002 342.49761	11.002 533.24485	11.002 767.39616
11.003 348.21161	11.003 533.98987	11.003 764.32405
11.004 348.8463	11.004 535.47699	11.004 760.53607
11.005 344.91674	11.005 536.89425	11.005 757.0013
11.006 338.1239	11.006 538.15765	11.006 754.40399
11.007 330.62464	11.007 540.0799	11.007 753.10661
11.008 324.21278	11.008 544.01077	11.008 753.13478
11.009 319.75441	11.009 551.04598	11.009 754.16217
11.01 317.03951	11.01 561.22281	11.01 755.49782
11.011 315.09148	11.011 573.18639	11.011 756.15593
11.012 312.76356	11.012 584.57666	11.012 755.10121
11.013 309.36604	11.013 592.95689	11.013 751.60981
11.014 305.02786	11.014 596.78231	11.014 745.62085

11.015 300.6325	11.015 595.93181	11.015 737.9011
11.016 297.38597	11.016 591.58063	11.016 729.8789
11.017 296.26419	11.017 585.59467	11.017 723.20101
11.018 297.58918	11.018 579.82591	11.018 719.15881
11.019 300.87238	11.019 575.64469	11.019 718.24106
11.02 304.93484	11.02 573.76877	11.02 719.97761
11.021 308.23492	11.021 574.2528	11.021 723.19278
11.022 309.36363	11.022 576.54873	11.022 726.53308
11.023 307.5814	11.023 579.59107	11.023 729.03921
11.024 303.22974	11.024 582.00769	11.024 730.42505
11.025 297.76389	11.025 582.52915	11.025 730.92563
11.026 293.30454	11.026 580.51811	11.026 730.86619
11.027 291.81214	11.027 576.3945	11.027 730.24226
11.028 294.25734	11.028 571.68349	11.028 728.63654
11.029 300.16081	11.029 568.51164	11.029 725.50008
11.03 307.78689	11.03 568.71593	11.03 720.59811
11.031 314.87002	11.031 572.95309	11.031 714.3107
11.032 319.54266	11.032 580.31403	11.032 707.59843
11.033 321.02467	11.033 588.69864	11.033 701.70271
11.034 319.77308	11.034 595.7591	11.034 697.70758
11.035 317.0946	11.035 599.87877	11.035 696.18731
11.036 314.42716	11.036 600.64693	11.036 697.04752
11.037 312.69471	11.037 598.65862	11.037 699.59531
11.038 312.0359	11.038 594.91985	11.038 702.76836
11.039 311.98594	11.039 590.32713	11.039 705.44702
11.04 311.95806	11.04 585.5323	11.04 706.71005
11.041 311.70011	11.041 581.11432	11.041 706.02005
11.042 311.41506	11.042 577.74669	11.042 703.27261
11.043 311.51546	11.043 576.09981	11.043 698.79691
11.044 312.2151	11.044 576.52891	11.044 693.28201
11.045 313.29147	11.045 578.81644	11.045 687.68598
11.046 314.22259	11.046 582.18584	11.046 683.05957
11.047 314.57107	11.047 585.61431	11.047 680.28928
11.048 314.30721	11.048 588.22081	11.048 679.83433
11.049 313.81666	11.049 589.51633	11.049 681.55568
11.05 313.6182	11.05 589.42083	11.05 684.76692
11.051 314.0365	11.051 588.11408	11.051 688.48117
11.052 315.07791	11.052 585.89985	11.052 691.69188
11.053 316.53293	11.053 583.13848	11.053 693.51159
11.054 318.21975	11.054 580.25832	11.054 693.10686
11.055 320.11472	11.055 577.74407	11.055 689.6055
11.056 322.33814	11.056 576.04564	11.056 682.2016
11.057 325.00893	11.057 575.41966	11.057 670.51662
11.058 328.1144	11.058 575.81161	11.058 655.0452
11.059 331.46324	11.059 576.89164	11.059 637.32586
11.06 334.73513	11.06 578.24094	11.06 619.56684
11.061 337.59577	11.061 579.55063	11.061 603.79929
11.062 339.77773	11.062 580.66726	11.062 590.97508
11.063 341.14432	11.063 581.49149	11.063 580.58781
11.064 341.68681	11.064 581.8587	11.064 571.00696
11.065 341.46135	11.065 581.56928	11.065 560.36798

11.066 340.47222	11.066 580.55574	11.066 547.42789
11.067 338.62692	11.067 579.01693	11.067 531.95638
11.068 335.78846	11.068 577.36668	11.068 514.55742
11.069 331.92405	11.069 575.97041	11.069 496.265
11.07 327.24983	11.07 574.84515	11.07 478.19876
11.071 322.20501	11.071 573.57402	11.071 461.46926
11.072 317.29311	11.072 571.50785	11.072 447.11388
11.073 312.9029	11.073 568.18318	11.073 435.87937
11.074 309.25611	11.074 563.68412	11.074 427.88459
11.075 306.52994	11.075 558.74962	11.075 422.39186
11.076 305.01357	11.076 554.575	11.076 417.93301
11.077 305.15298	11.077 552.3916	11.077 412.80254
11.078 307.43124	11.078 553.04066	11.078 405.68288
11.079 312.121	11.079 556.69803	11.079 396.11872
11.08 319.07922	11.08 562.8758	11.08 384.64144
11.081 327.65139	11.081 570.64719	11.081 372.57813
11.082 336.73806	11.082 578.963	11.082 361.63168
11.083 344.98122	11.083 586.90008	11.083 353.37266
11.084 351.05321	11.084 593.72401	11.084 348.75559
11.085 354.0055	11.085 598.80805	11.085 347.82043
11.086 353.57807	11.086 601.53611	11.086 349.72843
11.087 350.30266	11.087 601.37045	11.087 353.1465
11.088 345.30099	11.088 598.10737	11.088 356.83042
11.089 339.85722	11.089 592.19217	11.089 360.11212
11.09 334.96166	11.09 584.85993	11.09 363.01739
11.091 331.06617	11.091 577.92298	11.091 365.97873
11.092 328.10584	11.092 573.27899	11.092 369.29533
11.093 325.7123	11.093 572.30937	11.093 372.67786
11.094 323.41043	11.094 575.45461	11.094 375.1309
11.095 320.75559	11.095 582.10749	11.095 375.27873
11.096 317.41712	11.096 590.79315	11.096 371.95432
11.097 313.31465	11.097 599.56767	11.097 364.69324
11.098 308.77906	11.098 606.49352	11.098 353.89117
11.099 304.62876	11.099 610.09759	11.099 340.57846
11.1 301.99026	11.1 609.70135	11.1 326.01339
11.101 301.84629	11.101 605.53561	11.101 311.34771
11.102 304.5415	11.102 598.59721	11.102 297.50387
11.103 309.51582	11.103 590.32143	11.103 285.24961
11.104 315.52101	11.104 582.21047	11.104 275.31728
11.105 321.19943	11.105 575.53863	11.105 268.41369
11.106 325.7017	11.106 571.21504	11.106 265.05472
11.107 328.92984	11.107 569.7372	11.107 265.30666
11.108 331.3222	11.108 571.11423	11.108 268.60317
11.109 333.35867	11.109 574.74135	11.109 273.7979
11.11 335.13557	11.11 579.29263	11.11 279.49508
11.111 336.28083	11.111 582.88321	11.111 284.52186
11.112 336.2411	11.112 583.58236	11.112 288.31487
11.113 334.70502	11.113 580.12422	11.113 290.99376
11.114 331.91281	11.114 572.46216	11.114 293.15534
11.115 328.65337	11.115 561.78175	11.115 295.48957
11.116 325.94906	11.116 549.96178	11.116 298.44664

11.117 324.60974	11.117 538.74522	11.117 302.0754
11.118 324.85711	11.118 529.13241	11.118 306.04951
11.119 326.2277	11.119 521.26945	11.119 309.84407
11.12 327.75389	11.12 514.80453	11.12 312.8992
11.121 328.36716	11.121 509.39717	11.121 314.76171
11.122 327.32341	11.122 505.02549	11.122 315.1864
11.123 324.53411	11.123 501.96222	11.123 314.20276
11.124 320.66432	11.124 500.55589	11.124 312.1415
11.125 316.96381	11.125 501.04607	11.125 309.5827
11.126 314.83292	11.126 503.50159	11.126 307.19374
11.127 315.23998	11.127 507.8654	11.127 305.49465
11.128 318.26956	11.128 513.91969	11.128 304.60377
11.129 323.03858	11.129 521.1631	11.129 304.10414
11.13 328.06649	11.13 528.67902	11.13 303.1107
11.131 331.94309	11.131 535.15525	11.131 300.56265
11.132 333.93505	11.132 539.11477	11.132 295.64906
11.133 334.20782	11.133 539.32933	11.133 288.19261
11.134 333.5957	11.134 535.186	11.134 278.80651
11.135 333.13614	11.135 526.89072	11.135 268.74635
11.136 333.64365	11.136 515.40435	11.136 259.53505
11.137 335.54601	11.137 502.20458	11.137 252.53383
11.138 338.93013	11.138 488.96456	11.138 248.61455
11.139 343.6216	11.139 477.24347	11.139 248.01371
11.14 349.22666	11.14 468.27535	11.14 250.33482
11.141 355.14721	11.141 462.8461	11.141 254.66237
11.142 360.66672	11.142 461.27167	11.142 259.73435
11.143 365.12191	11.143 463.42473	11.143 264.18643
11.144 368.05667	11.144 468.73407	11.144 266.79859
11.145 369.29993	11.145 476.19408	11.145 266.76189
11.146 368.92152	11.146 484.45844	11.146 263.82301
11.147 367.13353	11.147 492.11626	11.147 258.31239
11.148 364.21354	11.148 498.09335	11.148 251.01433
11.149 360.50012	11.149 501.95968	11.149 242.92796
11.15 356.40831	11.15 503.93712	11.15 235.00214
11.151 352.41817	11.151 504.6517	11.151 227.9259
11.152 348.96406	11.152 504.76117	11.152 222.05946
11.153 346.30126	11.153 504.69193	11.153 217.53436
11.154 344.44218	11.154 504.52965	11.154 214.42452
11.155 343.26079	11.155 504.05217	11.155 212.8608
11.156 342.64974	11.156 502.85032	11.156 212.9415
11.157 342.61816	11.157 500.52171	11.157 214.48073
11.158 343.20251	11.158 496.90024	11.158 216.79813
11.159 344.32103	11.159 492.2587	11.159 218.74988
11.16 345.71294	11.16 487.33113	11.16 219.03476
11.161 347.07329	11.161 483.12344	11.161 216.67113
11.162 348.26972	11.162 480.60222	11.162 211.45075
11.163 349.47587	11.163 480.45908	11.163 204.20599
11.164 351.1028	11.164 483.04257	11.164 196.72726
11.165 353.55106	11.165 488.39779	11.165 191.29296
11.166 356.90921	11.166 496.30175	11.166 189.8412
11.167 360.78454	11.167 506.17753	11.167 193.0967

11.168 364.35364	11.168 516.95604	11.168 200.10205
11.169 366.63907	11.169 527.11297	11.169 208.52168
11.17 366.90505	11.17 534.95099	11.17 215.59651
11.171 364.99302	11.171 539.11651	11.171 219.32071
11.172 361.43039	11.172 539.08992	11.172 219.15635
11.173 357.25662	11.173 535.4288	11.173 215.98608
11.174 353.62112	11.174 529.65913	11.174 211.41905
11.175 351.34512	11.175 523.78939	11.175 206.93901
11.176 350.62865	11.176 519.61865	11.176 203.35064
11.177 351.04873	11.177 518.0802	11.177 200.70068
11.178 351.84561	11.178 518.94165	11.178 198.5547
11.179 352.39015	11.179 520.99566	11.179 196.38195
11.18 352.62196	11.18 522.68664	11.18 193.85011
11.181 353.21335	11.181 522.8274	11.181 190.93332
11.182 355.29562	11.182 521.07042	11.182 187.85033
11.183 359.82982	11.183 517.89362	11.183 184.85398
11.184 366.90413	11.184 514.21316	11.184 182.03195
11.185 375.40009	11.185 510.91076	11.185 179.20644
11.186 383.28008	11.186 508.5221	11.186 176.01211
11.187 388.39856	11.187 507.15977	11.187 172.1022
11.188 389.44024	11.188 506.56962	11.188 167.39279
11.189 386.46946	11.189 506.23422	11.189 162.21352
11.19 380.82295	11.19 505.49316	11.19 157.25602
11.191 374.479	11.191 503.74187	11.191 153.36263
11.192 369.25761	11.192 500.72105	11.192 151.20567
11.193 366.30665	11.193 496.7666	11.193 150.99466
11.194 366.01385	11.194 492.82876	11.194 152.3772
11.195 368.21256	11.195 490.19983	11.195 154.6109
11.196 372.41916	11.196 490.02244	11.196 156.90041
11.197 377.91526	11.197 492.83345	11.197 158.7459
11.198 383.72508	11.198 498.35827	11.198 160.05657
11.199 388.67642	11.199 505.58945	11.199 161.01636
11.2 391.64916	11.2 513.12626	11.2 161.75478
11.201 391.94711	11.201 519.5574	11.201 162.14816
11.202 389.54265	11.202 523.83094	11.202 161.87261
11.203 385.02306	11.203 525.49601	11.203 160.69213
11.204 379.29311	11.204 524.81449	11.204 158.73919
11.205 373.22718	11.205 522.65223	11.205 156.59099
11.206 367.51625	11.206 520.15469	11.206 155.09305
11.207 362.69615	11.207 518.30184	11.207 155.07315
11.208 359.22449	11.208 517.53399	11.208 157.1135
11.209 357.43622	11.209 517.58917	11.209 161.40686
11.21 357.34626	11.21 517.63119	11.21 167.68883
11.211 358.4208	11.211 516.63223	11.211 175.1497
11.212 359.56701	11.212 513.83125	11.212 182.47225
11.213 359.44824	11.213 509.10536	11.213 188.05322
11.214 357.05523	11.214 503.07748	11.214 190.44631
11.215 352.26917	11.215 496.95371	11.215 188.81965
11.216 346.07566	11.216 492.15243	11.216 183.20173
11.217 340.26082	11.217 489.90025	11.217 174.39406
11.218 336.71484	11.218 490.88201	11.218 163.64121

11.219 336.69781	11.219 494.99988	11.219 152.26517
11.22 340.42557	11.22 501.30566	11.22 141.41409
11.221 347.15909	11.221 508.14039	11.221 131.99684
11.222 355.64637	11.222 513.51598	11.222 124.67803
11.223 364.62971	11.223 515.629	11.223 119.89144
11.224 373.14856	11.224 513.37051	11.224 117.83005
11.225 380.60724	11.225 506.6245	11.225 118.44014
11.226 386.687	11.226 496.2975	11.226 121.41189
11.227 391.24639	11.227 484.10959	11.227 126.22012
11.228 394.26131	11.228 472.20849	11.228 132.20933
11.229 395.79136	11.229 462.68023	11.229 138.7065
11.23 395.98627	11.23 457.09048	11.23 145.13619
11.231 395.08002	11.231 456.15818	11.231 151.07712
11.232 393.41093	11.232 459.67165	11.232 156.21471
11.233 391.41117	11.233 466.68139	11.233 160.22836
11.234 389.54904	11.234 475.84907	11.234 162.69491
11.235 388.21449	11.235 485.80685	11.235 163.14607
11.236 387.57216	11.236 495.39278	11.236 161.29039
11.237 387.44088	11.237 503.75017	11.237 157.24882
11.238 387.29476	11.238 510.32355	11.238 151.65004
11.239 386.42352	11.239 514.82914	11.239 145.46172
11.24 384.19434	11.24 517.1841	11.24 139.6774
11.241 380.35372	11.241 517.4095	11.241 135.02818
11.242 375.18142	11.242 515.5525	11.242 131.88453
11.243 369.42434	11.243 511.74292	11.243 130.31298
11.244 364.00277	11.244 506.36646	11.244 130.15048
11.245 359.67191	11.245 500.22444	11.245 131.06115
11.246 356.81189	11.246 494.52812	11.246 132.59021
11.247 355.49832	11.247 490.61979	11.247 134.30183
11.248 355.68866	11.248 489.55647	11.248 135.95303
11.249 357.34943	11.249 491.70254	11.249 137.56663
11.25 360.38995	11.25 496.5546	11.25 139.327
11.251 364.48791	11.251 502.84026	11.251 141.34458
11.252 369.05223	11.252 508.86261	11.252 143.46617
11.253 373.41436	11.253 513.00717	11.253 145.22907
11.254 377.15022	11.254 514.20634	11.254 145.96175
11.255 380.26961	11.255 512.16387	11.255 144.92729
11.256 383.13856	11.256 507.27079	11.256 141.43491
11.257 386.167	11.257 500.32307	11.257 134.95144
11.258 389.45858	11.258 492.21596	11.258 125.27386
11.259 392.61573	11.259 483.79203	11.259 112.71314
11.26 394.78932	11.26 475.80089	11.26 98.202602
11.261 394.9722	11.261 468.90024	11.261 83.23564
11.262 392.44268	11.262 463.63187	11.262 69.603296
11.263 387.18987	11.263 460.34985	11.263 59.016603
11.264 380.13939	11.264 459.14288	11.264 52.711126
11.265 373.01355	11.265 459.76579	11.265 51.186193
11.266 367.80852	11.266 461.64793	11.266 54.163789
11.267 366.10528	11.267 464.02997	11.267 60.76835
11.268 368.43691	11.268 466.17461	11.268 69.81298
11.269 373.9911	11.269 467.59626	11.269 80.093378

11.27 380.75116	11.27 468.15799	11.27 90.621474
11.271 386.06762	11.271 468.00473	11.271 100.78459
11.272 387.51357	11.272 467.39643	11.272 110.42714
11.273 383.78766	11.273 466.55351	11.273 119.72611
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11.275 364.18404	11.275 464.6518	11.275 138.00368
11.276 353.6464	11.276 463.75374	11.276 146.53408
11.277 346.90513	11.277 463.07211	11.277 153.68659
11.278 346.0401	11.278 462.8606	11.278 158.46655
11.279 351.24685	11.279 463.48028	11.279 160.00199
11.28 360.76863	11.28 465.28946	11.28 157.84914
11.281 371.56117	11.281 468.37485	11.281 152.24293
11.282 380.41633	11.282 472.2581	11.282 144.14234
11.283 385.03317	11.283 475.81955	11.283 134.98942
11.284 384.63294	11.284 477.62882	11.284 126.20325
11.285 379.93592	11.285 476.63049	11.285 118.64775
11.286 372.68703	11.286 472.75905	11.286 112.4739
11.287 365.00844	11.287 467.07278	11.287 107.40255
11.288 358.82744	11.288 461.26647	11.288 103.22858
11.289 355.45389	11.289 456.84471	11.289 100.11404
11.29 355.36057	11.29 454.51317	11.29 98.424274
11.291 358.18481	11.291 454.07103	11.291 98.271452
11.292 362.93904	11.292 454.78226	11.292 99.180859
11.293 368.36279	11.293 455.91024	11.293 100.12855
11.294 373.25488	11.294 457.02567	11.294 99.991571
11.295 376.73488	11.295 458.00349	11.295 98.056782
11.296 378.40261	11.296 458.81262	11.296 94.34789
11.297 378.3969	11.297 459.30559	11.297 89.58795
11.298 377.31164	11.298 459.16686	11.298 84.932763
11.299 375.94783	11.299 458.03526	11.299 81.580889
11.3 374.95266	11.3 455.66952	11.3 80.437115
11.301 374.51086	11.301 452.05693	11.301 81.908185
11.302 374.27918	11.302 447.37255	11.302 85.890809
11.303 373.63564	11.303 441.85299	11.303 91.883419
11.304 372.08549	11.304 435.67281	11.304 99.176857
11.305 369.58844	11.305 428.93965	11.305 107.01845
11.306 366.60823	11.306 421.83297	11.306 114.69946
11.307 363.89556	11.307 414.79773	11.307 121.59117
11.308 362.15247	11.308 408.65346	11.308 127.15548
11.309 361.71222	11.309 404.47852	11.309 131.00481
11.31 362.38614	11.31 403.2797	11.31 132.95083
11.311 363.50508	11.311 405.59052	11.311 133.00061
11.312 364.15866	11.312 411.16616	11.312 131.28555
11.313 363.5926	11.313 418.92584	11.313 127.96043
11.314 361.62735	11.314 427.15309	11.314 123.13697
11.315 358.87148	11.315 433.92605	11.315 116.90103
11.316 356.58511	11.316 437.67982	11.316 109.4229
11.317 356.1795	11.317 437.74164	11.317 101.10719
11.318 358.60131	11.318 434.61012	11.318 92.726014
11.319 363.96491	11.319 429.87444	11.319 85.402217
11.32 371.54046	11.32 425.69363	11.32 80.405469

11.321 380.06436	11.321 424.03745	11.321 78.744015
11.322 388.14176	11.322 425.95145	11.322 80.773012
11.323 394.55956	11.323 431.17068	11.323 86.002648
11.324 398.48567	11.324 438.23492	11.324 93.264892
11.325 399.58299	11.325 445.06604	11.325 101.11846
11.326 398.04422	11.326 449.71031	11.326 108.3406
11.327 394.52858	11.327 450.94712	11.327 114.2351
11.328 389.98907	11.328 448.52456	11.328 118.65166
11.329 385.46105	11.329 443.06001	11.329 121.73292
11.33 381.90044	11.33 435.77146	11.33 123.57491
11.331 380.09215	11.331 428.17718	11.331 124.06785
11.332 380.5814	11.332 421.80576	11.332 123.01112
11.333 383.55767	11.333 417.88881	11.333 120.44341
11.334 388.71846	11.334 417.07211	11.334 116.89028
11.335 395.21332	11.335 419.23425	11.335 113.31077
11.336 401.7988	11.336 423.51931	11.336 110.71035
11.337 407.23559	11.337 428.59996	11.337 109.72634
11.338 410.72835	11.338 433.08449	11.338 110.43285
11.339 412.16568	11.339 435.88235	11.339 112.44358
11.34 411.99712	11.34 436.39736	11.34 115.17229
11.341 410.81942	11.341 434.5174	11.341 118.05269
11.342 409.0004	11.342 430.48879	11.342 120.6676
11.343 406.56497	11.343 424.83816	11.343 122.83011
11.344 403.36351	11.344 418.34039	11.344 124.61075
11.345 399.40699	11.345 411.98001	11.345 126.25666
11.346 395.11079	11.346 406.75074	11.346 128.01422
11.347 391.31363	11.347 403.30354	11.347 129.91903
11.348 389.01567	11.348 401.61503	11.348 131.67618
11.349 388.91468	11.349 400.98821	11.349 132.67811
11.35 390.96	11.35 400.43992	11.35 132.14484
11.351 394.20529	11.351 399.28484	11.351 129.33564
11.352 397.11413	11.352 397.47775	11.352 123.87571
11.353 398.2283	11.353 395.51092	11.353 116.05419
11.354 396.8473	11.354 393.92966	11.354 106.93179
11.355 393.33808	11.355 392.87156	11.355 98.05338
11.356 388.89796	11.356 391.90849	11.356 90.828617
11.357 384.92197	11.357 390.25025	11.357 85.943214
11.358 382.34544	11.358 387.13384	11.358 83.169967
11.359 381.28742	11.359 382.19732	11.359 81.640443
11.36 381.16645	11.36 375.73491	11.36 80.360841
11.361 381.18872	11.361 368.72211	11.361 78.646501
11.362 380.9057	11.362 362.53215	11.362 76.273836
11.363 380.51735	11.363 358.35001	11.363 73.439803
11.364 380.72477	11.364 356.53535	11.364 70.645548
11.365 382.23765	11.365 356.30389	11.365 68.573643
11.366 385.26041	11.366 356.00406	11.366 67.934877
11.367 389.2829	11.367 353.87229	11.367 69.242544
11.368 393.30235	11.368 348.84438	11.368 72.573703
11.369 396.32182	11.369 341.00594	11.369 77.477826
11.37 397.79602	11.37 331.48487	11.37 83.118777
11.371 397.77845	11.371 321.93589	11.371 88.539287

11.372 396.72781	11.372 313.93815	11.372 92.895445
11.373 395.14654	11.373 308.59214	11.373 95.573927
11.374 393.28744	11.374 306.39251	11.374 96.263113
11.375 391.07524	11.375 307.28978	11.375 95.090793
11.376 388.26316	11.376 310.80469	11.376 92.767358
11.377 384.69177	11.377 316.14504	11.377 90.586852
11.378 380.4572	11.378 322.32127	11.378 90.142912
11.379 375.93162	11.379 328.328	11.379 92.799228
11.38 371.6762	11.38 333.31044	11.38 99.191198
11.381 368.31669	11.381 336.66905	11.381 108.96169
11.382 366.3857	11.382 338.069	11.382 120.83684
11.383 366.10057	11.383 337.39659	11.383 132.9474
11.384 367.16711	11.384 334.73428	11.384 143.30943
11.385 368.81668	11.385 330.39222	11.385 150.28505
11.386 370.16541	11.386 324.93435	11.386 152.96637
11.387 370.75851	11.387 319.11258	11.387 151.41209
11.388 370.89723	11.388 313.73548	11.388 146.5722
11.389 371.48288	11.389 309.46382	11.389 139.93828
11.39 373.42157	11.39 306.63193	11.39 132.97749
11.391 376.99235	11.391 305.15874	11.391 126.64013
11.392 381.59692	11.392 304.63946	11.392 121.16838
11.393 386.03421	11.393 304.59859	11.393 116.31353
11.394 389.06728	11.394 304.7803	11.394 111.7823
11.395 389.95117	11.395 305.28534	11.395 107.63094
11.396 388.66161	11.396 306.44492	11.396 104.3196
11.397 385.75445	11.397 308.51775	11.397 102.46766
11.398 382.03722	11.398 311.42229	11.398 102.54289
11.399 378.20884	11.399 314.68339	11.399 104.6567
11.4 374.69467	11.4 317.58696	11.4 108.52559
11.401 371.68403	11.401 319.37621	11.401 113.49167
11.402 369.31199	11.402 319.44341	11.402 118.57426
11.403 367.80366	11.403 317.46115	11.403 122.70189
11.404 367.45288	11.404 313.46908	11.404 125.09432
11.405 368.39323	11.405 307.90563	11.405 125.62035
11.406 370.34317	11.406 301.48509	11.406 124.87116
11.407 372.53515	11.407 294.97982	11.407 123.76522
11.408 373.95893	11.408 288.96906	11.408 122.95617
11.409 373.79535	11.409 283.69283	11.409 122.41467
11.41 371.76668	11.41 279.0054	11.41 121.48004
11.411 368.22454	11.411 274.43972	11.411 119.29368
11.412 363.96134	11.412 269.36078	11.412 115.27965
11.413 359.94405	11.413 263.18025	11.413 109.46123
11.414 357.07155	11.414 255.66168	11.414 102.43622
11.415 355.98545	11.415 247.14389	11.415 95.187633
11.416 356.90291	11.416 238.59434	11.416 88.799873
11.417 359.46252	11.417 231.38002	11.417 84.217375
11.418 362.71191	11.418 226.85386	11.418 82.0739
11.419 365.33095	11.419 225.89706	11.419 82.609057
11.42 366.04111	11.42 228.57093	11.42 85.649372
11.421 364.07062	11.421 233.99131	11.421 90.644308
11.422 359.42805	11.422 240.47029	11.422 96.695827

11.423 352.86861	11.423 245.92576	11.423 102.63278
11.424 345.58219	11.424 248.48736	11.424 107.19386
11.425 338.77092	11.425 247.1136	11.425 109.35584
11.426 333.30825	11.426 241.9944	11.426 108.72857
11.427 329.60402	11.427 234.51028	11.427 105.827
11.428 327.61365	11.428 226.75735	11.428 101.98093
11.429 326.86404	11.429 220.79766	11.429 98.881368
11.43 326.52247	11.43 217.96564	11.43 97.922684
11.431 325.57893	11.431 218.51745	11.431 99.639271
11.432 323.23466	11.432 221.72699	11.432 103.54394
11.433 319.34735	11.433 226.36482	11.433 108.3725
11.434 314.63495	11.434 231.23614	11.434 112.60704
11.435 310.42068	11.435 235.55994	11.435 114.9867
11.436 308.01486	11.436 239.00172	11.436 114.73765
11.437 308.14638	11.437 241.46948	11.437 111.56026
11.438 310.76415	11.438 242.87697	11.438 105.45365
11.439 315.25746	11.439 243.03943	11.439 96.649487
11.44 320.7891	11.44 241.74484	11.44 85.689208
11.441 326.43087	11.441 238.93604	11.441 73.593327
11.442 331.10377	11.442 234.86378	11.442 61.875201
11.443 333.5742	11.443 230.1083	11.443 52.251184
11.444 332.73966	11.444 225.38149	11.444 46.123064
11.445 328.14978	11.445 221.18227	11.445 44.087059
11.446 320.38286	11.446 217.47215	11.446 45.783851
11.447 310.9837	11.447 213.62246	11.447 50.160969
11.448 301.91226	11.448 208.74313	11.448 56.010671
11.449 294.85365	11.449 202.23057	11.449 62.462617
11.45 290.73283	11.45 194.2016	11.45 69.165423
11.451 289.63736	11.451 185.51571	11.451 76.11257
11.452 290.99613	11.452 177.4201	11.452 83.261299
11.453 293.86217	11.453 171.05437	11.453 90.232117
11.454 297.15374	11.454 167.09314	11.454 96.300546
11.455 299.81832	11.455 165.64589	11.455 100.67691
11.456 300.99077	11.456 166.40136	11.456 102.89202
11.457 300.13832	11.457 168.8906	11.457 103.01765
11.458 297.17143	11.458 172.74982	11.458 101.58264
11.459 292.46831	11.459 177.83456	11.459 99.306471
11.46 286.79546	11.46 184.07009	11.46 96.888831
11.461 281.15417	11.461 191.11636	11.461 94.995349
11.462 276.57328	11.462 198.10914	11.462 94.302133
11.463 273.84799	11.463 203.71632	11.463 95.415468
11.464 273.2718	11.464 206.59066	11.464 98.57058
11.465 274.47271	11.465 205.96436	11.465 103.31586
11.466 276.46109	11.466 202.00304	11.466 108.45022
11.467 277.99075	11.467 195.7597	11.467 112.36296
11.468 278.05667	11.468 188.78623	11.468 113.62987
11.469 276.34465	11.469 182.64822	11.469 111.56798
11.47 273.3404	11.47 178.49399	11.47 106.51574
11.471 270.08187	11.471 176.76836	11.471 99.697003
11.472 267.65024	11.472 177.14438	11.472 92.782345
11.473 266.70053	11.473 178.69597	11.473 87.290916

11.474 267.24664	11.474 180.2912	11.474 84.157339
11.475 268.74374	11.475 181.03956	11.475 83.584048
11.476 270.36134	11.476 180.598	11.476 85.200203
11.477 271.30247	11.477 179.18368	11.477 88.349325
11.478 271.03431	11.478 177.36785	11.478 92.320434
11.479 269.41233	11.479 175.72413	11.479 96.417338
11.48 266.69162	11.48 174.52615	11.48 99.963833
11.481 263.37269	11.481 173.6234	11.481 102.33513
11.482 259.9787	11.482 172.56861	11.482 103.06305
11.483 256.82061	11.483 170.95448	11.483 101.95504
11.484 253.90692	11.484 168.76612	11.484 99.142409
11.485 251.0894	11.485 166.51657	11.485 95.063256
11.486 248.35841	11.486 165.04405	11.486 90.421863
11.487 246.06731	11.487 165.06329	11.487 86.133645
11.488 244.87365	11.488 166.80355	11.488 83.227198
11.489 245.36266	11.489 169.93236	11.489 82.602488
11.49 247.59309	11.49 173.80168	11.49 84.723853
11.491 250.88327	11.491 177.76396	11.491 89.363029
11.492 253.97242	11.492 181.31387	11.492 95.598303
11.493 255.52098	11.493 184.0606	11.493 102.12897
11.494 254.63148	11.494 185.67569	11.494 107.76717
11.495 251.19002	11.495 185.98905	11.495 111.7914
11.496 245.86172	11.496 185.16768	11.496 114.00351
11.497 239.79173	11.497 183.73278	11.497 114.45989
11.498 234.13616	11.498 182.32292	11.498 113.21166
11.499 229.64095	11.499 181.30707	11.499 110.2142
11.5 226.50349	11.5 180.54416	11.5 105.47724
11.501 224.54303	11.501 179.47545	11.501 99.276214
11.502 223.566	11.502 177.49392	11.502 92.220083
11.503 223.62521	11.503 174.32121	11.503 85.153431
11.504 224.97443	11.504 170.17199	11.504 78.989924
11.505 227.76009	11.505 165.64643	11.505 74.556738
11.506 231.72101	11.506 161.43711	11.506 72.45296
11.507 236.11948	11.507 158.08023	11.507 72.888069
11.508 240.04783	11.508 155.82735	11.508 75.539403
11.509 242.88547	11.509 154.6943	11.509 79.553525
11.51 244.60191	11.51 154.62141	11.51 83.803446
11.511 245.68973	11.511 155.64827	11.511 87.301859
11.512 246.74187	11.512 158.03152	11.512 89.55051
11.513 248.00502	11.513 162.2147	11.513 90.622724
11.514 249.17794	11.514 168.60285	11.514 90.943166
11.515 249.61466	11.515 177.18536	11.515 90.890127
11.516 248.73567	11.516 187.1855	11.516 90.505341
11.517 246.37397	11.517 196.99371	11.517 89.455271
11.518 242.85209	11.518 204.49724	11.518 87.271498
11.519 238.84675	11.519 207.76002	11.519 83.729323
11.52 235.13461	11.52 205.71707	11.52 79.168369
11.521 232.35829	11.521 198.60472	11.521 74.513531
11.522 230.81866	11.522 187.89667	11.522 71.015168
11.523 230.36013	11.523 175.81779	11.523 69.774544
11.524 230.43908	11.524 164.63331	11.524 71.414734

11.525 230.37549	11.525 156.02318	11.525 76.008463
11.526 229.67774	11.526 150.7676	11.526 83.26257
11.527 228.20235	11.527 148.76782	11.527 92.724386
11.528 226.08387	11.528 149.3113	11.528 103.79314
11.529 223.52099	11.529 151.47073	11.529 115.60491
11.53 220.63184	11.53 154.43106	11.53 126.9571
11.531 217.48754	11.531 157.70841	11.531 136.47969
11.532 214.23614	11.532 161.09549	11.532 142.94735
11.533 211.12056	11.533 164.48686	11.533 145.59512
11.534 208.40212	11.534 167.64388	11.534 144.27206
11.535 206.24699	11.535 170.08304	11.535 139.39113
11.536 204.7124	11.536 171.17045	11.536 131.82226
11.537 203.83092	11.537 170.41751	11.537 122.77548
11.538 203.6565	11.538 167.77377	11.538 113.64944
11.539 204.27968	11.539 163.77002	11.539 105.79356
11.54 205.72936	11.54 159.3993	11.54 100.18517
11.541 207.93441	11.541 155.81358	11.541 97.167321
11.542 210.70953	11.542 153.97586	11.542 96.437569
11.543 213.79177	11.543 154.39534	11.543 97.288378
11.544 216.85226	11.544 157.00458	11.544 98.976214
11.545 219.51447	11.545 161.1717	11.545 100.93619
11.546 221.43599	11.546 165.84713	11.546 102.77512
11.547 222.44739	11.547 169.86997	11.547 104.10603
11.548 222.64384	11.548 172.29744	11.548 104.47319
11.549 222.34416	11.549 172.6597	11.549 103.45306
11.55 221.9176	11.55 170.95331	11.55 100.86424
11.551 221.61602	11.551 167.4517	11.551 96.835477
11.552 221.52302	11.552 162.49583	11.552 91.689128
11.553 221.66278	11.553 156.45759	11.553 85.786467
11.554 222.11187	11.554 149.8729	11.554 79.517349
11.555 222.999	11.555 143.58622	11.555 73.443188
11.556 224.37263	11.556 138.67034	11.556 68.379427
11.557 226.03285	11.557 136.13565	11.557 65.228061
11.558 227.45337	11.558 136.5256	11.558 64.584058
11.559 227.85959	11.559 139.71998	11.559 66.372113
11.56 226.45301	11.56 145.01853	11.56 69.822277
11.561 222.73484	11.561 151.40291	11.561 73.793166
11.562 216.80468	11.562 157.7919	11.562 77.277483
11.563 209.53004	11.563 163.236	11.563 79.772445
11.564 202.42988	11.564 167.05254	11.564 81.331357
11.565 197.33426	11.565 168.94776	11.565 82.328266
11.566 195.84816	11.566 169.10506	11.566 83.120129
11.567 198.84521	11.567 168.13716	11.567 83.78545
11.568 206.12956	11.568 166.90731	11.568 84.062404
11.569 216.41258	11.569 166.26064	11.569 83.465722
11.57 227.67873	11.57 166.76925	11.57 81.565471
11.571 237.82961	11.571 168.52979	11.571 78.273184
11.572 245.41269	11.572 171.06453	11.572 74.071053
11.573 250.04597	11.573 173.36724	11.573 70.028391
11.574 252.32001	11.574 174.16653	11.574 67.526641
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11.576 253.39221	11.576 167.56628	11.576 71.066961
11.577 252.72453	11.577 160.13612	11.577 76.878703
11.578 250.42252	11.578 151.27846	11.578 83.748695
11.579 245.56338	11.579 142.59502	11.579 90.089256
11.58 237.71936	11.58 135.65105	11.58 94.784355
11.581 227.33837	11.581 131.57816	11.581 97.466263
11.582 215.71872	11.582 130.7973	11.582 98.404397
11.583 204.63801	11.583 132.94942	11.583 98.176966
11.584 195.80297	11.584 137.04479	11.584 97.425938
11.585 190.35225	11.585 141.83476	11.585 96.716926
11.586 188.58146	11.586 146.2863	11.586 96.463331
11.587 189.97943	11.587 149.93659	11.587 96.834874
11.588 193.50099	11.588 152.94494	11.588 97.721385
11.589 197.95222	11.589 155.79902	11.589 98.770498
11.59 202.33413	11.59 158.88893	11.59 99.506762
11.591 206.02018	11.591 162.19552	11.591 99.399008
11.592 208.76534	11.592 165.29524	11.592 97.886732
11.593 210.59297	11.593 167.56722	11.593 94.474733
11.594 211.6472	11.594 168.46226	11.594 88.945078
11.595 212.08397	11.595 167.67203	11.595 81.671756
11.596 212.03852	11.596 165.16476	11.596 73.76821
11.597 211.62148	11.597 161.16211	11.597 66.859266
11.598 210.96419	11.598 156.1085	11.598 62.514873
11.599 210.20809	11.599 150.61602	11.599 61.593566
11.6 209.51196	11.6 145.37506	11.6 63.868812
11.601 209.05491	11.601 141.04495	11.601 68.180668
11.602 209.03138	11.602 138.1684	11.602 72.996676
11.603 209.57802	11.603 137.07226	11.603 77.132391
11.604 210.66876	11.604 137.7729	11.604 80.216446
11.605 211.98243	11.605 139.90184	11.605 82.705461
11.606 212.86565	11.606 142.71462	11.606 85.458631
11.607 212.46294	11.607 145.28581	11.607 89.176404
11.608 210.03053	11.608 146.80015	11.608 94.018845
11.609 205.35115	11.609 146.84295	11.609 99.504118
11.61 199.03717	11.61 145.53689	11.61 104.6846
11.611 192.50573	11.611 143.45031	11.611 108.46707
11.612 187.57735	11.612 141.3805	11.612 110.01258
11.613 185.80177	11.613 140.0728	11.613 109.07772
11.614 187.77326	11.614 140.05216	11.614 106.12764
11.615 192.81952	11.615 141.52953	11.615 102.11217
11.616 199.25507	11.616 144.45352	11.616 98.010753
11.617 205.13556	11.617 148.58622	11.617 94.398419
11.618 209.12823	11.618 153.58544	11.618 91.299154
11.619 211.01623	11.619 158.99092	11.619 88.376652
11.62 211.5958	11.62 164.16866	11.62 85.279272
11.621 212.08294	11.621 168.30472	11.621 81.935368
11.622 213.42625	11.622 170.53603	11.622 78.65488
11.623 215.84995	11.623 170.17687	11.623 76.020773
11.624 218.82551	11.624 166.97312	11.624 74.619094
11.625 221.33397	11.625 161.21783	11.625 74.732946
11.626 222.31764	11.626 153.71099	11.626 76.129348

11.627 221.14595	11.627 145.55664	11.627 78.106871
11.628 217.95848	11.628 137.91389	11.628 79.807221
11.629 213.66636	11.629 131.74112	11.629 80.635682
11.63 209.57301	11.63 127.60193	11.63 80.542298
11.631 206.70824	11.631 125.60297	11.631 79.94482
11.632 205.25373	11.632 125.40698	11.632 79.339215
11.633 204.40167	11.633 126.36212	11.633 78.894251
11.634 202.75397	11.634 127.65022	11.634 78.350901
11.635 199.03526	11.635 128.4516	11.635 77.279571
11.636 192.72331	11.636 128.10194	11.636 75.48936
11.637 184.26354	11.637 126.2218	11.637 73.245526
11.638 174.85509	11.638 122.86106	11.638 71.146395
11.639 165.97299	11.639 118.53947	11.639 69.776241
11.64 158.88067	11.64 114.17526	11.64 69.350626
11.641 154.35347	11.641 110.77866	11.641 69.578486
11.642 152.61827	11.642 109.10228	11.642 69.784693
11.643 153.47918	11.643 109.37721	11.643 69.218844
11.644 156.48333	11.644 111.31175	11.644 67.430066
11.645 161.04237	11.645 114.28066	11.645 64.567005
11.646 166.49022	11.646 117.58319	11.646 61.473098
11.647 172.09706	11.647 120.58423	11.647 59.410977
11.648 177.08625	11.648 122.73173	11.648 59.503368
11.649 180.70593	11.649 123.51342	11.649 62.09844
11.65 182.32355	11.65 122.50007	11.65 66.452212
11.651 181.57096	11.651 119.49213	11.651 70.989641
11.652 178.49055	11.652 114.7244	11.652 74.041763
11.653 173.63898	11.653 108.97025	11.653 74.640776
11.654 168.10414	11.654 103.42408	11.654 72.892635
11.655 163.31774	11.655 99.381449	11.655 69.713273
11.656 160.65745	11.656 97.861781	11.656 66.222614
11.657 160.93856	11.657 99.395863	11.657 63.236978
11.658 164.01443	11.658 103.95756	11.658 61.139894
11.659 168.75538	11.659 110.96302	11.659 60.110453
11.66 173.50922	11.66 119.27597	11.66 60.378499
11.661 176.81193	11.661 127.35328	11.661 62.285233
11.662 178.05472	11.662 133.62841	11.662 66.085604
11.663 177.68082	11.663 137.05522	11.663 71.667139
11.664 176.83764	11.664 137.4945	11.664 78.341772
11.665 176.68616	11.665 135.68896	11.665 84.943557
11.666 177.74554	11.666 132.85465	11.666 90.187086
11.667 179.63662	11.667 130.13388	11.667 93.180879
11.668 181.35477	11.668 128.19554	11.668 93.818926
11.669 181.86752	11.669 127.08826	11.669 92.818339
11.67 180.62874	11.67 126.35433	11.67 91.354527
11.671 177.71728	11.671 125.29146	11.671 90.517283
11.672 173.60182	11.672 123.30118	11.672 90.906347
11.673 168.82338	11.673 120.15583	11.673 92.51658
11.674 163.87221	11.674 116.04975	11.674 94.883138
11.675 159.30499	11.675 111.47316	11.675 97.295754
11.676 155.82977	11.676 107.03275	11.676 99.001533
11.677 154.15389	11.677 103.34004	11.677 99.375054

11.678 154.65772	11.678 100.95782	11.678 98.081374
11.679 157.1042	11.679 100.30424	11.679 95.134995
11.68 160.72043	11.68 101.43016	11.68 90.831242
11.681 164.58357	11.681 103.82365	11.681 85.58535
11.682 168.0403	11.682 106.42325	11.682 79.826448
11.683 170.86879	11.683 108.00648	11.683 74.049465
11.684 173.08404	11.684 107.75326	11.684 68.882386
11.685 174.5783	11.685 105.69333	11.685 65.086847
11.686 174.91665	11.686 102.70408	11.686 63.413114
11.687 173.38294	11.687 100.05919	11.687 64.429662
11.688 169.34042	11.688 98.760977	11.688 68.375719
11.689 162.6576	11.689 99.012997	11.689 75.121164
11.69 153.94691	11.69 100.08791	11.69 84.124234
11.691 144.47645	11.691 100.66149	11.691 94.45245
11.692 135.73096	11.692 99.424558	11.692 104.89154
11.693 128.83474	11.693 95.714522	11.693 114.1926
11.694 124.1628	11.694 89.872992	11.694 121.37661
11.695 121.33039	11.695 83.1327	11.695 125.92576
11.696 119.56933	11.696 77.103283	11.696 127.77291
11.697 118.21991	11.697 73.09614	11.697 127.16469
11.698 117.06566	11.698 71.643064	11.698 124.54645
11.699 116.33074	11.699 72.451895	11.699 120.56615
11.7 116.39191	11.7 74.790366	11.7 116.04527
11.701 117.43392	11.701 78.034234	11.701 111.81621
11.702 119.29366	11.702 82.052825	11.702 108.40947
11.703 121.54765	11.703 87.193799	11.703 105.84046
11.704 123.79631	11.704 93.90825	11.704 103.70261
11.705 125.88072	11.705 102.25226	11.705 101.52981
11.706 127.93052	11.706 111.53848	11.706 99.166357
11.707 130.22039	11.707 120.37739	11.707 96.856957
11.708 132.96252	11.708 127.06397	11.708 94.97931
11.709 136.17012	11.709 130.18961	11.709 93.680864
11.71 139.66218	11.71 129.12555	11.71 92.666767
11.711 143.15655	11.711 124.18086	11.711 91.286029
11.712 146.36963	11.712 116.39364	11.712 88.844466
11.713 149.04127	11.713 107.08145	11.713 84.956843
11.714 150.93418	11.714 97.439697	11.714 79.7215
11.715 151.79893	11.715 88.314296	11.715 73.687418
11.716 151.38517	11.716 80.199647	11.716 67.674803
11.717 149.50019	11.717 73.390016	11.717 62.554087
11.718 146.12377	11.718 68.130458	11.718 59.093386
11.719 141.53127	11.719 64.673968	11.719 57.851158
11.72 136.32952	11.72 63.256776	11.72 59.062552
11.721 131.32767	11.721 64.027685	11.721 62.528546
11.722 127.30861	11.722 67.006214	11.722 67.572639
11.723 124.79287	11.723 72.050709	11.723 73.146214
11.724 123.96361	11.724 78.796697	11.724 78.073003
11.725 124.77509	11.725 86.556249	11.725 81.367572
11.726 127.12763	11.726 94.282954	11.726 82.571406
11.727 130.9078	11.727 100.71068	11.727 82.03967
11.728 135.90864	11.728 104.73237	11.728 81.005934

11.729 141.68608	11.729 105.82233	11.729 81.333699
11.73 147.51258	11.73 104.29383	11.73 84.809635
11.731 152.48659	11.731 101.20088	11.731 92.267431
11.732 155.72174	11.732 97.903785	11.732 102.99401
11.733 156.55705	11.733 95.567081	11.733 114.8377
11.734 154.69935	11.734 94.776528	11.734 125.02824
11.735 150.29161	11.735 95.439711	11.735 131.31937
11.736 143.89565	11.736 96.956804	11.736 132.80429
11.737 136.39068	11.737 98.532014	11.737 130.07317
11.738 128.80369	11.738 99.553753	11.738 124.74142
11.739 122.1274	11.739 99.822307	11.739 118.69092
11.74 117.22356	11.74 99.570074	11.74 113.42044
11.741 114.76038	11.741 99.23763	11.741 109.72375
11.742 115.13485	11.742 99.16041	11.742 107.66615
11.743 118.30227	11.743 99.359896	11.743 106.7773
11.744 123.59118	11.744 99.603955	11.744 106.34035
11.745 129.65923	11.745 99.672394	11.745 105.74488
11.746 134.72634	11.746 99.619419	11.746 104.83956
11.747 137.06186	11.747 99.789506	11.747 104.18368
11.748 135.59099	11.748 100.53829	11.748 104.98491
11.749 130.36138	11.749 101.83772	11.749 108.62758
11.75 122.62989	11.75 103.08185	11.75 115.89756
11.751 114.46723	11.751 103.32409	11.751 126.26028
11.752 108.02508	11.752 101.82927	11.752 137.7029
11.753 104.74003	11.753 98.594078	11.753 147.32514
11.754 104.90311	11.754 94.526062	11.754 152.43588
11.755 107.76302	11.755 91.086775	11.755 151.56903
11.756 112.03514	11.756 89.672314	11.756 144.86794
11.757 116.51132	11.757 91.032736	11.757 133.72023
11.758 120.41526	11.758 94.990486	11.758 120.00518
11.759 123.44503	11.759 100.60629	11.759 105.42813
11.76 125.57342	11.76 106.65759	11.76 91.27301
11.761 126.8356	11.761 112.18032	11.761 78.523182
11.762 127.20791	11.762 116.81995	11.762 68.041266
11.763 126.64692	11.763 120.78554	11.763 60.605088
11.764 125.21674	11.764 124.48022	11.764 56.729129
11.765 123.23299	11.765 128.07443	11.765 56.426996
11.766 121.28568	11.766 131.29686	11.766 59.093913
11.767 120.08947	11.767 133.52453	11.767 63.625968
11.768 120.21539	11.768 134.0133	11.768 68.678167
11.769 121.83965	11.769 132.14648	11.769 72.999689
11.77 124.69898	11.77 127.62119	11.77 75.735348
11.771 128.24643	11.771 120.61247	11.771 76.597249
11.772 131.87913	11.772 111.89913	11.772 75.892424
11.773 135.06789	11.773 102.79687	11.773 74.392472
11.774 137.35587	11.774 94.852438	11.774 73.048797
11.775 138.36746	11.775 89.386208	11.775 72.679673
11.776 137.91656	11.776 87.108038	11.776 73.698219
11.777 136.16401	11.777 88.014329	11.777 76.025025
11.778 133.65946	11.778 91.538163	11.778 79.22749
11.779 131.14918	11.779 96.801346	11.779 82.778114

11.78 129.28258	11.78 102.81165	11.78 86.337702
11.781 128.43227	11.781 108.5527	11.781 89.840789
11.782 128.72194	11.782 113.07953	11.782 93.358592
11.783 130.18475	11.783 115.69566	11.783 96.787925
11.784 132.86676	11.784 116.15731	11.784 99.61048
11.785 136.73587	11.785 114.78674	11.785 100.88631
11.786 141.45767	11.786 112.37241	11.786 99.580642
11.787 146.27223	11.787 109.79154	11.787 95.065368
11.788 150.0756	11.788 107.57537	11.788 87.518669
11.789 151.73202	11.789 105.64863	11.789 78.016496
11.79 150.45248	11.79 103.40179	11.79 68.25499
11.791 146.11798	11.791 100.11151	11.791 60.040278
11.792 139.40942	11.792 95.424575	11.792 54.753647
11.793 131.69198	11.793 89.676768	11.793 53.014264
11.794 124.66414	11.794 83.81132	11.794 54.597676
11.795 119.81777	11.795 79.03833	11.795 58.620383
11.796 117.91897	11.796 76.381445	11.796 63.938045
11.797 118.73856	11.797 76.293228	11.797 69.577922
11.798 121.17812	11.798 78.49182	11.798 75.069986
11.799 123.76626	11.799 82.029879	11.799 80.464937
11.8 125.29739	11.8 85.596744	11.8 86.028387
11.801 125.30166	11.801 87.968053	11.801 91.788561
11.802 124.09395	11.802 88.442401	11.802 97.234153
11.803 122.40306	11.803 87.101179	11.803 101.39009
11.804 120.82671	11.804 84.729137	11.804 103.29115
11.805 119.472	11.805 82.421819	11.805 102.51034
11.806 118.00511	11.806 81.003839	11.806 99.432377
11.807 116.05204	11.807 80.566	11.807 95.047898
11.808 113.60583	11.808 80.353415	11.808 90.398762
11.809 111.13356	11.809 79.109391	11.809 86.062851
11.81 109.33461	11.81 75.703486	11.81 82.009321
11.811 108.7101	11.811 69.746671	11.811 77.910462
11.812 109.27172	11.812 61.901591	11.812 73.603188
11.813 110.57121	11.813 53.700298	11.813 69.401764
11.814 112.00626	11.814 46.993961	11.814 65.997561
11.815 113.17306	11.815 43.272795	11.815 64.060198
11.816 114.05436	11.816 43.174448	11.816 63.876225
11.817 114.93936	11.817 46.388789	11.817 65.235298
11.818 116.18708	11.818 51.963819	11.818 67.579454
11.819 117.98904	11.819 58.802101	11.819 70.246938
11.82 120.30199	11.82 66.035977	11.82 72.642315
11.821 122.93915	11.821 73.122174	11.821 74.326473
11.822 125.74652	11.822 79.689169	11.822 75.096165
11.823 128.70897	11.823 85.344729	11.823 75.073474
11.824 131.93573	11.824 89.620869	11.824 74.705885
11.825 135.54594	11.825 92.150762	11.825 74.621686
11.826 139.53681	11.826 92.936013	11.826 75.401328
11.827 143.69074	11.827 92.502304	11.827 77.363872
11.828 147.54943	11.828 91.753665	11.828 80.484567
11.829 150.47075	11.829 91.562712	11.829 84.407772
11.83 151.76512	11.83 92.328463	11.83 88.551995

11.831 150.88865	11.831 93.824433	11.831 92.281231
11.832 147.61669	11.832 95.44223	11.832 95.125001
11.833 142.14795	11.833 96.68202	11.833 96.995556
11.834 135.09433	11.834 97.516739	11.834 98.175929
11.835 127.36894	11.835 98.412534	11.835 99.100884
11.836 120.01114	11.836 99.99705	11.836 99.998617
11.837 113.95831	11.837 102.64737	11.837 100.74086
11.838 109.8242	11.838 106.24601	11.838 101.00382
11.839 107.75278	11.839 110.15156	11.839 100.61964
11.84 107.43128	11.84 113.38723	11.84 99.81443
11.841 108.26293	11.841 114.91283	11.841 99.099506
11.842 109.61764	11.842 113.98312	11.842 98.960605
11.843 110.97281	11.843 110.43462	11.843 99.57136
11.844 111.91851	11.844 104.84657	11.844 100.75699
11.845 112.09386	11.845 98.411892	11.845 102.15517
11.846 111.20926	11.846 92.549405	11.846 103.38554
11.847 109.19091	11.847 88.431121	11.847 104.08978
11.848 106.38477	11.848 86.631776	11.848 103.91497
11.849 103.61151	11.849 87.089951	11.849 102.60646
11.85 101.92352	11.85 89.24599	11.85 100.20787
11.851 102.12838	11.851 92.251933	11.851 97.152899
11.852 104.36995	11.852 95.117524	11.852 94.06699
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11.857 121.34187	11.857 85.884516	11.857 79.819944
11.858 124.26208	11.858 82.692757	11.858 77.456408
11.859 127.81441	11.859 81.830095	11.859 77.148616
11.86 131.87993	11.86 83.521337	11.86 79.401728
11.861 135.97278	11.861 87.066822	11.861 83.645528
11.862 139.52296	11.862 91.304667	11.862 88.422004
11.863 142.10432	11.863 95.239312	11.863 92.092028
11.864 143.44998	11.864 98.4446	11.864 93.634266
11.865 143.30345	11.865 100.96848	11.865 93.018507
11.866 141.33213	11.866 102.97295	11.866 91.02025
11.867 137.22009	11.867 104.39306	11.867 88.608975
11.868 130.94424	11.868 104.94047	11.868 86.361058
11.869 123.01474	11.869 104.36394	11.869 84.211031
11.87 114.49422	11.87 102.70959	11.87 81.616071
11.871 106.74051	11.871 100.33174	11.871 77.988484
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11.873 98.197606	11.873 94.928752	11.873 67.133385
11.874 98.573591	11.874 92.267136	11.874 60.729651
11.875 101.97864	11.875 89.801529	11.875 54.528
11.876 107.86188	11.876 87.880585	11.876 49.03627
11.877 115.33656	11.877 87.015027	11.877 44.510484
11.878 123.24301	11.878 87.617634	11.878 41.009491
11.879 130.27351	11.879 89.754531	11.879 38.512868
11.88 135.25454	11.88 93.122788	11.88 37.046125
11.881 137.44329	11.881 97.233627	11.881 36.778131

11.882	136.73995	11.882	101.62007	11.882	38.05735
11.883	133.6701	11.883	105.90887	11.883	41.341184
11.884	129.21368	11.884	109.76585	11.884	47.025896
11.885	124.57436	11.885	112.83708	11.885	55.203341
11.886	120.92937	11.886	114.85094	11.886	65.467152
11.887	119.16867	11.887	115.8141	11.887	76.910803
11.888	119.62388	11.888	116.1176	11.888	88.360342
11.889	121.91883	11.889	116.42224	11.889	98.77588
11.89	125.06964	11.89	117.37761	11.89	107.64157
11.891	127.84129	11.891	119.3259	11.891	115.13887
11.892	129.22894	11.892	122.2013	11.892	121.94984
11.893	128.82269	11.893	125.65414	11.893	128.77419
11.894	126.89602	11.894	129.28293	11.894	135.79898
11.895	124.20905	11.895	132.85062	11.895	142.43477
11.896	121.66467	11.896	136.37478	11.896	147.45199
11.897	119.94141	11.897	140.06535	11.897	149.44301
11.898	119.27702	11.898	144.10255	11.898	147.33549
11.899	119.3969	11.899	148.36482	11.899	140.72773
11.9	119.65111	11.9	152.3249	11.9	129.95783
11.901	119.30474	11.901	155.24004	11.901	116.01772
11.902	117.89005	11.902	156.55177	11.902	100.41447
11.903	115.45815	11.903	156.211	11.903	84.936661
11.904	112.58936	11.904	154.65249	11.904	71.342263
11.905	110.11054	11.905	152.43279	11.905	60.98098
11.906	108.70243	11.906	149.85457	11.906	54.504036
11.907	108.56311	11.907	146.84267	11.907	51.798964
11.908	109.34339	11.908	143.13073	11.908	52.148997
11.909	110.30946	11.909	138.57934	11.909	54.529081
11.91	110.62251	11.91	133.35451	11.91	57.889488
11.911	109.58762	11.911	127.83465	11.911	61.363968
11.912	106.78837	11.912	122.36879	11.912	64.382559
11.913	102.15715	11.913	117.03767	11.913	66.688303
11.914	96.008068	11.914	111.59656	11.914	68.274772
11.915	89.043174	11.915	105.63981	11.915	69.267964
11.916	82.336159	11.916	98.894549	11.916	69.795541
11.917	77.202012	11.917	91.462195	11.917	69.873982
11.918	74.937231	11.918	83.843676	11.918	69.347179
11.919	76.413135	11.919	76.759358	11.919	67.925509
11.92	81.654404	11.92	70.90656	11.92	65.337319
11.921	89.662425	11.921	66.837659	11.921	61.563469
11.922	98.689379	11.922	64.992996	11.922	57.006758
11.923	106.88421	11.923	65.756644	11.923	52.429447
11.924	113.00114	11.924	69.389719	11.924	48.661244
11.925	116.71193	11.925	75.76331	11.925	46.245858
11.926	118.36546	11.926	84.104674	11.926	45.276101
11.927	118.47976	11.927	92.982011	11.927	45.551544
11.928	117.3315	11.928	100.65727	11.928	46.921204
11.929	114.99142	11.929	105.68481	11.929	49.510529
11.93	111.6213	11.93	107.41804	11.93	53.628873
11.931	107.71212	11.931	106.17862	11.931	59.443452
11.932	104.03271	11.932	102.99839	11.932	66.661399

11.933	101.3017	11.933	99.123632	11.933	74.462882
11.934	99.867134	11.934	95.506479	11.934	81.70491
11.935	99.599573	11.935	92.528894	11.935	87.261406
11.936	100.04647	11.936	90.039661	11.936	90.336792
11.937	100.70683	11.937	87.693689	11.937	90.667088
11.938	101.2303	11.938	85.412234	11.938	88.613328
11.939	101.48241	11.939	83.674474	11.939	85.091126
11.94	101.48313	11.94	83.433885	11.94	81.303729
11.941	101.33806	11.941	85.640896	11.941	78.316727
11.942	101.24866	11.942	90.628466	11.942	76.680787
11.943	101.54803	11.943	97.764793	11.943	76.294779
11.944	102.70508	11.944	105.63253	11.944	76.633082
11.945	105.20534	11.945	112.59729	11.945	77.155155
11.946	109.36703	11.946	117.47706	11.946	77.640518
11.947	115.21174	11.947	119.93493	11.947	78.238741
11.948	122.47712	11.948	120.4555	11.948	79.262575
11.949	130.66707	11.949	119.97331	11.949	80.899102
11.95	139.05425	11.95	119.44018	11.95	83.035313
11.951	146.63243	11.951	119.48931	11.951	85.256433
11.952	152.16084	11.952	120.32791	11.952	86.958731
11.953	154.47747	11.953	121.7669	11.953	87.531919
11.954	152.94136	11.954	123.34135	11.954	86.530609
11.955	147.76197	11.955	124.47632	11.955	83.850217
11.956	139.96254	11.956	124.6658	11.956	79.790349
11.957	131.00477	11.957	123.6825	11.957	75.005762
11.958	122.32259	11.958	121.7193	11.958	70.297931
11.959	115.01975	11.959	119.38865	11.959	66.399649
11.96	109.78705	11.96	117.4838	11.96	63.841672
11.961	106.90579	11.961	116.58959	11.961	62.926518
11.962	106.22129	11.962	116.75332	11.962	63.749577
11.963	107.09275	11.963	117.42504	11.963	66.168361
11.964	108.46179	11.964	117.70585	11.964	69.7469
11.965	109.16031	11.965	116.68397	11.965	73.797856
11.966	108.32696	11.966	113.71224	11.966	77.582121
11.967	105.76191	11.967	108.54809	11.967	80.573305
11.968	101.98783	11.968	101.42853	11.968	82.642924
11.969	98.0253	11.969	93.083983	11.969	84.034788
11.97	94.998217	11.97	84.718392	11.97	85.207213
11.971	93.792195	11.971	77.77399	11.971	86.650725
11.972	94.845131	11.972	73.589917	11.972	88.805955
11.973	98.073062	11.973	73.063847	11.973	91.997058
11.974	102.87157	11.974	76.501929	11.974	96.359779
11.975	108.1729	11.975	83.600687	11.975	101.73732
11.976	112.63621	11.976	93.532335	11.976	107.65845
11.977	114.96986	11.977	105.01641	11.977	113.44844
11.978	114.33156	11.978	116.4361	11.978	118.43401
11.979	110.66335	11.979	126.09457	11.979	122.19139
11.98	104.79268	11.98	132.60346	11.98	124.64979
11.981	98.208965	11.981	135.27419	11.981	126.02213
11.982	92.60114	11.982	134.27914	11.982	126.56477
11.983	89.341568	11.983	130.47089	11.983	126.36299

11.984 89.116878	11.984 124.90755	11.984 125.247
11.985 91.833414	11.985 118.39734	11.985 122.94055
11.986 96.762981	11.986 111.29544	11.986 119.27531
11.987 102.85346	11.987 103.72096	11.987 114.30906
11.988 109.09915	11.988 95.998281	11.988 108.25275
11.989 114.84844	11.989 88.972775	11.989 101.3338
11.99 119.92841	11.99 83.911235	11.99 93.734672
11.991 124.5132	11.991 81.991208	11.991 85.654969
11.992 128.77762	11.992 83.718488	11.992 77.403911
11.993 132.57845	11.993 88.661112	11.993 69.415813
11.994 135.35297	11.994 95.675422	11.994 62.197602
11.995 136.34338	11.995 103.40121	11.995 56.304948
11.996 134.98376	11.996 110.74088	11.996 52.351135
11.997 131.27613	11.997 117.03306	11.997 50.946756
11.998 125.907	11.998 121.94214	11.998 52.533982
11.999 120.08029	11.999 125.27587	11.999 57.11253
12 115.0844	12 126.89804	12 64.065869
12.001 111.82389	12.001 126.78111	12.001 72.232711
12.002 110.57372	12.002 125.10779	12.002 80.281939
12.003 111.08606	12.003 122.33555	12.003 87.213351
12.004 112.90364	12.004 119.12913	12.004 92.675972
12.005 115.64152	12.005 116.20512	12.005 96.943235
12.006 119.00651	12.006 114.14058	12.006 100.51412
12.007 122.62476	12.007 113.24044	12.007 103.62444
12.008 125.91991	12.008 113.51393	12.008 105.96779
12.009 128.236	12.009 114.74992	12.009 106.84941
12.01 129.13241	12.01 116.61558	12.01 105.67695
12.011 128.66642	12.011 118.70294	12.011 102.45469
12.012 127.45557	12.012 120.47875	12.012 97.889245
12.013 126.47788	12.013 121.28069	12.013 93.043822
12.014 126.68184	12.014 120.42076	12.014 88.730047
12.015 128.57998	12.015 117.46356	12.015 85.092337
12.016 132.00803	12.016 112.51264	12.016 81.654109
12.017 136.1751	12.017 106.359	12.017 77.790861
12.018 139.96906	12.018 100.33515	12.018 73.288474
12.019 142.37155	12.019 95.925873	12.019 68.615469
12.02 142.77892	12.02 94.248892	12.02 64.73877
12.021 141.12186	12.021 95.637488	12.021 62.691408
12.022 137.82853	12.022 99.493016	12.022 63.173683
12.023 133.70312	12.023 104.56002	12.023 66.384336
12.024 129.76646	12.024 109.4698	12.024 72.08881
12.025 127.00887	12.025 113.34227	12.025 79.756975
12.026 126.05203	12.026 116.10139	12.026 88.668889
12.027 126.87979	12.027 118.3239	12.027 97.973113
12.028 128.83801	12.028 120.75687	12.028 106.75549
12.029 130.97114	12.029 123.84101	12.029 114.14552
12.03 132.55883	12.03 127.55618	12.03 119.40791
12.031 133.48958	12.031 131.58621	12.031 121.9667
12.032 134.22831	12.032 135.58167	12.032 121.37715
12.033 135.41403	12.033 139.26852	12.033 117.3869
12.034 137.35348	12.034 142.40021	12.034 110.13698

12.035 139.78687	12.035 144.67598	12.035 100.39675
12.036 141.98904	12.036 145.76542	12.036 89.661383
12.037 143.09572	12.037 145.40667	12.037 79.917052
12.038 142.42482	12.038 143.46716	12.038 73.094889
12.039 139.69637	12.039 139.94358	12.039 70.456003
12.04 135.12254	12.04 134.92938	12.04 72.189708
12.041 129.41225	12.041 128.65019	12.041 77.451566
12.042 123.62599	12.042 121.52932	12.042 84.812965
12.043 118.8754	12.043 114.2258	12.043 92.852344
12.044 115.93015	12.044 107.5856	12.044 100.60525
12.045 114.92681	12.045 102.50481	12.045 107.65896
12.046 115.40983	12.046 99.718819	12.046 113.95085
12.047 116.67268	12.047 99.580995	12.047 119.51553
12.048 118.20442	12.048 101.86858	12.048 124.39172
12.049 119.9549	12.049 105.7348	12.049 128.66808
12.05 122.24365	12.05 109.90386	12.05 132.52695
12.051 125.43543	12.051 113.11431	12.051 136.10585
12.052 129.56506	12.052 114.70286	12.052 139.23059
12.053 134.21535	12.053 114.98432	12.053 141.26318
12.054 138.68584	12.054 115.16692	12.054 141.23897
12.055 142.27701	12.055 116.72376	12.055 138.29247
12.056 144.50728	12.056 120.51318	12.056 132.08498
12.057 145.12441	12.057 126.14686	12.057 122.98613
12.058 143.99992	12.058 132.08151	12.058 111.94196
12.059 141.11232	12.059 136.37961	12.059 100.16698
12.06 136.64574	12.06 137.67516	12.06 88.897749
12.061 131.16357	12.061 135.75647	12.061 79.262093
12.062 125.61629	12.062 131.48901	12.062 72.222127
12.063 121.06908	12.063 126.26337	12.063 68.457821
12.064 118.27499	12.064 121.34812	12.064 68.15548
12.065 117.42463	12.065 117.47394	12.065 70.845282
12.066 118.25801	12.066 114.73193	12.066 75.428993
12.067 120.4904	12.067 112.76606	12.067 80.479345
12.068 124.16849	12.068 111.08526	12.068 84.758678
12.069 129.64313	12.069 109.35076	12.069 87.685965
12.07 137.12224	12.07 107.52397	12.07 89.565314
12.071 146.14709	12.071 105.81068	12.071 91.414474
12.072 155.47399	12.072 104.50077	12.072 94.426774
12.073 163.47776	12.073 103.79696	12.073 99.274648
12.074 168.77945	12.074 103.7286	12.074 105.62298
12.075 170.69956	12.075 104.15629	12.075 112.08975
12.076 169.2686	12.076 104.81766	12.076 116.76346
12.077 164.97537	12.077 105.40215	12.077 118.05224
12.078 158.49885	12.078 105.59179	12.078 115.44165
12.079 150.60308	12.079 105.13516	12.079 109.80533
12.08 142.16161	12.08 103.95531	12.08 103.12033
12.081 134.17911	12.081 102.32788	12.081 97.728378
12.082 127.72582	12.082 100.95759	12.082 95.460095
12.083 123.80163	12.083 100.76143	12.083 96.9407
12.084 123.12618	12.084 102.37598	12.084 101.42242
12.085 125.92697	12.085 105.64036	12.085 107.1611

12.086	131.72539	12.086	109.4494	12.086	112.2325
12.087	139.26914	12.087	112.17784	12.087	115.35626
12.088	146.6752	12.088	112.43939	12.088	116.34419
12.089	151.84449	12.089	109.75003	12.089	115.97002
12.09	153.05098	12.09	104.72802	12.09	115.42692
12.091	149.51635	12.091	98.815467	12.091	115.72196
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12.093	131.37316	12.093	91.024932	12.093	120.08085
12.094	120.76946	12.094	91.492093	12.094	123.41666
12.095	112.13475	12.095	95.147735	12.095	126.43916
12.096	106.86268	12.096	101.17499	12.096	128.16272
12.097	105.15848	12.097	108.25251	12.097	127.77935
12.098	106.16032	12.098	115.01158	12.098	125.01118
12.099	108.4361	12.099	120.44108	12.099	120.34867
12.1	110.59208	12.1	124.0053	12.1	114.95255
12.101	111.7648	12.101	125.49791	12.101	110.14853
12.102	111.82481	12.102	124.7867	12.102	106.77369
12.103	111.26137	12.103	121.75276	12.103	104.7907
12.104	110.85191	12.104	116.43866	12.104	103.40917
12.105	111.2152	12.105	109.2758	12.105	101.61179
12.106	112.49885	12.106	101.14116	12.106	98.689453
12.107	114.30352	12.107	93.220823	12.107	94.450606
12.108	115.91538	12.108	86.691345	12.108	89.11354
12.109	116.7228	12.109	82.477137	12.109	83.088816
12.11	116.55207	12.11	81.080678	12.11	76.901817
12.111	115.7404	12.111	82.511154	12.111	71.27096
12.112	114.89851	12.112	86.244277	12.112	67.214687
12.113	114.56273	12.113	91.317319	12.113	65.990567
12.114	114.89862	12.114	96.596132	12.114	68.819638
12.115	115.65658	12.115	101.14104	12.115	76.440396
12.116	116.34905	12.116	104.47785	12.116	88.710774
12.117	116.52616	12.117	106.62921	12.117	104.43416
12.118	116.03087	12.118	107.98332	12.118	121.525
12.119	115.0886	12.119	109.11625	12.119	137.45049
12.12	114.16539	12.12	110.64257	12.12	149.79729
12.121	113.70542	12.121	113.04733	12.121	156.81704
12.122	113.89204	12.122	116.44661	12.122	157.82914
12.123	114.59355	12.123	120.42473	12.123	153.40838
12.124	115.44948	12.124	124.06755	12.124	145.27058
12.125	116.01038	12.125	126.28811	12.125	135.7623
12.126	115.79228	12.126	126.23388	12.126	127.10075
12.127	114.34898	12.127	123.5618	12.127	120.63709
12.128	111.39584	12.128	118.427	12.128	116.54371
12.129	107.01681	12.129	111.32512	12.129	114.05912
12.13	101.81596	12.13	102.97543	12.13	112.08936
12.131	96.819333	12.131	94.300476	12.131	109.8067
12.132	93.186218	12.132	86.429997	12.132	106.89955
12.133	91.838017	12.133	80.59787	12.133	103.47558
12.134	93.240456	12.134	77.819504	12.134	99.782005
12.135	97.355399	12.135	78.525055	12.135	96.059578
12.136	103.68228	12.136	82.308703	12.136	92.582949

12.137	111.30864	12.137	88.033177	12.137	89.819286
12.138	118.97909	12.138	94.257233	12.138	88.44507
12.139	125.32025	12.139	99.815257	12.139	89.091651
12.14	129.20176	12.14	104.21215	12.14	91.919864
12.141	130.15567	12.141	107.6306	12.141	96.301153
12.142	128.62048	12.142	110.56489	12.142	100.9023
12.143	125.8139	12.143	113.35302	12.143	104.18453
12.144	123.27132	12.144	115.88989	12.144	105.1021
12.145	122.24767	12.145	117.68246	12.145	103.59656
12.146	123.27052	12.146	118.17178	12.146	100.61083
12.147	126.10252	12.147	117.08629	12.147	97.641749
12.148	130.03031	12.148	114.61528	12.148	96.047619
12.149	134.29058	12.149	111.32548	12.149	96.506108
12.15	138.31105	12.15	107.9129	12.15	98.838367
12.151	141.70454	12.151	104.95552	12.151	102.20784
12.152	144.11424	12.152	102.74497	12.152	105.51187
12.153	145.18809	12.153	101.2167	12.153	107.76416
12.154	144.71699	12.154	99.977879	12.154	108.32894
12.155	142.79596	12.155	98.424313	12.155	107.02118
12.156	139.79886	12.156	95.977131	12.156	104.06986
12.157	136.16166	12.157	92.355975	12.157	100.04062
12.158	132.17008	12.158	87.786313	12.158	95.679994
12.159	127.95912	12.159	83.001073	12.159	91.761035
12.16	123.73743	12.16	79.035668	12.16	88.88849
12.161	120.03044	12.161	76.8954	12.161	87.374985
12.162	117.70046	12.162	77.239405	12.162	87.173469
12.163	117.69779	12.163	80.161808	12.163	87.958964
12.164	120.61944	12.164	85.110503	12.164	89.300552
12.165	126.37785	12.165	91.010098	12.165	90.840623
12.166	134.11837	12.166	96.605046	12.166	92.381074
12.167	142.47991	12.167	100.96446	12.167	93.792975
12.168	150.03836	12.168	103.89321	12.168	94.864166
12.169	155.73546	12.169	106.01498	12.169	95.21484
12.17	159.07729	12.17	108.37085	12.17	94.361517
12.171	160.01225	12.171	111.72227	12.171	91.941277
12.172	158.63114	12.172	115.93026	12.172	87.937129
12.173	154.95774	12.173	119.83741	12.173	82.784121
12.174	149.01605	12.174	121.75107	12.174	77.264749
12.175	141.1564	12.175	120.28733	12.175	72.245645
12.176	132.3657	12.176	115.10385	12.176	68.352068
12.177	124.3065	12.177	107.13227	12.177	65.766608
12.178	118.87827	12.178	98.237959	12.178	64.215608
12.179	117.53835	12.179	90.500848	12.179	63.236778
12.18	120.68512	12.18	85.486095	12.18	62.503886
12.181	127.47836	12.181	83.760978	12.181	62.093271
12.182	136.12996	12.182	84.791827	12.182	62.464973
12.183	144.56222	12.183	87.217113	12.183	64.187864
12.184	151.06334	12.184	89.352643	12.184	67.542876
12.185	154.7384	12.185	89.787075	12.185	72.231655
12.186	155.57037	12.186	87.856068	12.186	77.396903
12.187	154.13181	12.187	83.869383	12.187	81.959185

12.188	151.14627	12.188	79.007434	12.188	85.068792
12.189	147.15065	12.189	74.919662	12.189	86.437501
12.19	142.40667	12.19	73.161775	12.19	86.398037
12.191	137.09032	12.191	74.639337	12.191	85.726094
12.192	131.53978	12.192	79.243923	12.192	85.360115
12.193	126.37912	12.193	85.822782	12.193	86.137252
12.194	122.37414	12.194	92.528189	12.194	88.554363
12.195	120.08515	12.195	97.446395	12.195	92.59093
12.196	119.55883	12.196	99.272747	12.196	97.644171
12.197	120.24704	12.197	97.73478	12.197	102.69211
12.198	121.26186	12.198	93.614026	12.198	106.69039
12.199	121.83769	12.199	88.415673	12.199	108.99143
12.2	121.72221	12.2	83.865094	12.2	109.55509
12.201	121.25283	12.201	81.405584	12.201	108.78824
12.202	121.05707	12.202	81.858171	12.202	107.17012
12.203	121.63445	12.203	85.244498	12.203	104.96363
12.204	123.02536	12.204	90.827606	12.204	102.20891
12.205	124.83234	12.205	97.362758	12.205	98.994404
12.206	126.43041	12.206	103.49955	12.206	95.695871
12.207	127.25406	12.207	108.18324	12.207	92.954235
12.208	126.93454	12.208	110.87362	12.208	91.414023
12.209	125.31627	12.209	111.50823	12.209	91.400678
12.21	122.40015	12.21	110.31349	12.21	92.816638
12.211	118.36055	12.211	107.65332	12.211	95.200109
12.212	113.64366	12.212	103.97492	12.212	97.869189
12.213	109.00105	12.213	99.820544	12.213	99.991953
12.214	105.33754	12.214	95.782729	12.214	100.71781
12.215	103.34639	12.215	92.387943	12.215	99.455615
12.216	103.15125	12.216	90.005408	12.216	96.260369
12.217	104.20864	12.217	88.836339	12.217	92.013241
12.218	105.56792	12.218	88.998948	12.218	88.144355
12.219	106.34467	12.219	90.546682	12.219	85.995871
12.22	106.13779	12.22	93.34886	12.22	86.186568
12.221	105.13311	12.221	96.847109	12.221	88.410368
12.222	103.94099	12.222	99.969915	12.222	91.770877
12.223	103.28828	12.223	101.36561	12.223	95.370132
12.224	103.76463	12.224	99.979689	12.224	98.719987
12.225	105.7108	12.225	95.665603	12.225	101.72974
12.226	109.23985	12.226	89.456687	12.226	104.41645
12.227	114.27988	12.227	83.21365	12.227	106.64226
12.228	120.58317	12.228	78.854042	12.228	108.12454
12.229	127.7437	12.229	77.523707	12.229	108.67986
12.23	135.24045	12.23	79.253003	12.23	108.46453
12.231	142.57249	12.231	83.173527	12.231	107.98612
12.232	149.35153	12.232	88.132862	12.232	107.88931
12.233	155.32718	12.233	93.239379	12.233	108.69688
12.234	160.3245	12.234	98.104068	12.234	110.72115
12.235	164.19834	12.235	102.70671	12.235	114.11575
12.236	166.83574	12.236	107.13312	12.236	118.92364
12.237	168.16884	12.237	111.38687	12.237	124.99248
		12.238	115.33036	12.238	131.78614

12.239	118.66485	12.239	138.2971
12.24	120.92646	12.24	143.23718
12.241	121.54608	12.241	145.49401
12.242	120.06389	12.242	144.62998
12.243	116.41288	12.243	141.07241
12.244	111.10067	12.244	135.83004
12.245	105.16799	12.245	129.92587
12.246	99.920286	12.246	123.87856
12.247	96.575238	12.247	117.61354
12.248	96.018137	12.248	110.78239
12.249	98.632454	12.249	103.2987
12.25	104.21832	12.25	95.655469
12.251	111.96407	12.251	88.80663
12.252	120.53931	12.252	83.721909
12.253	128.36815	12.253	80.910887
12.254	134.03903	12.254	80.200799
12.255	136.63329	12.255	80.827014
12.256	135.89839	12.256	81.759469
12.257	132.17224	12.257	82.112942
12.258	126.20924	12.258	81.467829
12.259	118.98117	12.259	80.004063
12.26	111.55021	12.26	78.384599
12.261	104.93698	12.261	77.371485
12.262	100.00357	12.262	77.394551
12.263	97.335655	12.263	78.265332
12.264	97.150763	12.264	79.200894
12.265	99.260317	12.265	79.168976
12.266	103.08649	12.266	77.365331
12.267	107.79382	12.267	73.612671
12.268	112.53671	12.268	68.535981
12.269	116.72864	12.269	63.4217
12.27	120.13578	12.27	59.820289
12.271	122.73281	12.271	59.011785
12.272	124.4141	12.272	61.539804
12.273	124.80918	12.273	67.088726
12.274	123.43258	12.274	74.699852
12.275	120.03015	12.275	83.264397
12.276	114.90352	12.276	91.960728
12.277	108.92697	12.277	100.4048
12.278	103.20384	12.278	108.45516
12.279	98.635851	12.279	115.85535
12.28	95.66995	12.28	122.00606
12.281	94.334346	12.281	126.04135
12.282	94.480349	12.282	127.20291
12.283	95.988674	12.283	125.2815
12.284	98.784357	12.284	120.84107
12.285	102.66016	12.285	115.0714
12.286	107.10579	12.286	109.37164
12.287	111.2855	12.287	104.84299
12.288	114.27862	12.288	101.96526
12.289	115.47537	12.289	100.50702

12.29	114.84142	12.29	99.682652
12.291	112.93169	12.291	98.495237
12.292	110.59946	12.292	96.153941
12.293	108.62234	12.293	92.400795
12.294	107.44631	12.294	87.602997
12.295	107.1788	12.295	82.494962
12.296	107.76906	12.296	77.741489
12.297	109.18461	12.297	73.586227
12.298	111.4497	12.298	69.819194
12.299	114.52994	12.299	66.12451
12.3	118.15253	12.3	62.494475
12.301	121.70154	12.301	59.470958
12.302	124.29801	12.302	57.966802
12.303	125.09369	12.303	58.855587
12.304	123.64315	12.304	62.528948
12.305	120.20179	12.305	68.684541
12.306	115.74069	12.306	76.453919
12.307	111.59264	12.307	84.737662
12.308	108.89015	12.308	92.554644
12.309	108.09024	12.309	99.232541
12.31	108.8914	12.31	104.42051
12.311	110.5302	12.311	107.99863
12.312	112.24149	12.312	109.96766
12.313	113.53171	12.313	110.40461
12.314	114.15351	12.314	109.43629
12.315	113.95659	12.315	107.22857
12.316	112.82324	12.316	104.00593
12.317	110.77598	12.317	100.12337
12.318	108.103	12.318	96.129505
12.319	105.2948	12.319	92.702993
12.32	102.76768	12.32	90.368437
12.321	100.60211	12.321	89.147573
12.322	98.544663	12.322	88.41906
12.323	96.331717	12.323	87.221302
12.324	94.086656	12.324	84.842221
12.325	92.50064	12.325	81.349925
12.326	92.564448	12.326	77.633904
12.327	95.014478	12.327	74.96536
12.328	99.831877	12.328	74.294853
12.329	106.15466	12.329	75.789647
12.33	112.66581	12.33	78.770812
12.331	118.17108	12.331	82.049033
12.332	121.98679	12.332	84.454363
12.333	123.9451	12.333	85.298114
12.334	124.13345	12.334	84.609228
12.335	122.65485	12.335	83.052265
12.336	119.6193	12.336	81.577121
12.337	115.30301	12.337	80.970099
12.338	110.29194	12.338	81.508809
12.339	105.44646	12.339	82.916416
12.34	101.73347	12.34	84.579435

12.341	100.01876	12.341	85.904377
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12.343	104.41709	12.343	86.772132
12.344	110.21331	12.344	86.751253
12.345	117.27475	12.345	86.839328
12.346	124.26322	12.346	87.081822
12.347	129.83651	12.347	87.246355
12.348	132.98077	12.348	87.014295
12.349	133.1877	12.349	86.271028
12.35	130.40687	12.35	85.266796
12.351	124.96199	12.351	84.586606
12.352	117.4945	12.352	84.932363
12.353	109.02151	12.353	86.838345
12.354	100.89408	12.354	90.439448
12.355	94.58368	12.355	95.367127
12.356	91.307948	12.356	100.79284
12.357	91.66497	12.357	105.64234
12.358	95.46378	12.358	108.94801
12.359	101.81865	12.359	110.17693
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12.361	117.21589	12.361	107.1729
12.362	124.05853	12.362	104.34289
12.363	129.42043	12.363	101.76404
12.364	133.04917	12.364	100.24409
12.365	134.98949	12.365	100.56223
12.366	135.55168	12.366	103.37741
12.367	135.24075	12.367	108.9616
12.368	134.58139	12.368	116.84271
12.369	133.90396	12.369	125.66307
12.37	133.22577	12.37	133.49967
12.371	132.34842	12.371	138.4973
12.372	131.10288	12.372	139.57398
12.373	129.54778	12.373	136.72454
12.374	127.94013	12.374	130.81053
12.375	126.53447	12.375	123.05217
12.376	125.33081	12.376	114.56704
12.377	124.05998	12.377	106.21115
12.378	122.37814	12.378	98.64528
12.379	120.20295	12.379	92.37829
12.38	117.87168	12.38	87.648048
12.381	116.0242	12.381	84.261979
12.382	115.25652	12.382	81.58825
12.383	115.77791	12.383	78.858193
12.384	117.29313	12.384	75.596061
12.385	119.11703	12.385	71.927907
12.386	120.47253	12.386	68.564994
12.387	120.76908	12.387	66.465383
12.388	119.81177	12.388	66.404972
12.389	117.87448	12.389	68.638283
12.39	115.59716	12.39	72.798235
12.391	113.72866	12.391	78.077543

12.392	112.7805	12.392	83.569474
12.393	112.77272	12.393	88.642214
12.394	113.26243	12.394	93.132421
12.395	113.63817	12.395	97.242268
12.396	113.49172	12.396	101.2299
12.397	112.79977	12.397	105.07031
12.398	111.85722	12.398	108.35667
12.399	111.06564	12.399	110.47367
12.4	110.7567	12.4	110.93584
12.401	111.15268	12.401	109.69385
12.402	112.40097	12.402	107.26176
12.403	114.60948	12.403	104.63321
12.404	117.7987	12.404	102.98822
12.405	121.81468	12.405	103.27856
12.406	126.27258	12.406	105.78073
12.407	130.58151	12.407	109.86364
12.408	134.10447	12.408	114.07915
12.409	136.39903	12.409	116.65101
12.41	137.40518	12.41	116.14224
12.411	137.46947	12.411	112.01265
12.412	137.1101	12.412	104.81501
12.413	136.60827	12.413	95.927934
12.414	135.71139	12.414	87.036253
12.415	133.68192	12.415	79.615342
12.416	129.77028	12.416	74.643553
12.417	123.8546	12.417	72.579891
12.418	116.7984	12.418	73.493641
12.419	110.21435	12.419	77.189085
12.42	105.76157	12.42	83.243901
12.421	104.38075	12.421	90.95563
12.422	105.94689	12.422	99.304675
12.423	109.44717	12.423	107.03987
12.424	113.49678	12.424	112.89386
12.425	116.88096	12.425	115.87798
12.426	118.88434	12.426	115.5226
12.427	119.38554	12.427	111.94326
12.428	118.7373	12.428	105.76476
12.429	117.52514	12.429	97.943516
12.43	116.26646	12.43	89.527101
12.431	115.16623	12.431	81.413557
12.432	114.04618	12.432	74.167301
12.433	112.5192	12.433	67.996936
12.434	110.3353	12.434	62.924226
12.435	107.69533	12.435	58.981636
12.436	105.30981	12.436	56.317986
12.437	104.14603	12.437	55.120854
12.438	104.9547	12.438	55.515117
12.439	107.84612	12.439	57.56281
12.44	112.214	12.44	61.370272
12.441	117.02578	12.441	67.140549
12.442	121.33109	12.442	75.06789

12.443	124.62999	12.443	85.111724
12.444	126.94352	12.444	96.83902
12.445	128.54885	12.445	109.43987
12.446	129.64812	12.446	121.88681
12.447	130.13394	12.447	133.17579
12.448	129.63234	12.448	142.50228
12.449	127.75182	12.449	149.34595
12.45	124.38779	12.45	153.44029
12.451	119.9202	12.451	154.69772
12.452	115.16778	12.452	153.17809
12.453	111.18198	12.453	149.09284
12.454	108.90898	12.454	142.87059
12.455	108.86611	12.455	135.16999
12.456	110.93829	12.456	126.77752
12.457	114.37318	12.457	118.42657
12.458	117.96044	12.458	110.63752
12.459	120.38116	12.459	103.69169
12.46	120.6456	12.46	97.744139
12.461	118.45913	12.461	92.975294
12.462	114.42307	12.462	89.678427
12.463	109.92813	12.463	88.193846
12.464	106.7216	12.464	88.736351
12.465	106.26046	12.465	91.202549
12.466	109.15121	12.466	95.098395
12.467	114.93251	12.467	99.620496
12.468	122.31747	12.468	103.87891
12.469	129.6676	12.469	107.16548
12.47	135.45527	12.47	109.1816
12.471	138.55987	12.471	110.12342
12.472	138.41806	12.472	110.54253
12.473	135.07356	12.473	111.10132
12.474	129.1577	12.474	112.32357
12.475	121.76033	12.475	114.51971
12.476	114.19503	12.476	117.8819
12.477	107.76442	12.477	122.5951
12.478	103.57409	12.478	128.8155
12.479	102.42655	12.479	136.46313
12.48	104.71316	12.48	144.99117
12.481	110.26518	12.481	153.2845
12.482	118.25683	12.482	159.78474
12.483	127.27772	12.483	162.80497
12.484	135.6736	12.484	160.95095
12.485	142.06393	12.485	153.55753
12.486	145.79636	12.486	140.99882
12.487	147.0634	12.487	124.72295
12.488	146.60767	12.488	106.93781
12.489	145.18374	12.489	90.066586
12.49	143.12375	12.49	76.175484
12.491	140.29771	12.491	66.619251
12.492	136.44807	12.492	61.983326
12.493	131.62943	12.493	62.200342

12.494	126.44721	12.494	66.684712
12.495	121.91817	12.495	74.43127
12.496	118.97489	12.496	84.142303
12.497	117.95435	12.497	94.447649
12.498	118.32828	12.498	104.17876
12.499	118.92042	12.499	112.54511
12.5	118.51023	12.5	119.11656
12.501	116.49045	12.501	123.69106
12.502	113.16795	12.502	126.18639
12.503	109.57979	12.503	126.66312
12.504	106.94395	12.504	125.39656
12.505	106.10928	12.505	122.87433
12.506	107.24532	12.506	119.65988
12.507	109.82486	12.507	116.19992
12.508	112.88964	12.508	112.74266
12.509	115.40941	12.509	109.42112
12.51	116.65516	12.51	106.41289
12.511	116.42202	12.511	104.02647
12.512	115.00104	12.512	102.62624
12.513	112.9437	12.513	102.41489
12.514	110.79509	12.514	103.2134
12.515	108.96213	12.515	104.41014
12.516	107.73399	12.516	105.15606
12.517	107.32183	12.517	104.72586
12.518	107.80486	12.518	102.8532
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12.52	110.3926	12.52	96.358555
12.521	111.53638	12.521	93.135831
12.522	112.19892	12.522	90.659789
12.523	112.60838	12.523	89.055916
12.524	113.26616	12.524	88.145314
12.525	114.59453	12.525	87.565182
12.526	116.68074	12.526	86.881113
12.527	119.2689	12.527	85.674611
12.528	121.93886	12.528	83.622507
12.529	124.27479	12.529	80.619748
12.53	125.91489	12.53	76.899813
12.531	126.58046	12.531	73.074096
12.532	126.1792	12.532	70.022778
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12.534	123.38361	12.534	69.216751
12.535	122.1726	12.535	71.789912
12.536	121.6982	12.536	75.631372
12.537	121.94715	12.537	79.832601
12.538	122.62258	12.538	83.635575
12.539	123.48713	12.539	86.740671
12.54	124.64481	12.54	89.375847
12.541	126.55386	12.541	92.077172
12.542	129.73293	12.542	95.323458
12.543	134.361	12.543	99.21745
12.544	140.02462	12.544	103.42073

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12.546	150.34932	12.546	110.38153
12.547	152.84817	12.547	111.99791
12.548	152.79089	12.548	111.74029
12.549	150.26728	12.549	109.22038
12.55	145.73131	12.55	104.23155
12.551	139.78107	12.551	96.958301
12.552	133.00932	12.552	88.088788
12.553	125.97602	12.553	78.746829
12.554	119.18414	12.554	70.267623
12.555	113.05128	12.555	63.892567
12.556	107.88843	12.556	60.518018
12.557	103.93308	12.557	60.503397
12.558	101.38159	12.558	63.620482
12.559	100.42575	12.559	69.119165
12.56	101.19765	12.56	75.930284
12.561	103.72744	12.561	82.916354
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12.564	120.20621	12.564	96.112414
12.565	127.50787	12.565	96.257511
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12.567	140.58557	12.567	90.684835
12.568	144.14895	12.568	86.660171
12.569	144.44057	12.569	83.402864
12.57	141.24873	12.57	81.868449
12.571	135.28279	12.571	82.300304
12.572	128.04112	12.572	84.011722
12.573	121.30793	12.573	85.590492
12.574	116.49768	12.574	85.423762
12.575	114.15794	12.575	82.388794
12.576	113.85968	12.576	76.36953
12.577	114.56973	12.577	68.438791
12.578	115.23482	12.578	60.56789
12.579	115.30645	12.579	54.966313
12.58	114.87579	12.58	53.317377
12.581	114.44357	12.581	56.145777
12.582	114.47911	12.582	62.662633
12.583	115.091	12.583	71.14693
12.584	115.94588	12.584	79.718158
12.585	116.4982	12.585	87.082593
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12.587	115.55884	12.587	97.426906
12.588	114.68554	12.588	101.41106
12.589	114.60163	12.589	105.32933
12.59	116.07911	12.59	109.4063
12.591	119.40601	12.591	113.58966
12.592	124.17623	12.592	117.56946
12.593	129.3985	12.593	120.79544
12.594	133.86952	12.594	122.5629
12.595	136.66803	12.595	122.25675

12.596	137.50378	12.596	119.70799
12.597	136.77278	12.597	115.44919
12.598	135.33359	12.598	110.65087
12.599	134.12034	12.599	106.71846
12.6	133.82403	12.6	104.71224
12.601	134.77945	12.601	104.95778
12.602	137.01145	12.602	107.00927
12.603	140.33907	12.603	109.96421
12.604	144.35876	12.604	112.88208
12.605	148.32977	12.605	115.05372
12.606	151.14382	12.606	116.05577
12.607	151.56583	12.607	115.66898
12.608	148.7521	12.608	113.82026
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12.614	116.69345	12.614	90.616414
12.615	118.73672	12.615	89.544878
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12.617	125.59672	12.617	90.172314
12.618	128.90831	12.618	91.099299
12.619	131.70251	12.619	92.051349
12.62	133.84402	12.62	92.815002
12.621	135.2479	12.621	93.175044
12.622	135.98566	12.622	92.88987
12.623	136.38756	12.623	91.721216
12.624	136.97864	12.624	89.483511
12.625	138.23264	12.625	86.121259
12.626	140.26805	12.626	81.777792
12.627	142.74506	12.627	76.871945
12.628	144.9843	12.628	72.135541
12.629	146.28702	12.629	68.520068
12.63	146.28976	12.63	66.941332
12.631	145.20948	12.631	67.978784
12.632	143.85463	12.632	71.691395
12.633	143.31319	12.633	77.681496
12.634	144.43583	12.634	85.325886
12.635	147.32619	12.635	93.938431
12.636	151.15075	12.636	102.75207
12.637	154.43534	12.637	110.78397
12.638	155.74831	12.638	116.78355
12.639	154.38184	12.639	119.46713
12.64	150.62737	12.64	117.98256
12.641	145.47446	12.641	112.38682
12.642	140.00142	12.642	103.84994
12.643	134.89792	12.643	94.432957
12.644	130.39437	12.644	86.538179
12.645	126.55839	12.645	82.22125
12.646	123.58532	12.646	82.628694

12.647	121.81701	12.647	87.780913
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12.649	122.28198	12.649	108.12724
12.65	123.64646	12.65	120.45051
12.651	124.77306	12.651	132.49469
12.652	125.1333	12.652	143.23008
12.653	124.67829	12.653	151.66001
12.654	123.76752	12.654	156.75335
12.655	122.96173	12.655	157.61133
12.656	122.78855	12.656	153.76599
12.657	123.61831	12.657	145.44502
12.658	125.57842	12.658	133.60821
12.659	128.49236	12.659	119.7726
12.66	131.89063	12.66	105.74665
12.661	135.18535	12.661	93.399971
12.662	137.97367	12.662	84.464785
12.663	140.31714	12.663	80.265855
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12.667	154.43092	12.667	106.82112
12.668	158.46308	12.668	116.32224
12.669	161.14189	12.669	123.61611
12.67	162.26775	12.67	128.25812
12.671	162.4365	12.671	130.53687
12.672	162.64271	12.672	131.09262
12.673	163.64435	12.673	130.5073
12.674	165.48199	12.674	129.09518
12.675	167.44868	12.675	126.85327
12.676	168.42212	12.676	123.60441
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12.678	163.93478	12.678	113.9528
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12.705	159.43703	12.705	129.77006
12.706	156.95082	12.706	124.17089
12.707	153.76582	12.707	115.43021
12.708	150.13507	12.708	105.40602
12.709	146.20125	12.709	96.052537
12.71	142.13332	12.71	88.823193
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12.714	133.36562	12.714	86.584558
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12.717	140.95009	12.717	101.92222
12.718	143.44095	12.718	107.02383
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12.729	160.94304	12.729	138.33819
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12.755	155.81331	12.755	104.2819
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12.789	117.69447	12.789	116.25622
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12.804	136.18656	12.804	105.14123
12.805	137.40187	12.805	101.01463
12.806	139.9315	12.806	96.259552
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12.81	152.18027	12.81	97.850772
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12.812	149.16099	12.812	111.99285
12.813	144.71652	12.813	117.98317
12.814	138.90826	12.814	122.21764
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12.816	125.60386	12.816	126.73377
12.817	119.57117	12.817	128.06308
12.818	115.01995	12.818	128.99026
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12.824	126.77113	12.824	128.8557
12.825	132.12359	12.825	129.62912
12.826	137.36483	12.826	129.55231
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12.83	151.45181	12.83	110.06789
12.831	153.83351	12.831	101.91608
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12.837	152.25984	12.837	79.981802
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12.857	110.06953	12.857	119.94695
12.858	110.81557	12.858	123.0387
12.859	111.98616	12.859	124.51733
12.86	114.14591	12.86	125.34276
12.861	118.0433	12.861	126.58428
12.862	124.22975	12.862	129.00335
12.863	132.64426	12.863	132.74584
12.864	142.38405	12.864	137.22915
12.865	151.8593	12.865	141.31008
12.866	159.28452	12.866	143.63233
12.867	163.29114	12.867	143.08633
12.868	163.37961	12.868	139.16278
12.869	160.00637	12.869	132.10307
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12.871	147.63299	12.871	112.40024
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12.873	135.63548	12.873	93.35834
12.874	131.34444	12.874	86.544453
12.875	128.2164	12.875	82.222472
12.876	125.95847	12.876	80.419451
12.877	124.2007	12.877	80.714852
12.878	122.6262	12.878	82.284818
12.879	121.0382	12.879	84.126463
12.88	119.37527	12.88	85.434117
12.881	117.65337	12.881	85.911433
12.882	115.92361	12.882	85.894249
12.883	114.23342	12.883	86.129695
12.884	112.64746	12.884	87.348602
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12.887	109.80245	12.887	97.166202
12.888	109.91652	12.888	100.1042
12.889	110.55273	12.889	101.34044
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12.891	112.76175	12.891	97.746363
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12.893	115.54919	12.893	90.880526
12.894	116.97471	12.894	89.236857
12.895	118.31513	12.895	89.940265
12.896	119.6402	12.896	93.096452
12.897	121.27184	12.897	98.260282
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12.904 146.55457	12.904 130.27774
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12.91 137.62749	12.91 114.10025
12.911 140.63906	12.911 110.95814
12.912 144.62102	12.912 108.11463
12.913 148.57711	12.913 105.03646
12.914 151.82589	12.914 101.33218
12.915 154.20044	12.915 97.128303
12.916 155.88631	12.916 93.085425
12.917 157.089	12.917 90.117647
12.918 157.72914	12.918 89.031172
12.919 157.38238	12.919 90.270284
12.92 155.53141	12.92 93.834609
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12.922 147.09848	12.922 105.74894
12.923 141.79933	12.923 112.1947
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13	127.05881	13	110.40534
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13.006	126.13562	13.006	138.8483
13.007	131.1895	13.007	135.47261
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13.032	137.10093	13.032	138.46959
13.033	134.92751	13.033	134.92415
13.034	132.83536	13.034	129.39134
13.035	131.32864	13.035	122.39515
13.036	130.77927	13.036	114.53868
13.037	131.35996	13.037	106.46571
13.038	133.03959	13.038	98.895903
13.039	135.59772	13.039	92.656914
13.04	138.58604	13.04	88.596746
13.041	141.30721	13.041	87.408709
13.042	142.89919	13.042	89.414005
13.043	142.55859	13.043	94.431892
13.044	139.88231	13.044	101.81696
13.045	135.18009	13.045	110.66326
13.046	129.54063	13.046	120.05984
13.047	124.52954	13.047	129.30785
13.048	121.59316	13.048	137.96209
13.049	121.45635	13.049	145.74436
13.05	123.8474	13.05	152.37629
13.051	127.68747	13.051	157.48284
13.052	131.64453	13.052	160.56604
13.053	134.66805	13.053	161.10808
13.054	136.24984	13.054	158.78778

13.055	136.30421	13.055	153.71588
13.056	134.89729	13.056	146.59116
13.057	132.10739	13.057	138.59938
13.058	128.13487	13.058	131.04774
13.059	123.50402	13.059	124.9176
13.06	119.08073	13.06	120.55528
13.061	115.76507	13.061	117.62977
13.062	113.99764	13.062	115.40773
13.063	113.44919	13.063	113.14208
13.064	113.14714	13.064	110.4519
13.065	112.02477	13.065	107.4951
13.066	109.5255	13.066	104.87811
13.067	105.89307	13.067	103.29158
13.068	102.0449	13.068	103.05225
13.069	99.151842	13.069	103.8689
13.07	98.176811	13.07	105.02697
13.071	99.561664	13.071	105.92876
13.072	103.12165	13.072	106.59304
13.073	108.15493	13.073	107.73723
13.074	113.72462	13.074	110.33607
13.075	118.98145	13.075	114.99744
13.076	123.39099	13.076	121.58039
13.077	126.74881	13.077	129.26751
13.078	129.02671	13.078	136.90119
13.079	130.17932	13.079	143.34675
13.08	130.0796	13.08	147.69983
13.081	128.62636	13.081	149.37403
13.082	125.98004	13.082	148.20266
13.083	122.69888	13.083	144.50507
13.084	119.67805	13.084	139.06952
13.085	117.79693	13.085	132.99604
13.086	117.49814	13.086	127.46289
13.087	118.57224	13.087	123.4399
13.088	120.26291	13.088	121.46959
13.089	121.6824	13.089	121.54188
13.09	122.23888	13.09	123.17193
13.091	121.86161	13.091	125.61845
13.092	120.90291	13.092	128.17455
13.093	119.84895	13.093	130.34789
13.094	119.05247	13.094	131.8088
13.095	118.60896	13.095	132.28316
13.096	118.41279	13.096	131.48074
13.097	118.31477	13.097	129.22065
13.098	118.26633	13.098	125.63499
13.099	118.37499	13.099	121.29679
13.1	118.87062	13.1	117.10555
13.101	119.99307	13.101	114.01143
13.102	121.84592	13.102	112.76408
13.103	124.23293	13.103	113.81659
13.104	126.55766	13.104	117.37269
13.105	127.91108	13.105	123.41469

13.106	127.42662	13.106	131.62885
13.107	124.769	13.107	141.28939
13.108	120.45486	13.108	151.31098
13.109	115.73295	13.109	160.55001
13.11	112.08449	13.11	168.23691
13.111	110.63949	13.111	174.24235
13.112	111.88276	13.112	178.94418
13.113	115.73769	13.113	182.79595
13.114	121.77649	13.114	185.87346
13.115	129.37411	13.115	187.72805
13.116	137.69921	13.116	187.59155
13.117	145.7041	13.117	184.75175
13.118	152.24316	13.118	178.89613
13.119	156.28663	13.119	170.31104
13.12	157.16858	13.12	159.91589
13.121	154.75506	13.121	149.16415
13.122	149.5156	13.122	139.7214
13.123	142.50343	13.123	132.94401
13.124	135.19224	13.124	129.34377
13.125	129.19484	13.125	128.38547
13.126	125.88162	13.126	128.79266
13.127	126.02903	13.127	129.23448
13.128	129.64064	13.128	128.9784
13.129	135.9495	13.129	128.08208
13.13	143.62345	13.13	127.12521
13.131	151.05336	13.131	126.67605
13.132	156.7121	13.132	126.92099
13.133	159.45783	13.133	127.59063
13.134	158.7777	13.134	128.13864
13.135	154.85826	13.135	127.95612
13.136	148.47665	13.136	126.53189
13.137	140.7667	13.137	123.60538
13.138	132.92869	13.138	119.27291
13.139	125.96724	13.139	114.05706
13.14	120.50142	13.14	108.78823
13.141	116.69539	13.141	104.33111
13.142	114.30829	13.142	101.31384
13.143	112.85333	13.143	100.00206
13.144	111.79665	13.144	100.37997
13.145	110.70122	13.145	102.33582
13.146	109.25533	13.146	105.82608
13.147	107.26965	13.147	110.88845
13.148	104.70978	13.148	117.51841
13.149	101.83829	13.149	125.4618
13.15	99.321458	13.15	134.02823
13.151	98.15283	13.151	142.08616
13.152	99.313222	13.152	148.28212
13.153	103.29128	13.153	151.44117
13.154	109.79514	13.154	150.94939
13.155	117.79409	13.155	146.94243
13.156	125.92564	13.156	140.24716

13.157	132.98181	13.157	132.13848
13.158	138.21153	13.158	124.08116
13.159	141.32128	13.159	117.40774
13.16	142.31965	13.16	113.02051
13.161	141.39061	13.161	111.18109
13.162	138.87059	13.162	111.53043
13.163	135.26723	13.163	113.3691
13.164	131.26132	13.164	116.03417
13.165	127.62885	13.165	119.1642
13.166	125.14393	13.166	122.71522
13.167	124.47582	13.167	126.77851
13.168	126.07966	13.168	131.31147
13.169	130.06861	13.169	135.96523
13.17	136.08872	13.17	140.07002
13.171	143.3292	13.171	142.81807
13.172	150.69604	13.172	143.62488
13.173	157.14295	13.173	142.49267
13.174	161.98479	13.174	140.19372
13.175	165.04787	13.175	138.07274
13.176	166.57983	13.176	137.48807
13.177	166.96427	13.177	139.14233
13.178	166.46128	13.178	142.66797
13.179	165.10598	13.179	146.74091
13.18	162.83883	13.18	149.70582
13.181	159.75217	13.181	150.42149
13.182	156.29038	13.182	148.82285
13.183	153.2169	13.183	145.86927
13.184	151.30228	13.184	142.94868
13.185	150.93429	13.185	141.11164
13.186	151.8712	13.186	140.56613
13.187	153.38601	13.187	140.69655
13.188	154.68562	13.188	140.47963
13.189	155.28833	13.189	139.05225
13.19	155.11955	13.19	136.16083
13.191	154.26374	13.191	132.2623
13.192	152.62675	13.192	128.26743
13.193	149.82687	13.193	125.09808
13.194	145.48741	13.194	123.29086
13.195	139.67976	13.195	122.93932
13.196	133.11818	13.196	123.90096
13.197	126.88876	13.197	126.0835
13.198	121.83566	13.198	129.52675
13.199	118.08003	13.199	134.24341
13.2	115.0182	13.2	140.00587
13.201	111.81016	13.201	146.23949
13.202	108.00272	13.202	152.1427
13.203	103.86317	13.203	156.91653
13.204	100.24542	13.204	160.0169
13.205	98.158269	13.205	161.3066
13.206	98.289069	13.206	161.02847
13.207	100.7551	13.207	159.62191

13.208	105.12411	13.208	157.45822
13.209	110.6053	13.209	154.64785
13.21	116.32568	13.21	151.02818
13.211	121.59273	13.211	146.36538
13.212	126.04713	13.212	140.6501
13.213	129.72834	13.213	134.30114
13.214	133.00715	13.214	128.14713
13.215	136.42719	13.215	123.12816
13.216	140.48303	13.216	119.99701
13.217	145.4233	13.217	119.11369
13.218	151.10805	13.218	120.47006
13.219	156.97879	13.219	123.78068
13.22	162.16006	13.22	128.52295
13.221	165.7041	13.221	133.97292
13.222	166.87791	13.222	139.3032
13.223	165.44093	13.223	143.87746
13.224	161.75877	13.224	147.54253
13.225	156.75359	13.225	150.71309
13.226	151.66712	13.226	154.05434
13.227	147.69355	13.227	157.95024
13.228	145.60222	13.228	162.1243
13.229	145.47541	13.229	165.72158
13.23	146.69729	13.23	167.79879
13.231	148.22083	13.231	167.86323
13.232	148.97706	13.232	166.05563
13.233	148.28079	13.233	162.91651
13.234	146.03217	13.234	158.98852
13.235	142.65682	13.235	154.59597
13.236	138.89371	13.236	149.94391
13.237	135.51582	13.237	145.36874
13.238	133.0857	13.238	141.48006
13.239	131.82457	13.239	138.9398
13.24	131.6079	13.24	138.13922
13.241	132.06218	13.241	138.93825
13.242	132.71148	13.242	140.76399
13.243	133.10558	13.243	142.93014
13.244	132.85627	13.244	144.92661
13.245	131.66681	13.245	146.48999
13.246	129.38639	13.246	147.46686
13.247	126.17561	13.247	147.67749
13.248	122.63813	13.248	146.91023
13.249	119.78215	13.249	145.07988
13.25	118.70561	13.25	142.37218
13.251	120.11022	13.251	139.27774
13.252	123.95985	13.252	136.39926
13.253	129.42873	13.253	134.21273
13.254	135.18237	13.254	132.93664
13.255	139.7903	13.255	132.58118
13.256	142.12631	13.256	133.09982
13.257	141.59297	13.257	134.48498
13.258	138.18371	13.258	136.73169

13.259	132.432	13.259	139.70771
13.26	125.295	13.26	143.11915
13.261	117.9752	13.261	146.57709
13.262	111.65654	13.262	149.77915
13.263	107.18348	13.263	152.62976
13.264	104.81064	13.264	155.2537
13.265	104.15196	13.265	157.83577
13.266	104.43554	13.266	160.44718
13.267	104.87027	13.267	162.89673
13.268	104.93814	13.268	164.73152
13.269	104.45381	13.269	165.4391
13.27	103.465	13.27	164.72174
13.271	102.18637	13.271	162.65502
13.272	101.03527	13.272	159.59531
13.273	100.65238	13.273	155.88087
13.274	101.71488	13.274	151.61006
13.275	104.57873	13.275	146.70472
13.276	109.02507	13.276	141.22461
13.277	114.32016	13.277	135.66341
13.278	119.63387	13.278	130.90032
13.279	124.46607	13.279	127.81975
13.28	128.7566	13.28	126.91873
13.281	132.618	13.281	128.19091
13.282	135.94576	13.282	131.29142
13.283	138.2647	13.283	135.75223
13.284	138.93642	13.284	141.05862
13.285	137.57004	13.285	146.61897
13.286	134.35925	13.286	151.86422
13.287	130.13868	13.287	156.3976
13.288	126.10806	13.288	160.10592
13.289	123.35634	13.289	163.01365
13.29	122.42736	13.29	164.99019
13.291	123.11537	13.291	165.60321
13.292	124.67699	13.292	164.32693
13.293	126.33217	13.293	160.99459
13.294	127.76073	13.294	156.13654
13.295	129.22362	13.295	150.92719
13.296	131.22715	13.296	146.72505
13.297	133.99151	13.297	144.48053
13.298	137.14729	13.298	144.39449
13.299	139.91045	13.299	145.95821
13.3	141.56978	13.3	148.32208
13.301	141.85656	13.301	150.70614
13.302	140.94499	13.302	152.60914
13.303	139.12671	13.303	153.81829
13.304	136.50773	13.304	154.31613
13.305	132.96651	13.305	154.22452
13.306	128.38772	13.306	153.79438
13.307	122.96279	13.307	153.37114
13.308	117.27043	13.308	153.2385
13.309	112.12546	13.309	153.39522

13.31 108.24743	13.31 153.45759
13.311 105.94558	13.311 152.79663
13.312 105.0378	13.312 150.90424
13.313 105.0122	13.313 147.71856
13.314 105.41435	13.314 143.71128
13.315 106.1889	13.315 139.64248
13.316 107.74286	13.316 136.16706
13.317 110.63382	13.317 133.55977
13.318 115.04478	13.318 131.75705
13.319 120.41039	13.319 130.64788
13.32 125.42927	13.32 130.3489
13.321 128.44711	13.321 131.19975
13.322 128.04866	13.322 133.45835
13.323 123.57641	13.323 136.92336
13.324 115.43618	13.324 140.82121
13.325 105.09835	13.325 144.03412
13.326 94.782381	13.326 145.53597
13.327 86.821078	13.327 144.79866
13.328 82.922438	13.328 141.91149
13.329 83.588303	13.329 137.46024
13.33 88.010429	13.33 132.26327
13.331 94.481232	13.331 127.10666
13.332 101.14266	13.332 122.60799
13.333 106.69891	13.333 119.22618
13.334 110.75212	13.334 117.34971
13.335 113.64239	13.335 117.29361
13.336 115.9485	13.336 119.13817
13.337 117.9999	13.337 122.54251
13.338 119.75734	13.338 126.72488
13.339 121.0443	13.339 130.76279
13.34 121.89357	13.34 134.0362
13.341 122.67377	13.341 136.44854
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13.343 126.04082	13.343 140.026
13.344 129.14389	13.344 141.7986
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13.346 137.51448	13.346 145.79622
13.347 142.12765	13.347 148.11975
13.348 146.47417	13.348 150.56872
13.349 150.06603	13.349 152.69574
13.35 152.48409	13.35 153.79778
13.351 153.52932	13.351 153.31761
13.352 153.28625	13.352 151.34885
13.353 152.04787	13.353 148.84411
13.354 150.16418	13.354 147.22693
13.355 147.92523	13.355 147.61912
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13.357 143.09342	13.357 153.86493
13.358 140.61804	13.358 157.25689
13.359 137.9943	13.359 159.08051
13.36 135.02053	13.36 158.92378

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13.362	127.50439	13.362	155.2196
13.363	123.29689	13.363	153.69527
13.364	119.48183	13.364	153.16131
13.365	116.73875	13.365	153.33859
13.366	115.58735	13.366	153.51448
13.367	116.14172	13.367	153.09792
13.368	118.00517	13.368	152.1079
13.369	120.38421	13.369	151.17792
13.37	122.39743	13.37	151.0412
13.371	123.50042	13.371	151.89105
13.372	123.79332	13.372	153.12413
13.373	123.94895	13.373	153.67615
13.374	124.76277	13.374	152.72527
13.375	126.58607	13.375	150.24606
13.376	128.99817	13.376	147.09162
13.377	130.9561	13.377	144.56935
13.378	131.32829	13.378	143.80295
13.379	129.44882	13.379	145.18377
13.38	125.35697	13.38	148.15837
13.381	119.6349	13.381	151.451
13.382	113.04244	13.382	153.61028
13.383	106.25793	13.383	153.68362
13.384	99.884344	13.384	151.73319
13.385	94.564532	13.385	148.87546
13.386	90.978712	13.386	146.7664
13.387	89.61317	13.387	146.74439
13.388	90.443961	13.388	149.03348
13.389	92.867856	13.389	152.57941
13.39	96.005465	13.39	155.60949
13.391	99.227705	13.391	156.63412
13.392	102.53235	13.392	155.25465
13.393	106.46176	13.393	152.27716
13.394	111.63672	13.394	149.1289
13.395	118.24665	13.395	147.04196
13.396	125.85964	13.396	146.51301
13.397	133.65213	13.397	147.30331
13.398	140.84186	13.398	148.83386
13.399	146.98631	13.399	150.60438
13.4	151.99174	13.4	152.38693
13.401	155.92441	13.401	154.14482
13.402	158.79703	13.402	155.82903
13.403	160.47301	13.403	157.23912
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13.405	159.39994	13.405	157.98268
13.406	156.68697	13.406	156.8902
13.407	153.24763	13.407	154.87778
13.408	150.12996	13.408	152.21716
13.409	148.35572	13.409	149.22372
13.41	148.35612	13.41	146.1337
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13.412 150.89303	13.412 139.85665
13.413 150.79386	13.413 136.58557
13.414 148.61328	13.414 133.39507
13.415 144.68448	13.415 130.776
13.416 140.23522	13.416 129.3931
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13.418 135.78262	13.418 131.91594
13.419 137.64911	13.419 135.35551
13.42 142.09272	13.42 139.19475
13.421 147.88978	13.421 142.50973
13.422 153.25656	13.422 144.5888
13.423 156.45219	13.423 145.03444
13.424 156.4595	13.424 143.77841
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13.427 143.71408	13.427 134.10569
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13.43 137.7852	13.43 131.46693
13.431 137.14624	13.431 133.78763
13.432 135.25385	13.432 136.94456
13.433 131.61635	13.433 140.19765
13.434 126.72817	13.434 142.96683
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13.437 117.65914	13.437 148.11931
13.438 119.57641	13.438 150.46087
13.439 123.60152	13.439 154.01173
13.44 128.48315	13.44 158.63996
13.441 132.74493	13.441 163.57453
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13.443 134.94966	13.443 169.88436
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13.445 128.18172	13.445 166.84616
13.446 123.86642	13.446 162.06563
13.447 120.82575	13.447 156.0468
13.448 120.0778	13.448 149.70153
13.449 121.92291	13.449 143.88271
13.45 125.88855	13.45 139.14758
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13.453 138.99434	13.453 129.6893
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13.455 137.04691	13.455 123.21797
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13.457 122.41047	13.457 121.26279
13.458 112.6287	13.458 124.52997
13.459 103.76436	13.459 130.81987
13.46 97.778542	13.46 139.2909
13.461 95.87658	13.461 148.69137
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13.465 116.01677	13.465 174.26056
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13.467 125.0108	13.467 171.81717
13.468 128.30197	13.468 167.27566
13.469 131.46503	13.469 161.85752
13.47 134.67013	13.47 156.6323
13.471 137.76109	13.471 152.24298
13.472 140.44531	13.472 148.73113
13.473 142.42254	13.473 145.69524
13.474 143.33759	13.474 142.67928
13.475 142.70213	13.475 139.54922
13.476 139.97819	13.476 136.64407
13.477 134.87944	13.477 134.65473
13.478 127.75064	13.478 134.33063
13.479 119.72083	13.479 136.22276
13.48 112.45038	13.48 140.53788
13.481 107.57368	13.481 147.05083
13.482 106.11432	13.482 155.04663
13.483 108.2242	13.483 163.32946
13.484 113.29306	13.484 170.42868
13.485 120.30855	13.485 174.98444
13.486 128.21784	13.486 176.17281
13.487 136.11842	13.487 173.88205
13.488 143.25133	13.488 168.60267
13.489 148.90888	13.489 161.14308
13.49 152.37608	13.49 152.43847
13.491 153.05601	13.491 143.48298
13.492 150.70536	13.492 135.30892
13.493 145.70852	13.493 128.83628
13.494 139.11106	13.494 124.62163
13.495 132.36367	13.495 122.68495
13.496 126.79872	13.496 122.57173
13.497 123.19859	13.497 123.60783
13.498 121.64459	13.498 125.1679
13.499 121.77536	13.499 126.7849
13.5 123.18917	13.5 128.10223
13.501 125.69094	13.501 128.7927
13.502 129.17443	13.502 128.5426
13.503 133.25523	13.503 127.15991
13.504 137.04296	13.504 124.77676
13.505 139.31127	13.505 122.01192
13.506 139.06701	13.506 119.96
13.507 136.14231	13.507 119.89718
13.508 131.38194	13.508 122.80534
13.509 126.28893	13.509 128.92262
13.51 122.33825	13.51 137.603
13.511 120.4073	13.511 147.56535
13.512 120.63059	13.512 157.36978
13.513 122.65441	13.513 165.82218

13.514 125.96547	13.514 172.1219
13.515 130.03184	13.515 175.77722
13.516 134.19405	13.516 176.55257
13.517 137.56814	13.517 174.52046
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13.523 124.91008	13.523 147.99626
13.524 125.16549	13.524 147.17257
13.525 127.79436	13.525 147.31635
13.526 131.90461	13.526 148.41623
13.527 136.32219	13.527 150.74041
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13.529 142.99048	13.529 159.79422
13.53 145.16631	13.53 165.6102
13.531 147.23577	13.531 170.62969
13.532 149.74061	13.532 173.27266
13.533 152.93152	13.533 172.33086
13.534 156.64087	13.534 167.41074
13.535 160.28063	13.535 159.11901
13.536 162.93009	13.536 148.94867
13.537 163.56152	13.537 138.8997
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13.539 156.23825	13.539 126.41282
13.54 148.84843	13.54 125.79285
13.541 140.73568	13.541 128.64698
13.542 133.74017	13.542 134.02804
13.543 129.34695	13.543 140.86435
13.544 128.11517	13.544 148.17877
13.545 129.5414	13.545 155.10738
13.546 132.36803	13.546 160.8511
13.547 135.16915	13.547 164.72776
13.548 136.9086	13.548 166.31452
13.549 137.1937	13.549 165.54456
13.55 136.21315	13.55 162.68417
13.551 134.42868	13.551 158.18544
13.552 132.24983	13.552 152.60079
13.553 129.83801	13.553 146.55668
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13.555 124.12019	13.555 135.86327
13.556 120.89059	13.556 132.29416
13.557 117.8377	13.557 130.19525
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13.56 113.83286	13.56 132.38529
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13.562 116.09274	13.562 141.35986
13.563 118.02467	13.563 147.49226
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13.565 122.58304	13.565 159.14427
13.566 124.94209	13.566 163.29147
13.567 127.03688	13.567 165.99012
13.568 128.52312	13.568 167.33402
13.569 129.13161	13.569 167.47897
13.57 128.79914	13.57 166.57184
13.571 127.73664	13.571 164.82192
13.572 126.38235	13.572 162.57618
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13.574 124.89513	13.574 158.50416
13.575 125.52162	13.575 157.54809
13.576 127.13712	13.576 157.658
13.577 129.47546	13.577 158.88142
13.578 132.1551	13.578 161.10697
13.579 134.79877	13.579 164.03779
13.58 137.07886	13.58 167.15374
13.581 138.7405	13.581 169.71153
13.582 139.6239	13.582 170.88724
13.583 139.74385	13.583 170.04153
13.584 139.31127	13.584 167.02306
13.585 138.63188	13.585 162.30874
13.586 137.89118	13.586 156.89841
13.587 137.01817	13.587 151.96772
13.588 135.76799	13.588 148.46415
13.589 133.96663	13.589 146.83542
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13.591 129.53009	13.591 148.40688
13.592 127.80338	13.592 150.49565
13.593 126.80383	13.593 152.75605
13.594 126.40176	13.594 154.97525
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13.597 126.73379	13.597 162.40471
13.598 128.29371	13.598 165.32299
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13.601 142.65191	13.601 171.88444
13.602 148.29423	13.602 172.5781
13.603 152.22367	13.603 172.49992
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13.606 150.56547	13.606 169.88334
13.607 147.65845	13.607 169.54591
13.608 144.92744	13.608 169.86191
13.609 142.6602	13.609 170.24902
13.61 140.76353	13.61 169.48879
13.611 139.05801	13.611 166.1909
13.612 137.59303	13.612 159.48993
13.613 136.77122	13.613 149.55662
13.614 137.1951	13.614 137.67141
13.615 139.29451	13.615 125.84848

13.616 143.04396	13.616 116.26776
13.617 147.93505	13.617 110.72617
13.618 153.16217	13.618 110.23884
13.619 157.90352	13.619 114.8145
13.62 161.43455	13.62 123.44191
13.621 163.13548	13.621 134.30679
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13.626 140.72638	13.626 157.41013
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13.628 132.39419	13.628 144.50679
13.629 131.03123	13.629 137.62601
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13.633 126.18743	13.633 132.14929
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13.639 118.58017	13.639 159.91814
13.64 121.21173	13.64 166.52729
13.641 123.07032	13.641 172.69311
13.642 123.48461	13.642 177.10287
13.643 122.49739	13.643 178.68156
13.644 120.67098	13.644 177.05777
13.645 118.66018	13.645 172.71852
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13.647 115.42956	13.647 161.00446
13.648 114.41538	13.648 156.54511
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13.653 120.32344	13.653 168.55666
13.654 123.34953	13.654 175.60826
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13.657 135.04104	13.657 194.64093
13.658 139.72645	13.658 198.01101
13.659 144.16996	13.659 199.3661
13.66 147.57783	13.66 198.75916
13.661 149.13897	13.661 196.29922
13.662 148.37383	13.662 192.10531
13.663 145.41204	13.663 186.40231
13.664 140.98092	13.664 179.63638
13.665 136.11657	13.665 172.43406
13.666 131.73563	13.666 165.4334

13.667 128.38471	13.667 159.13276
13.668 126.26345	13.668 153.90361
13.669 125.38883	13.669 150.09542
13.67 125.69986	13.67 148.06635
13.671 126.98861	13.671 148.03841
13.672 128.76399	13.672 149.91796
13.673 130.26326	13.673 153.23259
13.674 130.6914	13.674 157.30124
13.675 129.59889	13.675 161.52982
13.676 127.14536	13.676 165.61841
13.677 124.05624	13.677 169.57919
13.678 121.29634	13.678 173.57427
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13.682 124.25319	13.682 189.65
13.683 129.02283	13.683 192.99008
13.684 135.0443	13.684 195.8884
13.685 141.54599	13.685 198.17921
13.686 147.44256	13.686 199.53916
13.687 151.73239	13.687 199.63676
13.688 153.92878	13.688 198.37234
13.689 154.18557	13.689 195.99101
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13.698 136.81379	13.698 183.14068
13.699 137.86985	13.699 179.71976
13.7 138.45302	13.7 173.95293
13.701 137.92755	13.701 166.8151
13.702 136.23005	13.702 159.8062
13.703 133.8079	13.703 154.25255
13.704 131.30939	13.704 150.7989
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13.706 128.08371	13.706 149.38943
13.707 127.93482	13.707 150.45295
13.708 128.98889	13.708 152.30652
13.709 131.22732	13.709 154.87343
13.71 134.2902	13.71 157.95765
13.711 137.427	13.711 161.02585
13.712 139.75271	13.712 163.28957
13.713 140.70467	13.713 164.05618
13.714 140.434	13.714 163.16693
13.715 139.8432	13.715 161.25768
13.716 140.1602	13.716 159.66069
13.717 142.33006	13.717 159.99297

13.718	146.49956	13.718	163.59154
13.719	151.90953	13.719	170.99407
13.72	157.18377	13.72	181.64575
13.721	160.83826	13.721	193.95358
13.722	161.80779	13.722	205.67305
13.723	159.7711	13.723	214.57622
13.724	155.16507	13.724	219.15606
13.725	148.94974	13.725	219.07045
13.726	142.29595	13.726	215.06905
13.727	136.30988	13.727	208.48199
13.728	131.87079	13.728	200.53277
13.729	129.49743	13.729	191.97983
13.73	129.23469	13.73	183.17047
13.731	130.56724	13.731	174.38582
13.732	132.53718	13.732	166.13208
13.733	134.09579	13.733	159.12805
13.734	134.61026	13.734	154.09055
13.735	134.18033	13.735	151.4743
13.736	133.56652	13.736	151.38603
13.737	133.69241	13.737	153.63786
13.738	135.05245	13.738	157.8644
13.739	137.40044	13.739	163.61865
13.74	139.90495	13.74	170.44047
13.741	141.68714	13.741	177.90096
13.742	142.3608	13.742	185.55829
13.743	142.28047	13.743	192.85571
13.744	142.36023	13.744	199.0013
13.745	143.592	13.745	203.02706
13.746	146.52393	13.746	204.09861
13.747	150.90538	13.747	201.96465
13.748	155.69723	13.748	197.22229
13.749	159.46414	13.749	191.15249
13.75	160.98723	13.75	185.1631
13.751	159.76103	13.751	180.20607
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13.753	150.98402	13.753	173.76793
13.754	145.19131	13.754	171.65086
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13.756	133.43581	13.756	169.18311
13.757	127.89503	13.757	169.25495
13.758	123.13598	13.758	170.29089
13.759	119.85052	13.759	171.94486
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13.761	119.4369	13.761	174.232
13.762	121.87048	13.762	173.31682
13.763	125.09504	13.763	170.50142
13.764	128.4114	13.764	166.14352
13.765	131.51822	13.765	161.2367
13.766	134.53329	13.766	157.11213
13.767	137.77748	13.767	154.95724
13.768	141.488	13.768	155.38154

13.769 145.60763	13.769 158.23906
13.77 149.75506	13.77 162.77779
13.771 153.34241	13.771 168.01353
13.772 155.79662	13.772 173.12512
13.773 156.80479	13.773 177.68449
13.774 156.45601	13.774 181.64718
13.775 155.21632	13.775 185.15295
13.776 153.75273	13.776 188.26713
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13.778 152.21423	13.778 192.48859
13.779 152.3591	13.779 192.87919
13.78 152.71012	13.78 191.83855
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13.783 149.91522	13.783 182.68374
13.784 146.50308	13.784 178.98198
13.785 141.80311	13.785 175.27986
13.786 136.146	13.786 171.4779
13.787 129.96266	13.787 167.53471
13.788 123.65583	13.788 163.71074
13.789 117.56915	13.789 160.63505
13.79 112.08311	13.79 159.09673
13.791 107.70858	13.791 159.64753
13.792 105.06383	13.792 162.25716
13.793 104.65886	13.793 166.26907
13.794 106.65378	13.794 170.68872
13.795 110.73574	13.795 174.58879
13.796 116.2082	13.796 177.41888
13.797 122.22587	13.797 179.03022
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13.799 133.10418	13.799 178.90331
13.8 137.28264	13.8 177.33644
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13.803 145.4418	13.803 170.1599
13.804 147.16692	13.804 169.20034
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13.806 149.36951	13.806 172.05668
13.807 149.91705	13.807 174.95401
13.808 150.30784	13.808 177.51394
13.809 150.90678	13.809 178.67346
13.81 152.21645	13.81 177.70753
13.811 154.72637	13.811 174.50824
13.812 158.69392	13.812 169.69286
13.813 163.94466	13.813 164.47063
13.814 169.83561	13.814 160.21802
13.815 175.35035	13.815 157.99195
13.816 179.30072	13.816 158.22552
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13.823 133.01131	13.823 184.3487
13.824 127.50916	13.824 182.40051
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13.826 124.65433	13.826 171.49807
13.827 125.09885	13.827 164.26944
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13.829 125.39367	13.829 152.66805
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13.857 127.25773	13.857 158.18716
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13.859 125.84366	13.859 152.31401
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13.867 159.70016	13.867 193.52302
13.868 161.22882	13.868 192.39675
13.869 162.29316	13.869 189.39894
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13.874 155.17766	13.874 167.43842
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13.876 140.81292	13.876 155.79439
13.877 133.10856	13.877 150.32775
13.878 126.47903	13.878 146.13218
13.879 121.55219	13.879 144.03206
13.88 118.43102	13.88 144.76035
13.881 116.86275	13.881 148.76154
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13.883 117.17128	13.883 165.35226
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13.885 121.38445	13.885 185.22831
13.886 124.55876	13.886 193.08898
13.887 127.78985	13.887 198.94849
13.888 130.54202	13.888 203.19172
13.889 132.65867	13.889 206.47276
13.89 134.55892	13.89 209.33267
13.891 137.06084	13.891 212.0415
13.892 140.87776	13.892 214.57051
13.893 146.1222	13.893 216.63828
13.894 152.09248	13.894 217.76761
13.895 157.51018	13.895 217.44296
13.896 161.05833	13.896 215.37472
13.897 161.94152	13.897 211.74342
13.898 160.21005	13.898 207.20914
13.899 156.70422	13.899 202.54839
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13.901 149.31812	13.901 193.98214
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13.903 147.11671	13.903 183.47922
13.904 148.30409	13.904 176.47687
13.905 150.5061	13.905 168.77138
13.906 153.16689	13.906 161.29565
13.907 155.69247	13.907 155.04131
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13.909 157.86339	13.909 148.64934
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13.911 153.33117	13.911 150.46212
13.912 148.64193	13.912 153.69458
13.913 143.18533	13.913 158.17362
13.914 137.9584	13.914 163.81059
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13.916 132.11494	13.916 177.95358
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13.921 139.43942	13.921 205.78965

13.922 135.79589	13.922 205.29261
13.923 129.29275	13.923 202.26582
13.924 121.26746	13.924 197.08884
13.925 113.56152	13.925 190.50538
13.926 107.8253	13.926 183.64325
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14.386 71.087826	14.386 237.53928
14.387 73.17738	14.387 239.68256
14.388 73.53605	14.388 243.14694
14.389 72.509203	14.389 247.85838
14.39 70.888483	14.39 253.33376
14.391 69.491602	14.391 258.80962
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14.394 67.842944	14.394 267.36039
14.395 66.679753	14.395 265.49565
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14.397 62.861947	14.397 252.78025
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14.407 63.903467	14.407 221.93844
14.408 58.51925	14.408 227.21373
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14.416 6.8414322	14.416 243.76257
14.417 3.8178085	14.417 246.44387
14.418 1.6544835	14.418 246.13296
14.419 0.1068097	14.419 241.37878
14.42 -1.154701	14.42 232.25788
14.421 -2.407045	14.421 220.64144
14.422 -3.682787	14.422 209.59115
14.423 -4.675566	14.423 202.21897
14.424 -4.867143	14.424 200.60891
14.425 -3.814098	14.425 205.22978
14.426 -1.431712	14.426 215.02379
14.427 1.9614507	14.427 227.90913
14.428 5.8099825	14.428 241.42412
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14.431 16.754728	14.431 265.33158

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14.433	25.504745	14.433	259.08611
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14.436	42.791693	14.436	233.45646
14.437	46.229935	14.437	226.34237
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14.439	43.238804	14.439	216.5625
14.44	36.774899	14.44	212.54994
14.441	28.314226	14.441	208.11162
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14.447	2.5076087	14.447	159.84858
14.448	4.6385512	14.448	147.7149
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14.45	12.963589	14.45	124.46616
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14.455	55.607796	14.455	89.832503
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14.457	58.61132	14.457	83.956231
14.458	54.512291	14.458	84.24886
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14.491	44.203569	14.491	58.601852
14.492	40.870897	14.492	54.456868
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15.235	11.331676	15.235	47.767765
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16.079	38.929075	16.079	32.306228
16.08	42.692333	16.08	28.02278
16.081	45.990426	16.081	24.912619
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16.085	44.368844	16.085	32.746354
16.086	38.744806	16.086	36.021181
16.087	31.761269	16.087	38.910025
16.088	24.238244	16.088	41.917701
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16.103	25.344211	16.103	41.325378
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1.72 3.3333333	1.73 8.3333333	1.72 12.666667	1.72 17
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1.78 2.6666667	1.79 8.6666667	1.78 13	1.78 16.666667
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3.81	3.6666667	3.82	7	3.81	12.666667	3.81	16.333333
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3.85	4	3.86	6.6666667	3.85	11.333333	3.85	15.333333
3.86	3.3333333	3.87	7	3.86	11.333333	3.86	16.666667
3.87	3.6666667	3.88	7.3333333	3.87	11.666667	3.87	16.666667
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3.99	3	4	8	3.99	10.666667	3.99	17
4	2.3333333	4.01	8	4	11.666667	4	17
4.01	3	4.02	8	4.01	9.6666667	4.01	16.666667
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4.18 3		4.19 7.6666667		4.18 9.6666667	4.18 17.333333
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15.21	0
15.22	0.3333333
15.23	0
15.24	0
15.25	0
15.26	0
15.27	0
15.28	0

15.29	0.33333333
15.3	0
15.31	0
15.32	0
15.33	0
15.34	0
15.35	0
15.36	0
15.37	0
15.38	0
15.39	0
15.4	0
15.41	0.33333333
15.42	0
15.43	0
15.44	0
15.45	0
15.46	0
15.47	0.33333333

ion(nm) cnds num		ion(nm) cnds num		ion(nm) cnds num		ber of F553
0	20	0	24	0	25	
0.01	19.666667	0.01	23	0.01	31	
0.02	20.666667	0.02	26	0.02	30	
0.03	20.666667	0.03	25	0.03	28	
0.04	20.666667	0.04	24.333333	0.04	28.666667	
0.05	21	0.05	26	0.05	29.666667	
0.06	18.666667	0.06	24	0.06	31	
0.07	20	0.07	23.666667	0.07	28	
0.08	19.333333	0.08	24.666667	0.08	28.333333	
0.09	20	0.09	26	0.09	30	
0.1	20.666667	0.1	25.666667	0.1	29.333333	
0.11	20	0.11	25	0.11	29.333333	
0.12	20	0.12	25.333333	0.12	29.333333	
0.13	20.333333	0.13	26.333333	0.13	30	
0.14	21.333333	0.14	25.333333	0.14	29.333333	
0.15	20.333333	0.15	26	0.15	29.666667	
0.16	21	0.16	26	0.16	29.333333	
0.17	20	0.17	26	0.17	29.666667	
0.18	20.666667	0.18	25.333333	0.18	28.666667	
0.19	20	0.19	25	0.19	31	
0.2	20.666667	0.2	26	0.2	29.666667	
0.21	21	0.21	26.666667	0.21	29.666667	
0.22	20	0.22	26	0.22	30	
0.23	20.666667	0.23	25.333333	0.23	29.333333	
0.24	20.666667	0.24	25.666667	0.24	29.666667	
0.25	20.333333	0.25	24.666667	0.25	28.666667	
0.26	21.333333	0.26	25.333333	0.26	30.333333	
0.27	21	0.27	25.333333	0.27	31.333333	
0.28	19.666667	0.28	26	0.28	29.666667	
0.29	20.333333	0.29	24.333333	0.29	27.666667	
0.3	19.666667	0.3	24.666667	0.3	29.333333	
0.31	20.666667	0.31	25	0.31	28	
0.32	19.333333	0.32	25	0.32	27	
0.33	19.666667	0.33	25.666667	0.33	28.666667	
0.34	20	0.34	25.333333	0.34	30	
0.35	20.333333	0.35	24	0.35	29.333333	
0.36	20.333333	0.36	25.666667	0.36	29.666667	
0.37	21	0.37	26.333333	0.37	30.333333	
0.38	21	0.38	26	0.38	30.666667	
0.39	21	0.39	25.333333	0.39	29.333333	
0.4	20.666667	0.4	25.333333	0.4	29.333333	
0.41	20.666667	0.41	25.666667	0.41	28	
0.42	19.666667	0.42	24.333333	0.42	29.666667	
0.43	20.333333	0.43	26	0.43	28	
0.44	21	0.44	25.333333	0.44	30	
0.45	20.666667	0.45	25	0.45	30.666667	
0.46	20	0.46	24.333333	0.46	29.666667	
0.47	20.333333	0.47	24	0.47	30	
0.48	19	0.48	25.666667	0.48	30.666667	
0.49	21.666667	0.49	25.333333	0.49	29.333333	

0.5	19	0.5	26	0.5	27.666667
0.51	21	0.51	26	0.51	30.333333
0.52	18.666667	0.52	26	0.52	28.333333
0.53	20	0.53	25.666667	0.53	29.666667
0.54	20.333333	0.54	26	0.54	31.333333
0.55	20.666667	0.55	25	0.55	30.666667
0.56	21	0.56	24.333333	0.56	29.333333
0.57	19.333333	0.57	26.333333	0.57	31
0.58	20.333333	0.58	27	0.58	28.666667
0.59	21.333333	0.59	26	0.59	30
0.6	20.666667	0.6	26.666667	0.6	29.666667
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0.62	20.333333	0.62	27	0.62	29
0.63	20.666667	0.63	26.666667	0.63	30
0.64	21	0.64	25.333333	0.64	30.666667
0.65	20.666667	0.65	25.666667	0.65	29.333333
0.66	19.666667	0.66	25.666667	0.66	29.333333
0.67	21.666667	0.67	27	0.67	29.333333
0.68	20	0.68	26.666667	0.68	28.666667
0.69	21	0.69	26	0.69	30
0.7	21	0.7	27	0.7	30.333333
0.71	21	0.71	26	0.71	30.333333
0.72	20	0.72	26	0.72	29.666667
0.73	20.333333	0.73	26.333333	0.73	28.666667
0.74	21.333333	0.74	27.333333	0.74	29
0.75	20.333333	0.75	26	0.75	30.333333
0.76	21.666667	0.76	25.333333	0.76	31
0.77	21	0.77	25.666667	0.77	29.333333
0.78	21	0.78	25	0.78	30
0.79	21	0.79	25.333333	0.79	28.666667
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0.84	21.666667	0.84	26.333333	0.84	29
0.85	21.666667	0.85	25.333333	0.85	30
0.86	20.333333	0.86	26	0.86	29.333333
0.87	20.666667	0.87	26.333333	0.87	30.333333
0.88	20	0.88	24.333333	0.88	30
0.89	20.333333	0.89	24.666667	0.89	31
0.9	20.666667	0.9	27.333333	0.9	28.333333
0.91	22	0.91	26	0.91	29.333333
0.92	21.333333	0.92	24.333333	0.92	30
0.93	20.666667	0.93	26	0.93	29.666667
0.94	19.333333	0.94	25.666667	0.94	31.333333
0.95	20.666667	0.95	26.333333	0.95	29.666667
0.96	19.666667	0.96	25.333333	0.96	29.666667
0.97	20	0.97	27	0.97	29.333333
0.98	20.333333	0.98	26	0.98	28.666667
0.99	19.666667	0.99	25.333333	0.99	29.666667
1	20.666667	1	26.666667	1	30

1.01 21.333333	1.01 25.333333	1.01 31
1.02 20	1.02 25.666667	1.02 30.333333
1.03 20.333333	1.03 26	1.03 30.666667
1.04 19.666667	1.04 26.333333	1.04 28.666667
1.05 19.333333	1.05 24.666667	1.05 31
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1.13 20.333333	1.13 26	1.13 29.666667
1.14 20.333333	1.14 25.666667	1.14 30.666667
1.15 19	1.15 23.666667	1.15 30
1.16 20	1.16 25	1.16 29.666667
1.17 20.666667	1.17 26.666667	1.17 30.333333
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1.21 20.333333	1.21 25.666667	1.21 30.333333
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1.24 19.333333	1.24 24	1.24 30
1.25 19.666667	1.25 24.666667	1.25 29.333333
1.26 20.333333	1.26 26.666667	1.26 30
1.27 20.666667	1.27 26.666667	1.27 31
1.28 19.333333	1.28 28	1.28 29.666667
1.29 19.666667	1.29 24.333333	1.29 28.333333
1.3 19.666667	1.3 25	1.3 29
1.31 20	1.31 25	1.31 29.666667
1.32 19.666667	1.32 24.666667	1.32 29.333333
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1.4 20	1.4 26	1.4 30.333333
1.41 20	1.41 25.333333	1.41 28.333333
1.42 20	1.42 25	1.42 29
1.43 20	1.43 25	1.43 29
1.44 19	1.44 25	1.44 29.666667
1.45 18.666667	1.45 26	1.45 30.666667
1.46 20	1.46 27.333333	1.46 29.333333
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1.48 20.666667	1.48 26.666667	1.48 30
1.49 20	1.49 25.666667	1.49 28.666667
1.5 18.666667	1.5 26.333333	1.5 28.666667
1.51 19	1.51 25.666667	1.51 31

1.52	19	1.52 25.666667	1.52 28.666667
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1.54	17.666667	1.54 25	1.54 30.333333
1.55	20	1.55 25	1.55 29.333333
1.56	18.666667	1.56 24.666667	1.56 29
1.57	20	1.57 25.333333	1.57 30
1.58	19	1.58 26	1.58 31
1.59	19.333333	1.59 25.333333	1.59 28.666667
1.6	19.666667	1.6 25.666667	1.6 30
1.61	18.333333	1.61 25.666667	1.61 29.666667
1.62	18.666667	1.62 25	1.62 29.666667
1.63	19	1.63 25	1.63 28
1.64	18.333333	1.64 26.666667	1.64 29
1.65	18	1.65 26	1.65 29.333333
1.66	20	1.66 26.666667	1.66 29
1.67	20.333333	1.67 25.666667	1.67 28.666667
1.68	19.333333	1.68 27	1.68 30.666667
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1.71	19.333333	1.71 27	1.71 29
1.72	20.666667	1.72 27.333333	1.72 28.333333
1.73	20.333333	1.73 25.333333	1.73 31
1.74	19.666667	1.74 25	1.74 29
1.75	19	1.75 26	1.75 30.333333
1.76	20.333333	1.76 25	1.76 30.333333
1.77	19.333333	1.77 26.666667	1.77 30
1.78	20	1.78 26	1.78 28.333333
1.79	19.666667	1.79 25	1.79 29.333333
1.8	20.666667	1.8 25.333333	1.8 28.666667
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1.86	20	1.86 25.333333	1.86 29
1.87	20.333333	1.87 25	1.87 30
1.88	19.333333	1.88 25.333333	1.88 31
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1.93	17.666667	1.93 26	1.93 30.333333
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1.98	18.666667	1.98 26	1.98 30.666667
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2	21	2 25.333333	2 30
2.01	19.666667	2.01 25.333333	2.01 29.333333
2.02	19.666667	2.02 25.333333	2.02 30.666667

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2.06 19.333333	2.06 25.666667	2.06 30.333333
2.07 19	2.07 26.666667	2.07 29.666667
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2.13 18.666667	2.13 26	2.13 28.666667
2.14 19.333333	2.14 25.666667	2.14 30.666667
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2.21 18.666667	2.21 24.333333	2.21 29.666667
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2.25 19.666667	2.25 26.333333	2.25 31
2.26 19.333333	2.26 27.666667	2.26 30.333333
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2.31 19.333333	2.31 26	2.31 29.666667
2.32 20	2.32 26.666667	2.32 31
2.33 20.333333	2.33 26.666667	2.33 30
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2.53 21	2.53 26	2.53 30

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2.59	19.666667	2.59 25.666667	2.59 30
2.6	20	2.6 26	2.6 30.666667
2.61	20.333333	2.61 26	2.61 28.333333
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2.99	19	2.99 27	2.99 29.333333
3	19.333333	3 26	3 29.333333
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3.02	19	3.02 26.666667	3.02 29.666667
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3.04	20	3.04 25	3.04 30

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3.06 19.333333	3.06 26.666667	3.06 30.333333
3.07 19.333333	3.07 24.333333	3.07 29.666667
3.08 19.333333	3.08 26	3.08 29
3.09 19.666667	3.09 26.666667	3.09 30
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3.13 19.333333	3.13 27	3.13 28
3.14 19.666667	3.14 27.666667	3.14 30
3.15 19	3.15 24.666667	3.15 29.666667
3.16 20	3.16 25	3.16 28.666667
3.17 19	3.17 25.666667	3.17 29.333333
3.18 19.666667	3.18 26.333333	3.18 30
3.19 19.666667	3.19 25	3.19 30.333333
3.2 20.333333	3.2 25.333333	3.2 30
3.21 20	3.21 25	3.21 30.333333
3.22 20	3.22 24.333333	3.22 29
3.23 18.666667	3.23 25.666667	3.23 30.333333
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3.25 18	3.25 26.333333	3.25 29
3.26 19.333333	3.26 24.666667	3.26 30.666667
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3.32 20	3.32 23	3.32 29.666667
3.33 20.666667	3.33 24.666667	3.33 28
3.34 20.666667	3.34 26	3.34 29
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3.36 19	3.36 23.666667	3.36 29
3.37 18	3.37 24.666667	3.37 30.666667
3.38 19	3.38 23.666667	3.38 29.333333
3.39 19.333333	3.39 25.666667	3.39 28
3.4 19.666667	3.4 25	3.4 29
3.41 20.333333	3.41 25.333333	3.41 26.666667
3.42 18.666667	3.42 25	3.42 28
3.43 20.666667	3.43 24	3.43 30
3.44 20	3.44 24	3.44 30.333333
3.45 20	3.45 23.666667	3.45 28.333333
3.46 19.333333	3.46 25	3.46 27.333333
3.47 20.333333	3.47 23.666667	3.47 30.333333
3.48 19.333333	3.48 24	3.48 29
3.49 20	3.49 25	3.49 28.666667
3.5 20.666667	3.5 24.333333	3.5 28.666667
3.51 19.333333	3.51 26.333333	3.51 29
3.52 19.333333	3.52 25.666667	3.52 29.666667
3.53 19.333333	3.53 25	3.53 28
3.54 19.666667	3.54 26	3.54 28.666667
3.55 20.666667	3.55 25.333333	3.55 29

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3.6	19.666667	3.6 25	3.6 30
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3.63	20	3.63 22.333333	3.63 30.666667
3.64	19.333333	3.64 26.666667	3.64 29.666667
3.65	19	3.65 25.666667	3.65 31
3.66	19	3.66 25	3.66 30.333333
3.67	19.666667	3.67 26	3.67 30.333333
3.68	20.666667	3.68 25	3.68 29
3.69	20.333333	3.69 24.666667	3.69 30
3.7	20.333333	3.7 25	3.7 29.333333
3.71	20.666667	3.71 24	3.71 29.333333
3.72	20	3.72 24	3.72 30.333333
3.73	19	3.73 26	3.73 30.666667
3.74	20.333333	3.74 25.333333	3.74 29.333333
3.75	20.333333	3.75 24	3.75 30.333333
3.76	20	3.76 24.333333	3.76 30.666667
3.77	21	3.77 25	3.77 31
3.78	20.666667	3.78 25.666667	3.78 29.333333
3.79	19	3.79 26.333333	3.79 29
3.8	19.666667	3.8 26.333333	3.8 29.666667
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3.82	19.333333	3.82 26.333333	3.82 28.333333
3.83	20	3.83 26.666667	3.83 29.333333
3.84	20.333333	3.84 25	3.84 27.333333
3.85	19.666667	3.85 25	3.85 29.666667
3.86	20	3.86 26	3.86 29.333333
3.87	20	3.87 26.666667	3.87 28.666667
3.88	18.333333	3.88 26	3.88 31
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3.9	20.333333	3.9 25.666667	3.9 30.333333
3.91	19.333333	3.91 25	3.91 30.333333
3.92	19.333333	3.92 26.333333	3.92 30
3.93	19.333333	3.93 26	3.93 30.666667
3.94	19	3.94 25	3.94 29.666667
3.95	20.333333	3.95 25	3.95 30.666667
3.96	20	3.96 25.333333	3.96 29.666667
3.97	19.666667	3.97 24.666667	3.97 28
3.98	20	3.98 26.333333	3.98 28.666667
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4	18.333333	4 25	4 26.666667
4.01	20	4.01 25	4.01 29.333333
4.02	18.666667	4.02 25	4.02 30
4.03	19.333333	4.03 24.333333	4.03 30.333333
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4.05	20.333333	4.05 23.666667	4.05 29
4.06	18.666667	4.06 25.333333	4.06 28.666667

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4.08 19.666667	4.08 25.333333	4.08 29.333333
4.09 20.666667	4.09 26.666667	4.09 30
4.1 20.333333	4.1 27.333333	4.1 30
4.11 20.333333	4.11 26	4.11 29.333333
4.12 20.666667	4.12 25.666667	4.12 30.666667
4.13 19.666667	4.13 24.333333	4.13 28
4.14 20	4.14 27.666667	4.14 30
4.15 21	4.15 25.666667	4.15 29.666667
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4.18 20.666667	4.18 26	4.18 29.333333
4.19 20.333333	4.19 27	4.19 29.333333
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4.21 18.666667	4.21 25.666667	4.21 29.666667
4.22 19.333333	4.22 27.333333	4.22 29
4.23 20.333333	4.23 26	4.23 29.666667
4.24 19.666667	4.24 27	4.24 29
4.25 19.333333	4.25 25.666667	4.25 28
4.26 19	4.26 26	4.26 29.333333
4.27 20.666667	4.27 26	4.27 31
4.28 19.333333	4.28 25.333333	4.28 30
4.29 19.666667	4.29 26.666667	4.29 29.666667
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4.31 19.333333	4.31 27	4.31 29.666667
4.32 19.666667	4.32 26	4.32 27.666667
4.33 19.333333	4.33 25.666667	4.33 29.333333
4.34 19.666667	4.34 26.333333	4.34 29.666667
4.35 20.333333	4.35 24.666667	4.35 29
4.36 20	4.36 24.666667	4.36 31.666667
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4.39 19.666667	4.39 25	4.39 29
4.4 19	4.4 26.333333	4.4 29.333333
4.41 18.333333	4.41 26.333333	4.41 30.666667
4.42 19	4.42 26.333333	4.42 30.666667
4.43 19	4.43 26	4.43 29
4.44 18.666667	4.44 26.333333	4.44 30.666667
4.45 20.666667	4.45 26.333333	4.45 30.333333
4.46 18.666667	4.46 25	4.46 28.333333
4.47 19.666667	4.47 24.666667	4.47 27.666667
4.48 20.666667	4.48 26	4.48 29.666667
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4.5 18.333333	4.5 24	4.5 28.333333
4.51 19.333333	4.51 26	4.51 29
4.52 19	4.52 26.666667	4.52 30.333333
4.53 20.333333	4.53 26	4.53 28
4.54 18.666667	4.54 26.666667	4.54 30.333333
4.55 19.333333	4.55 26	4.55 29.333333
4.56 18	4.56 27.333333	4.56 28
4.57 19.666667	4.57 26	4.57 29

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4.59 19.666667	4.59 26	4.59 29
4.6 19.666667	4.6 27.333333	4.6 30.666667
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4.62 19.333333	4.62 26	4.62 28.333333
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4.66 18.333333	4.66 25.333333	4.66 29
4.67 19	4.67 26.666667	4.67 28.333333
4.68 19.333333	4.68 25	4.68 30
4.69 19.666667	4.69 25.666667	4.69 29.666667
4.7 19.666667	4.7 26	4.7 29.666667
4.71 19.333333	4.71 25	4.71 30.666667
4.72 19.666667	4.72 26	4.72 30
4.73 19	4.73 22.666667	4.73 29
4.74 19.666667	4.74 25.333333	4.74 30
4.75 20	4.75 24.666667	4.75 30.333333
4.76 19.333333	4.76 25	4.76 30.333333
4.77 19.666667	4.77 24.666667	4.77 30.666667
4.78 19.666667	4.78 27.666667	4.78 30.333333
4.79 19	4.79 24.666667	4.79 30.666667
4.8 20	4.8 26.333333	4.8 28
4.81 20	4.81 24.666667	4.81 30
4.82 19.333333	4.82 25.333333	4.82 30.666667
4.83 19.333333	4.83 24	4.83 30.666667
4.84 19.666667	4.84 25	4.84 28.666667
4.85 19.666667	4.85 24.333333	4.85 28.666667
4.86 18.666667	4.86 24.666667	4.86 29.666667
4.87 19.333333	4.87 25.666667	4.87 30.666667
4.88 18.666667	4.88 24.666667	4.88 29.333333
4.89 19.666667	4.89 26.333333	4.89 29.333333
4.9 19	4.9 24.666667	4.9 31.333333
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4.92 21	4.92 25	4.92 29.666667
4.93 20.333333	4.93 25.666667	4.93 29
4.94 20	4.94 25	4.94 28
4.95 19.666667	4.95 24	4.95 28.666667
4.96 20.666667	4.96 26.333333	4.96 30.666667
4.97 20.333333	4.97 25.333333	4.97 30
4.98 20.333333	4.98 26.666667	4.98 29.666667
4.99 20	4.99 24.666667	4.99 28.333333
5 20	5 24.666667	5 29.333333
5.01 20.666667	5.01 25.666667	5.01 30.333333
5.02 20.333333	5.02 23.666667	5.02 29.333333
5.03 20	5.03 27	5.03 28.333333
5.04 20	5.04 25.333333	5.04 29.666667
5.05 20.333333	5.05 24.333333	5.05 30.333333
5.06 19	5.06 26	5.06 30.333333
5.07 19.666667	5.07 24.666667	5.07 30.333333
5.08 17.333333	5.08 26.333333	5.08 29.333333

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5.1 20.333333	5.1 24.666667	5.1 28.333333
5.11 20.333333	5.11 26	5.11 29.666667
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5.13 21	5.13 24.666667	5.13 29
5.14 20	5.14 23	5.14 29
5.15 20.333333	5.15 26.666667	5.15 29
5.16 20.333333	5.16 22.333333	5.16 30
5.17 19.333333	5.17 26.333333	5.17 28.666667
5.18 19.666667	5.18 23.666667	5.18 29
5.19 20.333333	5.19 24.666667	5.19 29.333333
5.2 21	5.2 26	5.2 29.666667
5.21 20	5.21 25.333333	5.21 28.666667
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5.23 21	5.23 23.666667	5.23 29.333333
5.24 19.333333	5.24 25	5.24 29.666667
5.25 20	5.25 24.666667	5.25 28.333333
5.26 20.666667	5.26 24.333333	5.26 29.666667
5.27 20	5.27 25.666667	5.27 29
5.28 21	5.28 25.333333	5.28 31
5.29 19.666667	5.29 26.333333	5.29 29.333333
5.3 20.666667	5.3 24.333333	5.3 30
5.31 21	5.31 25.333333	5.31 30.333333
5.32 20	5.32 24.333333	5.32 28
5.33 19.333333	5.33 24.666667	5.33 31
5.34 20.333333	5.34 25.666667	5.34 30
5.35 20	5.35 26	5.35 29.666667
5.36 20	5.36 26	5.36 30.666667
5.37 19	5.37 26	5.37 29.333333
5.38 19.666667	5.38 25.333333	5.38 30.333333
5.39 20	5.39 24.666667	5.39 29
5.4 19.333333	5.4 25.666667	5.4 29.333333
5.41 19.333333	5.41 25.333333	5.41 29.333333
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5.43 19.666667	5.43 26.666667	5.43 29
5.44 20.666667	5.44 25	5.44 29
5.45 21	5.45 27	5.45 28.666667
5.46 19.666667	5.46 24.666667	5.46 30
5.47 19.666667	5.47 24.333333	5.47 29
5.48 19.666667	5.48 25	5.48 29.333333
5.49 19.666667	5.49 24.333333	5.49 29.333333
5.5 20	5.5 25	5.5 29
5.51 20.333333	5.51 25	5.51 27.666667
5.52 19.333333	5.52 24.666667	5.52 29.666667
5.53 19.333333	5.53 24	5.53 29.333333
5.54 19	5.54 24	5.54 28.666667
5.55 20	5.55 24	5.55 29.666667
5.56 19	5.56 24.333333	5.56 29.666667
5.57 20	5.57 24.666667	5.57 28.333333
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5.59 19.666667	5.59 24	5.59 27.666667

5.6 20.333333	5.6 25.666667	5.6 29
5.61 20.333333	5.61 25	5.61 29.666667
5.62 18.666667	5.62 24.333333	5.62 29.666667
5.63 20.333333	5.63 26.333333	5.63 30
5.64 20.333333	5.64 24.666667	5.64 26.666667
5.65 18.666667	5.65 25.666667	5.65 29.666667
5.66 21	5.66 25.333333	5.66 28
5.67 20	5.67 25	5.67 28.333333
5.68 20.666667	5.68 26.666667	5.68 28.333333
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5.72 20.333333	5.72 24.666667	5.72 28.666667
5.73 19.333333	5.73 25.333333	5.73 27.333333
5.74 20.333333	5.74 24.333333	5.74 28.333333
5.75 18.333333	5.75 24.666667	5.75 29.666667
5.76 20.666667	5.76 24	5.76 29.333333
5.77 19.666667	5.77 24	5.77 28
5.78 18.666667	5.78 27	5.78 28.333333
5.79 19.333333	5.79 24.666667	5.79 28
5.8 19.666667	5.8 25.666667	5.8 27
5.81 18	5.81 25.333333	5.81 29.333333
5.82 17.666667	5.82 24.333333	5.82 30
5.83 20	5.83 25	5.83 29.666667
5.84 20	5.84 23	5.84 28
5.85 18.666667	5.85 22.666667	5.85 28.666667
5.86 18.666667	5.86 24.666667	5.86 29.333333
5.87 19.666667	5.87 25.333333	5.87 27
5.88 19	5.88 24.666667	5.88 27.333333
5.89 20	5.89 25.666667	5.89 29
5.9 17.666667	5.9 23.333333	5.9 29.333333
5.91 19.666667	5.91 24.666667	5.91 28.333333
5.92 20	5.92 24	5.92 29.666667
5.93 19	5.93 24	5.93 27.666667
5.94 18.666667	5.94 23.666667	5.94 27.666667
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5.96 20	5.96 24.333333	5.96 28
5.97 19	5.97 23.333333	5.97 27
5.98 20	5.98 24	5.98 27.666667
5.99 18.666667	5.99 24	5.99 29
6 19.333333	6 24.666667	6 28.666667
6.01 19.666667	6.01 25.666667	6.01 27.666667
6.02 19	6.02 23.333333	6.02 27.333333
6.03 19.666667	6.03 26	6.03 25.666667
6.04 18.666667	6.04 23	6.04 26
6.05 19.333333	6.05 22.333333	6.05 27
6.06 17.666667	6.06 23.333333	6.06 28.666667
6.07 19.333333	6.07 24.666667	6.07 26.333333
6.08 19.333333	6.08 24.333333	6.08 28.333333
6.09 19	6.09 24	6.09 26.333333
6.1 20	6.1 24	6.1 26.666667

6.11 19.666667	6.11 25.333333	6.11 27
6.12 19	6.12 25.666667	6.12 29
6.13 21	6.13 22.333333	6.13 28.333333
6.14 19.333333	6.14 22.666667	6.14 27
6.15 19	6.15 24.333333	6.15 28
6.16 18	6.16 23.333333	6.16 26.333333
6.17 19.333333	6.17 25	6.17 25.666667
6.18 19.333333	6.18 24	6.18 28.666667
6.19 19	6.19 24.666667	6.19 27
6.2 19	6.2 23.333333	6.2 27.333333
6.21 17.666667	6.21 22	6.21 27.333333
6.22 18	6.22 22	6.22 28.666667
6.23 20.333333	6.23 22.666667	6.23 26.333333
6.24 19.333333	6.24 22.333333	6.24 28.666667
6.25 19.333333	6.25 22.333333	6.25 26.666667
6.26 19.666667	6.26 23	6.26 27.666667
6.27 19	6.27 22.666667	6.27 27.333333
6.28 19.333333	6.28 22.333333	6.28 27.333333
6.29 19	6.29 22.666667	6.29 26.333333
6.3 19.333333	6.3 24.666667	6.3 28.666667
6.31 18.333333	6.31 23	6.31 26.666667
6.32 17	6.32 23	6.32 26.666667
6.33 21.666667	6.33 22.666667	6.33 25.666667
6.34 21	6.34 23.666667	6.34 27.333333
6.35 20	6.35 23.666667	6.35 27.666667
6.36 21	6.36 23	6.36 27.666667
6.37 19.333333	6.37 22.333333	6.37 27.333333
6.38 20	6.38 21.666667	6.38 26.333333
6.39 19	6.39 23	6.39 25
6.4 19.333333	6.4 22.333333	6.4 25.333333
6.41 19	6.41 23.333333	6.41 22.666667
6.42 19.333333	6.42 22.333333	6.42 26
6.43 20.666667	6.43 22.666667	6.43 25.666667
6.44 19.333333	6.44 24	6.44 26.333333
6.45 17.666667	6.45 23.333333	6.45 26.666667
6.46 20	6.46 20.666667	6.46 27
6.47 20.333333	6.47 25	6.47 28
6.48 18.666667	6.48 20.666667	6.48 25.666667
6.49 18.333333	6.49 23.666667	6.49 26.666667
6.5 17.333333	6.5 23.666667	6.5 25.333333
6.51 18	6.51 23	6.51 23.666667
6.52 19	6.52 24.333333	6.52 24
6.53 20	6.53 23.333333	6.53 26.333333
6.54 19.333333	6.54 23.666667	6.54 23.666667
6.55 19.666667	6.55 23.666667	6.55 23
6.56 18.333333	6.56 22	6.56 24.333333
6.57 19.333333	6.57 22.333333	6.57 28
6.58 18.666667	6.58 23.666667	6.58 26.333333
6.59 18.333333	6.59 23.333333	6.59 25.666667
6.6 18.333333	6.6 22	6.6 25.333333
6.61 20.333333	6.61 22.333333	6.61 26.666667

6.62	19.666667	6.62	23.666667	6.62	26.333333
6.63	20	6.63	22.666667	6.63	27
6.64	18.666667	6.64	23.333333	6.64	25.333333
6.65	19.333333	6.65	22	6.65	25
6.66	19.333333	6.66	23.333333	6.66	26.333333
6.67	18	6.67	23.333333	6.67	26.333333
6.68	18.333333	6.68	20.666667	6.68	24
6.69	16.666667	6.69	24.333333	6.69	26.666667
6.7	19	6.7	23.333333	6.7	25.333333
6.71	19	6.71	23.333333	6.71	24.666667
6.72	18.333333	6.72	23.333333	6.72	26.333333
6.73	18.666667	6.73	23.666667	6.73	24
6.74	18.333333	6.74	22.333333	6.74	25.666667
6.75	18	6.75	21	6.75	25.333333
6.76	17.333333	6.76	22.333333	6.76	25
6.77	19	6.77	21.333333	6.77	25.666667
6.78	18.333333	6.78	22.333333	6.78	25.666667
6.79	18.666667	6.79	21.666667	6.79	25
6.8	18.333333	6.8	21	6.8	24.666667
6.81	18	6.81	21.333333	6.81	26.333333
6.82	18.666667	6.82	21.333333	6.82	22.333333
6.83	18	6.83	20.666667	6.83	26.666667
6.84	20	6.84	23	6.84	24.666667
6.85	20	6.85	21.666667	6.85	24
6.86	19.333333	6.86	20.666667	6.86	23
6.87	19	6.87	20.666667	6.87	26.333333
6.88	18.333333	6.88	24	6.88	24
6.89	19	6.89	20.333333	6.89	27
6.9	18	6.9	21.666667	6.9	26.333333
6.91	18.333333	6.91	19.333333	6.91	23
6.92	18.333333	6.92	19.666667	6.92	24.333333
6.93	18.666667	6.93	20.666667	6.93	22.333333
6.94	18	6.94	20.666667	6.94	25
6.95	18.333333	6.95	20.666667	6.95	21.666667
6.96	17.333333	6.96	20	6.96	21.666667
6.97	18.333333	6.97	21.666667	6.97	25.666667
6.98	16.333333	6.98	23.666667	6.98	25
6.99	18.333333	6.99	20	6.99	24.333333
7	16.333333	7	22	7	25
7.01	17	7.01	21.333333	7.01	22.666667
7.02	17.666667	7.02	22.333333	7.02	21.333333
7.03	18.666667	7.03	23.666667	7.03	23.666667
7.04	17.333333	7.04	19.666667	7.04	21
7.05	17.333333	7.05	18.666667	7.05	22.333333
7.06	18.333333	7.06	20.666667	7.06	24.333333
7.07	18	7.07	20.666667	7.07	21.666667
7.08	16.333333	7.08	20.666667	7.08	24.333333
7.09	16	7.09	22	7.09	23.333333
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7.11	17.333333	7.11	21	7.11	21
7.12	18.666667	7.12	20.333333	7.12	23

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7.14 18	7.14 21	7.14 23.333333
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7.18 19	7.18 20.666667	7.18 23.333333
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7.23 17.666667	7.23 21	7.23 23
7.24 17	7.24 20.333333	7.24 23.333333
7.25 17	7.25 19.666667	7.25 26
7.26 17.666667	7.26 20	7.26 22
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7.28 17.333333	7.28 17.333333	7.28 21.666667
7.29 17	7.29 19	7.29 25.333333
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7.31 16.333333	7.31 19.666667	7.31 22
7.32 17	7.32 20.333333	7.32 22
7.33 17.333333	7.33 19	7.33 19.666667
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7.35 16.666667	7.35 19	7.35 21.666667
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7.37 17.333333	7.37 18	7.37 20.666667
7.38 17.666667	7.38 17.333333	7.38 21.333333
7.39 17.333333	7.39 18	7.39 21.666667
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7.53 16.666667	7.53 18	7.53 23
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7.58 18.666667	7.58 17.666667	7.58 19.333333
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7.79 14.333333	7.79 17.333333	7.79 17.333333
7.8 14.666667	7.8 16.666667	7.8 22
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7.83 16	7.83 16.666667	7.83 18
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8.14 13.666667	8.14 15	8.14 20.333333

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8.53 14	8.53 16.333333	8.53 15
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8.88 11.333333	8.88 15.333333	8.88 13
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9.02 12	9.02 9.333333	9.02 12.666667
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9.08 9.333333	9.08 10	9.08 8.666667
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9.61 2.6666667	9.61 4	9.61 5.3333333
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10.64	4.6666667	10.64	0	10.64	2.6666667
10.65	6	10.65	0	10.65	3
10.66	5	10.66	0	10.66	2.6666667
10.67	5	10.67	0	10.67	2.3333333
10.68	5.6666667	10.68	0	10.68	2.6666667
10.69	6.6666667	10.69 0.3333333	10.69	3	

10.7	4	10.7 0.3333333	10.7	3	
10.71	6	10.71	0	10.71 2.6666667	
10.72	5.3333333	10.72 0.3333333	10.72	3	
10.73	4.3333333	10.73	0	10.73	3
10.74	3.6666667	10.74	0	10.74	3
10.75	4.6666667	10.75	0	10.75	4.3333333
10.76	6	10.76	0	10.76	2.6666667
10.77	4.3333333	10.77	0	10.77	3.3333333
10.78	6.3333333	10.78	0	10.78	3.6666667
10.79	6	10.79	0	10.79	2
10.8	6.3333333	10.8 0.3333333	10.8	3.3333333	
10.81	6	10.81	0	10.81	3.3333333
10.82	6	10.82	0	10.82	2.6666667
10.83	6	10.83	0	10.83	2.3333333
10.84	5	10.84	0	10.84	2.3333333
10.85	5.6666667	10.85	0	10.85	2
10.86	4.6666667	10.86	0	10.86	2
10.87	4.6666667	10.87	0	10.87	1.6666667
10.88	5.3333333	10.88	0	10.88	2
10.89	5.3333333	10.89	0	10.89	1.3333333
10.9	5.3333333	10.9	0	10.9	2.3333333
10.91	5.3333333	10.91	0	10.91	1.6666667
10.92	5	10.92	0	10.92	2.3333333
10.93	3.6666667	10.93	0	10.93	2
10.94	4.6666667	10.94	0	10.94	2.3333333
10.95	5	10.95	0	10.95	2.3333333
10.96	4.3333333	10.96	0	10.96	2.3333333
10.97	4.3333333	10.97	0	10.97	1.3333333
10.98	5.6666667	10.98	0	10.98	2
10.99	3.6666667	10.99	0	10.99	1.3333333
11	4.6666667	11	0	11	1.6666667
11.01	4	11.01	0	11.01	2
11.02	5	11.02	0	11.02	1.6666667
11.03	5.6666667	11.03	0	11.03	1
11.04	5	11.04	0	11.04	1.3333333
11.05	3.6666667	11.05	0	11.05	0.6666667
11.06	4.3333333	11.06	0	11.06	0
11.07	4	11.07	0	11.07	0
11.08	4.6666667	11.08	0	11.08	0
11.09	4.3333333	11.09	0	11.09	1
11.1	4.6666667	11.1	0	11.1	0.3333333
11.11	4.6666667	11.11	0	11.11	0
11.12	4	11.12 0.3333333	11.12	0	
11.13	3.6666667	11.13	0	11.13	0
11.14	4	11.14	0	11.14	0
11.15	4	11.15	0	11.15	0
11.16	3.3333333	11.16	0	11.16	0
11.17	5.3333333	11.17	0	11.17	0
11.18	4.6666667	11.18	0	11.18	0
11.19	4	11.19	0	11.19	0
11.2	4.3333333	11.2	0	11.2	0

11.21 4.6666667	11.21	0	11.21	0
11.22 3.6666667	11.22	0	11.22	0
11.23 2.6666667	11.23	0	11.23	0
11.24 3.3333333	11.24	0	11.24	0
11.25 0.6666667	11.25	0	11.25	0
11.26 1.3333333	11.26	0	11.26	0
11.27 2	11.27 0.3333333		11.27	0
11.28 2.3333333	11.28	0	11.28	0
11.29 1.3333333	11.29	0	11.29	0
11.3 1	11.3	0	11.3	0
11.31 1	11.31	0	11.31 0.3333333	
11.32 2.3333333	11.32	0	11.32	0
11.33 2.3333333	11.33	0	11.33	0
11.34 1.6666667	11.34	0	11.34	0
11.35 1.6666667	11.35	0	11.35	0
11.36 1.3333333	11.36	0	11.36	0
11.37 1.6666667	11.37	0	11.37	0
11.38 1.6666667	11.38	0	11.38	0
11.39 2	11.39	0	11.39	0
11.4 1	11.4	0	11.4	0
11.41 1	11.41	0	11.41	0
11.42 1	11.42	0	11.42	0
11.43 0.6666667	11.43	0	11.43	0
11.44 1	11.44	0	11.44	0
11.45 1	11.45	0	11.45	0
11.46 1.3333333	11.46	0	11.46	0
11.47 0.6666667	11.47	0	11.47	0
11.48 0.6666667	11.48	0	11.48	0
11.49 0.3333333	11.49	0	11.49	0
11.5 1.3333333	11.5	0	11.5	0
11.51 0.3333333	11.51	0	11.51	0
11.52 0	11.52	0	11.52	0
11.53 0	11.53	0	11.53	0
11.54 0	11.54	0	11.54 0.3333333	
11.55 0	11.55	0	11.55 0.3333333	
11.56 0	11.56	0	11.56	0
11.57 0	11.57	0	11.57	0
11.58 0	11.58	0	11.58	0
11.59 0	11.59	0	11.59	0
11.6 0	11.6	0	11.6	0
11.61 0	11.61	0	11.61	0
11.62 0	11.62 0.3333333		11.62	0
11.63 0	11.63	0	11.63	0
11.64 0	11.64	0	11.64	0
11.65 0	11.65	0	11.65	0
11.66 0	11.66	0	11.66	0
11.67 0	11.67	0	11.67	0
11.68 0	11.68	0	11.68	0
11.69 0.3333333	11.69	0	11.69	0
11.7 0	11.7	0	11.7	0
11.71 0.6666667	11.71	0	11.71	0

11.72 0.3333333	11.72	0	11.72	0	
11.73	0	11.73 0.3333333	11.73	0	
11.74	0	11.74	0	11.74	0
11.75 0.3333333	11.75	0	11.75	0	
11.76	0	11.76	0	11.76	0
11.77	0	11.77	0	11.77	0
11.78	0	11.78	0	11.78	0
11.79 0.3333333	11.79	0	11.79	0	
11.8	0	11.8	0	11.8	0
11.81	0	11.81	0	11.81	0
11.82 0.3333333	11.82	0	11.82	0	
11.83	0	11.83	0	11.83	0
11.84	0	11.84	0	11.84	0
11.85	0	11.85	0	11.85	0
11.86	0	11.86	0	11.86	0
11.87	0	11.87	0	11.87	0
11.88 0.3333333	11.88	0	11.88	0	
11.89	0	11.89	0	11.89 0.3333333	
11.9	0	11.9	0	11.9	0
11.91	0	11.91	0	11.91 0.3333333	
11.92	0	11.92	0	11.92	0
11.93	0	11.93	0	11.93	0
11.94	0	11.94	0	11.94	0
11.95	0	11.95	0	11.95	0
11.96 0.3333333	11.96	0	11.96	0	
11.97	0	11.97	0	11.97 0.3333333	
11.98	0	11.98	0	11.98	0
11.99 0.3333333	11.99	0	11.99	0	
12	0	12	0	12	0
12.01	0	12.01	0	12.01	0
12.02	0	12.02	0	12.02	0
12.03 0.6666667	12.03	0	12.03	0	
12.04	0	12.04	0	12.04	0
12.05	0	12.05	0	12.05	0
12.06	0	12.06	0	12.06	0
12.07	0	12.07	0	12.07	0
12.08	0	12.08	0	12.08	0
12.09	0	12.09	0	12.09	0
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12.16	0	12.16	0	12.16	0
12.17	0	12.17	0	12.17	0
12.18	0	12.18	0	12.18	0
12.19 0.3333333	12.19	0	12.19	0	
12.2	0	12.2	0	12.2	0
12.21	0	12.21	0	12.21 0.3333333	
12.22 0.3333333	12.22	0	12.22	0	

12.23	0	12.23	0	12.23	0
		12.24	0	12.24	0
		12.25	0	12.25	0
		12.26	0	12.26	0
		12.27	0	12.27	0
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		12.29	0	12.29	0
		12.3	0	12.3	0
		12.31	0	12.31	0
		12.32	0	12.32	0
		12.33	0	12.33	0
		12.34 0.3333333		12.34	0
		12.35	0	12.35	0
		12.36	0	12.36	0
		12.37	0	12.37	0
		12.38	0	12.38	0
		12.39 0.3333333		12.39	0
		12.4	0	12.4	0
		12.41	0	12.41	0
		12.42	0	12.42	0
		12.43	0	12.43	0
		12.44	0	12.44	0
		12.45	0	12.45	0
		12.46	0	12.46	0
		12.47	0	12.47	0
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		12.49	0	12.49	0
		12.5	0	12.5	0
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		12.53	0	12.53	0
		12.54	0	12.54	0
		12.55	0	12.55	0
		12.56	0	12.56 0.3333333	
		12.57	0	12.57	0
		12.58	0	12.58	0
		12.59	0	12.59	0
		12.6	0	12.6	0
		12.61	0	12.61	0
		12.62	0	12.62	0
		12.63	0	12.63	0
		12.64	0	12.64	0
		12.65	0	12.65	0
		12.66	0	12.66	0
		12.67	0	12.67	0
		12.68	0	12.68 0.3333333	
		12.69	0	12.69	0
		12.7	0	12.7	0
		12.71	0	12.71	0
		12.72	0	12.72	0
		12.73	0	12.73	0

12.74	0	12.74 0.3333333
12.75	0	12.75 0.3333333
12.76	0	12.76 0
12.77	0	12.77 0
12.78	0	12.78 0
12.79	0	12.79 0.3333333
12.8	0	12.8 0
12.81	0	12.81 0
12.82	0	12.82 0
12.83	0	12.83 0
12.84	0	12.84 0
12.85	0	12.85 0
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12.87	0	12.87 0
12.88	0	12.88 0
12.89	0	12.89 0
12.9	0	12.9 0
12.91	0	12.91 0.3333333
12.92	0	12.92 0
12.93	0	12.93 0
12.94	0	12.94 0
12.95	0	12.95 0
12.96	0	12.96 0
12.97	0	12.97 0
12.98	0	12.98 0
12.99	0	12.99 0
13	0	13 0
13.01	0	13.01 0
13.02	0	13.02 0
13.03	0	13.03 0
13.04	0	13.04 0
13.05	0	13.05 0.3333333
13.06	0	13.06 0
13.07	0	13.07 0
13.08	0	13.08 0
13.09	0	13.09 0
13.1	0	13.1 0
13.11	0	13.11 0.3333333
13.12	0	13.12 0
13.13	0	13.13 0
13.14	0	13.14 0.3333333
13.15	0	13.15 0
13.16 0.3333333		13.16 0
13.17	0	13.17 0
13.18	0	13.18 0
13.19 0.3333333		13.19 0
13.2	0	13.2 0
13.21	0	13.21 0
13.22	0	13.22 0
13.23 0.3333333		13.23 0
13.24	0	13.24 0

13.25	0	13.25	0.6666667
13.26	0.3333333	13.26	0.3333333
13.27	0	13.27	0
13.28	0	13.28	0
13.29	0	13.29	0
13.3	0.3333333	13.3	0
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13.32	0	13.32	0
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13.34	0	13.34	0
13.35	0.3333333	13.35	0
13.36	0	13.36	0
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13.38	0	13.38	0
13.39	0	13.39	0
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13.41	0	13.41	0
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13.43	0	13.43	0
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13.57	0	13.57	0
13.58	0.3333333	13.58	0
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13.6	0	13.6	0
13.61	0	13.61	0.3333333
13.62	0	13.62	0
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13.67	0	13.67	0
13.68	0.3333333	13.68	0
13.69	0	13.69	0
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13.71	0.3333333	13.71	0
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13.75	0	13.75	0

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13.77	0	13.77	0
13.78	0	13.78	0
13.79	0	13.79	0
13.8	0	13.8	0
13.81	0	13.81 0.3333333	
13.82	0	13.82	0
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13.84 0.3333333		13.84	0
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13.9	0	13.9	0
13.91	0	13.91	0
13.92	0	13.92	0
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13.96	0	13.96	0
13.97	0	13.97	0
13.98	0	13.98	0
13.99	0	13.99	0
14 0.3333333		14	0
14.01	0	14.01	0
14.02	0	14.02	0
14.03	0	14.03	0
14.04	0	14.04	0
14.05	0	14.05	0
14.06	0	14.06	0
14.07	0	14.07	0
14.08	0	14.08	0
14.09	0	14.09	0
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14.18	0	14.18	0
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14.2 0.3333333		14.2	0
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14.23 0.3333333		14.23	0
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14.26	0	14.26	0

14.27	0	14.27 0.3333333
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14.32	0	14.32 0
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14.36	0	14.36 0
14.37	0	14.37 0
14.38 0.3333333		14.38 0
14.39 0.3333333		14.39 0
14.4	0	14.4 0
14.41	0	14.41 0
14.42	0	14.42 0
14.43 0.3333333		14.43 0
14.44	0	14.44 0
14.45 0.6666667		14.45 0
14.46	0	14.46 0
14.47	0	14.47 0
14.48	0	14.48 0
14.49	0	14.49 0
14.5	0	14.5 0
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14.52	0	14.52 0
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14.54	0	14.54 0.3333333
14.55 0.3333333		14.55 0.3333333
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14.59 0.3333333		14.59 0.3333333
14.6	0	14.6 0
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14.62	0	14.62 0
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14.66	0	14.66 0
14.67	0	14.67 0
14.68	0	14.68 0
14.69	0	14.69 0
14.7 0.3333333		14.7 0
14.71	0	14.71 0
14.72	0	14.72 0
14.73	0	14.73 0
14.74	0	14.74 0
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14.76	0	14.76 0
14.77	0	14.77 0

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14.79	0	14.79	0
14.8	0	14.8	0.6666667
14.81	0	14.81	0
14.82	0	14.82	0
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14.86	0	14.86	0
14.87	0	14.87	0
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14.89	0	14.89	0
14.9	0	14.9	0.3333333
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14.93	0	14.93	0
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14.95	0	14.95	0.3333333
14.96	0	14.96	0
14.97	0	14.97	0
14.98	0	14.98	0
14.99	0	14.99	0
15	0	15	0.3333333
15.01	0	15.01	0
15.02	0	15.02	0
15.03	0	15.03	0
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15.05	0	15.05	0
15.06	0	15.06	0
15.07	0.3333333	15.07	0
15.08	0	15.08	0
15.09	0	15.09	0
15.1	0	15.1	0
15.11	0	15.11	0
15.12	0	15.12	0
15.13	0	15.13	0
15.14	0	15.14	0.3333333
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15.16	0	15.16	0
15.17	0	15.17	0.3333333
15.18	0	15.18	0
15.19	0	15.19	0.3333333
15.2	0	15.2	0
15.21	0	15.21	0
15.22	0	15.22	0.3333333
15.23	0	15.23	0
15.24	0.3333333	15.24	0
15.25	0	15.25	0
15.26	0	15.26	0
15.27	0	15.27	0
15.28	0	15.28	0.3333333

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15.3	0	15.3	0
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15.32	0	15.32	0
15.33	0	15.33 0.3333333	
15.34	0	15.34 0.6666667	
15.35	0	15.35	0
15.36	0	15.36	0
15.37	0	15.37	0
15.38	0	15.38	0
15.39	0	15.39 0.3333333	
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15.43	0	15.43 0.3333333	
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15.46	0	15.46	0
15.47 0.3333333		15.47	0
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15.54	0	15.54	0
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15.56 0.6666667		15.56	0
15.57	0	15.57	0
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15.59	0	15.59	0
15.6 0.3333333		15.6	0
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15.62	0	15.62	0
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15.66	0	15.66	0
15.67	0	15.67	0
15.68	0	15.68 0.3333333	
15.69	0	15.69	0
15.7	0	15.7	0
15.71	0	15.71 0.3333333	
15.72	0	15.72	0
15.73	0	15.73	0
15.74	0	15.74	0
15.75	0	15.75	0
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ion (nm) de (pN) of	ion (nm) de (pN) of	ion (nm) de (pN) of	ion (nm) de (pN) of	ion (nm) de (pN) of	ion (nm) de (pN) of	ion (nm) de (pN) of	ion (nm) de (pN) of
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86.769646	94.30359	72.88883	46.956	83.103065	33.677864	77.1281	45.701492
86.721756	95.38394	73.047905	37.702644	83.08312	35.568027	77.11142	47.639538
86.78396	100.93508	73.6921	25.11958	82.97263	34.82283	77.30014	50.021107
86.736244	107.94302	74.468925	17.250843	83.29418	33.93503	77.21746	51.649727
86.71935	111.91899	74.421844	16.980022	83.32711	35.097176	77.42435	50.83487
86.92407	109.98042	73.97263	23.437891	83.41451	37.37872	77.10487	51.323452
86.98545	107.70201	73.72609	30.828228	83.29178	40.44026	77.24827	49.968285
87.18993	104.26773	73.783844	36.945972	83.25162	41.099937	77.58184	51.228367
87.35755	102.72656	73.96866	38.974194	83.476585	40.6226	77.707405	53.179348
87.30558	106.56723	74.17366	34.51068	83.64017	40.85076	77.83647	57.557896
87.199684	113.08389	74.44817	30.486637	83.89927	38.80472	77.58183	60.03567
87.34101	117.19896	74.63807	30.400501	84.04202	37.18851	77.79313	61.519714
87.21338	118.87001	74.46599	34.718235	84.1457	37.659027	77.59273	61.01213
87.30527	116.67587	73.96857	46.54551	84.12666	39.318825	77.76994	62.4314
87.505104	116.20367	73.93616	52.562294	84.08323	43.591934	77.977974	61.37525
87.80404	113.61737	74.28468	50.804443	83.99536	45.90203	77.833305	61.473133
87.86344	110.91477	74.400894	50.68483	84.09454	47.302296	77.97707	63.15575
88.0299	109.92495	74.5861	52.421288	84.24655	45.0701	78.05395	66.09469
88.21314	111.31054	74.43255	51.69802	84.575676	39.64338	78.40474	64.9747
88.16589	110.80998	74.75225	44.077164	84.9501	34.27897	78.41533	62.965466
88.424644	109.20149	75.15194	40.50542	85.33247	31.04154	78.47393	61.690243
88.57957	105.07877	74.998436	44.54575	85.32281	31.038984	78.44419	63.196636
88.74889	103.47316	74.9565	47.20472	85.29854	34.27182	78.55571	66.058174
88.9659	100.02084	75.154305	44.07816	85.148766	38.74924	78.19342	69.112
88.994865	100.47322	74.98663	49.10441	85.194405	40.886906	78.52725	70.74157
89.070694	98.61116	75.586296	47.667244	85.25859	41.169746	78.637924	68.49548
89.18009	98.773445	75.883736	39.592255	85.37722	40.48991	78.698555	63.27854
89.40917	98.967155	75.74549	37.84952	85.4369	39.20386	79.26677	57.780663
89.440994	99.27711	76.17921	33.538506	85.58118	39.84294	79.48828	55.33362
89.48615	97.887184	76.10853	32.012966	85.75958	39.12455	79.699554	54.511963
89.66773	96.23076	76.23787	37.38606	85.916664	37.405342	79.82084	55.12653
89.82029	94.889435	76.01909	43.66358	86.022736	37.407578	79.83983	59.32343
89.93208	95.36524	75.84018	47.625195	86.13052	37.377857	79.74872	62.910324
90.057396	95.3383	76.03002	46.139004	86.252	38.0922	79.85534	66.69186
90.019485	100.29005	76.15168	42.773056	86.251274	40.400932	79.6685	68.33171
89.90539	105.87862	76.44741	45.96122	86.04301	43.223293	79.38765	70.15129
89.971504	112.70056	76.537704	39.33001	86.15592	43.70543	79.96114	70.182106
89.93168	119.46169	76.85934	35.295197	86.37456	41.492786	80.00243	68.242424
89.76731	122.43658	76.7289	35.56124	86.42851	41.996033	80.16128	63.75525
89.82586	121.91639	76.84709	40.98818	86.49961	43.79578	80.32764	63.08131
89.948364	120.93762	76.94263	43.17011	86.404366	45.6378	80.38682	60.301346
90.23513	119.6889	77.190575	44.987514	86.717804	44.71892	80.33118	59.10368

90.24706	120.28685	77.2821	43.645844	86.86952	43.531796	80.847145	60.11606
90.31178	118.15688	77.40825	40.144756	87.02557	40.5852	80.96475	61.890083
90.58346	114.51179	77.611206	38.545845	87.34513	37.652847	80.85948	63.944336
90.822784	113.50044	77.77681	36.104584	87.24837	39.32178	80.924034	67.967674
90.97388	112.39534	77.852196	36.0869	87.08068	45.018127	80.69272	72.84509
91.04309	110.4655	77.68928	43.77406	86.8496	51.041748	80.69137	78.20833
91.10603	112.24715	77.43277	48.93994	86.76214	57.302483	80.61846	78.866165
91.22725	110.67213	77.397255	53.36865	86.631996	60.312798	80.53302	78.96146
91.1231	114.88715	77.64491	53.232933	86.802284	58.936398	80.93792	78.64639
91.08457	121.87453	78.02468	51.099346	87.07501	55.141403	80.82379	75.83543
91.30478	124.37309	77.71665	55.28708	87.22813	54.757183	81.03444	74.020226
91.23708	129.72025	77.83078	60.27508	87.44813	54.180904	81.10404	72.53922
91.158	134.08745	77.76973	61.825268	87.58651	53.908577	81.308075	73.9157
91.26553	133.9934	77.96297	58.835785	87.51855	54.123707	81.553764	75.86515
91.43439	133.9623	78.410515	46.5414	87.670296	55.22429	81.54984	76.9767
91.49232	131.26364	79.02771	35.608734	87.67579	57.399063	81.1645	81.153656
91.54979	131.79036	79.24964	30.357428	87.76104	57.64445	81.463974	81.61989
91.55508	132.95767	79.548195	27.855427	87.90599	59.102257	81.60282	82.82847
91.771736	132.71777	79.53748	31.540121	87.84961	61.150326	81.72728	84.00106
91.83023	133.19745	78.8827	46.963245	87.90128	60.45307	81.64656	82.376
91.99031	131.07288	78.57002	58.01757	88.14473	58.33291	81.68881	79.83456
92.16379	126.3857	78.504486	59.42187	88.35131	55.9634	81.955666	76.42528
92.3711	126.62851	79.05696	56.31546	88.69336	51.924057	82.276184	75.10762
92.41554	129.60922	79.37676	49.532314	88.89898	47.4928	82.45048	77.08922
92.35341	133.88562	79.70359	43.940117	89.14495	45.524048	82.5818	76.3407
92.3707	138.62433	80.03447	37.38556	89.04615	48.06961	82.37828	80.60533
92.21746	144.09354	80.019455	36.434174	89.06431	52.260002	82.35946	84.99697
92.234406	148.66452	79.91297	39.906116	88.98483	58.348534	82.04795	87.48597
92.20583	151.52571	79.823906	46.219852	88.584755	64.88803	82.25612	89.25822
92.09969	153.20955	79.76907	50.947372	88.38123	70.52357	82.51389	88.51982
92.31712	154.90158	79.7844	60.01808	88.49201	72.5072	82.560684	87.25501
92.44211	153.96678	79.54058	62.56163	88.5077	71.54682	82.62354	85.28947
92.401436	154.68814	80.112854	60.824234	88.901794	67.63531	82.98662	83.12894
92.609924	154.3878	79.961945	61.984398	89.18967	62.058434	82.979	84.54239
92.87528	151.38583	79.93785	60.463924	89.50763	56.455673	83.01791	86.02716
92.940025	150.08061	80.530785	51.65999	89.865135	53.332783	83.353874	89.36563
92.979355	150.7431	80.503006	51.651947	89.96036	52.735893	83.0336	92.86601
93.09845	152.03503	80.35272	55.035538	89.982376	55.17698	83.08865	94.97853
93.22989	151.86247	80.45659	58.929855	89.735535	60.70722	83.15552	96.55493
93.28516	152.83357	80.52001	59.55163	89.67968	66.28685	83.15584	95.6893
93.07547	159.39752	80.390045	58.681927	89.60147	67.139206	83.475914	94.875656
93.23611	164.79462	80.782875	62.884274	89.78918	68.71448	83.75439	93.959724
93.32386	166.26553	80.50845	62.420727	89.76146	69.10607	83.653	93.62671
93.34016	164.5141	80.706406	55.365685	89.91242	69.18481	83.66277	96.06716
93.58453	162.16785	81.04821	52.68804	90.11691	67.27677	83.41374	98.798706
93.75596	160.8011	81.37535	51.851917	90.27036	65.21947	83.55472	100.80468
93.8568	161.46759	81.779045	49.561825	90.405106	65.02521	83.60016	101.23456
93.80399	160.90195	81.70115	47.97226	90.61922	63.326504	83.71288	100.60281
93.96935	166.94589	81.878395	49.66677	90.856346	57.589058	83.71407	101.58319
93.63804	173.02783	81.52594	61.913723	91.087105	56.57528	83.77709	104.69841
93.67322	179.69547	81.39008	70.47106	91.2312	57.007683	83.89938	108.59354

93.88449	181.85258	81.275154	69.99189	91.19003	58.72805	83.55806	112.6332
93.97107	182.73169	81.63142	66.04025	91.11876	60.89115	83.57716	113.46966
93.97084	181.87173	81.91036	60.481426	91.176636	62.14293	83.933044	110.63135
94.10372	184.34508	82.1978	53.54718	91.25463	66.08729	84.19576	105.22784
94.04546	186.54875	82.65309	49.149754	91.12923	67.957	84.58535	100.30695
94.17173	180.98975	82.840355	45.77877	91.24925	67.03618	84.92582	98.69044
94.855064	160.44887	82.614044	52.282158	91.33268	68.35978	84.82635	100.23242
95.65476	132.47958	82.37728	56.296017	91.457375	70.46484	84.83434	100.90192
96.76501	97.57128	82.63142	50.35998	91.28682	72.057686	85.18278	102.13327
97.76248	62.997913	83.19921	46.794865	91.56353	71.50909	84.75162	105.20265
98.58825	35.091385	83.30405	46.73576	91.9151	67.68112	84.65958	106.73031
99.02319	25.545557	83.20108	44.776787	92.10467	65.67813	84.85357	109.09461
98.914825	29.412691	82.926094	52.17869	92.08657	65.86239	85.225105	113.09579
98.85206	34.169163	83.13344	56.895683	92.202515	66.695816	84.92335	114.44278
98.95448	40.297195	83.10017	62.097446	92.10051	67.64463	85.11162	111.82535
98.99532	44.918938	83.03621	64.29493	92.04752	70.24184	85.30735	107.20808
98.75092	47.360435	83.63179	56.532986	92.059845	73.519104	85.55473	103.72165
99.0115	45.588757	83.743996	54.010387	92.09802	76.02846	85.971825	101.67052
99.112274	45.251335	83.33189	54.871178	92.11334	74.86522	85.94201	97.042496
99.10048	45.79198	83.792114	55.090786	92.413376	72.35844	86.08947	96.76055
99.17947	47.05298	83.62673	62.01064	92.57375	72.65068	86.31587	99.80867
99.35228	49.331886	83.856346	62.41569	92.53744	74.06066	86.361465	99.74157
99.40552	53.53602	83.868614	63.449585	92.53397	75.59065	86.14568	99.07114
99.50712	54.449085	83.96332	68.179375	92.63628	77.34516	86.25809	101.81531
99.53657	52.277534	83.800995	68.84034	92.753044	78.57724	86.17083	105.74041
99.6422	50.75034	84.274895	63.60451	92.696236	80.42392	86.378914	105.79854
99.74992	52.850517	84.398994	59.604202	92.7318	79.45174	86.519844	104.55504
99.77944	55.20009	84.38917	60.459507	93.143936	76.4008	86.69156	105.14945
99.76581	58.966663	84.379745	63.264637	93.246346	76.07064	86.67615	105.7275
99.747375	62.8632	84.63189	61.032284	93.12808	80.70182	86.88221	105.13602
99.7413	68.25328	84.39653	64.16301	92.85462	85.96795	87.14908	103.96825
99.77857	71.186615	84.630714	64.71141	92.917465	89.19511	87.21206	104.13462
99.80209	71.48402	85.03418	62.42797	92.88751	91.5067	87.06246	103.87697
99.87557	71.31049	85.394066	54.443264	93.03932	91.56719	87.45745	102.46532
100.00626	69.842094	85.25501	46.838623	93.235054	89.2257	87.52274	102.46974
100.24072	68.464	85.64234	41.675144	93.351944	87.95614	87.18372	105.23216
100.38447	68.60011	85.9163	36.826885	93.41402	87.245575	87.503105	108.16792
100.50677	69.22904	86.394646	33.700405	93.42873	89.217	87.31647	111.71259
100.61252	70.853645	86.544106	33.144367	93.51942	91.22173	87.28832	114.03918
100.63426	70.34948	86.52864	36.13087	93.68347	90.60191	87.43754	115.00298
100.62086	71.131546	86.83699	38.940845	93.7939	90.30458	87.22698	115.95826
100.81573	69.290825	86.55469	40.95644	93.98361	88.50915	87.69463	117.47752
101.02581	67.880394	86.64746	42.380108	94.3001	86.2702	87.631905	120.24449
101.06889	68.16919	86.75403	43.95056	94.29969	85.86259	87.58063	122.9452
101.2508	65.30472	86.52636	46.57063	94.29385	87.654465	87.74901	121.80515
101.45869	60.27924	86.55557	54.945263	94.216705	91.399536	87.726204	118.92081
101.62065	58.126633	86.193405	63.27899	94.06041	94.97374	88.232376	113.92121
101.83432	53.880295	85.95168	67.160835	94.177124	96.41762	88.29345	109.28388
101.883	56.657097	86.13733	70.84613	94.35785	97.10447	88.700676	107.57269
101.74199	61.027737	86.395676	68.98843	94.27036	97.95108	88.47178	109.29273
101.6415	66.841576	86.191475	69.78361	94.39354	97.795456	88.45173	113.39161

101.69648	72.26141	86.53099	66.61403	94.57167	96.03925	88.64798	115.76704
101.79594	74.43313	86.553	62.310356	94.75978	94.484314	88.81383	116.33891
101.85278	75.53479	86.761246	67.560684	94.86428	93.27112	88.93702	118.50669
101.92601	74.7254	86.69551	71.21302	95.1425	92.48402	88.75863	119.45373
102.11459	70.430695	87.0491	64.53819	95.10086	92.54846	88.80264	120.12126
102.36655	66.472855	87.1066	66.17811	95.26792	91.44724	88.86211	121.49674
102.58461	61.60507	86.93066	66.96762	95.299034	93.69218	89.079475	122.56948
102.68463	61.06409	87.27036	68.557686	95.32473	98.13655	89.26815	121.10113
102.85511	62.33878	87.276825	68.92433	95.08082	101.93762	89.477684	118.56126
102.72002	66.44267	87.31895	73.54821	95.041855	105.48233	89.62543	116.84588
102.79245	68.32137	86.6414	86.56993	94.94464	109.03752	89.2806	120.59264
102.85045	69.05155	86.918434	88.91791	94.99928	111.60866	89.21251	126.37203
103.0532	70.292595	86.9899	88.737526	94.92265	112.84338	89.231544	131.68352
103.008	69.07827	87.274925	82.71658	95.12594	112.62756	88.955765	135.62521
103.39502	64.72531	87.812904	74.158394	95.1588	112.33588	89.07756	136.76407
103.27834	64.382385	88.34641	64.05248	95.32274	111.92909	89.23684	135.78503
103.39072	67.674286	88.442665	60.60666	95.33903	110.95097	89.732414	131.88268
103.43488	70.75148	88.36416	64.92199	95.58545	110.22672	89.60732	128.21498
103.4401	73.340385	88.22235	71.13518	95.79294	108.87644	89.85664	128.5876
103.47699	76.88164	88.44516	76.229355	95.72935	108.581	90.00237	131.98322
103.48903	82.60164	88.03878	83.36552	95.98601	110.34105	89.62287	136.07594
103.31378	88.86048	88.123344	83.072945	96.03136	111.86288	89.54238	138.82214
103.40606	88.9822	88.40883	77.59831	95.830986	112.22163	89.471344	139.43591
103.70791	89.355865	88.602356	74.88119	95.98177	113.97499	89.59893	139.67656
103.65055	92.935936	88.77208	71.19493	95.94101	116.72542	90.213905	138.4715
103.74297	91.68454	88.73649	74.78475	96.03607	118.84174	90.09461	137.80992
103.91769	90.51158	88.83756	77.641624	96.01071	120.43207	90.22222	135.65771
103.97727	90.364914	88.875015	82.6855	96.078804	120.41994	90.42795	136.52234
104.11831	89.55427	88.51614	89.79892	96.24442	121.64304	90.28259	140.16591
104.18597	89.454735	88.97835	93.88365	96.27095	121.48783	90.3943	141.8001
104.2768	89.76868	89.251114	91.0332	96.39311	121.56508	90.35751	145.50003
104.2624	93.19466	89.156906	87.69044	96.61024	121.46736	90.55585	149.19919
104.32371	98.87383	89.53882	79.04537	96.53506	124.1264	90.487076	149.59868
104.4134	103.97849	89.60363	72.89802	96.40198	125.53893	90.71139	149.27397
104.15752	111.69619	90.24383	64.359146	96.55633	126.99996	90.47846	148.35374
104.05298	118.71236	90.42171	60.70878	96.62539	126.55537	90.623695	148.40347
104.24748	117.52198	90.120834	65.80344	96.617714	128.38686	90.727066	148.1534
104.45022	112.73447	90.38128	66.125275	96.77281	128.79294	91.04422	146.22844
104.67872	108.93335	90.78621	64.07861	96.906334	127.79212	91.03208	149.13223
104.69613	104.70577	90.52785	66.77738	97.11699	125.95721	91.102104	151.15996
104.90371	101.01646	90.62111	66.50496	97.11856	126.96713	91.15249	150.93694
105.06101	100.64008	90.58812	68.05415	97.27235	125.10806	91.15945	154.18394
105.08797	101.77039	90.92272	65.03163	97.34071	125.5116	90.88307	159.31976
105.24309	104.357	90.97689	69.575226	97.45765	128.406	90.945175	162.23148
105.23895	105.01217	90.63073	74.065	97.291664	133.02689	91.23804	162.15642
105.26437	105.97747	90.87087	74.4351	97.19024	136.4623	91.305725	159.65848
105.37339	106.73863	90.63783	76.3748	97.05488	140.83469	91.12047	158.41824
105.69102	104.18499	90.53757	85.82761	97.05393	145.43658	91.239555	157.85098
105.80795	99.16849	90.56346	88.69523	96.90539	147.38837	91.52217	157.26662
106.16167	94.74186	90.487755	90.684395	97.29289	144.24622	91.66307	158.49133
106.34991	90.68365	91.013664	82.76868	97.50666	142.76547	91.60039	161.56818

106.29641	95.90656	91.211815	75.98753	97.56302	142.80054	91.41133	165.38449
106.04994	105.36704	91.47928	76.65982	97.675125	142.05048	91.546074	167.28003
105.9889	112.15663	91.59207	76.362495	97.968414	141.14447	91.52351	170.32242
105.98832	116.19475	91.53729	81.08771	97.86534	142.11626	91.475784	173.15384
106.09554	115.61385	91.75037	85.35258	97.75945	144.39833	91.79686	174.1832
106.33024	109.6175	91.307785	86.00529	97.93246	144.41853	91.68653	173.52457
106.48338	103.91921	91.7235	82.23375	97.977036	144.91806	92.17044	172.47202
106.67503	100.2741	91.98467	74.40476	97.8577	146.24043	92.02649	171.81271
106.78355	104.08136	92.662415	66.14194	98.071014	147.47429	92.09623	172.98898
106.83479	107.80238	92.46863	68.58749	98.25035	147.77438	92.16428	174.96643
106.91528	109.15302	92.40851	72.63191	98.30725	148.83658	92.27284	178.27338
106.92173	112.09963	92.53325	78.98388	98.29307	150.81303	92.2583	176.80348
106.95958	114.37446	92.37196	80.17445	98.13394	154.65894	92.12275	175.9464
107.05899	114.31275	92.58085	79.79946	98.21862	155.53902	92.3467	177.4429
107.1825	113.15862	92.87823	80.4158	98.40342	155.30489	92.63449	176.96172
107.28584	112.36297	92.80062	80.49967	98.47765	153.70496	92.5499	176.1789
107.4531	112.06496	92.79609	79.79485	98.73267	151.12477	92.66275	177.94708
107.47387	112.24302	92.581924	87.89621	98.83277	148.7618	92.69844	177.64153
107.51205	111.66763	92.482635	96.47875	99.11993	147.5715	92.842186	176.59999
107.62717	115.12212	92.55224	98.59687	99.225235	148.21762	93.29196	173.35977
107.51292	119.35743	92.76076	95.99067	98.98122	151.8102	93.33057	173.56445
107.54356	124.9158	93.3244	88.34482	99.09854	155.11288	93.49312	174.26773
107.57478	129.7636	93.41361	83.98882	99.000984	156.79877	93.45511	176.02266
107.56026	130.72595	93.67435	78.976265	98.94636	160.26944	93.46096	179.34946
107.56316	132.94685	93.75473	79.64999	99.040535	163.44862	93.35129	181.84009
107.79807	135.20728	93.476654	89.667564	98.9428	165.55473	93.238014	183.38571
107.87126	134.58914	93.385025	93.8156	99.22224	164.531	93.315704	184.43872
107.92965	134.25537	93.71743	94.50349	99.33878	162.22491	93.67009	182.42944
107.99501	131.41321	93.636925	97.75748	99.40581	161.61348	93.73313	180.24515
108.1301	132.65901	93.86477	98.776276	99.64714	160.37193	94.107666	176.48387
108.16499	134.63301	93.58194	101.92844	99.77914	158.56609	94.15887	175.22263
108.26772	131.70241	93.56875	104.28621	99.724464	159.74422	94.31909	174.00674
108.39891	131.63382	93.65638	105.30304	99.85415	160.70311	94.044365	172.27017
108.46715	130.41988	93.858154	105.98248	99.89571	161.47325	94.25695	176.16986
108.69134	130.02437	93.90385	105.17352	99.96034	161.53568	94.66497	179.14954
108.91018	128.33456	93.957184	103.85481	100.08854	163.14871	94.783646	181.42384
108.99473	130.11632	94.1478	101.50483	99.97288	166.89085	94.72937	180.0866
108.9151	137.05858	94.83253	88.82804	99.94588	169.97191	95.13532	166.65947
108.8658	143.44727	94.85811	81.33368	100.01477	171.61337	96.12213	145.6767
108.90556	147.1468	95.17559	76.86272	100.13702	172.51663	97.4033	118.34016
108.8386	148.31184	95.62352	72.125275	100.24995	170.08298	98.64615	92.92646
108.91012	147.38687	95.67571	72.80286	100.51325	167.53484	99.451515	77.01764
108.98145	145.01538	95.66403	80.44133	100.73088	165.34387	100.26723	69.58601
109.34983	143.37173	95.111435	91.960526	100.71752	165.83754	99.92416	71.1567
109.44068	146.28218	95.33399	95.37994	100.70679	168.15146	99.766	76.80775
109.33688	147.74017	95.10452	93.56901	100.36168	175.79942	99.69241	79.240944
109.4409	148.46684	95.25504	96.34504	100.44249	178.22296	99.660934	81.05625
109.54001	150.89334	95.561195	95.85728	100.77782	170.57986	100.09863	79.59195
109.42021	150.80634	95.6982	92.591675	101.88511	152.7587	100.16867	78.26152
109.60514	150.89838	95.85646	91.21123	102.96413	130.33786	99.99196	77.034325
109.72301	153.20003	95.737785	90.28388	104.13177	105.17434	100.62585	75.329346

109.74932 158.69765 96.19458 91.167114 105.37105 83.25401 100.70047 73.408035
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109.98435 159.31128 96.04628 99.53682 106.52845 66.85211 100.45982 77.05736
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110.36822 158.26811 96.16045 98.0766 106.988 64.23972 100.17171 89.0781
110.41372 159.29091 96.42334 98.044846 106.84039 65.338295 100.56379 91.532585
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110.65077 160.42113 96.811584 99.30143 107.07253 66.999626 100.70818 92.55698
110.5697 165.13916 96.73294 97.73447 107.18729 67.6525 100.82239 94.99026
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111.06786 173.8003 96.93182 113.91748 107.78281 72.522575 101.29469 93.62135
111.13348 179.27359 97.27385 108.99048 107.80796 73.85729 101.60304 94.99379
111.07798 182.3274 97.54135 102.37338 107.66514 77.35186 101.83485 96.627174
111.04759 185.30894 98.174164 99.10189 107.67269 80.72689 101.5298 97.150734
111.11622 186.27374 98.01134 98.937225 107.87067 82.29131 102.21496 94.064575
111.13283 189.80794 98.06486 101.25713 107.80228 83.34867 102.08942 91.640945
111.34184 189.11772 98.29632 99.3642 108.04139 80.905556 102.37987 89.863495
111.58815 186.75005 98.223854 100.69585 108.0957 79.31863 102.47099 92.41255
111.63225 185.53798 98.32178 99.72223 108.42001 78.37137 102.31262 94.753784
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123.62329 148.92456 107.51978 161.21767 115.54209 158.58464 113.74793 86.87432
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124.4573 159.2792 108.30019 165.85512 115.95953 174.58398 114.50234 92.624725
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125.686 167.91534 109.88805 168.15207 116.92674 184.77193 115.99372 93.44443
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210.41188	1795.7693	216.99321	782.6912	211.18115	903.77234	212.93365	819.29553
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210.6114	1800.0137	217.38928	780.0694	211.2207	910.4168	212.87857	824.7572
210.47214	1802.9082	217.63855	777.6426	211.14474	911.42645	212.85042	827.1269
210.56401	1806.9238	217.29962	786.1206	211.25606	912.7765	212.66086	829.46405
210.50163	1810.5648	217.0763	791.1327	211.40439	913.1224	212.9436	831.49414
210.56868	1814.6509	217.00517	798.5906	211.35767	914.962	212.81265	832.5557
210.55203	1816.1498	216.73473	809.50073	211.4273	915.33826	212.78087	835.0219
210.60074	1817.601	216.85039	812.48083	211.53065	917.6923	213.02696	837.3797
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210.78955	1820.9689	217.12706	804.46765	211.35487	923.35254	213.16254	841.92694
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361.0336	583.68024 745.32629
334.89038	470.29449 660.2345
335.70267	474.58331 679.71393
324.01096	611.99426 790.1098
372.7157	586.73468 788.19293
359.54321	433.52359 761.6886
376.1153	546.42633 798.42133
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332.56885	526.29346 675.64667
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312.98172	310.84125 692.57367
331.47836	520.60968 663.03601
325.77109	565.65448 624.26422
364.86472	419.28174 704.08484
354.29694	589.12128 827.77356
377.3837	578.70215 748.0675
371.27545	378.14844 776.84015
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345.1384	489.17261 833.91223
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421.62088	521.59149 636.99091
388.99341	537.01129 637.11285
377.31549	598.73187 726.46216
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364.53268	626.58966 802.63239
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379.16187	813.59473 768.20282
311.80954	605.37195 630.73151
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318.85559	579.3465
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364.32867	467.88754
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338.4538	574.76624
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315.55728	474.18863
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628.99445

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569.84656
400.15891
242.35153
401.95206
595.38141
571.1947
486.36575
568.99707
604.38141
474.76675
810.9682
547.80914
309.07864
569.724
593.45691
546.96564
522.77142
383.73846
66.209862

H-bonds	Force (nN)
8	0.352
13	0.431
18	0.559
23	0.744
28	0.839
33	1.050

n (nm) of A	n (nm) of B	n (nm) of A	n (nm) of B	n (nm) of A	n (nm) of B	n (nm) of A	n (nm) of B
0 6.886269	0 11.466162	0 -10.02937	0 -1.615486				
0.0186844	10.138279	0.0305023	10.580925	0.207283	-13.12567	-0.033813	10.853929
0.0950317	14.037049	0.0997696	10.757728	0.3876419	-12.68213	0.3209534	5.797918
0.1069336	14.520052	0.1424255	10.459744	0.373436	-11.01586	0.5830383	2.1241896
0.368454	12.994994	0.1682053	12.651547	0.378685	-11.90059	0.7506867	0.8238965
0.4547195	12.028656	0.1531601	15.745516	0.3385162	-10.5681	0.6828461	1.2015944
0.5558472	12.539525	-0.014664	17.310154	0.4630203	-10.94069	0.5695038	6.925571
0.7485199	11.278367	0.1452179	15.920043	0.5582275	-8.415935	0.3998947	12.747137
0.9995041	10.409673	0.4693985	13.252788	0.5569458	-4.774903	0.2592468	16.701363
1.0325394	8.544388	0.5085602	12.817136	0.5503845	-2.557121	0.481781	15.308866
1.1941452	7.831125	0.5939102	15.618506	0.4912949	-0.174138	0.5932465	12.20879
1.2045975	8.05117	0.4573822	20.742575	0.4227219	2.3971934	0.9084778	10.296153
1.5511398	5.5370708	0.3096542	25.26329	0.5273514	4.904799	1.0942612	8.861633
1.6559677	3.0184743	0.4259872	25.889734	0.4613113	8.135048	1.3878021	6.4896975
1.96241	1.5956681	0.6898422	23.2791	0.5698242	9.652889	1.5457382	3.3828495
2.2931595	-3.149703	1.0881195	17.074675	0.5351257	10.520474	1.9148026	-0.790146
2.4787369	-7.762735	1.3983078	11.956824	0.9286423	7.608691	2.117302	-2.297385
2.6795425	-9.147572	1.4524918	10.131395	1.1452255	3.5634828	2.1667786	-3.413714
2.6993256	-7.298884	1.4742737	11.98619	1.0844193	2.3263614	2.3023453	-4.377498
2.7363052	-8.456402	1.69664	14.110046	1.1475296	4.5221047	2.450409	-4.022449
3.066452	-10.95973	1.7140274	14.152568	0.9236527	8.672673	2.4353943	-2.492895
3.0070648	-9.999501	1.9762573	11.577572	1.1154861	11.782352	2.4156036	0.3153033
3.1169815	-8.222645	2.241806	7.2259974	1.0489197	13.485213	2.415741	1.3002932
3.0919495	-7.962297	2.337883	5.114409	1.2567673	10.221657	2.4327774	2.8952396
3.296196	-6.689593	2.4665375	5.260348	1.7878952	2.876366	2.2919464	7.761014
3.1190262	-1.971368	2.4943924	6.561862	2.130928	-3.602896	2.2690125	11.034784
2.9231415	2.838063	2.7150497	5.96001	2.402954	-6.762924	2.2468567	12.962742
2.8433151	5.8116846	2.7832642	4.245937	2.4579391	-6.832035	2.3264618	13.393342
2.7983627	7.913892	3.0391083	3.0856428	2.647377	-4.439171	2.3930054	13.630708
3.0309067	9.334367	3.1413498	3.1771252	2.3644562	0.0793809	2.5628052	14.734936
3.2287827	6.6596174	3.143547	3.763545	2.3172226	5.4448113	2.55542	15.990931
3.5138397	3.423206	3.0180435	6.31184	2.2523727	8.888889	2.5847168	16.252333
3.6117783	0.6061263	3.121315	10.838053	2.2734756	10.388801	2.7457275	18.563374
3.843361	2.6324499	2.8841705	14.560631	2.3169403	11.957157	2.8975372	17.050806
3.7676468	4.5862756	2.8518906	16.969038	2.206749	14.03394	3.0393982	15.92304
3.740303	7.950474	3.0157852	17.404688	2.2820663	14.15773	3.2734528	13.36864
3.7597122	10.337065	3.0074463	18.437529	2.550743	11.945778	3.4403076	10.571488
3.8463287	8.728407	3.1930466	18.396118	2.7374725	9.590883	3.665619	7.6784687
4.1766663	2.4780734	3.2588959	17.373602	2.905098	6.441847	3.6851654	8.340661
4.5857162	-2.184086	3.5102158	16.307734	3.3091202	0.9606205	3.9109192	8.316181
4.7707825	-4.047596	3.4776764	17.447544	3.7096786	-3.515133	3.9746246	8.912038
4.656845	-1.623701	3.597496	18.002266	3.871193	-4.491241	4.075699	7.936485
4.5788727	0.8594791	3.643074	16.785906	3.6432953	0.0675571	4.250862	7.508383
4.511383	5.260847	3.8871155	14.400759	3.5219269	5.2033377	4.2464905	8.351986
4.3780746	11.963098	4.208687	11.156409	3.4129562	9.297063	4.174301	11.433188
4.2618637	15.1818	4.307022	9.844791	3.3036575	14.03766	4.1890564	15.134504
4.3779984	15.707602	4.411743	7.968015	3.2034988	17.48307	4.134659	18.836489
4.5571594	15.088208	4.766617	5.2658434	3.6334991	14.673818	4.095398	20.634995
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6.5418015	14.750645	5.9440765	22.71766	6.2365646	-3.82161	6.532173	8.885725
6.502304	15.618617	5.9406357	24.49213	6.195488	-3.158751	6.338669	13.288759
6.6548386	14.310108	5.986725	22.20496	6.505966	-5.469847	6.2384796	17.092937
6.879944	11.596724	6.4179993	16.979473	6.7220154	-6.924961	6.3006287	18.229307
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8.204933	17.256363	7.889412	18.201996	8.059807	-3.270606	7.676132	23.035574
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9.312004	-0.167588	8.418678	15.065282	8.869644	-10.94941	7.6703033	33.84987
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9.718994	2.3560598	9.425476	4.1971426	8.444565	7.9466434	8.887489	19.021063
9.830734	2.1839197	9.525871	3.4749424	8.381203	10.588364	8.976166	16.508905
9.785622	4.2646995	9.671646	3.2495117	8.49015	11.167123	9.197159	13.445355
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11.897453	-4.204748	11.378243	3.5508819	10.713547	1.6250889	10.475075	24.6409
12.061096	-4.113432	11.57206	0.3506639	10.92057	-1.620426	10.505463	27.170044
11.982597	-1.668665	11.822464	1.6484036	10.873756	-0.646538	10.642052	26.739943
11.936836	2.2551405	11.781197	6.5879526	10.97953	1.2262968	11.002167	23.887892
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59.94822 74.38916 59.937897 72.31548 60.123367 48.68267 55.755234 165.25447
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62.158592 82.12286 62.31259 74.7139 62.323944 55.677185 57.255676 184.70558
62.177177 83.73347 62.46602 72.40641 62.452652 56.14159 58.113754 172.20042
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63.195732 73.85631 62.691788 80.826675 63.1158 53.83499 62.90901 80.0911
63.380547 74.06703 62.688034 85.15655 63.089905 54.349415 62.945877 78.34544

63.220406	76.26216	62.542862	87.92211	63.045624	57.396366	62.974976	80.6874
63.21943	76.33372	62.699158	88.30997	63.109665	60.236206	63.120453	78.19611
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64.40119	87.74937	64.15079	90.81674	64.824234	58.663406	64.413345	84.372955
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65.22471	81.51852	64.5706	89.45072	64.92604	68.21388	64.17267	100.84777
65.63207	77.558235	64.64325	92.52649	64.775406	70.32991	64.32054	98.11829
65.64193	76.806786	64.5742	96.382065	64.9303	69.87411	64.65355	93.1461
65.9226	76.03035	64.61218	97.88115	65.02731	70.05085	64.89435	91.67145
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65.94622	83.55644	64.82596	102.74215	65.71495	66.276375	64.47572	110.94798
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66.23792	83.22687	65.61932	91.89255	65.72264	74.73721	64.80763	109.78535
66.21804	84.43335	65.9978	86.1235	65.73726	76.56503	64.66885	116.33627
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66.30933	89.64784	66.282104	89.009575	65.834	77.91667	64.69922	121.97965
66.54621	88.58447	66.14307	93.5495	66.19417	72.54941	64.968185	120.01971
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66.90385	86.726234	65.84953	105.73659	66.94269	63.909878	65.73335	109.66822
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66.94204	90.23898	65.93663	108.28466	66.92366	69.47476	65.741196	112.18798
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67.90189	89.616646	66.915115	102.49612	67.05263	82.89081	66.52048	114.47826
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67.858284	90.31026	67.11409	106.83327	67.44066	79.72456	66.8163	115.14967
67.966255	91.99996	66.97571	108.38525	67.37537	78.98604	66.6949	117.98767
68.09141	92.72738	67.147934	108.21283	67.57373	77.27985	66.77756	116.48071
68.12057	94.34031	67.25421	107.57634	67.76628	78.67989	67.022964	114.79928
68.18131	96.53828	67.40303	106.00465	67.75418	81.38396	67.01378	116.17546
68.20368	97.055916	67.62541	104.94022	67.78627	82.99239	67.155685	115.47241
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68.435234	94.91535	67.84178	101.24951	68.21356	82.73149	67.32132	114.40227
68.48762	96.097626	68.12935	100.87586	68.33736	78.50187	67.38899	117.97441
68.56892	96.674614	68.26907	101.84276	68.459045	76.94184	67.16139	122.19164
68.66552	96.145645	68.05328	104.24661	68.462234	77.24127	67.271835	123.64681
68.79139	95.687904	68.0862	106.71125	68.43471	82.54869	67.28786	126.30264
68.91584	95.341515	68.144196	109.04433	68.26674	87.988785	67.19714	127.37012
69.11349	92.19192	68.10617	112.21857	68.28497	91.040955	67.359726	125.70539
69.44358	89.74482	68.14731	113.86298	68.3275	90.58637	67.71654	122.04321
69.60224	88.221596	68.18591	112.58999	68.64012	87.58855	67.88269	119.89842
69.72976	87.43806	68.390656	109.36446	68.8546	81.9454	67.99742	120.24642
69.72631	88.04352	68.81996	104.39233	69.357956	77.654106	68.12062	119.71607
69.88848	89.5265	69.27847	98.98776	69.441635	75.580154	68.14548	122.01573
69.8102	91.486595	69.47455	93.82889	69.45755	76.1049	68.179	124.74166
69.89358	92.762405	69.491165	93.24896	69.262665	78.42416	68.06651	126.95667
69.86866	94.71401	69.5858	96.26616	69.448685	80.841835	68.18509	128.73914
69.88856	96.50525	69.53078	101.0883	69.45679	83.052505	68.161606	129.60304
70.02349	96.17323	69.487335	104.80639	69.39545	85.19479	68.25969	130.79448
70.11762	94.02467	69.26326	107.18198	69.55017	86.28215	68.2092	132.17372
70.365685	91.35637	69.43353	108.96201	69.6055	87.93427	68.24811	134.80573
70.70304	89.229126	69.488144	109.03578	69.49408	90.27806	68.31163	136.4434
70.80448	88.08937	69.62892	108.06545	69.471085	93.86153	68.337875	136.00043
70.87858	88.664406	69.81282	107.63701	69.603	95.2895	68.55148	134.64407
70.63204	91.848915	69.75778	107.99217	69.62404	93.553276	68.6078	134.4147
70.72842	96.13199	69.91705	108.95401	69.81818	92.339806	68.85326	133.85094
70.51133	101.06283	69.99739	109.52678	69.811356	92.64955	68.77312	135.85889
70.59222	103.3727	69.99959	110.53803	70.025955	91.49109	68.85936	138.11385
70.79751	102.234	70.08327	113.79581	70.20482	90.748405	68.87616	140.5413
70.919075	99.771965	69.959	118.44081	70.313934	91.163795	68.908264	141.27238
71.003105	97.55552	69.710526	124.11139	70.33858	94.86967	69.0641	139.27481
71.17248	96.38201	69.54138	127.40378	70.33267	94.679375	69.17996	136.90526
71.23057	98.2634	69.66455	130.22339	70.44734	94.20309	69.37596	136.78935
71.2544	101.29742	69.595505	131.10146	70.54407	94.97581	69.548004	137.79411
71.17803	105.36932	69.83623	130.05835	70.62982	94.735	69.295135	143.63666
70.852516	110.63411	70.0674	127.95098	71.034744	90.80303	69.22133	147.34047
71.10941	111.36442	70.0974	126.44241	70.9987	88.222206	69.16339	149.44557
71.32763	108.26795	70.293045	124.69137	71.11726	87.50045	69.21336	151.54277
71.49302	105.0827	70.60051	122.82114	71.16101	89.99179	69.3802	153.16365
71.84333	102.13596	70.75691	120.44832	71.381	90.41428	69.36578	153.34639
72.03695	99.66011	70.90358	119.55842	71.34	92.45443	69.490555	150.78471
72.28686	97.11587	71.12262	118.9921	71.4256	94.24095	69.814606	147.0486
72.41633	96.20926	71.082504	119.44878	71.46094	94.20409	69.93526	144.25238
72.44439	97.50162	71.01636	121.11756	71.667465	92.37338	70.16487	143.1847

72.54003	96.62354	70.99541	124.97581	71.86749	90.236206	70.159836	143.72192
72.66044	94.87738	70.95087	128.07849	72.030106	87.6717	70.09102	148.43904
72.838524	95.850494	71.07742	130.39412	72.30644	86.45557	69.8181	155.31032
72.77076	100.5277	71.1006	131.58354	72.10872	87.82808	69.70274	162.11655
72.50892	103.96845	71.14964	132.41954	72.13127	91.76465	69.66817	165.83784
72.498024	107.15584	71.35692	129.56308	72.0323	97.18243	69.7509	166.65086
72.60636	109.74233	71.8587	123.84737	72.03824	102.43889	69.9926	161.87662
72.47112	112.84401	72.13211	119.11322	71.85239	104.47965	70.264084	154.85147
72.63363	114.60944	72.10289	120.17992	71.88948	105.15355	70.970474	146.73434
72.68212	115.56261	72.07359	124.00681	72.19815	103.97144	71.18199	142.04477
72.65513	115.83598	71.85913	128.51004	72.437	101.45557	71.45729	137.56818
72.664955	116.8145	71.88466	132.40652	72.47296	99.63103	71.61803	138.82245
72.87919	115.79868	71.73642	137.15323	72.85004	95.51127	71.56276	142.80865
73.05016	114.6947	71.894104	136.23624	73.19011	91.25101	71.38344	148.09743
73.198616	112.78658	72.212616	130.72577	73.43567	87.10327	71.2663	152.36057
73.33886	112.67754	72.5462	127.00219	73.80434	82.79904	71.30661	154.26959
73.472404	113.1705	72.670074	125.12933	73.81819	82.06985	71.28352	157.89297
73.57978	115.5879	72.67473	123.75301	73.82391	83.79791	71.09218	161.34044
73.49651	116.09364	72.90674	124.81524	73.92505	85.90745	71.29857	162.52032
73.568	114.8922	72.8078	126.34998	73.754456	89.94677	71.28323	163.01865
73.692345	115.93243	72.88017	129.64658	73.787155	91.72108	71.39856	161.24779
73.955666	115.71685	72.89813	131.59045	73.93527	91.469444	71.73729	157.66377
73.95313	114.71301	72.86896	132.44156	74.06464	91.49454	71.988205	154.82288
74.125404	113.90044	72.98505	134.1377	74.076035	93.18291	72.14894	152.2108
74.13961	114.19785	73.029526	135.07404	73.91496	97.19747	72.065384	154.42436
74.08758	116.59077	73.205475	133.96542	73.930374	102.11554	72.126434	156.59824
74.317024	117.22961	73.48799	129.24559	73.90599	102.68125	72.034744	160.0845
74.47541	116.11218	73.7672	123.74918	74.22604	98.62061	72.07851	161.86247
74.47996	116.09252	74.1429	119.94972	74.61174	93.1426	72.170135	162.80005
74.77981	112.74076	74.22348	120.51754	74.912415	88.15354	72.29793	163.12563
74.90229	112.70218	74.19508	121.99103	74.84416	87.18537	72.16002	165.87625
74.90493	113.57388	74.055756	124.83825	74.749146	90.17764	72.10184	170.80992
74.948296	114.69456	73.85249	131.21904	74.75774	94.98108	71.93878	175.87038
75.08114	116.84708	73.88269	136.92667	74.62898	101.5284	72.004135	178.1849
75.20727	114.7894	73.95241	139.00714	74.52841	104.39816	72.15073	177.93561
75.28603	111.25467	73.69679	142.2859	74.620804	104.41647	72.31662	176.59373
75.56522	108.9967	73.74391	142.73969	74.81117	105.29971	72.515	174.64569
75.68134	109.8675	73.95845	142.48213	74.855255	104.91563	72.61401	175.12459
75.69399	112.66776	74.17685	139.80583	74.885925	105.73037	72.59593	177.79012
75.62673	115.3149	74.409454	135.33357	75.12549	105.16293	72.53157	180.40791
75.48266	119.46569	74.74162	133.34555	75.156555	104.03045	72.55348	182.05582
75.38105	125.36133	74.6637	132.93439	75.20595	104.21896	72.519485	184.10878
75.26609	129.13715	74.86365	134.0617	75.413345	104.78806	72.53221	182.71062
75.3556	128.70909	74.85417	136.39368	75.420746	106.77403	72.786804	182.5315
75.449715	127.06552	74.97119	136.58002	75.49925	107.22712	72.64322	186.20427
75.78506	124.95269	75.17647	133.76785	75.611374	106.62227	72.4718	192.2511
76.19283	119.30867	75.29549	133.06616	75.73874	105.52198	72.63547	192.95909
76.518456	115.39103	75.4413	135.38348	76.02052	103.07194	72.73547	190.75374
76.54122	114.8108	75.19037	138.98909	76.164276	102.94132	73.14374	189.36685
76.660545	115.05649	75.23253	142.30975	76.256714	103.85276	73.20119	187.85928
76.75124	115.66664	75.11621	145.07611	76.186874	102.75891	73.38548	183.87503

76.81544	115.66512	75.27017	145.51505	76.3313	102.85328	73.51503	185.25537
76.90577	115.45873	75.44513	144.22366	76.39496	103.52303	73.36473	190.51561
77.02802	114.41595	75.61682	142.99886	76.34932	106.33461	73.27899	194.0611
77.01864	116.05627	75.5943	145.1928	76.48398	107.56754	73.41249	192.66133
76.92663	120.28201	75.45657	150.34319	76.49405	109.65528	73.55565	191.1294
76.85372	125.76179	75.4436	152.7517	76.377945	114.91508	73.729965	189.9222
76.81376	129.58337	75.69524	148.70586	76.285355	119.81783	73.935394	187.52283
76.86289	131.02696	76.21651	138.7393	76.19273	121.26894	74.17052	184.41321
76.8606	132.35135	77.08775	124.26444	76.27779	122.29306	74.28731	184.45045
76.96885	131.72658	77.8002	108.60662	76.3474	122.78201	74.441025	184.41982
77.17477	129.40488	78.58736	94.92052	76.54773	121.93713	74.367874	187.33704
77.39916	127.52666	79.08864	83.05484	76.769165	118.45489	74.33858	191.87451
77.488396	125.1407	79.53441	76.655624	77.106476	113.43037	74.074356	196.92941
77.65777	123.54195	79.78172	72.49479	77.58569	105.60708	73.99867	201.52696
77.70013	125.37454	80.07291	68.6442	78.12552	94.91269	73.97493	205.83618
77.842674	126.27427	80.20355	66.40782	78.7686	81.2545	73.89436	207.929
77.8117	126.87523	80.35101	67.20446	79.42996	69.0285	74.09929	206.31313
77.95895	128.2611	80.4989	67.35213	80.098495	58.588856	74.291794	203.42622
77.88494	129.59286	80.53021	67.728325	80.40878	51.55509	74.39679	203.21678
77.94401	131.08278	80.555984	69.710236	80.74631	48.72963	74.49199	206.02142
78.1381	131.22464	80.50343	72.56457	80.76715	49.575676	74.38576	208.09848
78.20632	130.89479	80.51601	75.68618	80.76138	52.38071	74.45445	209.80783
78.21346	132.30685	80.53464	78.67445	80.63408	55.947803	74.561295	212.22035
78.4585	131.80376	80.46559	79.76708	80.636475	58.603844	74.40141	214.91914
78.61297	131.0922	80.67784	79.350136	80.72127	60.85754	74.511856	215.28113
78.477	133.09615	80.758224	78.432816	80.79906	60.637108	74.806656	212.85667
78.46633	135.53409	80.88051	78.71864	80.829544	59.912243	74.87607	212.54932
78.44686	139.33507	80.91957	80.62345	81.125565	57.46903	74.868576	212.3437
78.38073	143.15204	80.84946	82.374054	81.334015	56.261272	75.11949	210.99211
78.48965	143.17691	80.97064	85.02288	81.46983	55.000114	75.29393	208.9603
78.68012	140.9296	81.04886	85.64233	81.74248	52.116146	75.36015	208.58765
78.97991	135.7701	81.18544	83.91471	82.06003	49.360126	75.45003	209.61932
79.28759	130.0478	81.4823	79.72462	82.16298	46.35292	75.48201	211.57703
79.58225	126.41036	81.75252	76.97415	82.30226	44.616142	75.64992	210.6968
79.69021	126.34629	81.826904	75.54884	82.28557	47.906124	75.597916	213.84467
79.58106	128.61542	81.926636	76.12055	82.24486	50.26024	75.39691	218.40785
79.85546	130.44502	81.95	79.22024	82.213745	54.52644	75.52214	219.6725
79.999825	129.21109	81.91522	82.317986	82.22095	58.165916	75.923386	212.73894
80.15012	129.46596	81.92055	82.41569	82.13904	61.05533	76.80821	198.74107
80.24647	127.63823	82.10457	82.40414	81.86868	66.59723	77.640854	178.00671
80.39286	124.44631	82.12552	83.43243	81.8571	70.489555	78.8907	156.6507
80.66854	121.25575	82.13846	83.782814	81.86331	71.9218	79.945526	135.46875
80.68049	124.42125	82.24025	81.12128	81.85164	73.772545	80.56502	122.36323
80.402016	128.25754	82.338486	81.72546	82.03569	71.5567	80.610855	119.48692
80.44413	130.69995	82.35071	84.85496	82.34488	69.248665	80.85477	118.72125
80.36002	132.57828	82.34935	88.07294	82.47525	66.19882	81.26256	115.21345
80.488365	134.06009	82.24684	92.234276	82.97403	62.617912	81.446304	111.13632
80.59701	134.72565	82.18852	95.429886	83.00813	60.594196	81.7238	109.11832
80.84583	134.82904	82.3031	97.583664	83.210434	58.801517	81.62111	111.11706
80.95489	132.38239	82.467255	94.616035	83.42517	57.005676	81.63808	113.51598
81.08434	133.01505	82.87282	88.46135	83.375885	57.664097	81.43886	114.73544

81.14582	135.19191	82.92549	87.30355	83.3208	61.68782	81.691956	115.76262
81.19027	135.30412	82.918625	88.30392	83.15134	66.79113	81.63223	117.98718
81.25063	134.4022	83.063065	91.92547	83.08916	71.3456	81.76674	119.22801
81.42417	131.9429	82.7505	97.73543	83.170364	72.74903	81.97351	118.98532
81.57424	129.94888	82.741394	100.27401	83.36441	69.49386	81.89903	122.04199
81.67448	132.89294	82.82858	102.18076	83.637665	65.74219	81.78162	126.97332
81.70229	134.3557	82.92876	100.61352	83.991684	61.75982	81.54498	133.44542
81.579185	139.04974	83.27829	96.7546	84.23894	59.749096	81.57036	136.16031
81.29626	146.46687	83.49782	93.629105	84.20758	59.618477	81.46373	137.4238
81.220116	150.34373	83.671585	91.299416	84.26749	60.29083	81.64491	138.80852
81.35665	150.18143	83.68155	90.86559	84.32422	60.85288	81.79303	138.686
81.65595	145.09282	83.99159	88.51414	84.355606	61.88694	82.16162	132.7134
81.92123	140.6173	84.26816	87.5327	84.45352	61.913754	82.35579	127.4732
82.08724	140.07156	84.21501	88.491104	84.51492	64.49208	82.61978	124.12859
82.266396	138.39308	84.54735	87.5584	84.65428	66.52634	82.87547	123.36366
82.19994	139.7189	84.49693	86.328	84.56773	70.10231	83.07663	121.40944
82.2058	144.23709	84.59532	86.50419	84.3423	74.07219	83.09122	122.2561
82.11065	147.8171	84.58711	89.23318	84.143875	78.8326	82.99304	126.47727
82.280815	147.29079	84.451355	94.34015	84.20067	80.10798	82.81583	129.90425
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82.24847	150.12514	84.488495	97.771515	84.616135	75.30471	83.18349	127.44183
82.320366	151.43848	84.51489	98.46535	84.97038	72.75125	83.15192	129.84319
82.42144	152.2453	84.62303	97.15312	85.21109	68.94552	83.21742	131.03618
82.46511	154.22855	85.03511	94.04338	85.26749	68.66041	83.178116	131.87807
82.39167	156.53711	85.357056	89.30689	85.28952	71.76409	83.1559	135.6727
82.64027	157.34029	85.49861	87.470085	85.18448	74.78684	83.00809	141.75533
82.55323	156.67445	85.45645	91.15508	85.29317	76.51596	83.057755	144.20537
82.69355	156.85852	85.22063	96.9772	85.40076	75.85027	83.18071	141.49359
82.92931	155.97456	85.17862	102.35796	85.578354	74.25588	83.47385	137.0799
82.99699	154.01273	85.05896	106.2615	85.87871	70.2336	83.65901	135.2326
83.17307	154.57535	85.04579	108.46457	86.16234	66.86329	83.89435	133.26706
83.19376	156.58899	85.2103	108.67213	86.431046	67.1993	83.72563	135.28284
83.24311	158.10774	85.25871	105.90906	86.20592	70.47313	83.87695	138.7953
83.352425	158.54884	85.4841	102.44477	86.07822	73.59918	83.89708	141.57574
83.43905	159.58806	85.929	100.09793	85.94083	78.21255	83.94943	141.19333
83.487724	159.66272	85.934906	99.96831	86.06615	82.27913	84.31961	137.34714
83.5698	157.16916	86.02362	99.71768	85.98294	84.26765	84.51665	133.58325
83.981865	153.81996	86.055725	101.56554	86.1026	82.30272	84.71951	132.06792
84.11938	151.43759	86.00238	104.43635	86.27748	79.54859	84.67262	133.42299
84.127144	151.98157	86.068405	107.65749	86.48775	77.61125	84.61441	136.54677
84.10157	152.88847	86.0229	109.7169	86.59073	76.2474	84.65079	138.9942
84.24322	154.82246	86.1324	110.07412	86.84314	74.5527	84.75514	141.19562
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84.186226	161.01176	86.69072	102.90091	86.97914	75.4366	84.766235	145.18803
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84.65505	159.57819	86.67445	111.11873	86.96927	84.68304	84.77487	152.66988
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85.24363	152.63914	86.70181	115.61385	87.5	79.205475	85.55983	143.00572

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90.25889 73.32635 88.36023 111.24296 88.62302 87.47497 86.71799 148.82407
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90.78367 96.15259 89.48694 116.85269 89.46446 101.29276 87.39574 166.64687
90.76948 98.957565 89.517914 119.57002 89.57828 99.990906 87.03821 173.70883
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90.49732 104.80883 89.5251 124.50899 89.95087 97.58883 87.16878 178.47134
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90.74421 106.73845 89.89987 123.49815 90.39575 93.33323 87.6187 170.25925
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92.455315 86.763374 90.147415 133.98843 90.73427 102.56867 88.81235 163.46103
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92.313896 94.063255 90.25375 135.89859 91.207214 96.982086 88.89307 168.04897
92.17837 98.79591 90.522354 130.2056 91.425735 93.79852 88.83263 169.22142
92.04014 103.98221 91.20395 118.41456 91.68153 90.70056 89.000946 168.83916
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92.00507 114.76193 94.50365 57.365723 91.63927 102.08801 89.328125 173.32225

92.30085	112.2743	94.59502	58.330894	91.49338	106.96821	89.32999	174.47964
92.56246	109.89784	94.41162	63.850426	91.26419	110.86054	89.50993	172.90779
92.74726	106.71103	94.31624	68.91992	91.487564	111.95289	89.60324	170.66476
92.92545	106.16785	94.152054	74.227066	91.673645	112.06097	89.76695	170.62468
92.97852	106.56539	93.89456	78.1869	91.66072	110.99041	89.84915	171.6099
92.95945	107.14457	94.03348	78.107185	91.83362	110.08419	89.65605	172.85979
93.188286	107.58738	94.27696	77.00368	91.88072	110.82784	89.741684	177.20403
93.04696	109.94863	94.384735	76.758766	92.04047	110.39539	89.664276	180.18987
93.21696	112.63862	94.5125	77.563675	92.243835	109.80339	89.818634	180.09027
93.04359	115.14445	94.466034	79.009796	92.296616	109.94267	90.13051	176.54178
92.96682	116.72655	94.4577	79.617256	92.35481	109.91299	90.33981	174.61882
93.00118	120.82857	94.60269	79.61892	92.572815	107.08592	90.1429	176.45418
92.89689	125.3242	94.727615	79.63208	92.86714	101.49715	90.1561	180.4254
92.851814	128.36365	94.99838	77.29406	93.31294	95.91711	90.09558	183.86603
92.840416	129.38356	95.089325	75.50543	93.58681	92.60692	90.00984	187.64713
92.93807	128.67157	95.23207	77.47025	93.65851	92.280075	90.07469	188.11269
93.36939	125.26882	94.98953	82.16089	93.722336	93.87591	90.37421	184.83687
93.52216	122.6807	94.92062	87.07296	93.56654	96.664894	90.684265	180.55612
93.779884	119.67552	94.90123	89.83808	93.54025	100.24093	90.96098	176.58485
93.93011	116.63884	95.13411	88.11779	93.63847	102.43961	90.96057	176.32817
94.00535	114.96018	95.35426	86.04295	93.55383	105.43905	90.97514	180.45432
94.16613	114.63979	95.45343	81.94984	93.58833	108.4785	90.86815	185.1858
94.30605	116.42188	95.81267	77.87754	93.50006	113.49652	90.81862	190.0644
94.34536	118.74118	95.871765	78.70221	93.28894	117.90152	90.5211	194.06831
94.26717	118.52552	95.91304	79.49425	93.28	121.20116	90.63867	195.39148
94.37078	119.83134	96.08284	79.16035	93.4187	122.90491	90.625275	197.97858
94.592415	116.47461	96.22543	77.09106	93.302444	124.53033	90.683334	199.89232
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95.14092	109.54188	96.6994	71.34687	93.33249	126.07365	90.60806	206.90793
95.34113	108.35522	96.559784	74.41536	93.51703	125.07114	90.682785	207.39116
95.355064	109.96259	96.560196	79.07847	93.56885	122.84845	90.78714	205.51605
95.38546	112.42787	96.36406	84.02845	93.96364	119.82354	91.04181	203.49988
95.2875	115.93488	96.47394	85.43627	94.27472	117.63396	91.342636	199.42276
95.11262	121.58216	96.53328	86.89033	94.39421	115.32794	91.582535	196.50403
95.135124	123.93081	96.54695	87.86405	94.49773	114.43216	91.91632	193.53552
95.1359	125.39764	96.78244	86.301636	94.793945	111.37516	92.053665	192.21147
95.33227	126.36384	96.80812	86.58691	94.92201	109.54493	91.87508	194.31445
95.413	122.68067	96.90756	87.16461	94.98218	110.13152	91.91397	195.82869
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96.47396	108.62897	97.53624	79.50474	94.99403	117.06664	91.71048	206.73508
96.47477	109.41048	97.42595	81.50364	95.10986	118.26348	91.8439	208.61656
96.28463	114.86351	97.60077	82.763626	95.22572	118.64049	92.02777	206.8779
96.24621	120.32494	97.71098	82.46531	95.25868	118.02129	92.240005	205.36684
96.087166	122.09633	97.62753	84.29923	95.30867	119.7662	92.230255	207.21158
96.24055	122.33825	97.69388	86.87367	95.38312	121.12827	92.18356	208.95824
96.48029	120.62698	97.75432	89.15818	95.52899	121.68983	92.15045	210.00934
96.67721	119.53785	97.84659	89.6786	95.55592	122.85206	92.30968	210.70512
96.736046	119.33374	97.86006	90.23221	95.61656	123.35333	92.31503	212.02606
96.700905	121.59029	97.81346	91.68111	95.66937	122.96211	92.63925	212.28197
96.76423	126.14476	98.11644	91.18367	95.86574	122.25415	92.69617	211.29259

96.6973	129.07991	98.15314	90.37737	95.92853	121.00954	92.96138	209.76099
96.75158	129.37102	98.37315	90.63916	95.98306	120.53053	92.89598	210.38104
96.72384	129.7958	98.43222	89.34092	96.27811	119.75266	92.95499	211.3163
96.97698	129.54427	98.62845	87.79161	96.443634	120.04286	92.817566	213.35889
96.9123	130.67097	98.66589	86.96888	96.17421	122.91079	92.667694	217.78256
97.010155	130.8591	98.78427	87.34052	96.10852	127.22251	92.71246	220.31522
97.20814	129.24146	98.89911	87.99961	96.01404	131.44774	92.80075	220.7402
97.562614	126.65813	98.93552	88.04896	95.98363	136.55333	93.043106	220.61508
97.54084	125.70245	98.997696	88.59608	95.89096	138.93475	93.293	219.26111
97.7089	124.82232	99.13992	88.22887	96.02351	138.96967	93.23233	219.53105
97.82514	124.31151	99.326645	86.679054	96.15051	137.6126	93.19606	220.6017
97.92217	124.2475	99.53897	84.56119	96.391464	134.65096	93.31871	223.38242
98.13073	122.26753	99.61932	84.70402	96.57666	132.86478	93.149826	227.79912
98.47207	118.69378	99.61362	86.318565	96.85286	132.53093	93.20633	229.08546
98.65058	115.2754	99.6236	88.8577	97.01286	132.89243	93.17961	229.27338
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98.70475	136.15112	99.95511	104.51273	97.64546	135.9542	93.99904	234.81023
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98.74012	140.31093	99.975464	108.10308	97.91469	133.51547	94.03937	237.62636
98.61292	140.92783	100.1727	105.46735	97.99693	135.45087	94.03746	242.51733
98.85204	138.01108	100.64087	100.06035	97.97102	137.53426	93.74539	248.87814
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101.20344	137.33891	102.33313	105.35417	99.39609	156.13022	95.06581	268.00684

101.51601 133.20262 102.48871 105.54785 99.651184 153.71207 95.240326 270.79254
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210.91965 531.7815 208.59047 574.98663 209.84183 529.9979
210.85303 532.7659 208.76326 574.3722 209.9256 531.2354

210.76709	533.91003	208.78993	574.63544	210.04086	531.41
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211.15506	542.29865			210.16028	536.5414
211.18588	541.27563			210.47226	537.4653
211.38889	539.36334			210.53601	538.6924
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211.64993	542.33563			210.43015	543.99194
211.556	544.2902			210.64111	543.07367
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211.47672	549.3256			210.82834	542.43665
211.7136	548.7119			210.73047	544.0033
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211.97061	547.28577			211.00162	545.5298
212.01047	547.9491			211.05466	547.76135
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212.1005	550.03284			210.86923	553.8299
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212.48007	558.87103				
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212.82492	562.10077				
212.81302	563.05164				
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213.10391	568.0767				
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213.49298	565.9221				
213.48203	566.56305				
213.65753	567.5926				
213.76443	569.01074				

0n (nm) of (pN) of B	0n (nm) of (pN) of B	0n (nm) of (pN) of B	0n (nm) of (pN) of B	0n (nm) of (pN) of C	0n (nm) of (pN) of C
0 23.135271	0 6.73922	0 15.325519	0 21.712631		
0.3527985	23.347656	0.4631958	2.2254975	0.4038773	18.357426
0.3092194	24.308722	0.6010513	0.5190848	0.8217621	19.26459
0.3274384	24.228008	0.527626	1.1807222	1.2070847	21.501022
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1.184021	13.219759	0.6360169	10.508871	3.0641098	24.084734
1.3291321	15.45497	0.8210449	9.467316	3.7315292	22.05347
1.3140717	16.323887	0.9615173	7.437273	4.180382	22.824965
1.2255554	19.554636	1.146637	4.949374	4.547241	24.344526
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1.378418	18.209267	1.4125977	1.5359936	5.620903	22.719826
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1.8192902	15.626888	1.7355499	2.1961322	6.3871765	30.917713
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4.3303223	26.429857	3.949379	17.051249	19.488129	74.98857
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4.3150024	33.587467	4.7448425	7.130241	20.078049	85.34862
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139.8856 865.4299 140.00214 848.4898
139.97415 866.0342 139.84103 851.77686
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139.99185 870.43774 139.92303 858.17206

140.08127	871.5596	139.9465	859.6804
140.02689	873.3957	139.80362	860.3793
140.0531	876.4433	140.01546	861.5693
139.99236	879.80853	139.92897	863.6922
140.0421	882.54767	139.94867	865.705
140.0473	882.749	140.11699	867.48395
140.02771	882.64935	139.99034	869.26373
140.32106	882.5734	140.1044	870.0534
140.29434	882.9523	140.21295	869.5245
140.32301	885.4083	140.44969	869.2578
140.4996	886.31305	140.4427	870.0535
140.5197	888.4272	140.46242	872.497
140.46178	890.6624	140.35078	875.54083
140.46526	892.2905	140.32635	879.334
140.4032	893.9798	140.30669	883.44336
140.43207	897.07416	140.21773	886.2576
140.37709	900.9492	140.29428	887.39233
140.34258	903.63074	140.2236	887.8885
140.46149	904.739	140.407	887.78467
140.34874	907.9677	140.53986	887.8936
140.55562	908.95123	140.43097	889.60297
140.59668	908.36163	140.48306	893.30334
140.51474	910.1689	140.32108	896.3388
140.55902	912.39105	140.45934	898.03345
140.52933	915.17755	140.47908	898.55597
140.62752	916.211	140.70523	899.0039
140.67627	916.5198	140.5777	900.0064
140.66699	917.898	140.63037	902.2046
140.89378	918.33203	140.56804	906.61273
140.98389	917.8341	140.36195	910.9973
141.03128	919.24097	140.43285	913.75116
141.01787	921.56274	140.44495	914.442
140.95796	924.79944	140.69702	915.9186
140.79404	928.9511	140.54059	916.8111
		140.72237	917.1195
		140.77351	916.8438

n (nm) of C	n (nm) of D	n (nm) of C	n (nm) of D	n (nm) of C	n (nm) of D	n (nm) of C	n (nm) of D
0 22.247648	0 5.9573455	0 36.127434	0 19.435009				
0.6552429	21.15319	0.2751617	2.0682344	0.0815811	36.115555	0.0691376	18.132828
0.9396668	24.073631	0.3048477	2.503997	0.0319748	39.271698	0.3272247	15.541679
1.5939636	22.807201	0.4000092	3.201106	-0.034462	43.99492	0.4913483	12.661095
2.0465393	22.826519	0.3856049	4.0494275	0.0756607	49.832695	0.8192596	10.499046
2.593399	22.6259	0.4734192	5.7377434	0.3534012	46.76781	0.9233704	8.439582
3.0078278	24.344082	0.6134262	4.887868	0.3277817	46.640026	1.4213638	4.605205
3.5145264	22.90057	0.4358978	6.117107	0.3278809	48.02414	1.5673218	2.1240788
4.0200043	23.13716	0.4436798	7.3165917	0.6417618	46.307514	1.5671387	3.7198021
4.433365	25.102032	0.703743	7.4230623	0.7742386	43.51608	1.5685425	5.459078
4.872139	27.559067	0.7429886	8.128165	1.015976	42.44105	1.6214447	7.7944317
5.4314957	25.459301	0.8435364	9.2648115	1.0431061	44.06164	1.4963837	12.50422
5.9250946	24.920177	0.7913513	9.920065	0.9558029	45.413784	1.2068787	16.907808
6.587021	21.983082	0.766037	13.388513	0.9788284	47.76346	1.3407898	18.230751
6.9775467	24.311665	0.8685761	16.232237	0.9619675	49.41547	1.5762024	14.606205
7.5586777	23.173685	0.616539	19.604319	0.9245224	51.343483	1.7006531	9.726553
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8.396126	26.513903	0.9027023	18.780422	1.431694	47.162052	2.4304352	3.4384718
8.752655	28.348768	1.1129684	15.9589	1.5797577	46.006977	2.5578613	2.9984903
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15.718872	43.63532	3.5291138	0.3788081	2.5740433	56.01275	3.435257	17.2089
16.145874	43.97538	3.613739	-0.022093	2.2704391	63.54206	3.4876099	16.778135
16.687683	43.30669	3.785553	-0.47562	2.0898438	68.18557	3.5957947	17.057022
17.056564	46.715965	4.0609436	-3.160028	2.1232224	69.71557	3.4774475	20.210278
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17.893997	51.303185	4.363823	-2.865375	2.310051	68.537506	3.580284	23.608782
18.212234	54.565243	3.914215	3.1393776	2.7359467	62.146286	3.6772537	23.109625
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19.401405	61.619267	3.4305801	16.578405	3.5634766	54.04299	4.3799744	14.100165
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21.351898	63.40917	4.1244354	13.079315	3.7647018	53.69327	4.4132385	19.280577
22.01117	60.51348	4.1800003	13.659074	4.0957108	53.045345	4.6878204	17.706837
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22.907547 73.38974 4.263504 17.348455 3.8698044 62.44627 5.2329865 13.402613
23.017632 82.920334 4.3405457 16.86451 3.6953888 67.11021 5.4499664 12.272516
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24.007263 94.99179 5.0792084 9.758971 3.7876663 74.7149 5.344223 20.744629
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74.24484	135.55334	75.98586	140.47197	74.88316	137.47392
74.81258	127.36445	76.19463	139.17755	75.225845	135.77972

75.159195 125.23904 76.33097 138.08398 75.19418 135.29222
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76.2794 137.78978 77.58924 151.43452 75.805435 163.0066
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78.113754	163.03047	79.14715	180.5247	78.03879	178.07811
78.101746	163.96928	79.1103	183.62534	77.88675	182.63934
78.1452	164.82393	79.079445	185.6042	77.85231	185.24893
78.055115	168.23698	79.186714	184.67006	77.91838	185.81514
78.104355	169.06876	79.36201	183.638	78.155716	184.26149
78.258804	168.2251	79.4018	183.6844	78.38719	180.60031
78.42795	167.82109	79.66625	182.47937	78.65097	179.36142
78.62381	166.25223	79.8081	182.2904	78.80255	177.31117
78.81671	164.37996	79.736336	184.76154	78.72298	177.91368
78.84363	165.714	79.487404	189.7782	78.995514	179.64651
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78.61577	172.75813	79.33665	198.97061	78.87912	183.3491
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79.09454	171.09558	79.689384	198.27827	78.823395	188.38797
79.315765	167.57828	79.87589	197.39632	79.02521	189.12704
79.48619	167.46216	79.959114	196.1663	79.05206	190.57567
79.39122	168.37509	80.05915	196.86586	78.93062	192.66998
79.44289	169.7431	79.85404	201.6307	78.97125	193.30327
79.42087	174.67139	79.736015	203.85959	79.12718	192.83208
79.1714	181.66957	79.92402	204.67361	79.41295	192.17162
78.94974	186.58109	79.97132	204.40361	79.22951	194.29369
79.044266	185.0069	80.08572	204.614	79.21004	198.16815
79.397125	182.72362	80.21345	203.67963	79.19704	198.83427
79.458725	182.83786	80.31898	202.97552	79.2012	198.757
79.602356	181.15808	80.44276	204.55359	79.464005	196.59674
79.78323	180.583	80.38743	207.21336	79.822556	192.64146
79.78111	183.12929	80.26705	208.45781	80.124176	188.45992
79.78467	184.18367	80.40391	208.34035	80.41147	186.89905
79.93623	183.3007	80.4844	210.5901	80.24751	192.28773
80.015366	183.35577	80.40446	214.66606	79.97455	198.04025
80.06229	184.59245	80.20652	217.99661	79.9453	201.42133
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79.92055	188.38153	80.19149	224.05055	80.03955	200.8168
79.90828	190.93826	80.405525	221.87541	80.385025	197.97574
79.99141	192.70929	80.56899	219.65152	80.62012	194.67305
79.93941	192.86816	80.90931	213.83873	80.842224	193.6038
80.11084	193.04958	81.22898	211.18507	80.54874	197.7859
80.04965	195.97357	81.3158	211.16486	80.59085	203.34178
79.98233	198.83017	81.25344	214.40549	80.44235	208.24164
79.93634	201.47261	81.09843	220.31909	80.147385	211.51215
79.88245	204.71246	80.96204	224.10141	80.37808	212.60893
79.86206	206.02942	80.80312	225.87898	80.42415	212.4042
79.95038	207.0346	81.03153	226.52968	80.48181	211.73996
80.077255	206.74385	81.121056	224.06221	80.69014	210.25204
80.16319	208.10486	81.20878	225.50383	80.70357	211.03542
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80.84177	202.6519	81.40838	230.13414	81.263885	210.16632
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81.0777	200.92206	81.82183	225.13612	81.43985	207.799
81.356384	200.99489	82.05677	223.13406	81.631775	207.95876
81.28827	204.58656	82.0752	227.60771	81.60486	210.09195
81.225235	207.22879	81.66004	234.89532	81.48512	212.84985
81.10446	209.1085	81.590614	240.88332	81.58676	215.77751
81.32068	208.01338	81.501595	242.39766	81.22093	219.8467
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81.422485	209.88922	81.65472	242.29053	81.40303	225.29434
81.38635	211.8562	81.80871	241.25302	81.27237	227.15495
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81.06383	219.39938	82.23521	238.51987	81.53291	227.7244
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81.13048	223.31204	82.04769	244.14282	81.94444	225.8499
81.22566	223.56216	81.97669	246.51158	81.77632	227.15329
81.62935	221.41177	81.96996	248.73825	81.744125	228.64288
81.63812	220.39836	82.10842	248.23288	81.89818	230.26692
81.7316	220.90341	82.267265	246.87819	81.92526	232.5159
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81.793106	223.34479	82.297905	247.94478	81.90512	235.4209
81.62424	224.9062	82.60737	246.98021	81.793594	239.07565
81.78102	226.07527	82.72727	245.78639	81.801865	241.18463
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82.52016	222.00697	83.0037	248.74503	82.422134	238.30737
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82.81111	253.23732	83.598564	274.8588	83.59694	252.64835
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82.757126	257.95343	83.72143	278.493	83.63095	257.4101
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86.94592	406.2446	87.207344	439.3814	87.48259	410.60895
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87.10239	417.66913	87.24241	451.4924	87.5728	422.74695
87.000916	419.59537	87.25692	452.96762	87.51921	423.92078
87.20796	419.60968	87.37919	454.7337	87.54271	425.27588
87.2366	421.3624	87.2539	457.2786	87.617294	427.31897
87.13489	423.96332	87.07459	461.85178	87.78554	426.0805
87.29343	424.74124	87.2438	462.6134	87.87898	425.20026
87.09889	427.8108	87.318825	463.30472	88.07402	424.228
87.00798	429.8531	87.39129	463.68488	88.16742	425.29495
87.18414	431.64456	87.34829	464.92816	88.21573	425.56247
87.046936	433.02402	87.40638	465.62128	88.30545	426.69745
87.199356	433.06458	87.49642	465.60855	88.29115	428.955
87.30798	432.12634	87.65734	464.73343	88.21417	430.56232
87.31665	433.39798	87.6448	468.43295	88.26979	432.73352
87.24536	437.49515	87.47129	470.08054	88.22502	434.47723
87.203354	441.9891	87.40313	473.44977	88.324875	435.4709
87.23773	444.21698	87.42419	476.1055	88.14754	439.36322
87.023056	447.52448	87.40861	479.65897	88.14827	440.5584
86.90445	450.615	87.2562	481.4758	88.22186	441.14136
87.13243	450.86923	87.32665	482.4328	88.17784	442.89648
87.229675	449.29092	87.40278	483.529	88.39429	442.7828
87.16353	449.39975	87.49497	485.35526	88.50894	442.8491
87.28644	451.9125	87.609856	484.4148	88.47331	444.36053
87.31421	453.94678	87.55172	484.66193	88.34854	447.41388
87.39398	454.3519	87.786156	486.02667	88.31854	450.65295
87.3649	456.23022	87.75283	488.39233	88.3703	453.13986
87.34401	457.20282	87.69216	490.09808	88.2211	457.45035
87.45172	457.89105	87.70661	492.56	88.05806	461.38943
87.70976	457.2298	87.53187	496.24847	88.000854	462.76117

87.740616	456.34653	87.40519	497.2262	88.20386	462.47144
87.77348	457.7047	87.62774	496.5534	88.18375	463.20215
87.89816	459.46857	87.726326	497.41016	88.23686	464.29916
87.89345	460.67673	87.65559	500.26672	88.44023	463.46332
87.7982	464.23166	87.58138	504.99948	88.49448	463.30884
87.817215	466.9672	87.46366	508.9919	88.53952	465.6762
87.91084	468.367	87.52158	510.62747	88.73198	466.71927
87.78528	469.30743	87.49749	511.09915	88.47705	467.9288
87.81015	470.05554	87.75684	510.3889	88.66974	468.94638
87.89903	470.6921	87.868355	509.8899	88.625595	472.1153
87.9581	470.22113	88.03872	507.87506	88.52998	475.72357
88.08032	470.24008	87.93639	510.01508	88.563705	477.13773
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88.06891	475.37628	87.813255	518.43036	88.42941	482.26718
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87.89314	488.97507	87.76789	527.9324	88.92302	484.4033
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88.2392	495.32394	88.04096	538.654	88.99841	499.27618
88.22128	498.43195	87.98487	540.29987	88.88786	499.89218
88.052795	502.26996	88.11509	541.9147	88.96953	500.57404
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88.25394	505.70493	88.19645	545.3571	89.10988	501.8913
88.223434	506.98624	88.08759	545.4696	88.88786	506.07217
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88.25693	510.48566	88.20672	549.4386	88.78923	514.459
88.2789	512.4927	88.14977	551.391	88.70509	518.5453
88.11153	516.2677	88.236015	553.8207	88.5526	521.68256
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88.04965	522.5621	87.96476	561.93854	88.68565	526.358
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88.07626	524.4871	88.127556	564.00275	88.35266	530.7625
88.13028	525.23047	88.023705	564.3809	88.60622	530.58484
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88.340225	528.2368	88.18368	568.0436	88.94826	530.40234
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88.37712	536.1007	88.28001	576.576	89.14935	536.70715
88.2919	538.7119	88.13703	578.15076	89.176865	538.7461

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88.31177	542.4598	88.28271	583.2661	89.192764	541.69977
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88.52951	557.2313	88.21772	601.6839	89.323746	557.9608
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88.45743	561.701	88.200554	606.2776	89.26669	560.9009
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88.39839	568.794	88.61204	606.53174	89.23915	570.6328
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88.6803	583.9815	88.54475	625.931	89.30165	586.8902
88.69057	586.83704	88.5046	627.1678	89.339035	588.1653
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146.64691 1304.2512
146.73553 1304.9852
146.72969 1305.2916

n (nm) of E3	n (nm) of E3	n (nm) of E3	n (nm) of E3	n (nm) of E3	n (nm) of E3	n (nm) of E3	n (nm) of E3
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2.5059204	2.7913227	1.846611	14.500956	1.7139664	18.165468	-0.117386	43.80085
2.922104	3.4909852	2.3792496	13.925971	2.2170563	18.199776	0.131218	44.69758
3.5711212	1.2165824	2.813301	15.048518	2.777031	17.170155	0.3923798	41.75227
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4.639	12.072787	4.357826	13.759216	4.2915115	18.083534	1.1334076	32.27285
4.9126587	15.966561	4.7120895	16.824541	4.6322174	21.055046	1.1312714	33.997692
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5.6192017	23.83893	5.8210983	16.055601	5.2561646	28.210989	1.0017395	40.17242
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191.3422 1224.9153 181.49707 1422.5507
191.64108 1226.9211 181.4512 1424.3854
191.53574 1228.8938 181.39499 1426.9982
191.51657 1230.938 181.25961 1430.254
191.54056 1232.832 181.38654 1433.1608
191.68436 1233.5356 181.30261 1435.6398
191.74509 1235.3672 181.37125 1437.4816
191.70132 1237.5266 181.30597 1439.1849
191.75381 1239.4276 181.44312 1439.5696
191.6127 1241.8606 181.41168 1442.0587
191.70523 1244.8911 181.33502 1444.1726
191.59433 1247.7189 181.3635 1447.7218
191.66714 1250.2802 181.35934 1449.3365
191.62146 1252.1113 181.41763 1452.0554
191.64664 1253.4565 181.4126 1455.8925
191.64273 1255.7426 181.23123 1459.1985
191.66794 1258.5521 181.08765 1460.6918
191.78586 1259.6108 181.23132 1464.1036
191.77582 1261.0383 181.18076 1467.0082
191.68045 1262.7391 181.08313 1470.3624
191.71341 1264.8572 181.11932 1472.1244
191.59454 1266.756 181.09201 1475.284
191.72583 1268.4182 181.08533 1477.9474
191.68588 1270.5443 181.00323 1479.7051
191.71317 1274.2522 181.1369 1481.0292
191.73471 1276.3567 181.206 1483.6954
191.81082 1278.7421 181.20184 1485.9132
191.67136 1281.8254 181.10971 1487.8347
191.6307 1284.4403 181.18869 1489.2943
191.81491 1285.215 180.97015 1492.5681
191.77115 1285.3256 181.08475 1493.6992
191.75604 1286.0731 181.03745 1496.854
191.77316 1289.6855 181.01382 1499.7805

191.78317 1292.776 181.08295 1501.3207
191.74649 1294.9354 181.10089 1504.2098
191.67844 1297.568 181.17346 1505.389
191.80725 1299.9104 181.25705 1506.5413
191.80225 1300.2314 181.2727 1508.2991
191.92523 1300.4446 181.22076 1509.975
191.85413 1303.0941 181.28989 1513.4061
191.64828 1306.6699 181.11041 1515.9648
191.74411 1309.1512 181.16824 1517.5974
191.8247 1309.9191 181.17569 1519.0848
191.77975 1311.5265 181.35956 1519.4221
191.95135 1313.8336 181.27603 1521.3937
191.887 1315.2308 181.24222 1524.4331
191.88626 1317.2421 181.16177 1528.9646
191.87009 1319.0597 181.05704 1532.4438
192.06598 1319.269 180.93307 1536.5769
192.12418 1319.8424 180.8294 1538.9062
192.18567 1321.1283 180.97058 1538.5714
192.03986 1322.5121 181.09943 1539.1067
192.24219 1323.9937 181.19644 1541.0133
192.18149 1325.5732 181.12274 1543.5568
181.04266 1546.7369
181.12177 1550.554

Temperature (K)	D (nm)	Temperature (K)	D (nm)	Temperature (K)	D (nm)	Temperature (K)	D (nm)
0	0.0000004	0	0.0000008	0	0.0000011	0	0.0000005
0.2	0.0722825	0.1	0.0429241	0.1	0.0539445	0.1	0.0598703
0.4	0.0722313	0.2	0.0427564	0.2	0.053772	0.2	0.0599158
0.6	0.0800666	0.3	0.0427316	0.3	0.0537612	0.3	0.0599602
0.8	0.0703112	0.4	0.0428661	0.4	0.0540567	0.4	0.0598992
1	0.0791532	0.5	0.0428176	0.5	0.0540757	0.5	0.0598897
1.2	0.081088	0.6	0.0428326	0.6	0.0542102	0.6	0.0600031
1.4	0.0839937	0.7	0.0431337	0.7	0.0541097	0.7	0.0597336
1.6	0.0810846	0.8	0.0426517	0.8	0.0537818	0.8	0.0599392
1.8	0.0762939	0.9	0.0430929	0.9	0.0536012	0.9	0.059955
2	0.0821192	1	0.0425459	1	0.0533534	1	0.0598112
2.2	0.0914184	1.1	0.0426468	1.1	0.0535301	1.1	0.0598362
2.4	0.0853491	1.2	0.0429583	1.2	0.053321	1.2	0.0602248
2.6	0.0899043	1.3	0.0431128	1.3	0.0534774	1.3	0.0601411
2.8	0.0874315	1.4	0.0435663	1.4	0.053507	1.4	0.0603789
3	0.0875634	1.5	0.0445925	1.5	0.0530867	1.5	0.0605744
3.2	0.0908792	1.6	0.0456544	1.6	0.0532808	1.6	0.0609542
3.4	0.0909925	1.7	0.0443353	1.7	0.0536618	1.7	0.0601263
3.6	0.088512	1.8	0.0448346	1.8	0.0527488	1.8	0.0602757
3.8	0.0955072	1.9	0.0441139	1.9	0.052187	1.9	0.0600907
4	0.0881729	2	0.045133	2	0.0540391	2	0.0601241
4.2	0.0853336	2.1	0.0442306	2.1	0.0525679	2.1	0.0597489
4.4	0.0894262	2.2	0.0435543	2.2	0.0530419	2.2	0.0607382
4.6	0.0845413	2.3	0.0433224	2.3	0.0514238	2.3	0.0604778
4.8	0.0807507	2.4	0.0440555	2.4	0.0501665	2.4	0.0608595
5	0.085363	2.5	0.0433446	2.5	0.0519528	2.5	0.0607845
5.2	0.0881484	2.6	0.0441617	2.6	0.05254	2.6	0.0612502
5.4	0.084801	2.7	0.0447327	2.7	0.0509886	2.7	0.0606019
5.6	0.0830645	2.8	0.0449768	2.8	0.0523591	2.8	0.0602749
5.8	0.0918695	2.9	0.0438851	2.9	0.0529426	2.9	0.0610064
6	0.0893781	3	0.0435863	3	0.0522767	3	0.0602013
6.2	0.0954016	3.1	0.0429051	3.1	0.0525671	3.1	0.0606226
6.4	0.1005124	3.2	0.0438805	3.2	0.0533446	3.2	0.0602741
6.6	0.0978101	3.3	0.0442757	3.3	0.0518259	3.3	0.0593742
6.8	0.1031962	3.4	0.0432817	3.4	0.0521206	3.4	0.0592888
7	0.0986048	3.5	0.0440039	3.5	0.0530851	3.5	0.0601952
7.2	0.0961923	3.6	0.0430068	3.6	0.052637	3.6	0.0599828
7.4	0.0974459	3.7	0.0420809	3.7	0.0526855	3.7	0.0607664
7.6	0.0994578	3.8	0.0416128	3.8	0.052305	3.8	0.0597391
7.8	0.1040564	3.9	0.04327	3.9	0.0520657	3.9	0.0605743
8	0.1195397	4	0.0436789	4	0.0538972	4	0.0600436
8.2	0.1106936	4.1	0.0438346	4.1	0.052203	4.1	0.0587477
8.4	0.124381	4.2	0.0429545	4.2	0.0523856	4.2	0.0616059
8.6	0.1157017	4.3	0.0433873	4.3	0.0547727	4.3	0.0614715
8.8	0.1209096	4.4	0.0429977	4.4	0.0538128	4.4	0.0614908
9	0.1198453	4.5	0.0445501	4.5	0.0532343	4.5	0.0613378
9.2	0.1167674	4.6	0.0466581	4.6	0.052625	4.6	0.060535
9.4	0.1264786	4.7	0.0430998	4.7	0.0520888	4.7	0.0596583
9.6	0.1216597	4.8	0.0442162	4.8	0.0520127	4.8	0.0620933
9.8	0.1126141	4.9	0.0447174	4.9	0.0520702	4.9	0.0623627

10 0.1313215	5 0.0460405	5 0.0514708	5 0.0609881
10.2 0.1350482	5.1 0.045253	5.1 0.0513494	5.1 0.0607952
10.4 0.1449983	5.2 0.0443675	5.2 0.0516426	5.2 0.062513
10.6 0.14056	5.3 0.0437172	5.3 0.0501198	5.3 0.0621705
10.8 0.1491115	5.4 0.0439318	5.4 0.0527547	5.4 0.0618434
11 0.1446862	5.5 0.04256	5.5 0.0503897	5.5 0.0613565
11.2 0.143117	5.6 0.0434452	5.6 0.0498331	5.6 0.0614472
11.4 0.1533664	5.7 0.0447366	5.7 0.0503741	5.7 0.0622382
11.6 0.1580056	5.8 0.0458393	5.8 0.0482598	5.8 0.0634298
11.8 0.1589302	5.9 0.0440141	5.9 0.0527903	5.9 0.0615653
12 0.1770069	6 0.0439276	6 0.050806	6 0.0621448
12.2 0.1545282	6.1 0.0435841	6.1 0.0496873	6.1 0.0651733
12.4 0.1646321	6.2 0.0423124	6.2 0.0501247	6.2 0.0615532
12.6 0.1593848	6.3 0.0437969	6.3 0.0493216	6.3 0.0623572
12.8 0.1515767	6.4 0.0424054	6.4 0.0489695	6.4 0.0611289
13 0.1515549	6.5 0.0411982	6.5 0.0499154	6.5 0.0623367
13.2 0.1682676	6.6 0.0420451	6.6 0.0495651	6.6 0.0607264
13.4 0.168105	6.7 0.0447148	6.7 0.049734	6.7 0.0627891
13.6 0.1777874	6.8 0.0430773	6.8 0.0494241	6.8 0.0630946
13.8 0.1645332	6.9 0.0420218	6.9 0.0471356	6.9 0.0607643
14 0.1675283	7 0.0417453	7 0.0491416	7 0.0610346
14.2 0.1785501	7.1 0.0419382	7.1 0.0473897	7.1 0.0653845
14.4 0.1735147	7.2 0.0438807	7.2 0.0487676	7.2 0.0631796
14.6 0.1565581	7.3 0.041648	7.3 0.046265	7.3 0.0634807
14.8 0.1515355	7.4 0.0421183	7.4 0.047422	7.4 0.0619086
15 0.149304	7.5 0.0437885	7.5 0.0488842	7.5 0.0617341
15.2 0.1466982	7.6 0.0413884	7.6 0.0477383	7.6 0.0614705
15.4 0.1510212	7.7 0.0420337	7.7 0.0474785	7.7 0.0623675
15.6 0.1557958	7.8 0.0415806	7.8 0.0465313	7.8 0.0646477
15.8 0.1553149	7.9 0.0420629	7.9 0.0483991	7.9 0.0643511
16 0.1401555	8 0.0413493	8 0.048579	8 0.0648943
16.2 0.1585159	8.1 0.0445631	8.1 0.0503547	8.1 0.0628417
16.4 0.1465616	8.2 0.0435088	8.2 0.0479665	8.2 0.0639304
16.6 0.1567255	8.3 0.0436302	8.3 0.05004	8.3 0.0647735
16.8 0.1317644	8.4 0.0426783	8.4 0.0496989	8.4 0.0635611
17 0.1383128	8.5 0.0449162	8.5 0.0490246	8.5 0.0624439
17.2 0.15335	8.6 0.0454057	8.6 0.0490057	8.6 0.0623053
17.4 0.1450841	8.7 0.0414564	8.7 0.0492001	8.7 0.0618349
17.6 0.1662547	8.8 0.04317	8.8 0.0487099	8.8 0.0623254
17.8 0.1457437	8.9 0.0407458	8.9 0.0501085	8.9 0.0608084
18 0.1574528	9 0.0412889	9 0.0510015	9 0.0633214
18.2 0.1524717	9.1 0.0437276	9.1 0.0516854	9.1 0.062751
18.4 0.1483615	9.2 0.0412078	9.2 0.0494176	9.2 0.0635159
18.6 0.1468843	9.3 0.0416601	9.3 0.0504931	9.3 0.0649612
18.8 0.1468816	9.4 0.0415089	9.4 0.0514765	9.4 0.0620815
19 0.144947	9.5 0.0426451	9.5 0.0513988	9.5 0.0627713
19.2 0.1548489	9.6 0.0428119	9.6 0.0476884	9.6 0.0628633
19.4 0.1549797	9.7 0.0431891	9.7 0.0483402	9.7 0.0630216
19.6 0.1624313	9.8 0.040418	9.8 0.0478193	9.8 0.0613398
19.8 0.150385	9.9 0.0429349	9.9 0.0458981	9.9 0.062528
20 0.1560966	10 0.0421974	10 0.048854	10 0.0607978

20.2 0.1549377	10.1 0.0430735	10.1 0.0465581	10.1 0.0611137
20.4 0.1816117	10.2 0.0421155	10.2 0.0478975	10.2 0.0614967
20.6 0.1639123	10.3 0.0408987	10.3 0.0508091	10.3 0.0610416
20.8 0.1629097	10.4 0.0408022	10.4 0.0498378	10.4 0.0584239
21 0.1709511	10.5 0.0430353	10.5 0.0494017	10.5 0.0604711
21.2 0.1556732	10.6 0.0391402	10.6 0.0480131	10.6 0.0609464
21.4 0.1584649	10.7 0.0393546	10.7 0.0473399	10.7 0.0591882
21.6 0.1651486	10.8 0.0389726	10.8 0.0477118	10.8 0.0606663
21.8 0.1588037	10.9 0.0401616	10.9 0.0514407	10.9 0.0620005
22 0.1902908	11 0.0397077	11 0.0460281	11 0.0619524
22.2 0.1751568	11.1 0.0459135	11.1 0.0493333	11.1 0.0592316
22.4 0.1778809	11.2 0.0413137	11.2 0.0453232	11.2 0.0609261
22.6 0.1767493	11.3 0.0392799	11.3 0.0491777	11.3 0.0633324
22.8 0.1825109	11.4 0.0415252	11.4 0.0476748	11.4 0.0593656
23 0.1666802	11.5 0.0395478	11.5 0.0480642	11.5 0.059274
23.2 0.173237	11.6 0.0406876	11.6 0.0447651	11.6 0.0615672
23.4 0.1773818	11.7 0.0414611	11.7 0.0479725	11.7 0.0597832
23.6 0.1718352	11.8 0.0416119	11.8 0.0463223	11.8 0.0607456
23.8 0.1704234	11.9 0.041403	11.9 0.0475794	11.9 0.0619096
24 0.1623975	12 0.0416038	12 0.0478904	12 0.0590986
24.2 0.1746973	12.1 0.0406139	12.1 0.0468237	12.1 0.0591134
24.4 0.1645537	12.2 0.0442604	12.2 0.0467613	12.2 0.0572845
24.6 0.159196	12.3 0.0435016	12.3 0.0461308	12.3 0.0608857
24.8 0.1555321	12.4 0.042867	12.4 0.0453547	12.4 0.0579691
25 0.1817458	12.5 0.0449182	12.5 0.0471886	12.5 0.0598339
25.2 0.1709451	12.6 0.0408423	12.6 0.0469066	12.6 0.0591425
25.4 0.1744588	12.7 0.0392598	12.7 0.0480474	12.7 0.0601839
25.6 0.1687978	12.8 0.041342	12.8 0.0490168	12.8 0.0598318
25.8 0.1626354	12.9 0.0421581	12.9 0.0444749	12.9 0.0590259
26 0.1760733	13 0.0414322	13 0.0468781	13 0.0587914
26.2 0.1744162	13.1 0.040236	13.1 0.0462488	13.1 0.0582134
26.4 0.1701913	13.2 0.0438455	13.2 0.0491298	13.2 0.0598607
26.6 0.1601536	13.3 0.0425397	13.3 0.0476142	13.3 0.0632631
26.8 0.1627638	13.4 0.0427513	13.4 0.0455155	13.4 0.0621867
27 0.1514153	13.5 0.0388344	13.5 0.0509162	13.5 0.0606662
27.2 0.1677054	13.6 0.0421993	13.6 0.0463998	13.6 0.0595697
27.4 0.1599954	13.7 0.0413627	13.7 0.0457558	13.7 0.0589377
27.6 0.1670729	13.8 0.0431214	13.8 0.0447609	13.8 0.0617174
27.8 0.1548882	13.9 0.0411086	13.9 0.0448559	13.9 0.0613909
28 0.1617066	14 0.0437719	14 0.0461432	14 0.0622085
28.2 0.1622142	14.1 0.0417063	14.1 0.0447008	14.1 0.0593244
28.4 0.1594042	14.2 0.0406593	14.2 0.0451196	14.2 0.0612652
28.6 0.1650496	14.3 0.0418868	14.3 0.0437902	14.3 0.0581553
28.8 0.1557886	14.4 0.0413672	14.4 0.0467519	14.4 0.0601784
29 0.1596171	14.5 0.0406881	14.5 0.0472547	14.5 0.0605338
29.2 0.159354	14.6 0.0428713	14.6 0.0482671	14.6 0.0599616
29.4 0.1717638	14.7 0.0392739	14.7 0.0479257	14.7 0.0581303
29.6 0.1624747	14.8 0.0400052	14.8 0.0470599	14.8 0.0580735
29.8 0.1696557	14.9 0.0402156	14.9 0.0479787	14.9 0.0620686
30 0.172016	15 0.0430117	15 0.0431712	15 0.0583928
30.2 0.1644893	15.1 0.0412222	15.1 0.0467575	15.1 0.0615056

30.4 0.1814804	15.2 0.0456906	15.2 0.0495343	15.2 0.057711
30.6 0.1611508	15.3 0.0432307	15.3 0.0479016	15.3 0.0581967
30.8 0.1562349	15.4 0.0433562	15.4 0.0485366	15.4 0.0596153
31 0.1774196	15.5 0.0451683	15.5 0.0476248	15.5 0.0589796
31.2 0.1670707	15.6 0.0463441	15.6 0.0481092	15.6 0.05889
31.4 0.1718054	15.7 0.0457821	15.7 0.0462591	15.7 0.0610621
31.6 0.1619368	15.8 0.0466738	15.8 0.0481778	15.8 0.0615719
31.8 0.179929	15.9 0.0455631	15.9 0.0470259	15.9 0.0604785
32 0.1822902	16 0.0443372	16 0.048744	16 0.0591318
32.2 0.1758957	16.1 0.0448652	16.1 0.0481134	16.1 0.0578835
32.4 0.1787279	16.2 0.0455249	16.2 0.0483403	16.2 0.0571843
32.6 0.1558489	16.3 0.0451624	16.3 0.0489433	16.3 0.0589228
32.8 0.1726806	16.4 0.043821	16.4 0.052153	16.4 0.0574605
33 0.1833312	16.5 0.0444992	16.5 0.0506547	16.5 0.0602954
33.2 0.15429	16.6 0.0458107	16.6 0.0537087	16.6 0.0587258
33.4 0.1620541	16.7 0.0444444	16.7 0.0507634	16.7 0.0597073
33.6 0.1557154	16.8 0.0419026	16.8 0.0501489	16.8 0.0585925
33.8 0.1701509	16.9 0.0414124	16.9 0.0525948	16.9 0.0584856
34 0.1595434	17 0.0412652	17 0.0502105	17 0.0583126
34.2 0.1774164	17.1 0.0448175	17.1 0.0511164	17.1 0.0574205
34.4 0.1535468	17.2 0.0420271	17.2 0.053437	17.2 0.058669
34.6 0.1662811	17.3 0.0422523	17.3 0.0534831	17.3 0.0598139
34.8 0.1568898	17.4 0.0481815	17.4 0.052553	17.4 0.0599763
35 0.1843396	17.5 0.0470527	17.5 0.0497916	17.5 0.0615167
35.2 0.1763861	17.6 0.0436818	17.6 0.052813	17.6 0.0588404
35.4 0.1621154	17.7 0.0451644	17.7 0.0496116	17.7 0.061328
35.6 0.1612982	17.8 0.0455512	17.8 0.047461	17.8 0.0605911
35.8 0.1568317	17.9 0.0459219	17.9 0.0481938	17.9 0.0613651
36 0.1800962	18 0.0466283	18 0.0515477	18 0.0581615
36.2 0.1886766	18.1 0.0460043	18.1 0.0490569	18.1 0.0620651
36.4 0.1814498	18.2 0.0453594	18.2 0.0498135	18.2 0.0584283
36.6 0.1570507	18.3 0.046772	18.3 0.0513775	18.3 0.0584777
36.8 0.1899983	18.4 0.0468115	18.4 0.0558401	18.4 0.0579435
37 0.1743417	18.5 0.0479866	18.5 0.0535147	18.5 0.0596333
37.2 0.1857434	18.6 0.0457614	18.6 0.054003	18.6 0.0577956
37.4 0.1939732	18.7 0.0459783	18.7 0.0516018	18.7 0.0606813
37.6 0.1802572	18.8 0.0512334	18.8 0.0509328	18.8 0.061033
37.8 0.1853569	18.9 0.0509878	18.9 0.0538089	18.9 0.0613791
38 0.1727091	19 0.0470494	19 0.0494368	19 0.0621538
38.2 0.180883	19.1 0.051437	19.1 0.0523226	19.1 0.0609794
38.4 0.1801447	19.2 0.0511351	19.2 0.0541517	19.2 0.0619651
38.6 0.1921195	19.3 0.0485224	19.3 0.049076	19.3 0.0598942
38.8 0.1752042	19.4 0.0560548	19.4 0.05478	19.4 0.0588517
39 0.1938436	19.5 0.0497372	19.5 0.0529698	19.5 0.0598375
39.2 0.1824174	19.6 0.0522751	19.6 0.0517903	19.6 0.0590133
39.4 0.1611297	19.7 0.0453249	19.7 0.0498591	19.7 0.0597044
39.6 0.1699016	19.8 0.0504896	19.8 0.0490519	19.8 0.0606847
39.8 0.1791973	19.9 0.0506226	19.9 0.0521749	19.9 0.0620985
40 0.1572369	20 0.0521388	20 0.0493918	20 0.0614744
40.2 0.1777538	20.1 0.0480544	20.1 0.0541241	20.1 0.056466
40.4 0.1745379	20.2 0.0479526	20.2 0.0528648	20.2 0.0588429

40.6 0.1640254	20.3 0.0497638	20.3 0.0524622	20.3 0.0621434
40.8 0.1625732	20.4 0.0513478	20.4 0.0496551	20.4 0.0583001
41 0.1515951	20.5 0.0494995	20.5 0.0528741	20.5 0.0622155
41.2 0.1727027	20.6 0.0482832	20.6 0.0531107	20.6 0.0616549
41.4 0.1733899	20.7 0.0503135	20.7 0.0525923	20.7 0.0612391
41.6 0.1677094	20.8 0.048624	20.8 0.0519874	20.8 0.0600241
41.8 0.1828769	20.9 0.0454337	20.9 0.0508119	20.9 0.0602075
42 0.1798524	21 0.0440256	21 0.0530818	21 0.0585897
42.2 0.1695946	21.1 0.0460554	21.1 0.0490985	21.1 0.0608083
42.4 0.1523659	21.2 0.0475354	21.2 0.0502438	21.2 0.0608529
42.6 0.1548451	21.3 0.0514367	21.3 0.0530423	21.3 0.0604732
42.8 0.1608988	21.4 0.0477659	21.4 0.0516873	21.4 0.058911
43 0.1559395	21.5 0.0473715	21.5 0.0491184	21.5 0.0591034
43.2 0.1666134	21.6 0.0491201	21.6 0.0500565	21.6 0.0573398
43.4 0.1608501	21.7 0.0477775	21.7 0.050677	21.7 0.0620233
43.6 0.1626912	21.8 0.0487334	21.8 0.0518633	21.8 0.0607511
43.8 0.1678568	21.9 0.0495325	21.9 0.0527089	21.9 0.0620131
44 0.1686405	22 0.0508529	22 0.0519692	22 0.0615685
44.2 0.17446	22.1 0.0519417	22.1 0.0525123	22.1 0.0608874
44.4 0.1751096	22.2 0.0473319	22.2 0.053499	22.2 0.061936
44.6 0.1656732	22.3 0.0469648	22.3 0.0514487	22.3 0.0619336
44.8 0.1736387	22.4 0.0462998	22.4 0.051485	22.4 0.0630563
45 0.168538	22.5 0.0496968	22.5 0.0510668	22.5 0.0605602
45.2 0.174624	22.6 0.0521485	22.6 0.0493409	22.6 0.0608579
45.4 0.1761066	22.7 0.0441819	22.7 0.0513376	22.7 0.0573377
45.6 0.1647077	22.8 0.0451716	22.8 0.0548334	22.8 0.0593352
45.8 0.1584485	22.9 0.0510711	22.9 0.0536946	22.9 0.0605725
46 0.1696424	23 0.0465569	23 0.0565047	23 0.0582308
46.2 0.1713177	23.1 0.0506943	23.1 0.0543453	23.1 0.0614963
46.4 0.163376	23.2 0.05058	23.2 0.0495906	23.2 0.0623595
46.6 0.164596	23.3 0.0513867	23.3 0.0572909	23.3 0.0602028
46.8 0.148028	23.4 0.053067	23.4 0.0536875	23.4 0.0619889
47 0.1547588	23.5 0.0508759	23.5 0.0527398	23.5 0.0619193
47.2 0.168072	23.6 0.0541019	23.6 0.0517238	23.6 0.060951
47.4 0.1686524	23.7 0.0574779	23.7 0.0514456	23.7 0.0632106
47.6 0.1467108	23.8 0.0563679	23.8 0.0536241	23.8 0.0601041
47.8 0.1623086	23.9 0.0576178	23.9 0.0503432	23.9 0.0645573
48 0.1505749	24 0.0516519	24 0.0510188	24 0.0641263
48.2 0.1573127	24.1 0.0572381	24.1 0.0518851	24.1 0.0598317
48.4 0.1600547	24.2 0.0601525	24.2 0.0514954	24.2 0.0613346
48.6 0.1596559	24.3 0.057195	24.3 0.0511387	24.3 0.0589348
48.8 0.1400725	24.4 0.0609011	24.4 0.0456077	24.4 0.0616427
49 0.1523082	24.5 0.0533929	24.5 0.0525109	24.5 0.062101
49.2 0.1495515	24.6 0.0514793	24.6 0.0514128	24.6 0.0608478
49.4 0.1276284	24.7 0.0529632	24.7 0.0509469	24.7 0.0599706
49.6 0.1541666	24.8 0.0566061	24.8 0.0476298	24.8 0.0623344
49.8 0.1422341	24.9 0.0542501	24.9 0.0497542	24.9 0.0624148
50 0.1609073	25 0.0589213	25 0.0508307	25 0.0620042
50.2 0.1499235	25.1 0.0610651	25.1 0.0499072	25.1 0.0620106
50.4 0.146255	25.2 0.0584894	25.2 0.0517203	25.2 0.0607081
50.6 0.1491915	25.3 0.0488626	25.3 0.048092	25.3 0.0617492

50.8 0.1465938	25.4 0.0510052	25.4 0.0508306	25.4 0.0624472
51 0.1413901	25.5 0.0557559	25.5 0.0479631	25.5 0.0592327
51.2 0.1439518	25.6 0.0542973	25.6 0.0485294	25.6 0.0608294
51.4 0.1390481	25.7 0.0538245	25.7 0.0512734	25.7 0.0611829
51.6 0.135788	25.8 0.0532262	25.8 0.0506763	25.8 0.0590139
51.8 0.1509079	25.9 0.0533482	25.9 0.04986	25.9 0.0607544
52 0.1489251	26 0.0510867	26 0.0465874	26 0.0601038
52.2 0.1510139	26.1 0.0533052	26.1 0.0504226	26.1 0.0607992
52.4 0.1522588	26.2 0.0528832	26.2 0.0505619	26.2 0.0615305
52.6 0.1451849	26.3 0.055814	26.3 0.0486344	26.3 0.060809
52.8 0.1475401	26.4 0.0516984	26.4 0.046461	26.4 0.0626497
53 0.1372386	26.5 0.0515528	26.5 0.0506768	26.5 0.064225
53.2 0.1465651	26.6 0.0473274	26.6 0.0497753	26.6 0.0671212
53.4 0.1512714	26.7 0.0472225	26.7 0.0502424	26.7 0.0640556
53.6 0.1526645	26.8 0.047969	26.8 0.0548854	26.8 0.0676888
53.8 0.1461778	26.9 0.0485607	26.9 0.0510048	26.9 0.0705405
54 0.1600874	27 0.0505465	27 0.0471148	27 0.0706542
54.2 0.1368943	27.1 0.0505651	27.1 0.0443429	27.1 0.0678153
54.4 0.1526204	27.2 0.0578477	27.2 0.0529286	27.2 0.0673219
54.6 0.1477517	27.3 0.054109	27.3 0.0469361	27.3 0.072466
54.8 0.1457046	27.4 0.0541959	27.4 0.0477457	27.4 0.0704649
55 0.156834	27.5 0.0549747	27.5 0.044675	27.5 0.0720856
55.2 0.1583403	27.6 0.0530638	27.6 0.0471793	27.6 0.0724121
55.4 0.1557273	27.7 0.0559338	27.7 0.0469016	27.7 0.0748936
55.6 0.144917	27.8 0.0461632	27.8 0.0443055	27.8 0.0715327
55.8 0.1500627	27.9 0.0515692	27.9 0.0503937	27.9 0.080136
56 0.1818079	28 0.0470643	28 0.042449	28 0.0720019
56.2 0.1506849	28.1 0.0460865	28.1 0.0498193	28.1 0.0714136
56.4 0.1467226	28.2 0.0499181	28.2 0.0456348	28.2 0.0717378
56.6 0.1539283	28.3 0.0499329	28.3 0.0441043	28.3 0.0698978
56.8 0.1596202	28.4 0.0481454	28.4 0.0538403	28.4 0.0715989
57 0.1589556	28.5 0.0516172	28.5 0.0476168	28.5 0.0754568
57.2 0.1609545	28.6 0.0540528	28.6 0.0455473	28.6 0.0829568
57.4 0.1481612	28.7 0.0489248	28.7 0.0481023	28.7 0.0821708
57.6 0.1482253	28.8 0.0484071	28.8 0.0445614	28.8 0.083543
57.8 0.1718022	28.9 0.0485319	28.9 0.0476147	28.9 0.0797175
58 0.1471397	29 0.0468008	29 0.0490353	29 0.0770935
58.2 0.1682497	29.1 0.0483527	29.1 0.0555213	29.1 0.0813389
58.4 0.1467764	29.2 0.0512	29.2 0.0695317	29.2 0.0783197
58.6 0.1620196	29.3 0.0468793	29.3 0.057564	29.3 0.0729622
58.8 0.1634152	29.4 0.0561207	29.4 0.0658818	29.4 0.0768182
59 0.1558642	29.5 0.0614542	29.5 0.0635368	29.5 0.0799876
59.2 0.1656869	29.6 0.0574233	29.6 0.0516245	29.6 0.0848726
59.4 0.1669631	29.7 0.048323	29.7 0.0592201	29.7 0.0776992
59.6 0.1718083	29.8 0.0587007	29.8 0.0639519	29.8 0.0829473
59.8 0.1626207	29.9 0.05425	29.9 0.0566264	29.9 0.0814417
60 0.1694227	30 0.0536558	30 0.0555214	30 0.0798885
60.2 0.1629838	30.1 0.059922	30.1 0.0535696	30.1 0.0906141
60.4 0.1625554	30.2 0.0557771	30.2 0.0604701	30.2 0.0815731
60.6 0.1669466	30.3 0.0542052	30.3 0.0574677	30.3 0.0868656
60.8 0.1704734	30.4 0.058547	30.4 0.0593856	30.4 0.0896869

61 0.178615	30.5 0.0558538	30.5 0.0712919	30.5 0.0969018
61.2 0.1724298	30.6 0.0671748	30.6 0.0572657	30.6 0.1063343
61.4 0.1542824	30.7 0.068186	30.7 0.0683248	30.7 0.1051986
61.6 0.1527638	30.8 0.0706989	30.8 0.0622143	30.8 0.0953124
61.8 0.1486578	30.9 0.0728841	30.9 0.0619501	30.9 0.0884708
62 0.155528	31 0.0605416	31 0.058636	31 0.0989536
62.2 0.1868951	31.1 0.0682091	31.1 0.0597348	31.1 0.1011606
62.4 0.1809218	31.2 0.0659217	31.2 0.0675723	31.2 0.1276349
62.6 0.1865646	31.3 0.0636129	31.3 0.0630357	31.3 0.1101086
62.8 0.1817426	31.4 0.0668185	31.4 0.0733751	31.4 0.1047783
63 0.1865513	31.5 0.0669546	31.5 0.0739411	31.5 0.1152796
63.2 0.1995114	31.6 0.0743973	31.6 0.085171	31.6 0.1087318
63.4 0.1894109	31.7 0.0728519	31.7 0.0865512	31.7 0.1173674
63.6 0.1931283	31.8 0.070061	31.8 0.0886538	31.8 0.1270064
63.8 0.1934327	31.9 0.0675349	31.9 0.0943984	31.9 0.1374453
64 0.1981905	32 0.0732806	32 0.073214	32 0.1229972
64.2 0.2084922	32.1 0.0657374	32.1 0.076832	32.1 0.1479429
64.4 0.1975323	32.2 0.0641338	32.2 0.0695585	32.2 0.1470495
64.6 0.1976016	32.3 0.0532595	32.3 0.0776497	32.3 0.1624827
64.8 0.1806788	32.4 0.0574436	32.4 0.0730249	32.4 0.2080224
65 0.1859617	32.5 0.0612927	32.5 0.0724437	32.5 0.1880649
65.2 0.1656334	32.6 0.059057	32.6 0.0636989	32.6 0.1940417
65.4 0.163657	32.7 0.0569699	32.7 0.071137	32.7 0.2215069
65.6 0.1600094	32.8 0.0711306	32.8 0.0655168	32.8 0.2149756
65.8 0.1595985	32.9 0.0669468	32.9 0.0863856	32.9 0.2176558
66 0.1774416	33 0.0695828	33 0.0852949	33 0.2428571
66.2 0.1745172	33.1 0.0642659	33.1 0.087403	33.1 0.2305034
66.4 0.1573398	33.2 0.0681356	33.2 0.0941368	33.2 0.2376313
66.6 0.182106	33.3 0.0627821	33.3 0.0994633	33.3 0.2676564
66.8 0.1629338	33.4 0.0627693	33.4 0.0922454	33.4 0.2884196
67 0.1777387	33.5 0.0713459	33.5 0.1005075	33.5 0.2382312
67.2 0.1658712	33.6 0.0647007	33.6 0.0895556	33.6 0.2241365
67.4 0.1538342	33.7 0.074782	33.7 0.089501	33.7 0.2247018
67.6 0.172524	33.8 0.0810207	33.8 0.0829596	33.8 0.2537871
67.8 0.1612616	33.9 0.0794087	33.9 0.0740698	33.9 0.2178742
68 0.1588191	34 0.0692528	34 0.0804297	34 0.236868
68.2 0.1657893	34.1 0.0701759	34.1 0.093165	34.1 0.2283661
68.4 0.1751591	34.2 0.0810254	34.2 0.0883888	34.2 0.2247903
68.6 0.1864138	34.3 0.0847017	34.3 0.0900109	34.3 0.1950984
68.8 0.173005	34.4 0.0974659	34.4 0.0895007	34.4 0.2007912
69 0.1776242	34.5 0.0879502	34.5 0.0963987	34.5 0.230104
69.2 0.1747692	34.6 0.0771393	34.6 0.0960041	34.6 0.1964021
69.4 0.1746901	34.7 0.0785595	34.7 0.1121321	34.7 0.1916101
69.6 0.1646936	34.8 0.052162	34.8 0.0813041	34.8 0.2205205
69.8 0.1787388	34.9 0.0739031	34.9 0.0877619	34.9 0.2367824
70 0.1672012	35 0.0635646	35 0.0798809	35 0.2137287
70.2 0.1505792	35.1 0.0774338	35.1 0.0829138	35.1 0.2068968
70.4 0.1497662	35.2 0.0683658	35.2 0.0892376	35.2 0.225076
70.6 0.1519	35.3 0.0700051	35.3 0.0900523	35.3 0.2019545
70.8 0.1593306	35.4 0.0701163	35.4 0.0917585	35.4 0.1856721
71 0.1602287	35.5 0.069677	35.5 0.0839461	35.5 0.1840772

71.2 0.1494959	35.6 0.0661562	35.6 0.0819051	35.6 0.164615
71.4 0.1474418	35.7 0.067365	35.7 0.0752392	35.7 0.1433135
71.6 0.1531922	35.8 0.0836265	35.8 0.0919774	35.8 0.1236012
71.8 0.1466367	35.9 0.0743799	35.9 0.0817031	35.9 0.1273364
72 0.163554	36 0.0711194	36 0.1066921	36 0.1360021
72.2 0.1526735	36.1 0.0747101	36.1 0.0967594	36.1 0.1250386
72.4 0.1578432	36.2 0.0858963	36.2 0.1068859	36.2 0.134299
72.6 0.1610814	36.3 0.0928896	36.3 0.0889919	36.3 0.1881521
72.8 0.1583406	36.4 0.0889433	36.4 0.0745679	36.4 0.2419725
73 0.1522307	36.5 0.1130515	36.5 0.0804748	36.5 0.2765736
73.2 0.1518179	36.6 0.0837815	36.6 0.0910622	36.6 0.2261457
73.4 0.1517729	36.7 0.0751702	36.7 0.0810429	36.7 0.1946344
73.6 0.1435198	36.8 0.0711834	36.8 0.090972	36.8 0.2593634
73.8 0.1445538	36.9 0.0768912	36.9 0.0991458	36.9 0.2303029
74 0.1370747	37 0.0794653	37 0.0833547	37 0.22065
74.2 0.143034	37.1 0.0896636	37.1 0.0930051	37.1 0.2442145
74.4 0.1520778	37.2 0.0851333	37.2 0.0936452	37.2 0.2688913
74.6 0.1745494	37.3 0.0819611	37.3 0.1156026	37.3 0.2312391
74.8 0.161341	37.4 0.0829136	37.4 0.0989121	37.4 0.2793886
75 0.177782	37.5 0.0864171	37.5 0.0938027	37.5 0.2883646
75.2 0.1635517	37.6 0.086095	37.6 0.0771975	37.6 0.2784639
75.4 0.1762281	37.7 0.0823504	37.7 0.0817904	37.7 0.2839281
75.6 0.1643776	37.8 0.0807755	37.8 0.0780774	37.8 0.2217891
75.8 0.1648189	37.9 0.0878915	37.9 0.0813421	37.9 0.2661872
76 0.1524592	38 0.1090872	38 0.0950478	38 0.208204
76.2 0.1599812	38.1 0.1102857	38.1 0.1020254	38.1 0.2389814
76.4 0.1576814	38.2 0.1389747	38.2 0.0789076	38.2 0.2484008
76.6 0.1483222	38.3 0.1589688	38.3 0.0943212	38.3 0.3025762
76.8 0.1744409	38.4 0.1302439	38.4 0.086212	38.4 0.3024977
77 0.1424649	38.5 0.1267596	38.5 0.0788408	38.5 0.3470727
77.2 0.1670278	38.6 0.1169199	38.6 0.0966351	38.6 0.3360313
77.4 0.173462	38.7 0.0808601	38.7 0.0862688	38.7 0.3239408
77.6 0.1692428	38.8 0.0773238	38.8 0.0974445	38.8 0.282348
77.8 0.1741801	38.9 0.1119487	38.9 0.0815197	38.9 0.2780306
78 0.171533	39 0.1183778	39 0.0895956	39 0.2753972
78.2 0.1716515	39.1 0.0849271	39.1 0.0720823	39.1 0.3322505
78.4 0.1577808	39.2 0.1125217	39.2 0.0790451	39.2 0.2664303
78.6 0.1743708	39.3 0.0901597	39.3 0.080075	39.3 0.2070368
78.8 0.1631088	39.4 0.1230427	39.4 0.0827251	39.4 0.2231231
79 0.1628037	39.5 0.0995053	39.5 0.0874027	39.5 0.2980572
79.2 0.1693767	39.6 0.072773	39.6 0.087311	39.6 0.2332581
79.4 0.1764183	39.7 0.066695	39.7 0.1015786	39.7 0.2229512
79.6 0.1651584	39.8 0.0788875	39.8 0.091196	39.8 0.2039493
79.8 0.175989	39.9 0.0722569	39.9 0.086368	39.9 0.1955869
80 0.1689602	40 0.065333	40 0.0753612	40 0.1742084
80.2 0.1703711	40.1 0.0679196	40.1 0.0928715	40.1 0.1579886
80.4 0.1732897	40.2 0.0762565	40.2 0.0861591	40.2 0.1878214
80.6 0.1594328	40.3 0.0846436	40.3 0.0946684	40.3 0.1942735
80.8 0.1631002	40.4 0.0597456	40.4 0.085013	40.4 0.1799408
81 0.1767227	40.5 0.08023	40.5 0.1008264	40.5 0.1871987
81.2 0.1763268	40.6 0.0770523	40.6 0.1009941	40.6 0.1815715

81.4 0.1757541	40.7 0.086222	40.7 0.0813834	40.7 0.2032288
81.6 0.1654275	40.8 0.0829514	40.8 0.1040478	40.8 0.2151429
81.8 0.1572278	40.9 0.0722168	40.9 0.0955814	40.9 0.2216828
82 0.1701751	41 0.067584	41 0.0890248	41 0.1837981
82.2 0.1770207	41.1 0.0919056	41.1 0.0801453	41.1 0.2060045
82.4 0.1796787	41.2 0.0759784	41.2 0.0980966	41.2 0.2476544
82.6 0.1723537	41.3 0.0775805	41.3 0.0818521	41.3 0.2659273
82.8 0.1822063	41.4 0.0896589	41.4 0.1123964	41.4 0.2235032
83 0.169245	41.5 0.0918677	41.5 0.1032882	41.5 0.258224
83.2 0.1877942	41.6 0.0945339	41.6 0.0943809	41.6 0.2336233
83.4 0.1776221	41.7 0.0780874	41.7 0.092358	41.7 0.2561563
83.6 0.1883868	41.8 0.076866	41.8 0.1104368	41.8 0.2396589
83.8 0.1859992	41.9 0.0939268	41.9 0.1005215	41.9 0.2490303
84 0.165001	42 0.0826931	42 0.0944031	42 0.2728418
84.2 0.1667775	42.1 0.0853652	42.1 0.1387101	42.1 0.2559767
84.4 0.1770497	42.2 0.0911586	42.2 0.0862084	42.2 0.2947329
84.6 0.1747619	42.3 0.0797562	42.3 0.0890627	42.3 0.2893307
84.8 0.1783595	42.4 0.0629856	42.4 0.1104057	42.4 0.2807502
85 0.1698585	42.5 0.0626764	42.5 0.1262904	42.5 0.1938602
85.2 0.1683355	42.6 0.1039324	42.6 0.1157166	42.6 0.230901
85.4 0.1737272	42.7 0.0782475	42.7 0.1024164	42.7 0.1827431
85.6 0.1641928	42.8 0.0762897	42.8 0.0987858	42.8 0.2079545
85.8 0.1752711	42.9 0.1049079	42.9 0.0763819	42.9 0.1947239
86 0.1527431	43 0.145899	43 0.0997923	43 0.2179132
86.2 0.1528525	43.1 0.1239877	43.1 0.0786593	43.1 0.1941831
86.4 0.1628934	43.2 0.0731836	43.2 0.0696607	43.2 0.1719475
86.6 0.1554006	43.3 0.0831167	43.3 0.0981144	43.3 0.1956322
86.8 0.1592921	43.4 0.0729339	43.4 0.1047625	43.4 0.1984271
87 0.156218	43.5 0.0781088	43.5 0.1069102	43.5 0.1934722
87.2 0.1619034	43.6 0.0750586	43.6 0.0939197	43.6 0.154769
87.4 0.1628048	43.7 0.0843259	43.7 0.0879177	43.7 0.142149
87.6 0.153666	43.8 0.1254008	43.8 0.1093202	43.8 0.1536162
87.8 0.2072856	43.9 0.0842265	43.9 0.1237484	43.9 0.1848149
88 0.1808879	44 0.0870915	44 0.0984515	44 0.2005817
88.2 0.1860186	44.1 0.0808145	44.1 0.1369579	44.1 0.1256714
88.4 0.2062269	44.2 0.1085704	44.2 0.16219	44.2 0.1974402
88.6 0.1918464	44.3 0.0764878	44.3 0.1153141	44.3 0.1388847
88.8 0.1730932	44.4 0.0713698	44.4 0.1674258	44.4 0.1281964
89 0.1573578	44.5 0.0780149	44.5 0.1589091	44.5 0.1712272
89.2 0.1638602	44.6 0.0767399	44.6 0.1656371	44.6 0.1919759
89.4 0.1581164	44.7 0.0723598	44.7 0.1250253	44.7 0.2662873
89.6 0.1651841	44.8 0.0660634	44.8 0.1411455	44.8 0.1983569
89.8 0.1642048	44.9 0.0721061	44.9 0.1348173	44.9 0.1683657
90 0.1560749	45 0.0747665	45 0.1691806	45 0.2297383
90.2 0.1675825	45.1 0.0778892	45.1 0.1498467	45.1 0.2083839
90.4 0.1578961	45.2 0.0799744	45.2 0.1530991	45.2 0.1564513
90.6 0.1716381	45.3 0.092154	45.3 0.1543278	45.3 0.1920411
90.8 0.1721063	45.4 0.0748915	45.4 0.1508382	45.4 0.1977009
91 0.1592043	45.5 0.073005	45.5 0.1341352	45.5 0.170789
91.2 0.1701723	45.6 0.0762066	45.6 0.1624164	45.6 0.1657315
91.4 0.1561139	45.7 0.0843679	45.7 0.135573	45.7 0.1721916

91.6 0.1705716	45.8 0.0644464	45.8 0.1279823	45.8 0.1814814
91.8 0.1737504	45.9 0.0564199	45.9 0.1364769	45.9 0.1660527
92 0.1576292	46 0.0628313	46 0.1320072	46 0.1927673
92.2 0.1631012	46.1 0.0798022	46.1 0.1335188	46.1 0.1704674
92.4 0.1554749	46.2 0.0700601	46.2 0.1172298	46.2 0.1578418
92.6 0.157416	46.3 0.0694112	46.3 0.1446937	46.3 0.1976479
92.8 0.1638503	46.4 0.0735247	46.4 0.1200878	46.4 0.1689761
93 0.1582401	46.5 0.0785498	46.5 0.1312947	46.5 0.1852289
93.2 0.1652537	46.6 0.0856978	46.6 0.1380977	46.6 0.2230406
93.4 0.1593174	46.7 0.0796622	46.7 0.1267701	46.7 0.207615
93.6 0.171041	46.8 0.0668879	46.8 0.0915474	46.8 0.2286366
93.8 0.1523214	46.9 0.071864	46.9 0.123766	46.9 0.2443734
94 0.1479382	47 0.0689088	47 0.1073393	47 0.2478485
94.2 0.151735	47.1 0.0740214	47.1 0.159879	47.1 0.2341419
94.4 0.1663508	47.2 0.0710571	47.2 0.1105359	47.2 0.244532
94.6 0.1616237	47.3 0.0917393	47.3 0.142315	47.3 0.2385454
94.8 0.1616604	47.4 0.0922433	47.4 0.1513563	47.4 0.2501981
95 0.1648215	47.5 0.1114514	47.5 0.1460494	47.5 0.2121277
95.2 0.1665651	47.6 0.1039778	47.6 0.1604218	47.6 0.1795343
95.4 0.1746096	47.7 0.0855055	47.7 0.1856503	47.7 0.2192665
95.6 0.1846219	47.8 0.0837611	47.8 0.1501987	47.8 0.2095139
95.8 0.1799783	47.9 0.0863713	47.9 0.139962	47.9 0.2018874
96 0.1665421	48 0.1304732	48 0.1615386	48 0.2019975
96.2 0.200068	48.1 0.102675	48.1 0.1667519	48.1 0.2055532
96.4 0.173932	48.2 0.0850752	48.2 0.1719938	48.2 0.1681336
96.6 0.1809304	48.3 0.0903003	48.3 0.1811713	48.3 0.1881902
96.8 0.1839916	48.4 0.0810508	48.4 0.1621487	48.4 0.1769268
97 0.1723955	48.5 0.0972689	48.5 0.1516959	48.5 0.1701346
97.2 0.1921963	48.6 0.0971049	48.6 0.1367848	48.6 0.1957119
97.4 0.1800882	48.7 0.0749655	48.7 0.1525754	48.7 0.1957493
97.6 0.1790887	48.8 0.0735943	48.8 0.1400628	48.8 0.1893387
97.8 0.1645494	48.9 0.0904835	48.9 0.1656465	48.9 0.2086177
98 0.1671953	49 0.0737703	49 0.1283301	49 0.2011697
98.2 0.138821	49.1 0.0862235	49.1 0.1405119	49.1 0.2049622
98.4 0.1681744	49.2 0.0979472	49.2 0.1544376	49.2 0.1652174
98.6 0.1706243	49.3 0.0887523	49.3 0.1585382	49.3 0.1938816
98.8 0.1585904	49.4 0.0911481	49.4 0.1516271	49.4 0.1848368
99 0.1707035	49.5 0.096239	49.5 0.1649164	49.5 0.2292746
99.2 0.1681517	49.6 0.0895223	49.6 0.1694649	49.6 0.1903811
99.4 0.1569966	49.7 0.1155273	49.7 0.1368761	49.7 0.1677731
99.6 0.1577982	49.8 0.0999371	49.8 0.1572284	49.8 0.2238944
99.8 0.162878	49.9 0.1669864	49.9 0.1451177	49.9 0.2636708
100 0.1669048	50 0.117436	50 0.1473159	50 0.2890882
100.2 0.1683362	50.1 0.0985563	50.1 0.1479691	50.1 0.2750982
100.4 0.1447479	50.2 0.1017392	50.2 0.1599523	50.2 0.2374245
100.6 0.1543088	50.3 0.0834735	50.3 0.1329793	50.3 0.2055614
100.8 0.1575171	50.4 0.1092419	50.4 0.1374331	50.4 0.1809536
101 0.141118	50.5 0.1044926	50.5 0.1231305	50.5 0.2014376
101.2 0.152612	50.6 0.1139223	50.6 0.1211132	50.6 0.251462
101.4 0.1849592	50.7 0.1278146	50.7 0.1325695	50.7 0.3675255
101.6 0.1643067	50.8 0.1439504	50.8 0.1457501	50.8 0.2579785

101.8 0.1862704	50.9 0.1546001	50.9 0.152066	50.9 0.2658665
102 0.1649367	51 0.1576395	51 0.1397303	51 0.3114946
102.2 0.1649394	51.1 0.1292115	51.1 0.1449601	51.1 0.3045598
102.4 0.1702814	51.2 0.1716703	51.2 0.1474651	51.2 0.2763633
102.6 0.176766	51.3 0.1734017	51.3 0.1637652	51.3 0.2370177
102.8 0.1580234	51.4 0.1777008	51.4 0.1514103	51.4 0.2234972
103 0.1528354	51.5 0.1584636	51.5 0.1401077	51.5 0.2168039
103.2 0.1451304	51.6 0.1266347	51.6 0.1598556	51.6 0.200929
103.4 0.1330086	51.7 0.0930642	51.7 0.1571733	51.7 0.2103346
103.6 0.1642926	51.8 0.121373	51.8 0.1544742	51.8 0.2428946
103.8 0.1769722	51.9 0.0948714	51.9 0.1526102	51.9 0.2078503
104 0.1501289	52 0.1282753	52 0.1498572	52 0.2290778
104.2 0.1605258	52.1 0.094592	52.1 0.1262908	52.1 0.1686157
104.4 0.1982013	52.2 0.0827195	52.2 0.1105019	52.2 0.1718955
104.6 0.1782254	52.3 0.1521191	52.3 0.1326211	52.3 0.2399874
104.8 0.195813	52.4 0.0963706	52.4 0.1432875	52.4 0.1687989
105 0.1728889	52.5 0.1279236	52.5 0.1375847	52.5 0.2825765
105.2 0.1713673	52.6 0.112848	52.6 0.1641505	52.6 0.2414518
105.4 0.1693381	52.7 0.1431977	52.7 0.1264524	52.7 0.2431298
105.6 0.1702898	52.8 0.1394401	52.8 0.1282637	52.8 0.1718385
105.8 0.1535108	52.9 0.16162	52.9 0.1236735	52.9 0.1930741
106 0.1641144	53 0.1173479	53 0.1295536	53 0.1776374
106.2 0.1643611	53.1 0.1609303	53.1 0.1442787	53.1 0.2517781
106.4 0.1635956	53.2 0.152482	53.2 0.1424862	53.2 0.192271
106.6 0.1657919	53.3 0.1812327	53.3 0.1571632	53.3 0.256436
106.8 0.1681667	53.4 0.1058435	53.4 0.1515039	53.4 0.2323725
107 0.174241	53.5 0.1384458	53.5 0.1127018	53.5 0.248313
107.2 0.1809579	53.6 0.1000234	53.6 0.1259593	53.6 0.2112005
107.4 0.1687633	53.7 0.1482587	53.7 0.1218686	53.7 0.2488214
107.6 0.1562611	53.8 0.1824103	53.8 0.1469189	53.8 0.2616603
107.8 0.1832666	53.9 0.1066366	53.9 0.1069899	53.9 0.2218243
108 0.1685269	54 0.1602845	54 0.1139586	54 0.2665794
108.2 0.1873105	54.1 0.1368109	54.1 0.1138241	54.1 0.2117404
108.4 0.1961789	54.2 0.1331027	54.2 0.1469095	54.2 0.216059
108.6 0.1870539	54.3 0.1373697	54.3 0.1233091	54.3 0.2293181
108.8 0.184743	54.4 0.1182717	54.4 0.1304863	54.4 0.2052855
109 0.1849788	54.5 0.1533691	54.5 0.1238734	54.5 0.1952038
109.2 0.1903626	54.6 0.1896427	54.6 0.1147255	54.6 0.1967752
109.4 0.1853172	54.7 0.1646791	54.7 0.1351071	54.7 0.178925
109.6 0.1679539	54.8 0.1616527	54.8 0.1195923	54.8 0.2297604
109.8 0.1791184	54.9 0.1340855	54.9 0.1394695	54.9 0.2225468
110 0.1860107	55 0.1502868	55 0.1426543	55 0.2695636
110.2 0.1749258	55.1 0.1423142	55.1 0.1503265	55.1 0.2588519
110.4 0.1663781	55.2 0.1798621	55.2 0.1415938	55.2 0.2077366
110.6 0.1809672	55.3 0.1556744	55.3 0.1256468	55.3 0.2317196
110.8 0.1830546	55.4 0.2056572	55.4 0.170463	55.4 0.2295886
111 0.1603307	55.5 0.119034	55.5 0.1453535	55.5 0.2848304
111.2 0.1672998	55.6 0.1237089	55.6 0.1164301	55.6 0.2803354
111.4 0.1809535	55.7 0.1670768	55.7 0.1540652	55.7 0.2806795
111.6 0.1681574	55.8 0.1524605	55.8 0.1418754	55.8 0.2781556
111.8 0.1450931	55.9 0.1816141	55.9 0.1412531	55.9 0.3521907

112 0.1618543	56 0.1789946	56 0.1323385	56 0.3890127
112.2 0.1782764	56.1 0.1303048	56.1 0.128942	56.1 0.3517177
112.4 0.163662	56.2 0.1430102	56.2 0.1668638	56.2 0.3827932
112.6 0.1648128	56.3 0.1653103	56.3 0.1464897	56.3 0.3223523
112.8 0.1686151	56.4 0.1580786	56.4 0.1573447	56.4 0.3142944
113 0.1659538	56.5 0.1461101	56.5 0.1576891	56.5 0.3095824
113.2 0.1674787	56.6 0.1074099	56.6 0.1568919	56.6 0.2763383
113.4 0.1638277	56.7 0.1217537	56.7 0.1468653	56.7 0.2824047
113.6 0.1529964	56.8 0.1055929	56.8 0.1444827	56.8 0.2628982
113.8 0.1696942	56.9 0.0901843	56.9 0.1821616	56.9 0.3468313
114 0.1659953	57 0.1176805	57 0.1760333	57 0.3226362
114.2 0.1751048	57.1 0.1187933	57.1 0.1490742	57.1 0.2835224
114.4 0.1786343	57.2 0.1178261	57.2 0.1431809	57.2 0.3084936
114.6 0.1499158	57.3 0.0944068	57.3 0.1316193	57.3 0.2838579
114.8 0.1677137	57.4 0.1445232	57.4 0.1178298	57.4 0.2832146
115 0.1728371	57.5 0.127839	57.5 0.1479413	57.5 0.2544149
115.2 0.1811496	57.6 0.0782194	57.6 0.1491456	57.6 0.3116914
115.4 0.1682193	57.7 0.0850415	57.7 0.1670787	57.7 0.3042431
115.6 0.1761596	57.8 0.089156	57.8 0.1614339	57.8 0.2658905
115.8 0.1847233	57.9 0.2059544	57.9 0.1419253	57.9 0.2689447
116 0.1650401	58 0.2536789	58 0.1532305	58 0.3071641
116.2 0.1826561	58.1 0.1775277	58.1 0.1394439	58.1 0.2707707
116.4 0.179371	58.2 0.2149647	58.2 0.1463793	58.2 0.2087376
116.6 0.1921504	58.3 0.1669651	58.3 0.132927	58.3 0.212859
116.8 0.2209418	58.4 0.1590987	58.4 0.1488245	58.4 0.2358939
117 0.1816266	58.5 0.1187696	58.5 0.1232477	58.5 0.2264281
117.2 0.1818594	58.6 0.1298608	58.6 0.1486899	58.6 0.2360457
117.4 0.1843909	58.7 0.1954505	58.7 0.1765601	58.7 0.2191326
117.6 0.2027407	58.8 0.1989771	58.8 0.1510772	58.8 0.2073743
117.8 0.189803	58.9 0.1524609	58.9 0.143665	58.9 0.2225774
118 0.1884865	59 0.1600351	59 0.1268331	59 0.2468298
118.2 0.1763779	59.1 0.0834548	59.1 0.1329937	59.1 0.2824993
118.4 0.1871743	59.2 0.0936099	59.2 0.1523059	59.2 0.2693972
118.6 0.206466	59.3 0.0992475	59.3 0.1369701	59.3 0.2364137
118.8 0.1837845	59.4 0.1188393	59.4 0.1340205	59.4 0.2438857
119 0.200451	59.5 0.120559	59.5 0.129994	59.5 0.1996191
119.2 0.2032939	59.6 0.1240435	59.6 0.1251858	59.6 0.2076043
119.4 0.2231175	59.7 0.1259608	59.7 0.1417491	59.7 0.2252566
119.6 0.1968456	59.8 0.109106	59.8 0.1216359	59.8 0.2172407
119.8 0.225359	59.9 0.129144	59.9 0.1320314	59.9 0.1905222
120 0.200021	60 0.1223531	60 0.1572416	60 0.1747459
120.2 0.1995492	60.1 0.1113595	60.1 0.1543018	60.1 0.178156
120.4 0.2355444	60.2 0.1331574	60.2 0.1526423	60.2 0.1975768
120.6 0.1956534	60.3 0.1147988	60.3 0.1340788	60.3 0.3039143
120.8 0.2040495	60.4 0.1071868	60.4 0.137821	60.4 0.260594
121 0.1884777	60.5 0.118073	60.5 0.1357971	60.5 0.2784666
121.2 0.1993895	60.6 0.1380813	60.6 0.1661373	60.6 0.2455318
121.4 0.1991817	60.7 0.1034504	60.7 0.1455208	60.7 0.2189952
121.6 0.1870174	60.8 0.1176355	60.8 0.1423859	60.8 0.2243073
121.8 0.1853526	60.9 0.1254716	60.9 0.1500822	60.9 0.2298364
122 0.1835943	61 0.1232384	61 0.1579939	61 0.2239533

122.2 0.1758779	61.1 0.1022298	61.1 0.1566937	61.1 0.2035395
122.4 0.2040787	61.2 0.1042946	61.2 0.1407901	61.2 0.2150555
122.6 0.1920123	61.3 0.1001001	61.3 0.1619478	61.3 0.2002673
122.8 0.2058776	61.4 0.1399549	61.4 0.1524245	61.4 0.1841309
123 0.1876776	61.5 0.1015664	61.5 0.1932219	61.5 0.1916707
123.2 0.1993856	61.6 0.0770921	61.6 0.1231081	61.6 0.1954059
123.4 0.2096678	61.7 0.109136	61.7 0.1399534	61.7 0.1928935
123.6 0.1872865	61.8 0.1009279	61.8 0.1135685	61.8 0.1953369
123.8 0.1982848	61.9 0.0954423	61.9 0.1310446	61.9 0.2173133
124 0.1922891	62 0.0940072	62 0.1254511	62 0.2432695
124.2 0.2004985	62.1 0.1101293	62.1 0.1385206	62.1 0.2728336
124.4 0.1982172	62.2 0.1155482	62.2 0.1406415	62.2 0.3246446
124.6 0.2097024	62.3 0.1644315	62.3 0.1060274	62.3 0.4179833
124.8 0.1729286	62.4 0.1190335	62.4 0.164914	62.4 0.2624966
125 0.18308	62.5 0.1244336	62.5 0.1555004	62.5 0.2889863
125.2 0.1924028	62.6 0.1339443	62.6 0.1697638	62.6 0.2201124
125.4 0.1778072	62.7 0.1457849	62.7 0.1910448	62.7 0.2102174
125.6 0.1911057	62.8 0.1341459	62.8 0.1630276	62.8 0.1836003
125.8 0.1927783	62.9 0.1333285	62.9 0.1653434	62.9 0.2341318
126 0.1857789	63 0.1728906	63 0.1325421	63 0.2647774
126.2 0.1846936	63.1 0.1406844	63.1 0.1065352	63.1 0.1979394
126.4 0.1828249	63.2 0.162678	63.2 0.1200756	63.2 0.2421322
126.6 0.1846932	63.3 0.1227126	63.3 0.1294765	63.3 0.1833558
126.8 0.1773318	63.4 0.1405399	63.4 0.1369849	63.4 0.2016248
127 0.1926914	63.5 0.1726454	63.5 0.1415405	63.5 0.2078303
127.2 0.1882065	63.6 0.1365149	63.6 0.1332129	63.6 0.2050522
127.4 0.1833696	63.7 0.1557667	63.7 0.1182181	63.7 0.2032523
127.6 0.1873437	63.8 0.1274395	63.8 0.1255433	63.8 0.2017928
127.8 0.1933497	63.9 0.1233083	63.9 0.1940997	63.9 0.2114106
128 0.1737659	64 0.1633296	64 0.142034	64 0.1976076
128.2 0.1722541	64.1 0.2013443	64.1 0.1386101	64.1 0.2246021
128.4 0.1753195	64.2 0.1518465	64.2 0.1599152	64.2 0.2279132
128.6 0.1746989	64.3 0.1076111	64.3 0.1352087	64.3 0.3047659
128.8 0.1910556	64.4 0.1344328	64.4 0.165048	64.4 0.3655491
129 0.1622337	64.5 0.1002979	64.5 0.1462139	64.5 0.2696784
129.2 0.1691915	64.6 0.123427	64.6 0.1523969	64.6 0.2884655
129.4 0.1633474	64.7 0.1127933	64.7 0.158162	64.7 0.2768839
129.6 0.1665773	64.8 0.1440603	64.8 0.1376873	64.8 0.2863668
129.8 0.1719011	64.9 0.1624983	64.9 0.19202	64.9 0.2226981
130 0.1598043	65 0.1508267	65 0.1446868	65 0.2643738
130.2 0.1544963	65.1 0.1609883	65.1 0.1959682	65.1 0.2408319
130.4 0.1653418	65.2 0.189171	65.2 0.1755416	65.2 0.2229702
130.6 0.1597828	65.3 0.1842883	65.3 0.1861159	65.3 0.1976486
130.8 0.1891209	65.4 0.1889832	65.4 0.1872326	65.4 0.2208132
131 0.1605563	65.5 0.1749915	65.5 0.163761	65.5 0.2194715
131.2 0.1656684	65.6 0.1813926	65.6 0.1892038	65.6 0.1951077
131.4 0.1580385	65.7 0.1498388	65.7 0.1651569	65.7 0.2366879
131.6 0.1755096	65.8 0.1751015	65.8 0.1559217	65.8 0.2438157
131.8 0.1733342	65.9 0.1427107	65.9 0.1325042	65.9 0.2281452
132 0.1507405	66 0.1339151	66 0.1550289	66 0.220247
132.2 0.1716974	66.1 0.1664863	66.1 0.1630817	66.1 0.1965899

132.4 0.1644547	66.2 0.1404227	66.2 0.1664719	66.2 0.2047474
132.6 0.1683222	66.3 0.1317884	66.3 0.1472775	66.3 0.2159776
132.8 0.1515508	66.4 0.1036379	66.4 0.1662848	66.4 0.2237515
133 0.1465525	66.5 0.1432501	66.5 0.1541289	66.5 0.2045822
133.2 0.1460826	66.6 0.126432	66.6 0.1469989	66.6 0.2249746
133.4 0.1424381	66.7 0.1084791	66.7 0.1661491	66.7 0.1879836
133.6 0.1220881	66.8 0.1010142	66.8 0.1458747	66.8 0.2375132
133.8 0.1427354	66.9 0.093554	66.9 0.1717124	66.9 0.1949346
134 0.1523837	67 0.1402117	67 0.1699656	67 0.1858555
134.2 0.1612658	67.1 0.1350367	67.1 0.1825035	67.1 0.1954758
134.4 0.1640409	67.2 0.0997282	67.2 0.1521984	67.2 0.186893
134.6 0.178187	67.3 0.1027584	67.3 0.1408024	67.3 0.2041587
134.8 0.1602517	67.4 0.1019444	67.4 0.1574658	67.4 0.2217972
135 0.1724908	67.5 0.0971618	67.5 0.1715058	67.5 0.218184
135.2 0.1704541	67.6 0.1581396	67.6 0.1675275	67.6 0.2340514
135.4 0.1563515	67.7 0.1191136	67.7 0.1999148	67.7 0.270479
135.6 0.158289	67.8 0.1197067	67.8 0.1845312	67.8 0.2454369
135.8 0.1620411	67.9 0.1266717	67.9 0.189231	67.9 0.2055165
136 0.1545907	68 0.0867482	68 0.1596237	68 0.2401995
136.2 0.147375	68.1 0.1083699	68.1 0.1421102	68.1 0.2413217
136.4 0.1475978	68.2 0.1012261	68.2 0.1436654	68.2 0.2750219
136.6 0.1450872	68.3 0.1107255	68.3 0.1559734	68.3 0.2838788
136.8 0.1527512	68.4 0.1129235	68.4 0.1715496	68.4 0.2835686
137 0.1554146	68.5 0.1212061	68.5 0.1614764	68.5 0.2465736
137.2 0.1520402	68.6 0.1472788	68.6 0.1706123	68.6 0.2595708
137.4 0.1516585	68.7 0.1051493	68.7 0.1714914	68.7 0.2848917
137.6 0.1466755	68.8 0.1410316	68.8 0.1766443	68.8 0.2585077
137.8 0.1425777	68.9 0.1371446	68.9 0.1717079	68.9 0.2362872
138 0.1429916	69 0.1464235	69 0.1513343	69 0.2545288
138.2 0.145593	69.1 0.1482898	69.1 0.1717441	69.1 0.2470323
138.4 0.1567432	69.2 0.1192618	69.2 0.1591145	69.2 0.2255131
138.6 0.1574932	69.3 0.1356247	69.3 0.1635404	69.3 0.2338756
138.8 0.1470532	69.4 0.1131699	69.4 0.1729056	69.4 0.235012
139 0.1494437	69.5 0.1098941	69.5 0.183297	69.5 0.2376352
139.2 0.152565	69.6 0.0988814	69.6 0.1838845	69.6 0.2317172
139.4 0.1682515	69.7 0.1616717	69.7 0.1834139	69.7 0.2121648
139.6 0.1626469	69.8 0.1434668	69.8 0.1893584	69.8 0.2350825
139.8 0.1517783	69.9 0.101462	69.9 0.1681295	69.9 0.2059392
140 0.1669803	70 0.136889	70 0.1619553	70 0.2110417
140.2 0.1801537	70.1 0.1492479	70.1 0.1568852	70.1 0.1922717
140.4 0.1646255	70.2 0.1102671	70.2 0.1708585	70.2 0.21523
140.6 0.1615576	70.3 0.1030531	70.3 0.1617888	70.3 0.2244255
140.8 0.1628834	70.4 0.1007175	70.4 0.1667179	70.4 0.2016487
141 0.1565687	70.5 0.0894407	70.5 0.1611279	70.5 0.2724542
141.2 0.1520403	70.6 0.125054	70.6 0.1911968	70.6 0.2519516
141.4 0.162553	70.7 0.1346303	70.7 0.1636929	70.7 0.276362
141.6 0.1866834	70.8 0.1511817	70.8 0.2030952	70.8 0.2617982
141.8 0.1782537	70.9 0.1781064	70.9 0.1526064	70.9 0.2293225
142 0.1789343	71 0.1335104	71 0.1625364	71 0.2068154
142.2 0.1811904	71.1 0.1358837	71.1 0.179779	71.1 0.2328642
142.4 0.16212	71.2 0.1437104	71.2 0.1738875	71.2 0.2449794

142.6 0.1826192	71.3 0.1677055	71.3 0.1929399	71.3 0.2336397
142.8 0.1681445	71.4 0.1345001	71.4 0.1713659	71.4 0.2332289
143 0.1747616	71.5 0.1180745	71.5 0.2056702	71.5 0.2320023
143.2 0.192751	71.6 0.1743484	71.6 0.1946243	71.6 0.2307872
143.4 0.1596552	71.7 0.1406505	71.7 0.1726719	71.7 0.2256953
143.6 0.1914569	71.8 0.1281406	71.8 0.1733138	71.8 0.2034628
143.8 0.1698475	71.9 0.1516474	71.9 0.1665292	71.9 0.3220297
144 0.1473506	72 0.1351261	72 0.1697857	72 0.2617356
144.2 0.1483624	72.1 0.1109038	72.1 0.1629704	72.1 0.1940514
144.4 0.1471896	72.2 0.1203631	72.2 0.1890874	72.2 0.243707
144.6 0.1502404	72.3 0.1534934	72.3 0.1534842	72.3 0.2313411
144.8 0.165938	72.4 0.1358725	72.4 0.1692173	72.4 0.2600754
145 0.1703297	72.5 0.1540777	72.5 0.173152	72.5 0.2563682
145.2 0.1732023	72.6 0.1341261	72.6 0.1593247	72.6 0.268957
145.4 0.1788134	72.7 0.1727523	72.7 0.1648643	72.7 0.2955748
145.6 0.1781424	72.8 0.1297215	72.8 0.1731259	72.8 0.2319272
145.8 0.1837186	72.9 0.1498496	72.9 0.1890487	72.9 0.2372415
146 0.189337	73 0.1476566	73 0.1889581	73 0.2760524
146.2 0.1727315	73.1 0.139833	73.1 0.1896458	73.1 0.2661446
146.4 0.1762545	73.2 0.1664774	73.2 0.1742851	73.2 0.2400968
146.6 0.1717395	73.3 0.1273532	73.3 0.1854365	73.3 0.2324676
146.8 0.1634557	73.4 0.110716	73.4 0.191377	73.4 0.2557553
147 0.1668731	73.5 0.116451	73.5 0.174253	73.5 0.237257
147.2 0.1836012	73.6 0.177634	73.6 0.1648333	73.6 0.2398263
147.4 0.1864861	73.7 0.1409954	73.7 0.1543277	73.7 0.2452228
147.6 0.1692994	73.8 0.1144573	73.8 0.168561	73.8 0.2331612
147.8 0.1956264	73.9 0.1189683	73.9 0.1687691	73.9 0.2529699
148 0.1711023	74 0.1175796	74 0.1433537	74 0.250312
148.2 0.1571622	74.1 0.104928	74.1 0.1587878	74.1 0.2608336
148.4 0.1724215	74.2 0.1321969	74.2 0.1615351	74.2 0.2257917
148.6 0.1823331	74.3 0.1538591	74.3 0.2055052	74.3 0.2115601
148.8 0.172587	74.4 0.1456188	74.4 0.1840295	74.4 0.2619378
149 0.1626868	74.5 0.1508999	74.5 0.1591361	74.5 0.2700983
149.2 0.1425854	74.6 0.153994	74.6 0.161406	74.6 0.2537865
149.4 0.1505319	74.7 0.1581871	74.7 0.1777021	74.7 0.2354564
149.6 0.1540098	74.8 0.1455367	74.8 0.1583119	74.8 0.231325
149.8 0.1596164	74.9 0.1401466	74.9 0.1704059	74.9 0.2337831
150 0.1497195	75 0.1420748	75 0.1669042	75 0.2457419
150.2 0.172773	75.1 0.1291163	75.1 0.1589347	75.1 0.2573657
150.4 0.1583709	75.2 0.1185697	75.2 0.1817313	75.2 0.2681122
150.6 0.1583548	75.3 0.1398437	75.3 0.1665521	75.3 0.2158379
150.8 0.1741691	75.4 0.1388172	75.4 0.1714555	75.4 0.2296241
151 0.1597434	75.5 0.1056438	75.5 0.1779587	75.5 0.2326927
151.2 0.1458032	75.6 0.110699	75.6 0.1768153	75.6 0.2390077
151.4 0.1507142	75.7 0.1232053	75.7 0.1809207	75.7 0.2529824
151.6 0.1562825	75.8 0.0884331	75.8 0.2001328	75.8 0.2700046
151.8 0.1450214	75.9 0.1130488	75.9 0.1867404	75.9 0.2585502
152 0.1493221	76 0.112241	76 0.1414215	76 0.3306483
152.2 0.1460422	76.1 0.1076607	76.1 0.1878629	76.1 0.2419146
152.4 0.15715	76.2 0.1232531	76.2 0.1821291	76.2 0.2204902
152.6 0.1581388	76.3 0.1177828	76.3 0.1790225	76.3 0.2113959

152.8 0.1612097	76.4 0.1429987	76.4 0.2033869	76.4 0.2178703
153 0.1507135	76.5 0.1158276	76.5 0.1898074	76.5 0.2210038
153.2 0.1481637	76.6 0.1188113	76.6 0.1757575	76.6 0.2139768
153.4 0.1590893	76.7 0.1080977	76.7 0.2208555	76.7 0.2102852
153.6 0.1741849	76.8 0.1330972	76.8 0.192468	76.8 0.2268077
153.8 0.1573754	76.9 0.1284652	76.9 0.1936846	76.9 0.2912803
154 0.1696177	77 0.1223323	77 0.1774173	77 0.3359644
154.2 0.1632734	77.1 0.1265427	77.1 0.1838977	77.1 0.3235975
154.4 0.1484519	77.2 0.1522213	77.2 0.1731127	77.2 0.3658567
154.6 0.1545104	77.3 0.1196806	77.3 0.1668322	77.3 0.3820032
154.8 0.1617143	77.4 0.1410399	77.4 0.1696959	77.4 0.3192082
155 0.1789761	77.5 0.1467778	77.5 0.1706338	77.5 0.3408603
155.2 0.1622843	77.6 0.1441365	77.6 0.1716686	77.6 0.2860971
155.4 0.1651837	77.7 0.2103091	77.7 0.1746006	77.7 0.2287952
155.6 0.1500794	77.8 0.142694	77.8 0.170076	77.8 0.2215499
155.8 0.1625047	77.9 0.1514185	77.9 0.1862255	77.9 0.2199601
156 0.1868984	78 0.1687867	78 0.1797645	78 0.2233452
156.2 0.1796397	78.1 0.1672352	78.1 0.1686518	78.1 0.2215735
156.4 0.1773502	78.2 0.1392522	78.2 0.1753054	78.2 0.2304816
156.6 0.1846268	78.3 0.14723	78.3 0.1740579	78.3 0.2167698
156.8 0.1689802	78.4 0.1479558	78.4 0.1775374	78.4 0.243869
157 0.1868576	78.5 0.1444235	78.5 0.1406471	78.5 0.2550362
157.2 0.1675683	78.6 0.168117	78.6 0.1526291	78.6 0.2302271
157.4 0.1607468	78.7 0.1317503	78.7 0.1411684	78.7 0.2431872
157.6 0.1755269	78.8 0.1316619	78.8 0.1583993	78.8 0.2225951
157.8 0.1531644	78.9 0.1521505	78.9 0.1581401	78.9 0.2230075
158 0.1631156	79 0.1364653	79 0.1666306	79 0.2822971
158.2 0.165887	79.1 0.1497289	79.1 0.1855248	79.1 0.1871216
158.4 0.1510043	79.2 0.0975556	79.2 0.1661633	79.2 0.2378256
158.6 0.1561752	79.3 0.1593398	79.3 0.1666415	79.3 0.1868765
158.8 0.1549711	79.4 0.1103479	79.4 0.1467694	79.4 0.2130671
159 0.1631871	79.5 0.1039261	79.5 0.1518521	79.5 0.1824538
159.2 0.1648823	79.6 0.1144936	79.6 0.1473722	79.6 0.2507569
159.4 0.1892494	79.7 0.0861397	79.7 0.1369639	79.7 0.246326
159.6 0.1651986	79.8 0.0949791	79.8 0.1508715	79.8 0.2219811
159.8 0.1860787	79.9 0.1108298	79.9 0.1381637	79.9 0.2058743
160 0.174404	80 0.0839734	80 0.1414299	80 0.2192483
160.2 0.1771235	80.1 0.0766085	80.1 0.1319885	80.1 0.2064085
160.4 0.1861691	80.2 0.0829296	80.2 0.1453766	80.2 0.1994949
160.6 0.1865326	80.3 0.0761049	80.3 0.1718573	80.3 0.2178702
160.8 0.1998456	80.4 0.0900481	80.4 0.1887683	80.4 0.206505
161 0.1773472	80.5 0.0831686	80.5 0.1797277	80.5 0.2371049
161.2 0.1847091	80.6 0.0951703	80.6 0.1778299	80.6 0.2488974
161.4 0.1809626	80.7 0.0952974	80.7 0.1935758	80.7 0.2139217
161.6 0.1706141	80.8 0.0885472	80.8 0.1763352	80.8 0.2223418
161.8 0.1737253	80.9 0.087936	80.9 0.1621996	80.9 0.1948224
162 0.1576057	81 0.0882902	81 0.1569605	81 0.1775952
162.2 0.1618338	81.1 0.096785	81.1 0.1486355	81.1 0.1979137
162.4 0.1807812	81.2 0.1044803	81.2 0.1712886	81.2 0.1955487
162.6 0.1723825	81.3 0.0966467	81.3 0.1600996	81.3 0.1903743
162.8 0.1881532	81.4 0.0928727	81.4 0.1527894	81.4 0.1849737

163 0.1618048	81.5 0.0976096	81.5 0.1569097	81.5 0.1924388
163.2 0.1627728	81.6 0.0870824	81.6 0.1638833	81.6 0.1906298
163.4 0.1499634	81.7 0.0765139	81.7 0.160211	81.7 0.2238422
163.6 0.1637746	81.8 0.0823636	81.8 0.1536092	81.8 0.182071
163.8 0.1604009	81.9 0.0901626	81.9 0.1762266	81.9 0.2158114
164 0.1666086	82 0.1110891	82 0.1764014	82 0.2089492
164.2 0.16767	82.1 0.119571	82.1 0.1646298	82.1 0.2296954
164.4 0.170665	82.2 0.0777527	82.2 0.1558637	82.2 0.1938884
164.6 0.1598447	82.3 0.0772582	82.3 0.1506947	82.3 0.2011671
164.8 0.1665946	82.4 0.0874967	82.4 0.1506996	82.4 0.2117289
165 0.1834396	82.5 0.0923669	82.5 0.1284193	82.5 0.1912617
165.2 0.1741958	82.6 0.0779019	82.6 0.1525014	82.6 0.2180814
165.4 0.1774025	82.7 0.0909154	82.7 0.1303803	82.7 0.188158
165.6 0.1735171	82.8 0.0933689	82.8 0.1374319	82.8 0.2008536
165.8 0.1784683	82.9 0.0830859	82.9 0.1492979	82.9 0.2492259
166 0.1635092	83 0.0946838	83 0.1518498	83 0.2128237
166.2 0.1673528	83.1 0.1071049	83.1 0.1722473	83.1 0.1959063
166.4 0.1614939	83.2 0.0857827	83.2 0.1678613	83.2 0.1910006
166.6 0.148565	83.3 0.0792339	83.3 0.1795646	83.3 0.2222049
166.8 0.1636754	83.4 0.1100377	83.4 0.1781053	83.4 0.2067232
167 0.1516504	83.5 0.0925308	83.5 0.1730509	83.5 0.2485539
167.2 0.1568791	83.6 0.0762621	83.6 0.1531706	83.6 0.1964973
167.4 0.1644025	83.7 0.0795343	83.7 0.1324664	83.7 0.2638178
167.6 0.1589973	83.8 0.0884805	83.8 0.1349208	83.8 0.2276208
167.8 0.1644752	83.9 0.07477	83.9 0.1452439	83.9 0.2177155
168 0.1567695	84 0.0978717	84 0.1318228	84 0.2532988
168.2 0.1717435	84.1 0.0812333	84.1 0.1374593	84.1 0.21677
168.4 0.1414955	84.2 0.0874631	84.2 0.182052	84.2 0.2175193
168.6 0.1529498	84.3 0.1074309	84.3 0.1550029	84.3 0.2175008
168.8 0.1538733	84.4 0.0720988	84.4 0.1561714	84.4 0.2268785
169 0.1460438	84.5 0.0765714	84.5 0.1500237	84.5 0.2084848
169.2 0.1617077	84.6 0.0974439	84.6 0.1402085	84.6 0.2373542
169.4 0.1474441	84.7 0.0808894	84.7 0.1482144	84.7 0.2854477
169.6 0.1476292	84.8 0.1004259	84.8 0.1474033	84.8 0.2967165
169.8 0.146203	84.9 0.0938521	84.9 0.1404558	84.9 0.3345467
170 0.1536823	85 0.0910262	85 0.1182836	85 0.2886715
170.2 0.14619	85.1 0.1002555	85.1 0.1482373	85.1 0.2579472
170.4 0.1585557	85.2 0.0937905	85.2 0.1342021	85.2 0.2717049
170.6 0.1475421	85.3 0.0788803	85.3 0.1474105	85.3 0.2390938
170.8 0.14073	85.4 0.0966683	85.4 0.147393	85.4 0.2523505
171 0.1530083	85.5 0.0972261	85.5 0.1561893	85.5 0.2954082
171.2 0.1508918	85.6 0.0889031	85.6 0.1616343	85.6 0.2078485
171.4 0.1410661	85.7 0.0855506	85.7 0.1586586	85.7 0.3544221
171.6 0.1656097	85.8 0.0724394	85.8 0.154704	85.8 0.3120007
171.8 0.1397655	85.9 0.0837461	85.9 0.1402611	85.9 0.3342237
172 0.1499802	86 0.1044763	86 0.1563574	86 0.3067838
172.2 0.1472932	86.1 0.0802109	86.1 0.1649599	86.1 0.2905648
172.4 0.148769	86.2 0.0763625	86.2 0.1447725	86.2 0.3691044
172.6 0.1411707	86.3 0.0866293	86.3 0.1349889	86.3 0.3102713
172.8 0.1471224	86.4 0.0845856	86.4 0.1349041	86.4 0.3292892
173 0.1408879	86.5 0.0970828	86.5 0.1382252	86.5 0.2576289

173.2 0.1372546	86.6 0.1187214	86.6 0.1497851	86.6 0.2224734
173.4 0.1303046	86.7 0.0873315	86.7 0.1565381	86.7 0.2779154
173.6 0.1397768	86.8 0.0894511	86.8 0.1506213	86.8 0.2196991
173.8 0.1553232	86.9 0.0932715	86.9 0.1629668	86.9 0.217087
174 0.1540599	87 0.0978575	87 0.1717396	87 0.1837961
174.2 0.1468963	87.1 0.0783426	87.1 0.1618925	87.1 0.1726618
174.4 0.1425444	87.2 0.0959174	87.2 0.1187655	87.2 0.2266336
174.6 0.1346172	87.3 0.0901376	87.3 0.1375075	87.3 0.1969366
174.8 0.129408	87.4 0.0900821	87.4 0.1467361	87.4 0.2291006
175 0.1328005	87.5 0.085503	87.5 0.1399773	87.5 0.222382
175.2 0.1444959	87.6 0.0963807	87.6 0.1498432	87.6 0.2504416
175.4 0.1540263	87.7 0.1033727	87.7 0.1314832	87.7 0.2056817
175.6 0.1573249	87.8 0.1205942	87.8 0.1471177	87.8 0.2364988
175.8 0.1732204	87.9 0.1041536	87.9 0.1231869	87.9 0.2206463
176 0.1754419	88 0.1029434	88 0.134401	88 0.2490606
176.2 0.1722543	88.1 0.1001014	88.1 0.1337943	88.1 0.2336124
176.4 0.1688915	88.2 0.0919487	88.2 0.1344037	88.2 0.2017629
176.6 0.1919463	88.3 0.0822006	88.3 0.1228212	88.3 0.1864327
176.8 0.1835837	88.4 0.1003047	88.4 0.1299332	88.4 0.1831055
177 0.1766136	88.5 0.076832	88.5 0.1654982	88.5 0.1813109
177.2 0.1800298	88.6 0.0910803	88.6 0.1444297	88.6 0.2440796
177.4 0.1707458	88.7 0.0856472	88.7 0.145277	88.7 0.2634167
177.6 0.1827247	88.8 0.0926164	88.8 0.1345807	88.8 0.2739666
177.8 0.1838513	88.9 0.0823966	88.9 0.1751863	88.9 0.2443466
178 0.1855904	89 0.0909554	89 0.1706389	89 0.2476736
178.2 0.1754478	89.1 0.0819794	89.1 0.1379533	89.1 0.2103966
178.4 0.1875728	89.2 0.0966141	89.2 0.1383809	89.2 0.1917401
178.6 0.1673364	89.3 0.0905777	89.3 0.1149383	89.3 0.20382
178.8 0.1876389	89.4 0.0724214	89.4 0.1555722	89.4 0.1887756
179 0.1592584	89.5 0.0720041	89.5 0.1346462	89.5 0.1875065
179.2 0.1799089	89.6 0.0845578	89.6 0.1246994	89.6 0.2030137
179.4 0.1746939	89.7 0.0985647	89.7 0.1326033	89.7 0.1830648
179.6 0.1690094	89.8 0.0985774	89.8 0.1386097	89.8 0.1943635
179.8 0.1600183	89.9 0.0880338	89.9 0.1405485	89.9 0.2193826
180 0.1691134	90 0.0901356	90 0.145954	90 0.2338394
180.2 0.2073546	90.1 0.0878983	90.1 0.131947	90.1 0.2602968
180.4 0.1926873	90.2 0.1111733	90.2 0.1469195	90.2 0.2204664
180.6 0.1954705	90.3 0.1341438	90.3 0.161741	90.3 0.3057352
180.8 0.1809233	90.4 0.1267413	90.4 0.155292	90.4 0.2406325
181 0.1696636	90.5 0.0953717	90.5 0.1493876	90.5 0.2446134
181.2 0.1731946	90.6 0.0998949	90.6 0.1443757	90.6 0.1898413
181.4 0.178389	90.7 0.1314745	90.7 0.1464714	90.7 0.1954617
181.6 0.1864353	90.8 0.1234557	90.8 0.117768	90.8 0.1827793
181.8 0.1813388	90.9 0.1048369	90.9 0.1643814	90.9 0.1969351
182 0.1820922	91 0.1148194	91 0.1405751	91 0.2090528
182.2 0.1891034	91.1 0.1665071	91.1 0.118362	91.1 0.1795119
182.4 0.1583536	91.2 0.145391	91.2 0.1251841	91.2 0.2368197
182.6 0.1720205	91.3 0.1349216	91.3 0.1226765	91.3 0.2724234
182.8 0.1698051	91.4 0.1106828	91.4 0.1358545	91.4 0.217359
183 0.1477938	91.5 0.1026873	91.5 0.125835	91.5 0.1810599
183.2 0.1502291	91.6 0.1114423	91.6 0.1257057	91.6 0.1706038

183.4 0.1604258	91.7 0.1100429	91.7 0.110452	91.7 0.2132363
183.6 0.1594235	91.8 0.0928628	91.8 0.1607057	91.8 0.2245696
183.8 0.1631253	91.9 0.1090798	91.9 0.1618298	91.9 0.2132661
184 0.1527764	92 0.095114	92 0.1304724	92 0.2269273
184.2 0.1518919	92.1 0.1006049	92.1 0.1643486	92.1 0.2025024
184.4 0.1580614	92.2 0.1049966	92.2 0.1660564	92.2 0.198496
184.6 0.1491635	92.3 0.094576	92.3 0.1408423	92.3 0.1842778
184.8 0.1541644	92.4 0.0992421	92.4 0.1258534	92.4 0.2442495
185 0.1703163	92.5 0.0897067	92.5 0.1380158	92.5 0.2746247
185.2 0.1589679	92.6 0.1017438	92.6 0.1285391	92.6 0.2332481
185.4 0.162832	92.7 0.0898103	92.7 0.1270903	92.7 0.2264356
185.6 0.1462761	92.8 0.1062674	92.8 0.1221261	92.8 0.2382707
185.8 0.1452672	92.9 0.1175819	92.9 0.1251605	92.9 0.2529614
186 0.1561622	93 0.1065324	93 0.1170593	93 0.2361969
186.2 0.1641759	93.1 0.0961987	93.1 0.135208	93.1 0.334452
186.4 0.142145	93.2 0.1291807	93.2 0.1209142	93.2 0.2644539
186.6 0.1672418	93.3 0.1211412	93.3 0.1199857	93.3 0.2811836
186.8 0.1790355	93.4 0.1197757	93.4 0.1320354	93.4 0.2074447
187 0.161758	93.5 0.0936306	93.5 0.1462823	93.5 0.2196282
187.2 0.1717163	93.6 0.1033725	93.6 0.1554953	93.6 0.1816705
187.4 0.1646999	93.7 0.0991642	93.7 0.128618	93.7 0.1819771
187.6 0.1603845	93.8 0.1064681	93.8 0.137299	93.8 0.2011998
187.8 0.1639896	93.9 0.1096298	93.9 0.1224502	93.9 0.2450656
188 0.1642764	94 0.0872441	94 0.1282424	94 0.2089967
188.2 0.1645947	94.1 0.1089859	94.1 0.1335128	94.1 0.2776918
188.4 0.1700527	94.2 0.1020219	94.2 0.1276914	94.2 0.2308633
188.6 0.1719869	94.3 0.1107516	94.3 0.1472809	94.3 0.269486
188.8 0.1506229	94.4 0.0950446	94.4 0.1275346	94.4 0.3022886
189 0.1637235	94.5 0.1042386	94.5 0.1232806	94.5 0.2945297
189.2 0.1700169	94.6 0.0889885	94.6 0.1312928	94.6 0.2817217
189.4 0.1670276	94.7 0.0900619	94.7 0.112726	94.7 0.3079409
189.6 0.1726814	94.8 0.0834099	94.8 0.1228362	94.8 0.2796892
189.8 0.1493583	94.9 0.083047	94.9 0.1428732	94.9 0.2842191
190 0.1507319	95 0.0915662	95 0.1216091	95 0.2862729
190.2 0.1573082	95.1 0.0978182	95.1 0.1122213	95.1 0.2613071
190.4 0.1603308	95.2 0.0953201	95.2 0.1321997	95.2 0.2757319
190.6 0.158942	95.3 0.1124191	95.3 0.1311091	95.3 0.264214
190.8 0.1763324	95.4 0.0869386	95.4 0.1250066	95.4 0.2669315
191 0.1539185	95.5 0.0961812	95.5 0.1293911	95.5 0.2751331
191.2 0.1469263	95.6 0.1031182	95.6 0.1287414	95.6 0.2699267
191.4 0.15443	95.7 0.0990752	95.7 0.1219144	95.7 0.2841487
191.6 0.151034	95.8 0.0880083	95.8 0.1142781	95.8 0.3343089
191.8 0.1426976	95.9 0.0901059	95.9 0.1267071	95.9 0.4719877
192 0.1356628	96 0.0974852	96 0.1355056	96 0.4127892
192.2 0.1573039	96.1 0.0941956	96.1 0.1623472	96.1 0.4155384
192.4 0.1586469	96.2 0.075262	96.2 0.1529244	96.2 0.4189516
192.6 0.1491396	96.3 0.1170973	96.3 0.1342781	96.3 0.363451
192.8 0.1392861	96.4 0.1136033	96.4 0.1286249	96.4 0.3524157
193 0.167936	96.5 0.0864635	96.5 0.1283827	96.5 0.3179841
193.2 0.1631948	96.6 0.1015671	96.6 0.1566837	96.6 0.3210539
193.4 0.1485681	96.7 0.1019618	96.7 0.1341277	96.7 0.2559519

193.6 0.1683946	96.8 0.1100048	96.8 0.145542	96.8 0.2918933
193.8 0.1732797	96.9 0.0929904	96.9 0.1584683	96.9 0.2699875
194 0.1777398	97 0.0986447	97 0.1586498	97 0.3262269
194.2 0.1581272	97.1 0.1389127	97.1 0.1546795	97.1 0.3085487
194.4 0.1524233	97.2 0.0930864	97.2 0.1410307	97.2 0.3628516
194.6 0.1479591	97.3 0.1137461	97.3 0.1492317	97.3 0.3959828
194.8 0.1518839	97.4 0.1113826	97.4 0.1442873	97.4 0.3276641
195 0.1551774	97.5 0.1083687	97.5 0.1197772	97.5 0.3497677
195.2 0.1761737	97.6 0.1176219	97.6 0.1368874	97.6 0.3216364
195.4 0.1708273	97.7 0.0954286	97.7 0.1292307	97.7 0.3847595
195.6 0.1602592	97.8 0.1104867	97.8 0.1339441	97.8 0.3149383
195.8 0.1666481	97.9 0.0924157	97.9 0.1690281	97.9 0.3694551
196 0.1742512	98 0.0948929	98 0.1396873	98 0.307266
196.2 0.1844869	98.1 0.1003038	98.1 0.1555644	98.1 0.2919095
196.4 0.1701092	98.2 0.0921344	98.2 0.1428135	98.2 0.3300003
196.6 0.1451517	98.3 0.1003544	98.3 0.1377473	98.3 0.3347546
196.8 0.1519251	98.4 0.1150796	98.4 0.1376369	98.4 0.3315215
197 0.1668425	98.5 0.1355373	98.5 0.1315284	98.5 0.2735206
197.2 0.1482383	98.6 0.111829	98.6 0.1380754	98.6 0.242278
197.4 0.1556379	98.7 0.120823	98.7 0.1388419	98.7 0.2940704
197.6 0.1699854	98.8 0.1008892	98.8 0.1233363	98.8 0.2766812
197.8 0.1611774	98.9 0.100008	98.9 0.1080285	98.9 0.2890271
198 0.1491456	99 0.102246	99 0.1278038	99 0.299773
198.2 0.1548138	99.1 0.1092142	99.1 0.137817	99.1 0.3196529
198.4 0.1634197	99.2 0.135538	99.2 0.1305946	99.2 0.2742372
198.6 0.1527985	99.3 0.1149394	99.3 0.1138005	99.3 0.3059574
198.8 0.1381586	99.4 0.0994671	99.4 0.1208092	99.4 0.2582121
199 0.1413911	99.5 0.1305921	99.5 0.1178164	99.5 0.2590859
199.2 0.1454684	99.6 0.09409	99.6 0.1200634	99.6 0.248207
199.4 0.1721112	99.7 0.107392	99.7 0.1265571	99.7 0.2788996
199.6 0.1653469	99.8 0.1098864	99.8 0.1230599	99.8 0.2896404
199.8 0.1500316	99.9 0.1198468	99.9 0.1292801	99.9 0.2816982
200 0.1458162	100 0.094454	100 0.1314589	100 0.2661125
200.2 0.1530663	100.1 0.1466787	100.1 0.1259839	100.1 0.2791392
200.4 0.1653779	100.2 0.1107681	100.2 0.1222083	100.2 0.2565559
200.6 0.156132	100.3 0.1224391	100.3 0.1543659	100.3 0.2440682
200.8 0.1527483	100.4 0.1368523	100.4 0.1561253	100.4 0.2788154
201 0.1561067	100.5 0.1514851	100.5 0.1387324	100.5 0.28886
201.2 0.1500607	100.6 0.1391891	100.6 0.1395488	100.6 0.2649605
201.4 0.1500393	100.7 0.1370607	100.7 0.1196507	100.7 0.2716908
201.6 0.1532216	100.8 0.0894792	100.8 0.1229741	100.8 0.2213225
201.8 0.1567461	100.9 0.0926295	100.9 0.1195123	100.9 0.2663923
202 0.1507004	101 0.1147617	101 0.1432592	101 0.2625991
202.2 0.1614196	101.1 0.1094576	101.1 0.1183339	101.1 0.2053489
202.4 0.1561144	101.2 0.0927342	101.2 0.1359157	101.2 0.2186756
202.6 0.1446044	101.3 0.1301202	101.3 0.1253439	101.3 0.2404658
202.8 0.1444822	101.4 0.0803937	101.4 0.1297989	101.4 0.2172186
203 0.1364103	101.5 0.1200202	101.5 0.1405868	101.5 0.2280413
203.2 0.1353856	101.6 0.1010909	101.6 0.1695572	101.6 0.2271661
203.4 0.1362669	101.7 0.1022947	101.7 0.1467802	101.7 0.2696438
203.6 0.153491	101.8 0.0916818	101.8 0.1390576	101.8 0.257716

203.8 0.1574396	101.9 0.0930089	101.9 0.1372296	101.9 0.2497349
204 0.133708	102 0.1202299	102 0.1303313	102 0.2309761
204.2 0.1420465	102.1 0.0996381	102.1 0.148215	102.1 0.2860319
204.4 0.1510053	102.2 0.1087143	102.2 0.1319598	102.2 0.3700298
204.6 0.1570014	102.3 0.0976194	102.3 0.1457706	102.3 0.3925121
204.8 0.1717907	102.4 0.117612	102.4 0.1286608	102.4 0.4078487
205 0.1485407	102.5 0.1162012	102.5 0.1305243	102.5 0.3100123
205.2 0.1529422	102.6 0.0932384	102.6 0.1229332	102.6 0.3017801
205.4 0.1682529	102.7 0.0905819	102.7 0.123586	102.7 0.2721477
205.6 0.1692905	102.8 0.0969968	102.8 0.1289842	102.8 0.3465516
205.8 0.1725125	102.9 0.1097777	102.9 0.1294678	102.9 0.3039758
206 0.1536432	103 0.0999291	103 0.1225325	103 0.3603016
206.2 0.1643128	103.1 0.0928899	103.1 0.1288122	103.1 0.3310502
206.4 0.1415875	103.2 0.1057782	103.2 0.1338692	103.2 0.2533884
206.6 0.1907777	103.3 0.090144	103.3 0.1412367	103.3 0.2539137
206.8 0.178629	103.4 0.11987	103.4 0.1402358	103.4 0.2945054
207 0.1718957	103.5 0.1297735	103.5 0.1218835	103.5 0.3724947
207.2 0.1532483	103.6 0.1250856	103.6 0.1129225	103.6 0.2671159
207.4 0.1611791	103.7 0.1066222	103.7 0.143972	103.7 0.2594141
207.6 0.1567048	103.8 0.0971331	103.8 0.135955	103.8 0.2942285
207.8 0.146974	103.9 0.1114028	103.9 0.1362346	103.9 0.3273473
208 0.1584181	104 0.1115138	104 0.1277169	104 0.3725743
208.2 0.1557736	104.1 0.1281852	104.1 0.1381484	104.1 0.2791068
208.4 0.1440656	104.2 0.1400936	104.2 0.1406176	104.2 0.260776
208.6 0.1504473	104.3 0.1339683	104.3 0.1597785	104.3 0.2334812
208.8 0.1442689	104.4 0.1084615	104.4 0.1446966	104.4 0.2327284
209 0.1479912	104.5 0.1280686	104.5 0.1289995	104.5 0.2194802
209.2 0.1303383	104.6 0.1159526	104.6 0.100051	104.6 0.2451037
209.4 0.1458778	104.7 0.103489	104.7 0.1027133	104.7 0.2395734
209.6 0.1622697	104.8 0.1072918	104.8 0.1088191	104.8 0.2671749
209.8 0.1741103	104.9 0.1190132	104.9 0.1235209	104.9 0.2363131
210 0.1914532	105 0.129628	105 0.1476593	105 0.263238
210.2 0.1780572	105.1 0.1268513	105.1 0.1453847	105.1 0.2597227
210.4 0.1942535	105.2 0.1281819	105.2 0.1123605	105.2 0.3409113
210.6 0.1634031	105.3 0.1262192	105.3 0.1590441	105.3 0.2341079
210.8 0.1638798	105.4 0.1177124	105.4 0.1101765	105.4 0.2235533
211 0.1697768	105.5 0.1019664	105.5 0.1197847	105.5 0.2734121
211.2 0.1792059	105.6 0.1035227	105.6 0.1419215	105.6 0.2033828
211.4 0.1747452	105.7 0.1049479	105.7 0.1469215	105.7 0.2389239
211.6 0.1783518	105.8 0.1129646	105.8 0.137993	105.8 0.2003248
211.8 0.1779641	105.9 0.1419405	105.9 0.1487881	105.9 0.2200398
212 0.1867011	106 0.1306788	106 0.12889	106 0.2722512
212.2 0.1719045	106.1 0.130057	106.1 0.1343792	106.1 0.2468055
212.4 0.1916133	106.2 0.1169681	106.2 0.1472553	106.2 0.2063639
212.6 0.1953449	106.3 0.116348	106.3 0.1235393	106.3 0.2123005
212.8 0.173127	106.4 0.1048927	106.4 0.1301395	106.4 0.2609226
213 0.1916191	106.5 0.1112266	106.5 0.1182743	106.5 0.2140842
213.2 0.1800696	106.6 0.129454	106.6 0.1166164	106.6 0.1903287
213.4 0.183234	106.7 0.1503189	106.7 0.1161493	106.7 0.2067779
213.6 0.1861318	106.8 0.1362647	106.8 0.110261	106.8 0.2411481
213.8 0.1644825	106.9 0.1408146	106.9 0.1250694	106.9 0.2242135

214 0.1685101	107 0.1242175	107 0.1194634	107 0.2262161
214.2 0.1753829	107.1 0.1632574	107.1 0.1268924	107.1 0.2093921
214.4 0.1740087	107.2 0.1981043	107.2 0.1221072	107.2 0.2544583
214.6 0.1822148	107.3 0.17071	107.3 0.1535867	107.3 0.2541731
214.8 0.1618184	107.4 0.1426942	107.4 0.1427892	107.4 0.1869545
215 0.1573521	107.5 0.124498	107.5 0.1704948	107.5 0.2497374
215.2 0.1351682	107.6 0.1332602	107.6 0.148294	107.6 0.2016822
215.4 0.1650583	107.7 0.1035538	107.7 0.1625336	107.7 0.1951205
215.6 0.155255	107.8 0.1253224	107.8 0.1654172	107.8 0.1922615
215.8 0.1963196	107.9 0.1513342	107.9 0.142906	107.9 0.1922719
216 0.1889393	108 0.1105037	108 0.1654318	108 0.2369806
216.2 0.1565459	108.1 0.1058077	108.1 0.1582104	108.1 0.3525346
216.4 0.1779347	108.2 0.1044631	108.2 0.1454367	108.2 0.3270118
216.6 0.1797466	108.3 0.10679	108.3 0.1561651	108.3 0.2409442
216.8 0.1787908	108.4 0.1167817	108.4 0.1625099	108.4 0.2214797
217 0.1723947	108.5 0.1195305	108.5 0.1566712	108.5 0.2220118
217.2 0.176109	108.6 0.1069811	108.6 0.1383908	108.6 0.199697
217.4 0.160825	108.7 0.1429473	108.7 0.1492819	108.7 0.2138379
217.6 0.1619677	108.8 0.1403246	108.8 0.1398157	108.8 0.1898275
217.8 0.1577675	108.9 0.1246836	108.9 0.1504183	108.9 0.215281
218 0.1541004	109 0.145315	109 0.1285764	109 0.2060757
218.2 0.1628751	109.1 0.1420125	109.1 0.1489401	109.1 0.1790653
218.4 0.1644533	109.2 0.1296953	109.2 0.159617	109.2 0.1889412
218.6 0.1733192	109.3 0.1247989	109.3 0.1380498	109.3 0.1871699
218.8 0.1623988	109.4 0.1216694	109.4 0.1517115	109.4 0.159952
219 0.1642696	109.5 0.1333081	109.5 0.1459401	109.5 0.2009704
219.2 0.1738931	109.6 0.1206831	109.6 0.1559493	109.6 0.1776472
219.4 0.164887	109.7 0.1299232	109.7 0.1641221	109.7 0.2462734
219.6 0.1843249	109.8 0.1062524	109.8 0.1583257	109.8 0.2099981
219.8 0.170691	109.9 0.1119725	109.9 0.1608334	109.9 0.2287698
220 0.1771012	110 0.1216029	110 0.1561913	110 0.2461846
220.2 0.1633456	110.1 0.1004582	110.1 0.1517906	110.1 0.2602374
220.4 0.1591636	110.2 0.1083423	110.2 0.1480525	110.2 0.2290548
220.6 0.1523958	110.3 0.1029994	110.3 0.151438	110.3 0.2398539
220.8 0.1556958	110.4 0.0986298	110.4 0.1575633	110.4 0.1995029
221 0.155967	110.5 0.0919972	110.5 0.1606566	110.5 0.2298635
221.2 0.1554612	110.6 0.0953584	110.6 0.1378121	110.6 0.1794069
221.4 0.1639776	110.7 0.1323369	110.7 0.1631689	110.7 0.1904636
221.6 0.1341361	110.8 0.1415103	110.8 0.14875	110.8 0.219019
221.8 0.1476094	110.9 0.1048306	110.9 0.1484314	110.9 0.2175109
222 0.1442342	111 0.095049	111 0.1358515	111 0.2037828
222.2 0.1539536	111.1 0.0924522	111.1 0.1294335	111.1 0.2107927
222.4 0.141831	111.2 0.116772	111.2 0.1335198	111.2 0.2423245
222.6 0.1536043	111.3 0.0964914	111.3 0.1289781	111.3 0.2443727
222.8 0.1437295	111.4 0.0870716	111.4 0.1492877	111.4 0.2515342
223 0.1519521	111.5 0.1018471	111.5 0.1289113	111.5 0.2423873
223.2 0.1656375	111.6 0.1068802	111.6 0.129345	111.6 0.2354309
223.4 0.1574291	111.7 0.1505716	111.7 0.1361065	111.7 0.3452766
223.6 0.1712763	111.8 0.1532127	111.8 0.1461622	111.8 0.2849385
223.8 0.1625202	111.9 0.1086498	111.9 0.1486889	111.9 0.2535529
224 0.1613962	112 0.141852	112 0.1453968	112 0.2618076

224.2 0.1627393	112.1 0.1378908	112.1 0.1301346	112.1 0.2442168
224.4 0.1698412	112.2 0.1349312	112.2 0.1316223	112.2 0.2139789
224.6 0.1594506	112.3 0.1765794	112.3 0.1358415	112.3 0.2039674
224.8 0.1605333	112.4 0.1300981	112.4 0.1271239	112.4 0.2254897
225 0.1836335	112.5 0.1187257	112.5 0.1313864	112.5 0.2063914
225.2 0.1723294	112.6 0.1376104	112.6 0.1344219	112.6 0.2670428
225.4 0.1758634	112.7 0.1201385	112.7 0.1310951	112.7 0.3055583
225.6 0.1687194	112.8 0.1200347	112.8 0.1484795	112.8 0.3086075
225.8 0.1657524	112.9 0.1466769	112.9 0.129118	112.9 0.2700313
226 0.1601025	113 0.1491831	113 0.1321595	113 0.3078696
226.2 0.1784219	113.1 0.1472176	113.1 0.1567388	113.1 0.3059674
226.4 0.1902316	113.2 0.1201232	113.2 0.1460131	113.2 0.3026017
226.6 0.1615101	113.3 0.1734697	113.3 0.153895	113.3 0.3240688
226.8 0.161578	113.4 0.2042895	113.4 0.1547762	113.4 0.3310022
227 0.1644892	113.5 0.182029	113.5 0.1505743	113.5 0.2399269
227.2 0.1690872	113.6 0.1176416	113.6 0.1462412	113.6 0.2649703
227.4 0.1629136	113.7 0.1220118	113.7 0.1539365	113.7 0.2463333
227.6 0.1710992	113.8 0.1382729	113.8 0.1384281	113.8 0.2603227
227.8 0.1781393	113.9 0.1424094	113.9 0.1347196	113.9 0.2732939
228 0.1799435	114 0.1483549	114 0.1471701	114 0.2527511
228.2 0.1782131	114.1 0.1266857	114.1 0.1470511	114.1 0.2882674
228.4 0.1618188	114.2 0.1338426	114.2 0.1432912	114.2 0.3166486
228.6 0.1816532	114.3 0.1163709	114.3 0.1387983	114.3 0.2653016
228.8 0.1724897	114.4 0.1148795	114.4 0.1311127	114.4 0.3119508
229 0.1778945	114.5 0.140966	114.5 0.1289221	114.5 0.3423653
229.2 0.1824629	114.6 0.1325031	114.6 0.1299379	114.6 0.2583124
229.4 0.1794496	114.7 0.09222985	114.7 0.1330563	114.7 0.2806996
229.6 0.1836977	114.8 0.1321272	114.8 0.1374167	114.8 0.2600348
229.8 0.2019171	114.9 0.1031408	114.9 0.1480384	114.9 0.2155443
230 0.191661	115 0.1016338	115 0.1462952	115 0.2957478
230.2 0.1732102	115.1 0.1157559	115.1 0.1549487	115.1 0.22794
230.4 0.1453719	115.2 0.0975155	115.2 0.1522602	115.2 0.2306035
230.6 0.1723751	115.3 0.0899662	115.3 0.169064	115.3 0.2332852
230.8 0.1563743	115.4 0.0926639	115.4 0.1532373	115.4 0.22594
231 0.1592453	115.5 0.1072757	115.5 0.1402137	115.5 0.2495279
231.2 0.1550459	115.6 0.1047775	115.6 0.1483159	115.6 0.3211313
231.4 0.1832904	115.7 0.1019425	115.7 0.1687111	115.7 0.2559809
231.6 0.1940945	115.8 0.1232706	115.8 0.1479001	115.8 0.2602804
231.8 0.1904362	115.9 0.1267303	115.9 0.1542901	115.9 0.2213038
232 0.1674567	116 0.1230657	116 0.1314317	116 0.2251
232.2 0.1706583	116.1 0.1085624	116.1 0.1322253	116.1 0.2536506
232.4 0.1781895	116.2 0.1409277	116.2 0.1361891	116.2 0.2382275
232.6 0.1679488	116.3 0.1219743	116.3 0.1366968	116.3 0.2666972
232.8 0.1658941	116.4 0.1095822	116.4 0.1342907	116.4 0.2440159
233 0.1648555	116.5 0.1106959	116.5 0.147459	116.5 0.2427953
233.2 0.1724726	116.6 0.1211369	116.6 0.1430146	116.6 0.304922
233.4 0.1590315	116.7 0.1153809	116.7 0.1685711	116.7 0.2822942
233.6 0.1762879	116.8 0.1484565	116.8 0.1659102	116.8 0.2146574
233.8 0.1659409	116.9 0.1173026	116.9 0.1433109	116.9 0.210454
234 0.1691763	117 0.1544673	117 0.1327897	117 0.2646855
234.2 0.1674971	117.1 0.1059765	117.1 0.1569802	117.1 0.3207412

234.4 0.1948745	117.2 0.1147229	117.2 0.1190714	117.2 0.2522537
234.6 0.1882368	117.3 0.0919929	117.3 0.1477636	117.3 0.2878285
234.8 0.161616	117.4 0.1089526	117.4 0.1501045	117.4 0.3466864
235 0.199295	117.5 0.1077112	117.5 0.1582704	117.5 0.2924418
235.2 0.1707383	117.6 0.1107705	117.6 0.1556464	117.6 0.240605
235.4 0.1478383	117.7 0.105539	117.7 0.158386	117.7 0.269
235.6 0.1797906	117.8 0.116184	117.8 0.1515491	117.8 0.2187936
235.8 0.1710571	117.9 0.1114482	117.9 0.1442568	117.9 0.2222948
236 0.1761339	118 0.1061596	118 0.1361583	118 0.222794
236.2 0.1750512	118.1 0.1080951	118.1 0.1258592	118.1 0.2812544
236.4 0.1672094	118.2 0.1068645	118.2 0.1393078	118.2 0.2295411
236.6 0.157221	118.3 0.1076789	118.3 0.1330332	118.3 0.2424849
236.8 0.1797032	118.4 0.1115028	118.4 0.1342788	118.4 0.2861477
237 0.1672414	118.5 0.0982478	118.5 0.1327687	118.5 0.2370554
237.2 0.1892021	118.6 0.091754	118.6 0.1513646	118.6 0.2480865
237.4 0.1996594	118.7 0.0930189	118.7 0.1605666	118.7 0.2607935
237.6 0.1830322	118.8 0.0932766	118.8 0.1605715	118.8 0.231226
237.8 0.1612255	118.9 0.1019535	118.9 0.1575756	118.9 0.2270888
238 0.1562592	119 0.0947845	119 0.1494278	119 0.2315526
238.2 0.1714559	119.1 0.1093928	119.1 0.1621226	119.1 0.2365264
238.4 0.1754219	119.2 0.0916837	119.2 0.1518318	119.2 0.2205682
238.6 0.1730472	119.3 0.129891	119.3 0.1599573	119.3 0.2195241
238.8 0.1609258	119.4 0.121953	119.4 0.1416632	119.4 0.3020259
239 0.1750613	119.5 0.0991974	119.5 0.14721	119.5 0.2688535
239.2 0.1513883	119.6 0.0956793	119.6 0.1552921	119.6 0.2317746
239.4 0.1607494	119.7 0.084616	119.7 0.1404215	119.7 0.2271171
239.6 0.1738373	119.8 0.0963619	119.8 0.1697204	119.8 0.2421206
239.8 0.1609336	119.9 0.1264537	119.9 0.1529968	119.9 0.23628
240 0.1504421	120 0.0968744	120 0.1374371	120 0.2235493
240.2 0.1535031	120.1 0.1218679	120.1 0.1417251	120.1 0.2598478
240.4 0.1547316	120.2 0.1063737	120.2 0.1602353	120.2 0.2397801
240.6 0.1675461	120.3 0.1018364	120.3 0.1497326	120.3 0.2326447
240.8 0.1444932	120.4 0.0963167	120.4 0.145984	120.4 0.2913237
241 0.1639204	120.5 0.1179897	120.5 0.1616121	120.5 0.2277039
241.2 0.160298	120.6 0.118157	120.6 0.1334866	120.6 0.2182049
241.4 0.1752897	120.7 0.0857749	120.7 0.1380815	120.7 0.2196652
241.6 0.1873815	120.8 0.085138	120.8 0.1207719	120.8 0.2073988
241.8 0.1539884	120.9 0.0928924	120.9 0.1175731	120.9 0.2155772
242 0.1531876	121 0.0993124	121 0.1359415	121 0.2846516
242.2 0.1589444	121.1 0.1049576	121.1 0.1257184	121.1 0.2419681
242.4 0.1660646	121.2 0.0886605	121.2 0.1398757	121.2 0.2156561
242.6 0.1616683	121.3 0.0837066	121.3 0.137182	121.3 0.2198835
242.8 0.1465943	121.4 0.1058355	121.4 0.1271927	121.4 0.2001374
243 0.1663197	121.5 0.0994859	121.5 0.1404313	121.5 0.1734982
243.2 0.1688114	121.6 0.0920724	121.6 0.1337546	121.6 0.2040211
243.4 0.1719879	121.7 0.0932606	121.7 0.1352943	121.7 0.2387166
243.6 0.1791786	121.8 0.0800546	121.8 0.1358895	121.8 0.1913032
243.8 0.200556	121.9 0.0968781	121.9 0.1678021	121.9 0.2182381
244 0.1741752	122 0.0905206	122 0.1436815	122 0.2391834
244.2 0.1651024	122.1 0.0928769	122.1 0.1577189	122.1 0.2868448
244.4 0.1504373	122.2 0.1131069	122.2 0.1306588	122.2 0.2465545

244.6	0.165549	122.3	0.1009421	122.3	0.1535653	122.3	0.2955493
244.8	0.1691946	122.4	0.0901842	122.4	0.1301172	122.4	0.2573356
245	0.1621248	122.5	0.0929545	122.5	0.15964	122.5	0.3293594
245.2	0.1560057	122.6	0.1132927	122.6	0.1657359	122.6	0.3112579
245.4	0.1630775	122.7	0.1480765	122.7	0.1381099	122.7	0.2722617
245.6	0.1730198	122.8	0.1409811	122.8	0.1408743	122.8	0.226462
245.8	0.161036	122.9	0.1089508	122.9	0.1482414	122.9	0.2444769
246	0.174188	123	0.101525	123	0.1241728	123	0.1993653
246.2	0.1738243	123.1	0.1105299	123.1	0.1266744	123.1	0.2229304
246.4	0.1646761	123.2	0.1221751	123.2	0.1426214	123.2	0.2090838
246.6	0.1592334	123.3	0.1190511	123.3	0.171398	123.3	0.2199833
246.8	0.1894595	123.4	0.1087211	123.4	0.1433107	123.4	0.2032747
247	0.1634298	123.5	0.1227643	123.5	0.155237	123.5	0.2124895
247.2	0.1673782	123.6	0.1237662	123.6	0.1697012	123.6	0.1868227
247.4	0.1394175	123.7	0.1186756	123.7	0.1599696	123.7	0.1772222
247.6	0.173281	123.8	0.140849	123.8	0.157852	123.8	0.2038467
247.8	0.1605846	123.9	0.1936632	123.9	0.1695936	123.9	0.1949083
248	0.1582976	124	0.1702677	124	0.1440745	124	0.2333239
248.2	0.1675563	124.1	0.1646053	124.1	0.1476919	124.1	0.2640871
248.4	0.1734245	124.2	0.2261586	124.2	0.1370463	124.2	0.1963141
248.6	0.1753992	124.3	0.1543603	124.3	0.1611977	124.3	0.2060866
248.8	0.1575232	124.4	0.1325818	124.4	0.1593285	124.4	0.1945229
249	0.1671619	124.5	0.1779311	124.5	0.1700434	124.5	0.2223851
249.2	0.1485784	124.6	0.1204434	124.6	0.1511198	124.6	0.2031795
249.4	0.1540199	124.7	0.1533551	124.7	0.1514171	124.7	0.2111734
249.6	0.1585157	124.8	0.1090203	124.8	0.1582627	124.8	0.179862
249.8	0.1665678	124.9	0.1098624	124.9	0.1670062	124.9	0.2402962
250	0.1593257	125	0.1616157	125	0.1434334	125	0.2051667
250.2	0.1704502	125.1	0.1290173	125.1	0.1589798	125.1	0.2109985
250.4	0.1841955	125.2	0.1319866	125.2	0.1335686	125.2	0.2100378
250.6	0.176919	125.3	0.1386298	125.3	0.1414779	125.3	0.2143598
250.8	0.1668516	125.4	0.1864518	125.4	0.1435501	125.4	0.2351727
251	0.1609958	125.5	0.1407219	125.5	0.1252056	125.5	0.2421063
251.2	0.1626453	125.6	0.176155	125.6	0.1411185	125.6	0.3213065
251.4	0.1839039	125.7	0.146422	125.7	0.1502481	125.7	0.2340246
251.6	0.1652816	125.8	0.1285688	125.8	0.1591608	125.8	0.1981583
251.8	0.1633246	125.9	0.1258927	125.9	0.181941	125.9	0.1827504
252	0.1784101	126	0.1108412	126	0.142682	126	0.1810287
252.2	0.1667961	126.1	0.1224273	126.1	0.1321611	126.1	0.2017853
252.4	0.1932731	126.2	0.1426578	126.2	0.1376469	126.2	0.2062019
252.6	0.1929584	126.3	0.1504943	126.3	0.1441815	126.3	0.2523203
252.8	0.1811808	126.4	0.1453719	126.4	0.1398747	126.4	0.3040628
253	0.1839753	126.5	0.1230271	126.5	0.1581116	126.5	0.2219047
253.2	0.1840552	126.6	0.1849241	126.6	0.175378	126.6	0.2342555
253.4	0.1762016	126.7	0.1601487	126.7	0.1701507	126.7	0.2620609
253.6	0.1737575	126.8	0.1482335	126.8	0.1673279	126.8	0.2825905
253.8	0.1774749	126.9	0.1425506	126.9	0.1933417	126.9	0.2540262
254	0.184008	127	0.1306984	127	0.1715062	127	0.3448562
254.2	0.1603004	127.1	0.1561168	127.1	0.1414291	127.1	0.2500983
254.4	0.1734532	127.2	0.1576727	127.2	0.1858727	127.2	0.2817342
254.6	0.1725096	127.3	0.134465	127.3	0.1413187	127.3	0.4299054

254.8 0.1706413	127.4 0.1489517	127.4 0.1512264	127.4 0.4742247
255 0.1646459	127.5 0.162602	127.5 0.1430092	127.5 0.422878
255.2 0.1604005	127.6 0.1738965	127.6 0.1581636	127.6 0.3387824
255.4 0.1724631	127.7 0.129458	127.7 0.1418402	127.7 0.2383019
255.6 0.1599287	127.8 0.1517859	127.8 0.1327548	127.8 0.2630045
255.8 0.1658922	127.9 0.1221656	127.9 0.1541887	127.9 0.2782656
256 0.1709513	128 0.1863247	128 0.1284654	128 0.2011205
256.2 0.1657831	128.1 0.1649334	128.1 0.1292903	128.1 0.2068363
256.4 0.1538291	128.2 0.1401112	128.2 0.1559873	128.2 0.1933526
256.6 0.1646915	128.3 0.1511255	128.3 0.1298265	128.3 0.2157326
256.8 0.1665374	128.4 0.1451482	128.4 0.1627258	128.4 0.2147648
257 0.167964	128.5 0.1313237	128.5 0.1563902	128.5 0.2377498
257.2 0.1540222	128.6 0.2144718	128.6 0.1346296	128.6 0.2445605
257.4 0.1611131	128.7 0.135027	128.7 0.1288399	128.7 0.2265017
257.6 0.1712126	128.8 0.1238326	128.8 0.1091028	128.8 0.2315735
257.8 0.1682212	128.9 0.1515505	128.9 0.127731	128.9 0.1743898
258 0.160793	129 0.1270346	129 0.1250152	129 0.1768571
258.2 0.1564745	129.1 0.1224315	129.1 0.1478896	129.1 0.2148766
258.4 0.1505432	129.2 0.1257035	129.2 0.1635014	129.2 0.2463239
258.6 0.1572174	129.3 0.1328917	129.3 0.1408666	129.3 0.2350065
258.8 0.1563938	129.4 0.11742	129.4 0.123807	129.4 0.2125546
259 0.1540733	129.5 0.1248927	129.5 0.1337219	129.5 0.2896511
259.2 0.1420575	129.6 0.1490832	129.6 0.1324219	129.6 0.3215109
259.4 0.1538088	129.7 0.121457	129.7 0.145446	129.7 0.2599234
259.6 0.1500709	129.8 0.1276189	129.8 0.1536498	129.8 0.2547376
259.8 0.1654272	129.9 0.1212843	129.9 0.1440545	129.9 0.2592153
260 0.1608659	130 0.1118384	130 0.1331432	130 0.3067916
260.2 0.1675061	130.1 0.1202479	130.1 0.1418356	130.1 0.232275
260.4 0.1565975	130.2 0.1089629	130.2 0.14731	130.2 0.2076828
260.6 0.1720813	130.3 0.127419	130.3 0.1357065	130.3 0.1988547
260.8 0.1971983	130.4 0.1429196	130.4 0.1478146	130.4 0.2166304
261 0.1665234	130.5 0.1218296	130.5 0.1384687	130.5 0.2246922
261.2 0.160962	130.6 0.1205354	130.6 0.1364929	130.6 0.2641436
261.4 0.1665366	130.7 0.108969	130.7 0.1330867	130.7 0.2137316
261.6 0.1608024	130.8 0.1215538	130.8 0.120684	130.8 0.2175288
261.8 0.175481	130.9 0.1399435	130.9 0.1627367	130.9 0.2327127
262 0.1569836	131 0.1359691	131 0.1504202	131 0.2371146
262.2 0.1641473	131.1 0.1237777	131.1 0.1363349	131.1 0.2042626
262.4 0.1504445	131.2 0.1112826	131.2 0.1716	131.2 0.1972643
262.6 0.1601587	131.3 0.1259273	131.3 0.1498052	131.3 0.1924976
262.8 0.1646947	131.4 0.1223658	131.4 0.1456836	131.4 0.1793755
263 0.1490885	131.5 0.1283935	131.5 0.1698025	131.5 0.1964973
263.2 0.2021781	131.6 0.115113	131.6 0.1471819	131.6 0.1922008
263.4 0.1801498	131.7 0.1615527	131.7 0.127948	131.7 0.183199
263.6 0.1627259	131.8 0.154744	131.8 0.1297888	131.8 0.1913575
263.8 0.1559066	131.9 0.1415671	131.9 0.1307816	131.9 0.2090648
264 0.1578846	132 0.1298044	132 0.1322851	132 0.178576
264.2 0.1539843	132.1 0.1080207	132.1 0.1273305	132.1 0.1833949
264.4 0.1790377	132.2 0.0969109	132.2 0.1412716	132.2 0.2165943
264.6 0.1966798	132.3 0.1203721	132.3 0.1419265	132.3 0.2019138
264.8 0.168832	132.4 0.1314644	132.4 0.1315326	132.4 0.2414156

265 0.1711614	132.5 0.1200919	132.5 0.1438622	132.5 0.2718825
265.2 0.1882338	132.6 0.1054253	132.6 0.1445082	132.6 0.2222993
265.4 0.1783351	132.7 0.1068135	132.7 0.1505401	132.7 0.257452
265.6 0.1835452	132.8 0.1395305	132.8 0.1427437	132.8 0.2295489
265.8 0.1741716	132.9 0.1638771	132.9 0.1377524	132.9 0.2391251
266 0.178059	133 0.1379811	133 0.1340999	133 0.2968264
266.2 0.1945151	133.1 0.1368677	133.1 0.1417359	133.1 0.2709464
266.4 0.1724817	133.2 0.0961825	133.2 0.1411258	133.2 0.2364011
266.6 0.1958922	133.3 0.1089052	133.3 0.1667636	133.3 0.2041409
266.8 0.1817796	133.4 0.1247023	133.4 0.1603975	133.4 0.2387555
267 0.1796408	133.5 0.1249172	133.5 0.1038457	133.5 0.3398005
267.2 0.1901472	133.6 0.1259443	133.6 0.1070113	133.6 0.2306722
267.4 0.1880433	133.7 0.132103	133.7 0.1372574	133.7 0.256504
267.6 0.1856213	133.8 0.1350411	133.8 0.1511938	133.8 0.328804
267.8 0.186176	133.9 0.1408654	133.9 0.1470995	133.9 0.2362577
268 0.1884896	134 0.1545087	134 0.1662584	134 0.2233076
268.2 0.1673913	134.1 0.1423019	134.1 0.1410634	134.1 0.2407098
268.4 0.1760594	134.2 0.1287861	134.2 0.1252421	134.2 0.2831598
268.6 0.1592732	134.3 0.1024274	134.3 0.1594813	134.3 0.2214293
268.8 0.172112	134.4 0.1230392	134.4 0.1181285	134.4 0.2349609
269 0.1809955	134.5 0.1216884	134.5 0.1218615	134.5 0.2705656
269.2 0.1735212	134.6 0.1436759	134.6 0.1287795	134.6 0.2434788
269.4 0.1924712	134.7 0.1489107	134.7 0.1412977	134.7 0.1973572
269.6 0.1621923	134.8 0.1357787	134.8 0.1243589	134.8 0.2119482
269.8 0.1719675	134.9 0.1149166	134.9 0.1290986	134.9 0.2062654
270 0.1758661	135 0.1300899	135 0.1193138	135 0.2438876
270.2 0.1727768	135.1 0.1275426	135.1 0.1455618	135.1 0.2044872
270.4 0.1596842	135.2 0.1743626	135.2 0.1549823	135.2 0.1977525
270.6 0.1812955	135.3 0.1632182	135.3 0.1344287	135.3 0.192304
270.8 0.1808172	135.4 0.137428	135.4 0.1113881	135.4 0.1702744
271 0.1810713	135.5 0.143654	135.5 0.1304836	135.5 0.214651
271.2 0.169504	135.6 0.1286959	135.6 0.1361194	135.6 0.1899462
271.4 0.1782395	135.7 0.1333247	135.7 0.1334183	135.7 0.1743003
271.6 0.1950336	135.8 0.15989	135.8 0.1641042	135.8 0.1959372
271.8 0.1800996	135.9 0.1446495	135.9 0.1430306	135.9 0.187924
272 0.1792823	136 0.1424021	136 0.1282251	136 0.2183198
272.2 0.1864084	136.1 0.1537646	136.1 0.1621711	136.1 0.1972011
272.4 0.1638621	136.2 0.126029	136.2 0.1494095	136.2 0.2317868
272.6 0.1865052	136.3 0.1171082	136.3 0.1389156	136.3 0.2226894
272.8 0.1681639	136.4 0.1421309	136.4 0.1391522	136.4 0.2805775
273 0.1638712	136.5 0.1348322	136.5 0.1267396	136.5 0.2944243
273.2 0.1621702	136.6 0.1202567	136.6 0.1174755	136.6 0.2812169
273.4 0.1723989	136.7 0.1091284	136.7 0.1472708	136.7 0.2613747
273.6 0.1675103	136.8 0.1205801	136.8 0.1565654	136.8 0.2473649
273.8 0.1671688	136.9 0.1020385	136.9 0.1750481	136.9 0.2394134
274 0.1780426	137 0.135604	137 0.1634017	137 0.210153
274.2 0.1571632	137.1 0.155701	137.1 0.1553807	137.1 0.3033697
274.4 0.1721567	137.2 0.1481327	137.2 0.1515219	137.2 0.2443122
274.6 0.1880458	137.3 0.1139477	137.3 0.1320982	137.3 0.2837101
274.8 0.1930251	137.4 0.1111011	137.4 0.1289787	137.4 0.2070159
275 0.1717168	137.5 0.1083004	137.5 0.1651884	137.5 0.2227654

275.2 0.1895397	137.6 0.1073877	137.6 0.1387998	137.6 0.2096785
275.4 0.1569164	137.7 0.1223697	137.7 0.1422065	137.7 0.239977
275.6 0.1723498	137.8 0.1047433	137.8 0.1467274	137.8 0.263726
275.8 0.1770773	137.9 0.1200932	137.9 0.1109479	137.9 0.2502959
276 0.1971196	138 0.1285232	138 0.1143	138 0.2240253
276.2 0.1788334	138.1 0.1160978	138.1 0.1251208	138.1 0.2263478
276.4 0.1916874	138.2 0.1424261	138.2 0.1664813	138.2 0.2392474
276.6 0.1764171	138.3 0.1354697	138.3 0.1596622	138.3 0.2200597
276.8 0.1739868	138.4 0.111875	138.4 0.1505171	138.4 0.2188576
277 0.1841665	138.5 0.1027024	138.5 0.1283471	138.5 0.2042352
277.2 0.1794078	138.6 0.1108497	138.6 0.1589761	138.6 0.2076206
277.4 0.1810521	138.7 0.0906854	138.7 0.152578	138.7 0.2266529
277.6 0.1653848	138.8 0.1404097	138.8 0.1402702	138.8 0.2009685
277.8 0.1596914	138.9 0.1487164	138.9 0.1462279	138.9 0.2330599
278 0.1512814	139 0.1783425	139 0.1281205	139 0.1985615
278.2 0.1724096	139.1 0.1662608	139.1 0.1252107	139.1 0.2436564
278.4 0.1582253	139.2 0.1311962	139.2 0.1417803	139.2 0.186107
278.6 0.1889956	139.3 0.1195701	139.3 0.1242757	139.3 0.1914613
278.8 0.166933	139.4 0.148587	139.4 0.13747	139.4 0.2131768
279 0.1702116	139.5 0.149005	139.5 0.1647972	139.5 0.1958175
279.2 0.1644412	139.6 0.13377	139.6 0.1473772	139.6 0.1926647
279.4 0.1708296	139.7 0.1071684	139.7 0.1367059	139.7 0.1987087
279.6 0.1826245	139.8 0.1139939	139.8 0.134171	139.8 0.2519391
279.8 0.178722	139.9 0.1473636	139.9 0.1401565	139.9 0.1924246
280 0.1660165	140 0.1513136	140 0.1668404	140 0.2879165
280.2 0.1683633	140.1 0.162447	140.1 0.1596522	140.1 0.1973778
280.4 0.1665836	140.2 0.1194122	140.2 0.1190893	140.2 0.2171863
280.6 0.1727714	140.3 0.1062471	140.3 0.1535017	140.3 0.252057
280.8 0.170629	140.4 0.1200586	140.4 0.1270691	140.4 0.2873774
281 0.1767052	140.5 0.1293968	140.5 0.1454864	140.5 0.3113151
281.2 0.1774157	140.6 0.1244477	140.6 0.1646336	140.6 0.2967486
281.4 0.1572658	140.7 0.1161277	140.7 0.1291548	140.7 0.2383198
281.6 0.1662145	140.8 0.1127635	140.8 0.1412596	140.8 0.2145349
281.8 0.1546675	140.9 0.1130989	140.9 0.169908	140.9 0.2775928
282 0.1612626	141 0.1205091	141 0.1568451	141 0.2817362
282.2 0.1707561	141.1 0.1307297	141.1 0.1326839	141.1 0.258589
282.4 0.1873667	141.2 0.1314193	141.2 0.1283901	141.2 0.2787829
282.6 0.1671518	141.3 0.1019194	141.3 0.1522492	141.3 0.2135094
282.8 0.1677923	141.4 0.1045725	141.4 0.145833	141.4 0.2785152
283 0.1673699	141.5 0.1065888	141.5 0.149169	141.5 0.2761024
283.2 0.1924946	141.6 0.1498505	141.6 0.1603705	141.6 0.3056475
283.4 0.1822424	141.7 0.1558161	141.7 0.1549531	141.7 0.2757716
283.6 0.1621877	141.8 0.1381787	141.8 0.13564	141.8 0.2996753
283.8 0.1633339	141.9 0.1785515	141.9 0.125194	141.9 0.2473078
284 0.1567819	142 0.1642803	142 0.1275105	142 0.2520054
284.2 0.1527612	142.1 0.1626322	142.1 0.1905216	142.1 0.2397871
284.4 0.1704405	142.2 0.1678265	142.2 0.1408616	142.2 0.2502556
284.6 0.1554529	142.3 0.1756825	142.3 0.1563839	142.3 0.2573519
284.8 0.1635768	142.4 0.1597336	142.4 0.1263617	142.4 0.2558084
285 0.156162	142.5 0.2038603	142.5 0.1146192	142.5 0.2431056
285.2 0.1468425	142.6 0.1383515	142.6 0.1440799	142.6 0.254228

285.4 0.1583164	142.7 0.124214	142.7 0.1617817	142.7 0.2817047
285.6 0.1540889	142.8 0.1607551	142.8 0.142999	142.8 0.2426693
285.8 0.1696407	142.9 0.1119249	142.9 0.1505877	142.9 0.280605
286 0.1529999	143 0.1038903	143 0.1314446	143 0.2306141
286.2 0.1463557	143.1 0.1056717	143.1 0.1346418	143.1 0.2351295
286.4 0.1609143	143.2 0.13891	143.2 0.1413765	143.2 0.2120647
286.6 0.1744312	143.3 0.1557993	143.3 0.1693573	143.3 0.2545531
286.8 0.1610516	143.4 0.1386104	143.4 0.1527911	143.4 0.2549351
287 0.1588106	143.5 0.1015025	143.5 0.1406076	143.5 0.2537587
287.2 0.1728725	143.6 0.150983	143.6 0.1372867	143.6 0.2223938
287.4 0.1765019	143.7 0.1338038	143.7 0.1655294	143.7 0.264003
287.6 0.1662623	143.8 0.1267362	143.8 0.1548539	143.8 0.2854476
287.8 0.2001328	143.9 0.1453454	143.9 0.1525913	143.9 0.2430505
288 0.1851924	144 0.1317156	144 0.1711636	144 0.2676666
288.2 0.1660103	144.1 0.114519	144.1 0.1738475	144.1 0.2973372
288.4 0.1810858	144.2 0.1772674	144.2 0.1612709	144.2 0.2625502
288.6 0.1710217	144.3 0.1466156	144.3 0.1638602	144.3 0.2679036
288.8 0.1652085	144.4 0.1236012	144.4 0.1975597	144.4 0.2393944
289 0.1754253	144.5 0.1607088	144.5 0.1641754	144.5 0.3128301
289.2 0.1772266	144.6 0.1159854	144.6 0.1656838	144.6 0.3299191
289.4 0.1679952	144.7 0.1395714	144.7 0.1719336	144.7 0.2785504
289.6 0.1774087	144.8 0.1415763	144.8 0.1760373	144.8 0.3100239
289.8 0.1947338	144.9 0.1444557	144.9 0.1962048	144.9 0.2811087
290 0.171465	145 0.1483569	145 0.1807247	145 0.2427331
290.2 0.1599655	145.1 0.1581732	145.1 0.1847708	145.1 0.2086782
290.4 0.1734453	145.2 0.142575	145.2 0.1921467	145.2 0.2159445
290.6 0.1569169	145.3 0.1416534	145.3 0.1532635	145.3 0.2367059
290.8 0.1546256	145.4 0.1496951	145.4 0.1927264	145.4 0.2429107
291 0.1705631	145.5 0.163908	145.5 0.1540948	145.5 0.2382361
291.2 0.1563875	145.6 0.1745103	145.6 0.1455273	145.6 0.2522005
291.4 0.1472044	145.7 0.1385676	145.7 0.1286443	145.7 0.2018998
291.6 0.1462823	145.8 0.202885	145.8 0.1595096	145.8 0.2500684
291.8 0.1697569	145.9 0.1799039	145.9 0.1700793	145.9 0.2458039
292 0.1581113	146 0.2033677	146 0.1745881	146 0.2417216
292.2 0.1623431	146.1 0.1281523	146.1 0.1813839	146.1 0.2311612
292.4 0.1691853	146.2 0.1091575	146.2 0.1798119	146.2 0.2294675
292.6 0.1811097	146.3 0.1218206	146.3 0.1601522	146.3 0.2869403
292.8 0.1558023	146.4 0.1052224	146.4 0.1476534	146.4 0.32013
293 0.1644516	146.5 0.1436502	146.5 0.1329508	146.5 0.212925
293.2 0.1679483	146.6 0.0873564	146.6 0.169672	146.6 0.2268684
293.4 0.1541823	146.7 0.1226981	146.7 0.1715099	146.7 0.2385018
293.6 0.1613178	146.8 0.1033086	146.8 0.1700905	146.8 0.2711053
293.8 0.1729555	146.9 0.1119927	146.9 0.1595768	146.9 0.3502055
294 0.1697622	147 0.1394732	147 0.1552343	147 0.3161897
294.2 0.1887755	147.1 0.1701043	147.1 0.1794708	147.1 0.2826647
294.4 0.1751321	147.2 0.123239	147.2 0.1704347	147.2 0.3062838
294.6 0.1812807	147.3 0.1530495	147.3 0.1843852	147.3 0.313296
294.8 0.1865161	147.4 0.1231504	147.4 0.2016326	147.4 0.288225
295 0.1749535	147.5 0.144603	147.5 0.1549073	147.5 0.3202745
295.2 0.1739246	147.6 0.1491501	147.6 0.188716	147.6 0.3834195
295.4 0.1782172	147.7 0.1303862	147.7 0.1814187	147.7 0.3126901

295.6 0.1726101	147.8 0.1527376	147.8 0.1662733	147.8 0.2313523
295.8 0.1899652	147.9 0.1458177	147.9 0.1569692	147.9 0.2311323
296 0.1965555	148 0.1798693	148 0.1906543	148 0.2668292
296.2 0.1884787	148.1 0.1100543	148.1 0.1883977	148.1 0.2645566
296.4 0.1771145	148.2 0.1514617	148.2 0.1606701	148.2 0.2351407
296.6 0.1998016	148.3 0.1270156	148.3 0.1767544	148.3 0.2052845
296.8 0.203726	148.4 0.1277696	148.4 0.1984033	148.4 0.2003055
297 0.2123891	148.5 0.1220926	148.5 0.199019	148.5 0.2164945
297.2 0.1964884	148.6 0.1157565	148.6 0.1795531	148.6 0.2100173
297.4 0.1870742	148.7 0.1185322	148.7 0.1783447	148.7 0.2251633
297.6 0.1620916	148.8 0.104999	148.8 0.1549039	148.8 0.2506527
297.8 0.1921564	148.9 0.1236911	148.9 0.1911484	148.9 0.3147964
298 0.1955935	149 0.1113828	149 0.1741973	149 0.2488839
298.2 0.2013414	149.1 0.1155929	149.1 0.1814484	149.1 0.2337771
298.4 0.1992603	149.2 0.1451734	149.2 0.175577	149.2 0.2800167
298.6 0.2129284	149.3 0.1359392	149.3 0.1823141	149.3 0.2504565
298.8 0.1948476	149.4 0.1431917	149.4 0.1696974	149.4 0.230597
299 0.1773374	149.5 0.1308804	149.5 0.1589254	149.5 0.2439704
299.2 0.1601539	149.6 0.157782	149.6 0.2018421	149.6 0.2381133
299.4 0.166503	149.7 0.1145316	149.7 0.1803013	149.7 0.2834784
299.6 0.1652341	149.8 0.1115769	149.8 0.1786904	149.8 0.2404349
299.8 0.1579207	149.9 0.1330355	149.9 0.174605	149.9 0.2399793
300 0.1659601	150 0.1209321	150 0.1533597	150 0.2411575
300.2 0.1650191	150.1 0.1395885	150.1 0.1786398	150.1 0.2316778
300.4 0.1674439	150.2 0.1749278	150.2 0.1787168	150.2 0.2327941
300.6 0.1694012	150.3 0.1560642	150.3 0.1887481	150.3 0.2106597
300.8 0.1722394	150.4 0.1967998	150.4 0.1916848	150.4 0.211611
301 0.1623759	150.5 0.2479305	150.5 0.1813636	150.5 0.249213
301.2 0.1503684	150.6 0.2373314	150.6 0.178184	150.6 0.2200385
301.4 0.1698004	150.7 0.2238451	150.7 0.1948006	150.7 0.2357356
301.6 0.165158	150.8 0.1765384	150.8 0.1855255	150.8 0.2495936
301.8 0.1664828	150.9 0.1118545	150.9 0.1819619	150.9 0.2833444
302 0.1593339	151 0.1886537	151 0.1871682	151 0.2312313
302.2 0.1628167	151.1 0.1293061	151.1 0.1914137	151.1 0.2603795
302.4 0.1576328	151.2 0.1636118	151.2 0.2218511	151.2 0.2361229
302.6 0.1529335	151.3 0.1940673	151.3 0.1918838	151.3 0.2286021
302.8 0.1693239	151.4 0.2213373	151.4 0.1719153	151.4 0.2382289
303 0.1624905	151.5 0.2536335	151.5 0.2018053	151.5 0.2646875
303.2 0.1659633	151.6 0.2001794	151.6 0.1780115	151.6 0.214772
303.4 0.1759919	151.7 0.1253093	151.7 0.1910628	151.7 0.2417755
303.6 0.1729379	151.8 0.1545309	151.8 0.172778	151.8 0.266917
303.8 0.1607328	151.9 0.1785472	151.9 0.1765417	151.9 0.293135
304 0.1620101	152 0.1323706	152 0.1557225	152 0.2513903
304.2 0.1959252	152.1 0.1063104	152.1 0.1830443	152.1 0.2179187
304.4 0.1726033	152.2 0.1470005	152.2 0.1623846	152.2 0.201643
304.6 0.1797004	152.3 0.1289797	152.3 0.1965459	152.3 0.1855313
304.8 0.1785338	152.4 0.1882342	152.4 0.1922119	152.4 0.2008346
305 0.1729366	152.5 0.1613217	152.5 0.179049	152.5 0.1923199
305.2 0.1639786	152.6 0.1610056	152.6 0.1700688	152.6 0.1883907
305.4 0.1656616	152.7 0.1233401	152.7 0.1682175	152.7 0.2229408
305.6 0.1594295	152.8 0.120249	152.8 0.1543218	152.8 0.1909125

305.8 0.1658806	152.9 0.132701	152.9 0.1404552	152.9 0.1992407
306 0.1800411	153 0.1595369	153 0.1373082	153 0.2051488
306.2 0.1807519	153.1 0.1008091	153.1 0.1747009	153.1 0.1978891
306.4 0.1750572	153.2 0.1077868	153.2 0.1905782	153.2 0.1985327
306.6 0.1774446	153.3 0.0919352	153.3 0.1771155	153.3 0.1798523
306.8 0.1859313	153.4 0.0972939	153.4 0.1833377	153.4 0.2044602
307 0.1817259	153.5 0.1475522	153.5 0.212679	153.5 0.2087485
307.2 0.1596933	153.6 0.1012523	153.6 0.1898638	153.6 0.2316754
307.4 0.1640496	153.7 0.1371483	153.7 0.1898628	153.7 0.220355
307.6 0.1769091	153.8 0.1323976	153.8 0.225374	153.8 0.236756
307.8 0.1632749	153.9 0.1156633	153.9 0.1592127	153.9 0.3012996
308 0.1619871	154 0.1502219	154 0.1809162	154 0.2841664
308.2 0.1648556	154.1 0.1475195	154.1 0.1455702	154.1 0.2003519
308.4 0.1616472	154.2 0.1388202	154.2 0.1476906	154.2 0.2110636
308.6 0.1770101	154.3 0.17024	154.3 0.1272572	154.3 0.2141375
308.8 0.1609218	154.4 0.195987	154.4 0.144057	154.4 0.2425044
309 0.1704193	154.5 0.1302354	154.5 0.1553732	154.5 0.2817688
309.2 0.1719044	154.6 0.1208701	154.6 0.1231569	154.6 0.304101
309.4 0.1716992	154.7 0.1253086	154.7 0.1321781	154.7 0.2770347
309.6 0.161981	154.8 0.1442332	154.8 0.1381229	154.8 0.3058107
309.8 0.174179	154.9 0.12929	154.9 0.128112	154.9 0.243019
310 0.1883901	155 0.1670344	155 0.1341788	155 0.2320564
310.2 0.1551683	155.1 0.181605	155.1 0.1474299	155.1 0.2181247
310.4 0.1572721	155.2 0.1505237	155.2 0.1464031	155.2 0.1984148
310.6 0.1580066	155.3 0.149869	155.3 0.1662274	155.3 0.2055978
310.8 0.1639628	155.4 0.1421308	155.4 0.1588986	155.4 0.2127036
311 0.1766253	155.5 0.1275921	155.5 0.1535918	155.5 0.2126072
311.2 0.1740632	155.6 0.1336885	155.6 0.135745	155.6 0.2228853
311.4 0.1785942	155.7 0.1471376	155.7 0.1649189	155.7 0.1960663
311.6 0.1841378	155.8 0.1960432	155.8 0.148485	155.8 0.2118996
311.8 0.1844385	155.9 0.1681975	155.9 0.1548244	155.9 0.2296655
312 0.1725202	156 0.1686609	156 0.1811025	156 0.2301071
312.2 0.1685907	156.1 0.0977636	156.1 0.161497	156.1 0.2562549
312.4 0.172625	156.2 0.1444162	156.2 0.1901356	156.2 0.2644015
312.6 0.1783311	156.3 0.1722256	156.3 0.1912212	156.3 0.2790461
312.8 0.1601093	156.4 0.1806474	156.4 0.1628619	156.4 0.2749278
313 0.1654563	156.5 0.2104632	156.5 0.1497841	156.5 0.255014
313.2 0.1603579	156.6 0.2433422	156.6 0.1596221	156.6 0.2191685
313.4 0.1653904	156.7 0.1940556	156.7 0.1771766	156.7 0.212411
313.6 0.1820043	156.8 0.2744362	156.8 0.1390084	156.8 0.2617767
313.8 0.176183	156.9 0.1914464	156.9 0.1201578	156.9 0.2008504
314 0.1804743	157 0.2416645	157 0.1269455	157 0.2226733
314.2 0.1686235	157.1 0.2915179	157.1 0.1308917	157.1 0.2368657
314.4 0.1663896	157.2 0.1990173	157.2 0.1198881	157.2 0.2315195
314.6 0.1688978	157.3 0.1689246	157.3 0.1160637	157.3 0.2383613
314.8 0.1639694	157.4 0.1640017	157.4 0.1504832	157.4 0.2704254
315 0.161828	157.5 0.2196615	157.5 0.1484329	157.5 0.2346173
315.2 0.1747095	157.6 0.2818315	157.6 0.1222292	157.6 0.2631963
315.4 0.1845952	157.7 0.2058316	157.7 0.1239771	157.7 0.2509171
315.6 0.1849743	157.8 0.1809755	157.8 0.1155268	157.8 0.2369791
315.8 0.1655442	157.9 0.1631882	157.9 0.1444775	157.9 0.2169977

316 0.1861501	158 0.1222822	158 0.1520927	158 0.2003961
316.2 0.1872089	158.1 0.1253445	158.1 0.1555976	158.1 0.208605
316.4 0.1700514	158.2 0.1838045	158.2 0.1236012	158.2 0.2317124
316.6 0.1631834	158.3 0.134184	158.3 0.1620312	158.3 0.2673319
316.8 0.1561113	158.4 0.1662991	158.4 0.1640156	158.4 0.2447794
317 0.1883552	158.5 0.1532393	158.5 0.1759101	158.5 0.2193737
317.2 0.1647183	158.6 0.1417379	158.6 0.1914362	158.6 0.2399468
317.4 0.1704941	158.7 0.1070293	158.7 0.19895	158.7 0.2471472
317.6 0.1581026	158.8 0.1287214	158.8 0.1823847	158.8 0.2762991
317.8 0.1721835	158.9 0.1265628	158.9 0.1819143	158.9 0.2498003
318 0.1681277	159 0.1181994	159 0.171252	159 0.2172052
318.2 0.178877	159.1 0.1672972	159.1 0.1510745	159.1 0.2526677
318.4 0.1759789	159.2 0.1591083	159.2 0.1275573	159.2 0.2505118
318.6 0.1685928	159.3 0.1954291	159.3 0.181768	159.3 0.3159151
318.8 0.1789604	159.4 0.1800096	159.4 0.2122266	159.4 0.2548936
319 0.1741854	159.5 0.1349603	159.5 0.1529622	159.5 0.2618126
319.2 0.1787706	159.6 0.1125482	159.6 0.1251573	159.6 0.2274582
319.4 0.1838918	159.7 0.1222201	159.7 0.1477057	159.7 0.2340688
319.6 0.1940191	159.8 0.1168469	159.8 0.1560035	159.8 0.276708
319.8 0.1982627	159.9 0.0981944	159.9 0.1756801	159.9 0.2501935
320 0.1988535	160 0.1017871	160 0.1764424	160 0.2463414
320.2 0.2059259	160.1 0.1247604	160.1 0.1637284	160.1 0.2242588
320.4 0.1890236	160.2 0.102914	160.2 0.1589876	160.2 0.2373304
320.6 0.1954877	160.3 0.117076	160.3 0.1619627	160.3 0.2160916
320.8 0.1991889	160.4 0.1025101	160.4 0.1289317	160.4 0.2257761
321 0.1708895	160.5 0.1176448	160.5 0.1329272	160.5 0.2094257
321.2 0.1702435	160.6 0.1140861	160.6 0.1661561	160.6 0.2450867
321.4 0.1968606	160.7 0.1350574	160.7 0.1656505	160.7 0.228872
321.6 0.1827284	160.8 0.1074542	160.8 0.1711929	160.8 0.265589
321.8 0.1837916	160.9 0.1481081	160.9 0.1600502	160.9 0.2703059
322 0.1802694	161 0.1361241	161 0.1428591	161 0.3031004
322.2 0.1861077	161.1 0.1370444	161.1 0.1521444	161.1 0.2763687
322.4 0.1976278	161.2 0.1347046	161.2 0.1391606	161.2 0.2789788
322.6 0.1806982	161.3 0.1152294	161.3 0.1739684	161.3 0.262509
322.8 0.1792886	161.4 0.1138634	161.4 0.1495727	161.4 0.2744297
323 0.1690463	161.5 0.1370507	161.5 0.1888592	161.5 0.2707776
323.2 0.1781116	161.6 0.1078338	161.6 0.1595016	161.6 0.2669948
323.4 0.1713915	161.7 0.138248	161.7 0.163421	161.7 0.2771355
323.6 0.1685653	161.8 0.150639	161.8 0.1780247	161.8 0.2743845
323.8 0.1709227	161.9 0.1197948	161.9 0.1557509	161.9 0.2564663
324 0.1754416	162 0.1054665	162 0.1569422	162 0.2797087
324.2 0.1765248	162.1 0.1375283	162.1 0.1557423	162.1 0.2513535
324.4 0.1827743	162.2 0.1165298	162.2 0.1586003	162.2 0.2589409
324.6 0.1551474	162.3 0.138353	162.3 0.1664066	162.3 0.3100855
324.8 0.1820624	162.4 0.1103978	162.4 0.1456061	162.4 0.2756307
325 0.1574754	162.5 0.1105695	162.5 0.1543165	162.5 0.3349774
325.2 0.161577	162.6 0.125132	162.6 0.1610032	162.6 0.3106301
325.4 0.1795414	162.7 0.1426099	162.7 0.1629474	162.7 0.3476186
325.6 0.1830752	162.8 0.1290236	162.8 0.1783391	162.8 0.2840344
325.8 0.190864	162.9 0.1236173	162.9 0.1633737	162.9 0.2692724
326 0.1760087	163 0.1286275	163 0.1447168	163 0.3039531

326.2 0.1806697	163.1 0.1272797	163.1 0.1713628	163.1 0.3423971
326.4 0.169888	163.2 0.1445679	163.2 0.1403247	163.2 0.3848424
326.6 0.1778345	163.3 0.1369828	163.3 0.1507641	163.3 0.3106707
326.8 0.1825091	163.4 0.1431241	163.4 0.1385083	163.4 0.3349659
327 0.1856838	163.5 0.1180922	163.5 0.1447943	163.5 0.3116343
327.2 0.1685646	163.6 0.1092062	163.6 0.1650079	163.6 0.266365
327.4 0.1727403	163.7 0.1021213	163.7 0.1383823	163.7 0.2746311
327.6 0.1660545	163.8 0.106654	163.8 0.1481684	163.8 0.2800237
327.8 0.1627868	163.9 0.1334712	163.9 0.166869	163.9 0.2698555
328 0.1523368	164 0.1020177	164 0.1543535	164 0.2741979
328.2 0.1649458	164.1 0.0902383	164.1 0.1543823	164.1 0.3117513
328.4 0.1650584	164.2 0.1003374	164.2 0.1638663	164.2 0.3096259
328.6 0.1524037	164.3 0.1056737	164.3 0.1489579	164.3 0.2464388
328.8 0.1536426	164.4 0.0897807	164.4 0.1348329	164.4 0.2199788
329 0.1598808	164.5 0.1000996	164.5 0.1523996	164.5 0.2354162
329.2 0.1658705	164.6 0.0820433	164.6 0.1560026	164.6 0.1994441
329.4 0.1621365	164.7 0.1450506	164.7 0.1743433	164.7 0.230558
329.6 0.1738449	164.8 0.1114884	164.8 0.1559963	164.8 0.2210778
329.8 0.1679351	164.9 0.1349159	164.9 0.1641601	164.9 0.2393713
330 0.1740295	165 0.1262617	165 0.1578763	165 0.2188363
330.2 0.1579325	165.1 0.1508648	165.1 0.1697657	165.1 0.2434019
330.4 0.1674976	165.2 0.1424751	165.2 0.1707594	165.2 0.2199882
330.6 0.1662347	165.3 0.1561652	165.3 0.1748905	165.3 0.2128371
330.8 0.1754851	165.4 0.1321641	165.4 0.1780056	165.4 0.1979638
331 0.1713402	165.5 0.1349902	165.5 0.1905006	165.5 0.2266318
331.2 0.1707163	165.6 0.1325054	165.6 0.1859688	165.6 0.2260528
331.4 0.1655071	165.7 0.13773	165.7 0.1842403	165.7 0.2246785
331.6 0.1756403	165.8 0.158416	165.8 0.1672745	165.8 0.2245945
331.8 0.1690688	165.9 0.1479485	165.9 0.1677548	165.9 0.2166608
332 0.1684717	166 0.1694935	166 0.1710342	166 0.2002004
332.2 0.1500678	166.1 0.1292409	166.1 0.1677712	166.1 0.2028824
332.4 0.1526647	166.2 0.1572925	166.2 0.1815582	166.2 0.2392381
332.6 0.1549023	166.3 0.1277494	166.3 0.1547728	166.3 0.2202727
332.8 0.1769134	166.4 0.1024391	166.4 0.2010646	166.4 0.2183411
333 0.1582338	166.5 0.1106089	166.5 0.2074004	166.5 0.2492128
333.2 0.1482036	166.6 0.1155482	166.6 0.2019803	166.6 0.2636993
333.4 0.1663695	166.7 0.097832	166.7 0.1537602	166.7 0.2490707
333.6 0.1553907	166.8 0.1291989	166.8 0.1861135	166.8 0.2491964
333.8 0.1611226	166.9 0.1001861	166.9 0.1921564	166.9 0.2375582
334 0.1628804	167 0.1335012	167 0.1751562	167 0.260833
334.2 0.1816524	167.1 0.1416707	167.1 0.1822934	167.1 0.2462989
334.4 0.1576754	167.2 0.1126394	167.2 0.1668449	167.2 0.2564464
334.6 0.1705348	167.3 0.1659142	167.3 0.1889769	167.3 0.215259
334.8 0.1733119	167.4 0.127431	167.4 0.1605716	167.4 0.3357671
335 0.1755874	167.5 0.1442858	167.5 0.1412419	167.5 0.3371415
335.2 0.1956929	167.6 0.0986244	167.6 0.1942699	167.6 0.3530892
335.4 0.1615239	167.7 0.1032132	167.7 0.1800313	167.7 0.4189717
335.6 0.1681817	167.8 0.1141324	167.8 0.1466522	167.8 0.324848
335.8 0.1688593	167.9 0.130522	167.9 0.1230858	167.9 0.2581366
336 0.1920981	168 0.1271464	168 0.1233646	168 0.2155734
336.2 0.1758552	168.1 0.1066771	168.1 0.1670538	168.1 0.2320557

336.4	0.1659113	168.2	0.1346074	168.2	0.1033388	168.2	0.2673514
336.6	0.1753221	168.3	0.1146961	168.3	0.1319345	168.3	0.2650894
336.8	0.1768332	168.4	0.1067148	168.4	0.1670671	168.4	0.2201287
337	0.1773219	168.5	0.1069549	168.5	0.1768821	168.5	0.2400779
337.2	0.161814	168.6	0.1063291	168.6	0.1247096	168.6	0.2038763
337.4	0.1745348	168.7	0.112623	168.7	0.1611946	168.7	0.201227
337.6	0.1698619	168.8	0.0948773	168.8	0.1688747	168.8	0.2543049
337.8	0.1695054	168.9	0.1099481	168.9	0.1668748	168.9	0.2465306
338	0.1515334	169	0.0935423	169	0.1440887	169	0.2049095
338.2	0.173797	169.1	0.1262819	169.1	0.127588	169.1	0.2194578
338.4	0.1671652	169.2	0.1014937	169.2	0.1981797	169.2	0.2348859
338.6	0.1603351	169.3	0.1421922	169.3	0.1504428	169.3	0.2164336
338.8	0.1637685	169.4	0.0997542	169.4	0.1438336	169.4	0.2147503
339	0.1707107	169.5	0.1342247	169.5	0.1596581	169.5	0.2281622
339.2	0.1607798	169.6	0.1265749	169.6	0.168623	169.6	0.2543595
339.4	0.1429143	169.7	0.1452746	169.7	0.1419561	169.7	0.2201936
339.6	0.1350007	169.8	0.138331	169.8	0.179187	169.8	0.2654398
339.8	0.1483303	169.9	0.1239808	169.9	0.1984619	169.9	0.2337515
340	0.1640001	170	0.1244629	170	0.160898	170	0.2164077
340.2	0.1426833	170.1	0.1199577	170.1	0.1099498	170.1	0.277699
340.4	0.1614327	170.2	0.1189426	170.2	0.155823	170.2	0.2632556
340.6	0.1566623	170.3	0.1536369	170.3	0.1508058	170.3	0.249172
340.8	0.1729462	170.4	0.1156752	170.4	0.1434089	170.4	0.2354195
341	0.1684479	170.5	0.153173	170.5	0.1193093	170.5	0.2642951
341.2	0.1578518	170.6	0.143671	170.6	0.1477468	170.6	0.2677848
341.4	0.1511543	170.7	0.1100746	170.7	0.1269857	170.7	0.3096958
341.6	0.1466447	170.8	0.1301786	170.8	0.1407332	170.8	0.29183
341.8	0.1561877	170.9	0.1108252	170.9	0.147975	170.9	0.256701
342	0.1589538	171	0.1329602	171	0.1661929	171	0.2902263
342.2	0.16815	171.1	0.1070323	171.1	0.1505208	171.1	0.3067786
342.4	0.1695629	171.2	0.1186479	171.2	0.1488421	171.2	0.2546728
342.6	0.1549263	171.3	0.1108226	171.3	0.139209	171.3	0.2946478
342.8	0.157263	171.4	0.1239806	171.4	0.1396356	171.4	0.2890819
343	0.1533947	171.5	0.1182718	171.5	0.1586714	171.5	0.3156861
343.2	0.1519022	171.6	0.166591	171.6	0.1258495	171.6	0.3418579
343.4	0.1453639	171.7	0.1986626	171.7	0.1318546	171.7	0.2580109
343.6	0.1701494	171.8	0.1478593	171.8	0.1579116	171.8	0.2675521
343.8	0.1586788	171.9	0.1542828	171.9	0.1672579	171.9	0.2799087
344	0.1512228	172	0.1046546	172	0.1511314	172	0.2612282
344.2	0.1669784	172.1	0.1133498	172.1	0.164294	172.1	0.3515533
344.4	0.170068	172.2	0.1153309	172.2	0.150219	172.2	0.3489602
344.6	0.1572246	172.3	0.117875	172.3	0.1578752	172.3	0.2966765
344.8	0.172	172.4	0.1297103	172.4	0.1434728	172.4	0.3235025
345	0.1874977	172.5	0.1066163	172.5	0.1367414	172.5	0.245421
345.2	0.1800534	172.6	0.1030014	172.6	0.13282	172.6	0.3478283
345.4	0.170965	172.7	0.175846	172.7	0.1352509	172.7	0.3136689
345.6	0.1760233	172.8	0.1825111	172.8	0.1281759	172.8	0.3182756
345.8	0.171363	172.9	0.1552232	172.9	0.1159091	172.9	0.3326124
346	0.1775649	173	0.1350117	173	0.0952798	173	0.3423212
346.2	0.1809396	173.1	0.2252493	173.1	0.1112378	173.1	0.2937766
346.4	0.167338	173.2	0.2203706	173.2	0.129243	173.2	0.2536453

346.6 0.1740965	173.3 0.2174404	173.3 0.1248523	173.3 0.2953056
346.8 0.1626183	173.4 0.2399368	173.4 0.124019	173.4 0.2877682
347 0.1771901	173.5 0.2691782	173.5 0.1332649	173.5 0.3197399
347.2 0.1782925	173.6 0.1950668	173.6 0.1099637	173.6 0.2996704
347.4 0.1834906	173.7 0.1428671	173.7 0.1290932	173.7 0.2766925
347.6 0.1936253	173.8 0.1752982	173.8 0.1334546	173.8 0.2932255
347.8 0.1692286	173.9 0.1261992	173.9 0.1036803	173.9 0.2744035
348 0.148373	174 0.2197241	174 0.0937905	174 0.3464151
348.2 0.1468669	174.1 0.2601576	174.1 0.1453082	174.1 0.3062373
348.4 0.1566005	174.2 0.3859583	174.2 0.1597504	174.2 0.2867723
348.6 0.1547943	174.3 0.3467586	174.3 0.1253194	174.3 0.2863489
348.8 0.1588964	174.4 0.2310404	174.4 0.1154683	174.4 0.2952345
349 0.1498128	174.5 0.2480664	174.5 0.1099107	174.5 0.3204635
349.2 0.1670575	174.6 0.2823982	174.6 0.1274864	174.6 0.298943
349.4 0.1740122	174.7 0.1815343	174.7 0.1100577	174.7 0.3186703
349.6 0.1989901	174.8 0.2276192	174.8 0.1160671	174.8 0.2699373
349.8 0.2006195	174.9 0.213986	174.9 0.1163037	174.9 0.3245075
350 0.1906982	175 0.1808302	175 0.1215726	175 0.3088647
350.2 0.1919102	175.1 0.2535169	175.1 0.1276191	175.1 0.3160455
350.4 0.2017482	175.2 0.2645266	175.2 0.1432717	175.2 0.3118918
350.6 0.1969109	175.3 0.2268921	175.3 0.1497466	175.3 0.2659181
350.8 0.2073557	175.4 0.157243	175.4 0.1437712	175.4 0.3340097
351 0.2009345	175.5 0.2264327	175.5 0.108034	175.5 0.3216062
351.2 0.1909623	175.6 0.2849166	175.6 0.1198591	175.6 0.3206265
351.4 0.2148452	175.7 0.218199	175.7 0.1358037	175.7 0.3052294
351.6 0.208843	175.8 0.1834604	175.8 0.1289186	175.8 0.2542383
351.8 0.1919626	175.9 0.2269982	175.9 0.1164823	175.9 0.2485846
352 0.2115831	176 0.1567739	176 0.140279	176 0.2712699
352.2 0.1645981	176.1 0.1010972	176.1 0.1399844	176.1 0.2808715
352.4 0.1789555	176.2 0.1447895	176.2 0.1355734	176.2 0.2980245
352.6 0.1772991	176.3 0.1386684	176.3 0.1309582	176.3 0.3150001
352.8 0.1868466	176.4 0.1257256	176.4 0.1904394	176.4 0.3701059
353 0.1732062	176.5 0.1258734	176.5 0.1668517	176.5 0.3376997
353.2 0.1752361	176.6 0.1309272	176.6 0.1708273	176.6 0.2889984
353.4 0.1821119	176.7 0.1532361	176.7 0.1730288	176.7 0.2814884
353.6 0.1830795	176.8 0.1182713	176.8 0.1489762	176.8 0.2546898
353.8 0.1821559	176.9 0.1344091	176.9 0.1372681	176.9 0.2675515
354 0.190752	177 0.1365178	177 0.1398598	177 0.2667971
354.2 0.1832248	177.1 0.1642708	177.1 0.138586	177.1 0.2894619
354.4 0.1874607	177.2 0.112686	177.2 0.1684852	177.2 0.2540711
354.6 0.1937601	177.3 0.1183815	177.3 0.1492613	177.3 0.2555625
354.8 0.182011	177.4 0.1173597	177.4 0.113572	177.4 0.2437965
355 0.190697	177.5 0.1576885	177.5 0.1632539	177.5 0.2212119
355.2 0.1935499	177.6 0.1126803	177.6 0.1286895	177.6 0.2444425
355.4 0.1985364	177.7 0.1249253	177.7 0.1496174	177.7 0.2297049
355.6 0.1927921	177.8 0.1137347	177.8 0.1616339	177.8 0.2447716
355.8 0.1789235	177.9 0.1191329	177.9 0.136052	177.9 0.2609937
356 0.1956744	178 0.1388825	178 0.1484144	178 0.2507394
356.2 0.1815948	178.1 0.1003859	178.1 0.1526265	178.1 0.2341257
356.4 0.1883021	178.2 0.1337603	178.2 0.1866637	178.2 0.2398535
356.6 0.1905787	178.3 0.1407841	178.3 0.1474841	178.3 0.2254403

356.8 0.1895227	178.4 0.1453929	178.4 0.134108	178.4 0.2280064
357 0.189578	178.5 0.1362196	178.5 0.1452263	178.5 0.2458033
357.2 0.1877113	178.6 0.1410345	178.6 0.1342712	178.6 0.24704
357.4 0.1919346	178.7 0.1054978	178.7 0.1341689	178.7 0.2728829
357.6 0.1916895	178.8 0.1160207	178.8 0.1476407	178.8 0.2646939
357.8 0.1900512	178.9 0.1358602	178.9 0.127609	178.9 0.2538607
358 0.205669	179 0.1327346	179 0.1437477	179 0.2542343
358.2 0.1790549	179.1 0.1439001	179.1 0.1384501	179.1 0.2508554
358.4 0.1737324	179.2 0.1480543	179.2 0.1423187	179.2 0.2326446
358.6 0.1858617	179.3 0.1420481	179.3 0.142445	179.3 0.2896309
358.8 0.1850159	179.4 0.147266	179.4 0.1434569	179.4 0.2525881
359 0.1942185	179.5 0.1511004	179.5 0.1208965	179.5 0.2734316
359.2 0.196663	179.6 0.1534679	179.6 0.1316378	179.6 0.3078001
359.4 0.1883317	179.7 0.14107	179.7 0.1499099	179.7 0.3213173
359.6 0.2006261	179.8 0.1490456	179.8 0.1080305	179.8 0.3346946
359.8 0.2055571	179.9 0.1484828	179.9 0.129164	179.9 0.2612662
360 0.1868242	180 0.1539869	180 0.1275322	180 0.2751233
360.2 0.1954179	180.1 0.1484229	180.1 0.1215317	180.1 0.3145967
360.4 0.1813574	180.2 0.1140454	180.2 0.1195439	180.2 0.227999
360.6 0.2045034	180.3 0.1526299	180.3 0.1266141	180.3 0.2371078
360.8 0.2020825	180.4 0.0942731	180.4 0.1480844	180.4 0.243757
361 0.1992536	180.5 0.1167305	180.5 0.1385434	180.5 0.3026502
361.2 0.1975972	180.6 0.1464694	180.6 0.1530638	180.6 0.3442289
361.4 0.1863972	180.7 0.1250031	180.7 0.1299089	180.7 0.2961522
361.6 0.1878594	180.8 0.1683068	180.8 0.1339754	180.8 0.262021
361.8 0.2021043	180.9 0.1165739	180.9 0.1295159	180.9 0.2651057
362 0.1946211	181 0.1598796	181 0.1081891	181 0.3060706
362.2 0.191595	181.1 0.1107295	181.1 0.1208334	181.1 0.2540059
362.4 0.1969499	181.2 0.1259178	181.2 0.1493285	181.2 0.2647108
362.6 0.2101645	181.3 0.1240632	181.3 0.1247775	181.3 0.3213481
362.8 0.1926045	181.4 0.1342229	181.4 0.1391799	181.4 0.3074436
363 0.2132611	181.5 0.1609866	181.5 0.121433	181.5 0.3636509
363.2 0.1907885	181.6 0.1901755	181.6 0.1191631	181.6 0.3611397
363.4 0.1925317	181.7 0.1770203	181.7 0.1297704	181.7 0.3558151
363.6 0.2059624	181.8 0.1579398	181.8 0.1331929	181.8 0.3881705
363.8 0.1814003	181.9 0.130397	181.9 0.1731337	181.9 0.3195689
364 0.2003051	182 0.1271856	182 0.142074	182 0.3007163
364.2 0.1730482	182.1 0.1182798	182.1 0.1368018	182.1 0.2717957
364.4 0.1739947	182.2 0.1184793	182.2 0.1623651	182.2 0.2905267
364.6 0.1944247	182.3 0.1299534	182.3 0.1917465	182.3 0.2992426
364.8 0.2198716	182.4 0.1127008	182.4 0.127007	182.4 0.2727439
365 0.1903418	182.5 0.1654499	182.5 0.1514605	182.5 0.2701531
365.2 0.1750701	182.6 0.1453318	182.6 0.123298	182.6 0.3182694
365.4 0.1872438	182.7 0.1474141	182.7 0.1384318	182.7 0.3080985
365.6 0.1890483	182.8 0.1343836	182.8 0.1385817	182.8 0.3206027
365.8 0.2192061	182.9 0.0987852	182.9 0.135377	182.9 0.3109413
366 0.2079744	183 0.0907726	183 0.132901	183 0.2677279
366.2 0.2150378	183.1 0.1316418	183.1 0.1433099	183.1 0.2627218
366.4 0.2099259	183.2 0.0997827	183.2 0.1260213	183.2 0.2622359
366.6 0.2023302	183.3 0.1177519	183.3 0.1257512	183.3 0.2608586
366.8 0.2082249	183.4 0.1173532	183.4 0.1521166	183.4 0.2807284

367	0.197752	183.5	0.1127797	183.5	0.1300044	183.5	0.3796738
367.2	0.2026094	183.6	0.1164383	183.6	0.1630538	183.6	0.346356
367.4	0.1909782	183.7	0.1113007	183.7	0.1506431	183.7	0.3766021
367.6	0.1967012	183.8	0.1331424	183.8	0.1491933	183.8	0.3226419
367.8	0.1967184	183.9	0.1238049	183.9	0.1373802	183.9	0.2758833
368	0.201321	184	0.101964	184	0.1374402	184	0.3398974
368.2	0.2008666	184.1	0.106198	184.1	0.1267243	184.1	0.2837707
368.4	0.2017417	184.2	0.1138506	184.2	0.1285145	184.2	0.2929
368.6	0.2028716	184.3	0.1152599	184.3	0.1277821	184.3	0.3087036
368.8	0.1905138	184.4	0.1206073	184.4	0.1149704	184.4	0.3648275
369	0.1976348	184.5	0.1366352	184.5	0.126128	184.5	0.3237111
369.2	0.2116399	184.6	0.1231902	184.6	0.1414336	184.6	0.31986
369.4	0.1971178	184.7	0.1602164	184.7	0.1296063	184.7	0.2593599
369.6	0.2134786	184.8	0.1687873	184.8	0.1398146	184.8	0.23374
369.8	0.2029521	184.9	0.1385733	184.9	0.1307347	184.9	0.2303444
370	0.2070216	185	0.1445597	185	0.1220258	185	0.2522821
370.2	0.1972741	185.1	0.1452773	185.1	0.125033	185.1	0.2694988
370.4	0.2017232	185.2	0.1255691	185.2	0.1621705	185.2	0.2235722
370.6	0.2077756	185.3	0.0912212	185.3	0.1287238	185.3	0.2470348
370.8	0.2074132	185.4	0.0807161	185.4	0.1407585	185.4	0.2328561
371	0.221383	185.5	0.1194083	185.5	0.1575939	185.5	0.2416314
371.2	0.1949876	185.6	0.1072383	185.6	0.1516688	185.6	0.2357493
371.4	0.1919828	185.7	0.1073745	185.7	0.1542137	185.7	0.2350081
371.6	0.2080923	185.8	0.114817	185.8	0.1367701	185.8	0.2142181
371.8	0.2017937	185.9	0.1025339	185.9	0.1295045	185.9	0.2086859
372	0.2294074	186	0.1325483	186	0.1347423	186	0.2331083
372.2	0.2282693	186.1	0.1454466	186.1	0.1397795	186.1	0.2257393
372.4	0.2228105	186.2	0.1485764	186.2	0.1434249	186.2	0.2464471
372.6	0.2286043	186.3	0.1100755	186.3	0.185734	186.3	0.2538261
372.8	0.2165194	186.4	0.1230372	186.4	0.1587675	186.4	0.2478697
373	0.1825877	186.5	0.1085969	186.5	0.132539	186.5	0.236427
373.2	0.1915201	186.6	0.1005048	186.6	0.1360291	186.6	0.3209293
373.4	0.2189659	186.7	0.1416593	186.7	0.1359702	186.7	0.2328598
373.6	0.1868091	186.8	0.1314553	186.8	0.1359423	186.8	0.2349022
373.8	0.2199934	186.9	0.1223977	186.9	0.144811	186.9	0.2275711
374	0.204135	187	0.1021867	187	0.1349679	187	0.2659769
374.2	0.1975166	187.1	0.1095007	187.1	0.1297417	187.1	0.2320806
374.4	0.191105	187.2	0.1055961	187.2	0.1517183	187.2	0.2311305
374.6	0.1956587	187.3	0.0974315	187.3	0.1489154	187.3	0.2441824
374.8	0.190706	187.4	0.1266901	187.4	0.1321461	187.4	0.2249583
375	0.1940114	187.5	0.1021055	187.5	0.1383876	187.5	0.2291168
375.2	0.2160242	187.6	0.1175569	187.6	0.1338496	187.6	0.2380892
375.4	0.2398054	187.7	0.1136322	187.7	0.1369152	187.7	0.240482
375.6	0.2124746	187.8	0.1086056	187.8	0.1278607	187.8	0.2634007
375.8	0.2151119	187.9	0.124365	187.9	0.1270173	187.9	0.2717506
376	0.2148186	188	0.1196511	188	0.1434953	188	0.2757649
376.2	0.2041917	188.1	0.1028097	188.1	0.1183592	188.1	0.2752188
376.4	0.1954959	188.2	0.1454448	188.2	0.1369458	188.2	0.2866431
376.6	0.2046772	188.3	0.0965097	188.3	0.1234122	188.3	0.2598096
376.8	0.2120768	188.4	0.1088025	188.4	0.142565	188.4	0.2417631
377	0.2150044	188.5	0.0981567	188.5	0.1390039	188.5	0.2269945

377.2 0.2207509	188.6 0.1139965	188.6 0.1486786	188.6 0.2819876
377.4 0.2113461	188.7 0.1189307	188.7 0.1111922	188.7 0.2705321
377.6 0.2369105	188.8 0.1090503	188.8 0.150162	188.8 0.3065897
377.8 0.1927904	188.9 0.1183369	188.9 0.1367543	188.9 0.3588507
378 0.1987408	189 0.1184569	189 0.1418803	189 0.35383
378.2 0.2024291	189.1 0.0887254	189.1 0.1481547	189.1 0.3685777
378.4 0.2297074	189.2 0.1046577	189.2 0.1357939	189.2 0.3027811
378.6 0.214148	189.3 0.0947701	189.3 0.146601	189.3 0.33508
378.8 0.2205793	189.4 0.104846	189.4 0.1330859	189.4 0.4283846
379 0.2293517	189.5 0.1118951	189.5 0.1250089	189.5 0.3318262
379.2 0.2361538	189.6 0.0996931	189.6 0.1320495	189.6 0.321236
379.4 0.2250896	189.7 0.1047073	189.7 0.1535131	189.7 0.2920444
379.6 0.2152311	189.8 0.1053178	189.8 0.1437825	189.8 0.3474233
379.8 0.2065021	189.9 0.0875267	189.9 0.1227948	189.9 0.397196
380 0.2151113	190 0.0898349	190 0.1634178	190 0.3561622
380.2 0.1988534	190.1 0.1044559	190.1 0.1402756	190.1 0.4321084
380.4 0.1875754	190.2 0.1017747	190.2 0.1509486	190.2 0.4014093
380.6 0.2104591	190.3 0.1054782	190.3 0.1561764	190.3 0.346501
380.8 0.2042087	190.4 0.0926095	190.4 0.1553707	190.4 0.3173009
381 0.2165146	190.5 0.0885657	190.5 0.1549421	190.5 0.344645
381.2 0.1979524	190.6 0.1425394	190.6 0.1374602	190.6 0.3504512
381.4 0.2018499	190.7 0.0916692	190.7 0.1337755	190.7 0.3466568
381.6 0.209025	190.8 0.1135557	190.8 0.140508	190.8 0.3529921
381.8 0.2030101	190.9 0.1118177	190.9 0.1452439	190.9 0.3504403
382 0.2028508	191 0.104479	191 0.1606611	191 0.3376388
382.2 0.2172249	191.1 0.1195094	191.1 0.1595222	191.1 0.3078587
382.4 0.2074671	191.2 0.111946	191.2 0.152417	191.2 0.3284203
382.6 0.1989066	191.3 0.1428314	191.3 0.1546158	191.3 0.3619714
382.8 0.1877702	191.4 0.1608923	191.4 0.1485969	191.4 0.3138455
383 0.2063786	191.5 0.1767732	191.5 0.1535437	191.5 0.332956
383.2 0.210373	191.6 0.1458384	191.6 0.1315597	191.6 0.2991736
383.4 0.1836569	191.7 0.1049654	191.7 0.1259578	191.7 0.3444714
383.6 0.2106912	191.8 0.1201713	191.8 0.1559832	191.8 0.3299921
383.8 0.2285195	191.9 0.1191276	191.9 0.1676731	191.9 0.3425106
384 0.1915521	192 0.1082153	192 0.1539707	192 0.3577171
384.2 0.2096615	192.1 0.1832818	192.1 0.1557544	192.1 0.3110517
384.4 0.1894207	192.2 0.1800023	192.2 0.15341	192.2 0.3164797
384.6 0.1811041	192.3 0.1616478	192.3 0.1609049	192.3 0.3703977
384.8 0.1918124	192.4 0.1779069	192.4 0.180018	192.4 0.3674926
385 0.1921794	192.5 0.185685	192.5 0.172984	192.5 0.360153
385.2 0.1883019	192.6 0.1688578	192.6 0.1569385	192.6 0.3433409
385.4 0.1951189	192.7 0.1326069	192.7 0.1539668	192.7 0.3293943
385.6 0.1876521	192.8 0.1260206	192.8 0.1541746	192.8 0.3374259
385.8 0.1888378	192.9 0.1381018	192.9 0.1600419	192.9 0.3718123
386 0.1889892	193 0.1490109	193 0.146212	193 0.3234808
386.2 0.1867906	193.1 0.1587736	193.1 0.1270086	193.1 0.396262
386.4 0.1829559	193.2 0.1251183	193.2 0.1301643	193.2 0.3809102
386.6 0.1815668	193.3 0.1563963	193.3 0.1497843	193.3 0.3240684
386.8 0.1773657	193.4 0.1229339	193.4 0.1527808	193.4 0.3585223
387 0.1862314	193.5 0.1473252	193.5 0.1691847	193.5 0.3808906
387.2 0.1830401	193.6 0.1536719	193.6 0.1484643	193.6 0.3883113

387.4 0.1887526	193.7 0.1626226	193.7 0.14231	193.7 0.3202573
387.6 0.2212002	193.8 0.102099	193.8 0.1409664	193.8 0.3777658
387.8 0.2236655	193.9 0.0845832	193.9 0.1444697	193.9 0.3840942
388 0.2147245	194 0.1028963	194 0.1378622	194 0.4276856
388.2 0.2065128	194.1 0.0913682	194.1 0.1423635	194.1 0.3804389
388.4 0.210716	194.2 0.0965063	194.2 0.1319212	194.2 0.3378115
388.6 0.2345607	194.3 0.1160217	194.3 0.126064	194.3 0.3693442
388.8 0.2140792	194.4 0.0828156	194.4 0.1416909	194.4 0.349306
389 0.2146154	194.5 0.1610033	194.5 0.1551055	194.5 0.3345939
389.2 0.2200708	194.6 0.1429924	194.6 0.1567532	194.6 0.2762452
389.4 0.2150066	194.7 0.1476497	194.7 0.1372706	194.7 0.3407287
389.6 0.2082244	194.8 0.1247846	194.8 0.1436029	194.8 0.3768974
389.8 0.211904	194.9 0.1603788	194.9 0.1406834	194.9 0.4638949
390 0.2193636	195 0.142869	195 0.148702	195 0.4423873
390.2 0.2140094	195.1 0.1129458	195.1 0.1464864	195.1 0.4725882
390.4 0.2040866	195.2 0.2021748	195.2 0.1668212	195.2 0.4300634
390.6 0.2015596	195.3 0.1088794	195.3 0.1787354	195.3 0.3845328
390.8 0.2038624	195.4 0.1045285	195.4 0.15094	195.4 0.3956269
391 0.2082355	195.5 0.1274811	195.5 0.1649921	195.5 0.4739055
391.2 0.2045706	195.6 0.1023266	195.6 0.1506325	195.6 0.3886892
391.4 0.2219607	195.7 0.079752	195.7 0.1609697	195.7 0.3990595
391.6 0.220999	195.8 0.1800659	195.8 0.1618608	195.8 0.3651648
391.8 0.2123561	195.9 0.1232696	195.9 0.1661591	195.9 0.3909523
392 0.1933785	196 0.1298427	196 0.1490217	196 0.3875968
392.2 0.1848843	196.1 0.1515248	196.1 0.1719774	196.1 0.3996528
392.4 0.2238469	196.2 0.1391911	196.2 0.1289682	196.2 0.4746321
392.6 0.2333882	196.3 0.131143	196.3 0.1372964	196.3 0.4122292
392.8 0.1969954	196.4 0.1678063	196.4 0.1425748	196.4 0.4091668
393 0.2008926	196.5 0.1185617	196.5 0.1487812	196.5 0.4294515
393.2 0.1882113	196.6 0.1502717	196.6 0.1404335	196.6 0.3757139
393.4 0.2011815	196.7 0.1310807	196.7 0.1342265	196.7 0.3988608
393.6 0.1985539	196.8 0.1060592	196.8 0.1246036	196.8 0.4250473
393.8 0.1832049	196.9 0.1500351	196.9 0.1420417	196.9 0.3546776
394 0.213786	197 0.1376144	197 0.1284368	197 0.3686959
394.2 0.2055909	197.1 0.1523132	197.1 0.1344169	197.1 0.3464413
394.4 0.2000073	197.2 0.179811	197.2 0.1462927	197.2 0.3284193
394.6 0.2011248	197.3 0.1619089	197.3 0.1460477	197.3 0.3430503
394.8 0.2055826	197.4 0.1480937	197.4 0.142243	197.4 0.3647808
395 0.1980457	197.5 0.1382516	197.5 0.1370433	197.5 0.33934
395.2 0.2105519	197.6 0.1379698	197.6 0.1431535	197.6 0.3541947
395.4 0.2072295	197.7 0.1380261	197.7 0.1464653	197.7 0.3845991
395.6 0.2146398	197.8 0.1682162	197.8 0.1399593	197.8 0.3713598
395.8 0.2161161	197.9 0.1151927	197.9 0.1405931	197.9 0.3426189
396 0.2002697	198 0.1158475	198 0.1250482	198 0.3691235
396.2 0.2142387	198.1 0.1259918	198.1 0.1520736	198.1 0.3096173
396.4 0.2074244	198.2 0.1417511	198.2 0.1396886	198.2 0.3736279
396.6 0.2068651	198.3 0.1168977	198.3 0.126005	198.3 0.3462892
396.8 0.2038845	198.4 0.1328126	198.4 0.1382736	198.4 0.3423109
397 0.2077535	198.5 0.1313374	198.5 0.1467534	198.5 0.3828291
397.2 0.2100953	198.6 0.1061763	198.6 0.1488075	198.6 0.2921034
397.4 0.1987373	198.7 0.1126782	198.7 0.1519033	198.7 0.3106176

397.6 0.2003418	198.8 0.1277967	198.8 0.1639559	198.8 0.3137075
397.8 0.205465	198.9 0.1107444	198.9 0.1402959	198.9 0.3863346
398 0.2152129	199 0.1678097	199 0.1370704	199 0.3880056
398.2 0.1990879	199.1 0.1109283	199.1 0.1483546	199.1 0.3766519
398.4 0.2058888	199.2 0.1718604	199.2 0.1311305	199.2 0.4220191
398.6 0.2066335	199.3 0.204176	199.3 0.1314003	199.3 0.3505469
398.8 0.2110788	199.4 0.1720264	199.4 0.1356013	199.4 0.3597434
399 0.1958484	199.5 0.1196441	199.5 0.1435536	199.5 0.3983837
399.2 0.1931457	199.6 0.1459331	199.6 0.1223396	199.6 0.4085734
399.4 0.2069374	199.7 0.1545436	199.7 0.1301844	199.7 0.4208151
399.6 0.2090194	199.8 0.159705	199.8 0.1316888	199.8 0.3897765
399.8 0.1966825	199.9 0.1133505	199.9 0.1449945	199.9 0.3719625
400 0.2127643	200 0.1492597	200 0.1459312	200 0.3671646
400.2 0.2109737	200.1 0.1176645	200.1 0.1284106	200.1 0.3846573
400.4 0.2234817	200.2 0.1120785	200.2 0.1433894	200.2 0.3686428
400.6 0.2177656	200.3 0.1516563	200.3 0.1454424	200.3 0.3477537
400.8 0.1979981	200.4 0.1033564	200.4 0.1457852	200.4 0.3535748
401 0.224898	200.5 0.1115404	200.5 0.1527378	200.5 0.4045223
401.2 0.2026186	200.6 0.1214139	200.6 0.1501284	200.6 0.3848822
401.4 0.2007328	200.7 0.109868	200.7 0.1421275	200.7 0.4198078
401.6 0.2235599	200.8 0.1209918	200.8 0.1587793	200.8 0.4283819
401.8 0.2126052	200.9 0.1197916	200.9 0.1501965	200.9 0.3909617
402 0.2110214	201 0.1342964	201 0.1649959	201 0.3914678
402.2 0.2029241	201.1 0.123628	201.1 0.1572213	201.1 0.4312834
402.4 0.2012361	201.2 0.1259611	201.2 0.1641088	201.2 0.4082036
402.6 0.2067983	201.3 0.1416145	201.3 0.1440815	201.3 0.3829302
402.8 0.217844	201.4 0.1265639	201.4 0.1628692	201.4 0.3715289
403 0.2164904	201.5 0.1008881	201.5 0.1638569	201.5 0.3512636
403.2 0.2123588	201.6 0.1567621	201.6 0.1547383	201.6 0.4054617
403.4 0.2128503	201.7 0.1466652	201.7 0.1492809	201.7 0.3332356
403.6 0.1996311	201.8 0.1560476	201.8 0.1451256	201.8 0.4204738
403.8 0.1787009	201.9 0.1379724	201.9 0.1567332	201.9 0.3432755
404 0.1818601	202 0.0836539	202 0.1469513	202 0.3260483
404.2 0.1858504	202.1 0.1094762	202.1 0.1469844	202.1 0.2509609
404.4 0.2046811	202.2 0.0896818	202.2 0.1453411	202.2 0.2597897
404.6 0.211479	202.3 0.1170015	202.3 0.1286509	202.3 0.2909522
404.8 0.2076384	202.4 0.1253093	202.4 0.1363956	202.4 0.2855997
405 0.1906731	202.5 0.1040219	202.5 0.1408496	202.5 0.2705726
405.2 0.2177596	202.6 0.1102358	202.6 0.1508114	202.6 0.2353776
405.4 0.1886045	202.7 0.0981626	202.7 0.1515839	202.7 0.281981
405.6 0.2059891	202.8 0.1275025	202.8 0.1637524	202.8 0.359041
405.8 0.1875285	202.9 0.1158309	202.9 0.1259196	202.9 0.2741598
406 0.2002471	203 0.1680212	203 0.1310764	203 0.2275033
406.2 0.1781177	203.1 0.1656571	203.1 0.1283959	203.1 0.2613881
406.4 0.1824489	203.2 0.141367	203.2 0.152132	203.2 0.2648633
406.6 0.1885924	203.3 0.1189666	203.3 0.1831315	203.3 0.2289941
406.8 0.1870445	203.4 0.1174311	203.4 0.170886	203.4 0.2514028
407 0.200343	203.5 0.1236651	203.5 0.1495841	203.5 0.2751197
407.2 0.2013691	203.6 0.1296203	203.6 0.1820459	203.6 0.242881
407.4 0.1784656	203.7 0.1627201	203.7 0.1438617	203.7 0.2146874
407.6 0.2013105	203.8 0.1746371	203.8 0.1367946	203.8 0.2150297

407.8 0.1754998	203.9 0.1594203	203.9 0.1423176	203.9 0.2066136
408 0.1810498	204 0.1411331	204 0.1565442	204 0.2549335
408.2 0.1899726	204.1 0.1321671	204.1 0.163987	204.1 0.2592309
408.4 0.1872903	204.2 0.1243565	204.2 0.1544048	204.2 0.2723654
408.6 0.1797712	204.3 0.1635058	204.3 0.1417462	204.3 0.3202082
408.8 0.1791905	204.4 0.1452695	204.4 0.1416494	204.4 0.2506051
409 0.1919287	204.5 0.1121033	204.5 0.1457694	204.5 0.2762315
409.2 0.1863806	204.6 0.0813584	204.6 0.1515094	204.6 0.2185132
409.4 0.1919144	204.7 0.0981415	204.7 0.1659438	204.7 0.244224
409.6 0.1854367	204.8 0.1184783	204.8 0.163082	204.8 0.2319661
409.8 0.1821802	204.9 0.0943685	204.9 0.1606294	204.9 0.2144372
410 0.1711941	205 0.1102774	205 0.1600892	205 0.2343441
410.2 0.1878249	205.1 0.0834562	205.1 0.1616289	205.1 0.2423571
410.4 0.1761666	205.2 0.0880608	205.2 0.151485	205.2 0.2241219
410.6 0.1865618	205.3 0.1034635	205.3 0.160017	205.3 0.2379169
410.8 0.1933753	205.4 0.1135344	205.4 0.1528326	205.4 0.2137967
411 0.1958237	205.5 0.1023406	205.5 0.1445542	205.5 0.2336703
411.2 0.195299	205.6 0.1071649	205.6 0.154506	205.6 0.2062346
411.4 0.2174529	205.7 0.098181	205.7 0.1644344	205.7 0.2139819
411.6 0.1947139	205.8 0.1294601	205.8 0.1428087	205.8 0.2321914
411.8 0.1877353	205.9 0.0719676	205.9 0.1531251	205.9 0.2648092
412 0.1874181	206 0.1022483	206 0.1742585	206 0.2562911
412.2 0.1692242	206.1 0.1000683	206.1 0.1460918	206.1 0.2210518
412.4 0.1727222	206.2 0.0964094	206.2 0.1395355	206.2 0.2378974
412.6 0.1719214	206.3 0.1157782	206.3 0.1361166	206.3 0.2466544
412.8 0.1933962	206.4 0.1003712	206.4 0.1471693	206.4 0.2888715
413 0.1575337	206.5 0.0966844	206.5 0.1388916	206.5 0.3128369
413.2 0.173652	206.6 0.146081	206.6 0.1371835	206.6 0.2544436
413.4 0.1664576	206.7 0.1327155	206.7 0.1477988	206.7 0.2774868
413.6 0.1913227	206.8 0.1408706	206.8 0.117855	206.8 0.3276199
413.8 0.1819295	206.9 0.1503778	206.9 0.1480407	206.9 0.2700879
414 0.1771159	207 0.1488611	207 0.1347324	207 0.3426675
414.2 0.1920421	207.1 0.1278242	207.1 0.1477965	207.1 0.2836537
414.4 0.1939122	207.2 0.1150261	207.2 0.1464268	207.2 0.2642085
414.6 0.1884093	207.3 0.1491996	207.3 0.1746828	207.3 0.2403734
414.8 0.1833021	207.4 0.1353368	207.4 0.1467461	207.4 0.2502834
415 0.1962781	207.5 0.2698389	207.5 0.1423125	207.5 0.2457135
415.2 0.2066429	207.6 0.236597	207.6 0.1404445	207.6 0.2720285
415.4 0.2156994	207.7 0.1468431	207.7 0.1569076	207.7 0.2588272
415.6 0.201564	207.8 0.1916797	207.8 0.1546601	207.8 0.2540559
415.8 0.1889549	207.9 0.1770864	207.9 0.1536534	207.9 0.250615
416 0.1877373	208 0.1217867	208 0.151589	208 0.2868842
416.2 0.1867329	208.1 0.1289585	208.1 0.1537723	208.1 0.2508139
416.4 0.2050196	208.2 0.1057949	208.2 0.1373216	208.2 0.2348541
416.6 0.2379362	208.3 0.1128049	208.3 0.1589281	208.3 0.2504435
416.8 0.1900287	208.4 0.1116975	208.4 0.1617141	208.4 0.2457305
417 0.190676	208.5 0.1886689	208.5 0.1554399	208.5 0.2318182
417.2 0.1955458	208.6 0.1049212	208.6 0.1650978	208.6 0.2859739
417.4 0.2042585	208.7 0.1965955	208.7 0.1323971	208.7 0.3359334
417.6 0.1942395	208.8 0.1168995	208.8 0.1418007	208.8 0.3193441
417.8 0.1955484	208.9 0.1130289	208.9 0.1482992	208.9 0.2867903

418 0.1874046	209 0.1066327	209 0.1461025	209 0.2660411
418.2 0.1818933	209.1 0.1144905	209.1 0.1159036	209.1 0.2323099
418.4 0.1972722	209.2 0.1331048	209.2 0.1401221	209.2 0.2388624
418.6 0.1972832	209.3 0.1083283	209.3 0.1312756	209.3 0.2444155
418.8 0.1970932	209.4 0.0895981	209.4 0.1519686	209.4 0.2961407
419 0.1918467	209.5 0.1006241	209.5 0.1450572	209.5 0.337486
419.2 0.1940428	209.6 0.0893577	209.6 0.1338729	209.6 0.3213859
419.4 0.2030515	209.7 0.0984601	209.7 0.1464187	209.7 0.2778794
419.6 0.1926681	209.8 0.066617	209.8 0.158999	209.8 0.262599
419.8 0.1836399	209.9 0.0926788	209.9 0.1303742	209.9 0.2676322
420 0.2023777	210 0.1294238	210 0.1521143	210 0.3389936
420.2 0.1749402	210.1 0.0960646	210.1 0.151396	210.1 0.325929
420.4 0.1778112	210.2 0.1055118	210.2 0.154674	210.2 0.3177681
420.6 0.1823177	210.3 0.1139125	210.3 0.1631732	210.3 0.2343283
420.8 0.1739608	210.4 0.1253912	210.4 0.1623145	210.4 0.2860191
421 0.1620014	210.5 0.1137051	210.5 0.172354	210.5 0.2580288
421.2 0.1849335	210.6 0.0983263	210.6 0.1614024	210.6 0.2098523
421.4 0.2249596	210.7 0.1083258	210.7 0.1734024	210.7 0.2560537
421.6 0.2015636	210.8 0.1103601	210.8 0.147761	210.8 0.3286129
421.8 0.1750951	210.9 0.1219032	210.9 0.1407837	210.9 0.2806735
422 0.2048721	211 0.1007799	211 0.1481111	211 0.2263486
422.2 0.2197868	211.1 0.0992546	211.1 0.1633907	211.1 0.2601264
422.4 0.2025591	211.2 0.1024284	211.2 0.1658878	211.2 0.2538962
422.6 0.1978562	211.3 0.1348253	211.3 0.1504458	211.3 0.2861049
422.8 0.1976161	211.4 0.1058904	211.4 0.1574554	211.4 0.3012958
423 0.18892	211.5 0.1165899	211.5 0.154129	211.5 0.3118435
423.2 0.1704812	211.6 0.1269461	211.6 0.1740424	211.6 0.2523331
423.4 0.1821926	211.7 0.1655202	211.7 0.1502543	211.7 0.3328308
423.6 0.1825604	211.8 0.1508518	211.8 0.1362305	211.8 0.294443
423.8 0.1843523	211.9 0.1304237	211.9 0.1377734	211.9 0.2629467
424 0.1755866	212 0.1320778	212 0.172833	212 0.2708081
424.2 0.1732613	212.1 0.142708	212.1 0.1609757	212.1 0.2433571
424.4 0.1962273	212.2 0.1193073	212.2 0.1683276	212.2 0.2340572
424.6 0.1944535	212.3 0.1302289	212.3 0.1278793	212.3 0.3201639
424.8 0.1651943	212.4 0.1490651	212.4 0.1545061	212.4 0.2688268
425 0.1756816	212.5 0.1350112	212.5 0.1891024	212.5 0.2920883
425.2 0.1724735	212.6 0.1187696	212.6 0.1482234	212.6 0.2406606
425.4 0.1752582	212.7 0.1337632	212.7 0.1489075	212.7 0.2289812
425.6 0.1763437	212.8 0.1272136	212.8 0.162381	212.8 0.2727092
425.8 0.1805108	212.9 0.1421513	212.9 0.1573851	212.9 0.2754837
426 0.1882981	213 0.1329532	213 0.1579343	213 0.2524317
426.2 0.1800243	213.1 0.1339655	213.1 0.1280448	213.1 0.2806528
426.4 0.1799273	213.2 0.135014	213.2 0.1227894	213.2 0.237023
426.6 0.1744817	213.3 0.1262259	213.3 0.1325248	213.3 0.252405
426.8 0.1964328	213.4 0.1246791	213.4 0.1455439	213.4 0.2360894
427 0.2025518	213.5 0.1099071	213.5 0.1588496	213.5 0.240538
427.2 0.1873183	213.6 0.0982197	213.6 0.1245391	213.6 0.3044797
427.4 0.2123613	213.7 0.1254622	213.7 0.1385182	213.7 0.2924888
427.6 0.2191793	213.8 0.1643329	213.8 0.1368134	213.8 0.2564213
427.8 0.1836096	213.9 0.1716431	213.9 0.1355904	213.9 0.2558663
428 0.1751898	214 0.1934252	214 0.1452705	214 0.2871019

428.2	0.186897	214.1	0.1896753	214.1	0.1418429	214.1	0.3259104
428.4	0.1885363	214.2	0.0996639	214.2	0.1343	214.2	0.3526028
428.6	0.1744405	214.3	0.0901079	214.3	0.1334457	214.3	0.2999865
428.8	0.1893909	214.4	0.1272424	214.4	0.1472701	214.4	0.2629568
429	0.1808817	214.5	0.1309455	214.5	0.1399278	214.5	0.2536671
429.2	0.174856	214.6	0.1685535	214.6	0.146971	214.6	0.2544915
429.4	0.1797692	214.7	0.1385916	214.7	0.1749498	214.7	0.2736619
429.6	0.2115371	214.8	0.1371599	214.8	0.1435986	214.8	0.2880583
429.8	0.181893	214.9	0.1393653	214.9	0.1560059	214.9	0.2730622
430	0.1945022	215	0.1151434	215	0.1431775	215	0.2749648
430.2	0.1933891	215.1	0.1663267	215.1	0.1360323	215.1	0.2614189
430.4	0.209801	215.2	0.1745859	215.2	0.1281861	215.2	0.251285
430.6	0.1880668	215.3	0.1845308	215.3	0.1446903	215.3	0.2645371
430.8	0.1630587	215.4	0.1681853	215.4	0.1373947	215.4	0.2789932
431	0.1877202	215.5	0.1672221	215.5	0.117182	215.5	0.2747255
431.2	0.1655731	215.6	0.1785391	215.6	0.153774	215.6	0.2677815
431.4	0.159864	215.7	0.1793634	215.7	0.1340014	215.7	0.274639
431.6	0.1567	215.8	0.207058	215.8	0.1285104	215.8	0.2891833
431.8	0.1710671	215.9	0.1780347	215.9	0.1593205	215.9	0.281065
432	0.1613629	216	0.2285012	216	0.1372089	216	0.2966107
432.2	0.1634817	216.1	0.1263427	216.1	0.1571139	216.1	0.2825254
432.4	0.1755117	216.2	0.1504461	216.2	0.129872	216.2	0.3139925
432.6	0.1610144	216.3	0.1176527	216.3	0.1436682	216.3	0.2639412
432.8	0.1797694	216.4	0.1238674	216.4	0.1663079	216.4	0.2404984
433	0.1770646	216.5	0.1505684	216.5	0.1298509	216.5	0.2637064
433.2	0.1909432	216.6	0.1491083	216.6	0.1467129	216.6	0.3084468
433.4	0.1729008	216.7	0.1137698	216.7	0.1306843	216.7	0.3216543
433.6	0.1815637	216.8	0.1234584	216.8	0.1601432	216.8	0.26667
433.8	0.1886355	216.9	0.1629883	216.9	0.1579789	216.9	0.2920018
434	0.1813762	217	0.1577274	217	0.1441997	217	0.2436237
434.2	0.1856268	217.1	0.1513523	217.1	0.1599765	217.1	0.2407461
434.4	0.1756041	217.2	0.1764606	217.2	0.1297598	217.2	0.2652985
434.6	0.1849201	217.3	0.1985265	217.3	0.1218051	217.3	0.3059556
434.8	0.1872479	217.4	0.185493	217.4	0.1247968	217.4	0.2381125
435	0.1881581	217.5	0.1574508	217.5	0.1506155	217.5	0.2485538
435.2	0.2027944	217.6	0.1007231	217.6	0.137972	217.6	0.2512983
435.4	0.1916519	217.7	0.1359438	217.7	0.1462501	217.7	0.3101636
435.6	0.1661434	217.8	0.1168331	217.8	0.1600275	217.8	0.2916518
435.8	0.2053514	217.9	0.1464693	217.9	0.1644794	217.9	0.2452979
436	0.1839646	218	0.1133927	218	0.1270931	218	0.2810637
436.2	0.1960737	218.1	0.1202378	218.1	0.1383881	218.1	0.2359263
436.4	0.183274	218.2	0.1082595	218.2	0.1512907	218.2	0.3234766
436.6	0.1872868	218.3	0.1184274	218.3	0.1849577	218.3	0.3516266
436.8	0.1845568	218.4	0.1379137	218.4	0.1669867	218.4	0.2842809
437	0.1908979	218.5	0.1383715	218.5	0.1555239	218.5	0.2381224
437.2	0.1955425	218.6	0.2245042	218.6	0.132956	218.6	0.2732455
437.4	0.1781565	218.7	0.1621612	218.7	0.1435941	218.7	0.2806858
437.6	0.1822065	218.8	0.1419743	218.8	0.1599037	218.8	0.2520627
437.8	0.1593534	218.9	0.1463092	218.9	0.165586	218.9	0.3328409
438	0.1560731	219	0.1523497	219	0.1585941	219	0.2580982
438.2	0.1708678	219.1	0.1599513	219.1	0.1422708	219.1	0.2491729

438.4	0.1701436	219.2	0.15022	219.2	0.142436	219.2	0.290874
438.6	0.1668677	219.3	0.1135948	219.3	0.136342	219.3	0.2299414
438.8	0.1728037	219.4	0.1121313	219.4	0.1221993	219.4	0.2963471
439	0.170079	219.5	0.0993261	219.5	0.1473216	219.5	0.2761228
439.2	0.1814119	219.6	0.1040118	219.6	0.1403963	219.6	0.3484108
439.4	0.1686681	219.7	0.1054756	219.7	0.1567554	219.7	0.2670527
439.6	0.1761677	219.8	0.112045	219.8	0.1224182	219.8	0.3029996
439.8	0.1680548	219.9	0.1057641	219.9	0.1328797	219.9	0.3000252
440	0.1746881	220	0.0983459	220	0.125683	220	0.2549984
440.2	0.1798439	220.1	0.0924337	220.1	0.1299461	220.1	0.2402004
440.4	0.1771234	220.2	0.0987011	220.2	0.1248259	220.2	0.2697409
440.6	0.1665911	220.3	0.106919	220.3	0.130308	220.3	0.2993843
440.8	0.1635794	220.4	0.1593194	220.4	0.1430339	220.4	0.2876813
441	0.1654838	220.5	0.0960639	220.5	0.12179	220.5	0.281796
441.2	0.1772516	220.6	0.1059044	220.6	0.1434021	220.6	0.2871084
441.4	0.1678514	220.7	0.1103732	220.7	0.1416819	220.7	0.2784051
441.6	0.1568446	220.8	0.1050179	220.8	0.1129619	220.8	0.2498754
441.8	0.1641647	220.9	0.1151374	220.9	0.1266197	220.9	0.3002198
442	0.1698993	221	0.1172522	221	0.1378583	221	0.2356058
442.2	0.1807319	221.1	0.1571688	221.1	0.1236598	221.1	0.257828
442.4	0.1676846	221.2	0.140064	221.2	0.1366457	221.2	0.2295722
442.6	0.1525821	221.3	0.1637027	221.3	0.1689733	221.3	0.2864866
442.8	0.1616311	221.4	0.0913361	221.4	0.134397	221.4	0.2701689
443	0.1698411	221.5	0.1393467	221.5	0.1540122	221.5	0.2344373
443.2	0.1569257	221.6	0.133888	221.6	0.1302892	221.6	0.259013
443.4	0.1748111	221.7	0.1161786	221.7	0.1387431	221.7	0.2655525
443.6	0.1875078	221.8	0.1062685	221.8	0.1618617	221.8	0.2572445
443.8	0.1761927	221.9	0.1089097	221.9	0.1533957	221.9	0.2266677
444	0.1638795	222	0.1333413	222	0.16054	222	0.2468202
444.2	0.1598604	222.1	0.133592	222.1	0.1452273	222.1	0.2717005
444.4	0.1924676	222.2	0.1141496	222.2	0.1964673	222.2	0.2543496
444.6	0.1681038	222.3	0.1579802	222.3	0.1503762	222.3	0.3220208
444.8	0.1900121	222.4	0.11767	222.4	0.1945192	222.4	0.2226591
445	0.1773138	222.5	0.1241415	222.5	0.1326755	222.5	0.2936929
445.2	0.1800365	222.6	0.1186341	222.6	0.1294826	222.6	0.2455574
445.4	0.1723139	222.7	0.1133862	222.7	0.1403312	222.7	0.3481522
445.6	0.1863579	222.8	0.1123261	222.8	0.1330111	222.8	0.3083239
445.8	0.1555054	222.9	0.1071139	222.9	0.1605684	222.9	0.3351808
446	0.1884697	223	0.0951367	223	0.1427937	223	0.3023465
446.2	0.1479478	223.1	0.0955034	223.1	0.1568605	223.1	0.3276978
446.4	0.1567204	223.2	0.1668569	223.2	0.1131631	223.2	0.2566187
446.6	0.1803107	223.3	0.105359	223.3	0.1444784	223.3	0.3002569
446.8	0.1823777	223.4	0.1157759	223.4	0.142019	223.4	0.2884684
447	0.1774471	223.5	0.1301515	223.5	0.1322584	223.5	0.2769521
447.2	0.1824496	223.6	0.1021908	223.6	0.1686865	223.6	0.2796429
447.4	0.1811148	223.7	0.1004189	223.7	0.1379242	223.7	0.2302217
447.6	0.197429	223.8	0.0765477	223.8	0.1367379	223.8	0.270068
447.8	0.1523433	223.9	0.1071651	223.9	0.1366444	223.9	0.2686273
448	0.1728162	224	0.0997437	224	0.1728181	224	0.2679785
448.2	0.1608952	224.1	0.147454	224.1	0.1805273	224.1	0.2842026
448.4	0.1697867	224.2	0.1172726	224.2	0.1549252	224.2	0.2989557

448.6 0.1699652	224.3 0.0972038	224.3 0.1523905	224.3 0.3431532
448.8 0.1775495	224.4 0.1125862	224.4 0.1222315	224.4 0.3927724
449 0.1868982	224.5 0.0950107	224.5 0.1183235	224.5 0.2642774
449.2 0.1909911	224.6 0.138682	224.6 0.1437051	224.6 0.3135962
449.4 0.1893436	224.7 0.1383578	224.7 0.1563887	224.7 0.2710122
449.6 0.193893	224.8 0.1704416	224.8 0.1570826	224.8 0.2409575
449.8 0.1984662	224.9 0.1163334	224.9 0.1848664	224.9 0.2593692
450 0.1917248	225 0.1129093	225 0.1337109	225 0.2521007
450.2 0.1774613	225.1 0.124989	225.1 0.1111013	225.1 0.2864079
450.4 0.1654524	225.2 0.1599911	225.2 0.1337655	225.2 0.2725306
450.6 0.1629611	225.3 0.1250923	225.3 0.1570906	225.3 0.2868254
450.8 0.1657301	225.4 0.1263171	225.4 0.1454175	225.4 0.2449167
451 0.1577699	225.5 0.1535587	225.5 0.1938398	225.5 0.3046966
451.2 0.1545677	225.6 0.1321866	225.6 0.1689709	225.6 0.2949522
451.4 0.1559671	225.7 0.1279428	225.7 0.1425875	225.7 0.3104696
451.6 0.1564981	225.8 0.1385948	225.8 0.1577977	225.8 0.3677309
451.8 0.1690212	225.9 0.1061883	225.9 0.1729066	225.9 0.433967
452 0.1688671	226 0.150638	226 0.2076927	226 0.3874706
452.2 0.1892224	226.1 0.1339228	226.1 0.1823605	226.1 0.3806073
452.4 0.1774256	226.2 0.1550656	226.2 0.1677988	226.2 0.3493763
452.6 0.1781443	226.3 0.1376845	226.3 0.1543025	226.3 0.2683831
452.8 0.1781437	226.4 0.1352939	226.4 0.1463058	226.4 0.2470438
453 0.1834443	226.5 0.1285411	226.5 0.1562354	226.5 0.302
453.2 0.1542505	226.6 0.1494711	226.6 0.1634892	226.6 0.2730623
453.4 0.1740944	226.7 0.1473536	226.7 0.1177824	226.7 0.2819583
453.6 0.179217	226.8 0.1140901	226.8 0.1658558	226.8 0.2713127
453.8 0.178037	226.9 0.1155146	226.9 0.1598472	226.9 0.2781094
454 0.1865763	227 0.1555764	227 0.1656697	227 0.2931358
454.2 0.1839556	227.1 0.1268613	227.1 0.1892983	227.1 0.270943
454.4 0.1747528	227.2 0.1410037	227.2 0.1579143	227.2 0.3266539
454.6 0.1911127	227.3 0.1366931	227.3 0.1560459	227.3 0.2493224
454.8 0.1925987	227.4 0.1477295	227.4 0.1349262	227.4 0.2897678
455 0.163721	227.5 0.1799588	227.5 0.1486991	227.5 0.2689518
455.2 0.1838763	227.6 0.0960778	227.6 0.1672901	227.6 0.2563978
455.4 0.2037241	227.7 0.1259785	227.7 0.1532455	227.7 0.3023111
455.6 0.176597	227.8 0.1110294	227.8 0.1641393	227.8 0.2474878
455.8 0.1801171	227.9 0.0912252	227.9 0.1506467	227.9 0.2998531
456 0.1934532	228 0.1052426	228 0.1881062	228 0.3212798
456.2 0.1857544	228.1 0.1059229	228.1 0.1859817	228.1 0.2529173
456.4 0.1739412	228.2 0.1179649	228.2 0.1729258	228.2 0.2752971
456.6 0.177193	228.3 0.1016117	228.3 0.1845459	228.3 0.2667267
456.8 0.1785517	228.4 0.1212603	228.4 0.1692227	228.4 0.2945852
457 0.173268	228.5 0.106696	228.5 0.184859	228.5 0.3072618
457.2 0.1664999	228.6 0.1147853	228.6 0.1831485	228.6 0.2569478
457.4 0.1730938	228.7 0.1130629	228.7 0.1671812	228.7 0.2778673
457.6 0.193267	228.8 0.1186257	228.8 0.1716422	228.8 0.2832825
457.8 0.1975429	228.9 0.1055222	228.9 0.162036	228.9 0.2482073
458 0.1899046	229 0.1056262	229 0.1456416	229 0.2255649
458.2 0.1847886	229.1 0.1133451	229.1 0.1348141	229.1 0.2918791
458.4 0.189603	229.2 0.1215244	229.2 0.127232	229.2 0.3318308
458.6 0.1902508	229.3 0.124881	229.3 0.1430286	229.3 0.2583087

458.8 0.1745317	229.4 0.1193601	229.4 0.1038424	229.4 0.2555383
459 0.1710109	229.5 0.0990721	229.5 0.1084727	229.5 0.2801297
459.2 0.1686286	229.6 0.1297911	229.6 0.125375	229.6 0.3013839
459.4 0.1822579	229.7 0.1146484	229.7 0.1118777	229.7 0.2712077
459.6 0.1883639	229.8 0.1110284	229.8 0.1287564	229.8 0.2532724
459.8 0.2170647	229.9 0.0959184	229.9 0.1260475	229.9 0.2255496
460 0.1672503	230 0.1154303	230 0.1163477	230 0.2435145
460.2 0.1732546	230.1 0.0967051	230.1 0.1224964	230.1 0.2495077
460.4 0.1881505	230.2 0.1138979	230.2 0.1152274	230.2 0.2588373
460.6 0.1737773	230.3 0.1292525	230.3 0.11718	230.3 0.2468258
460.8 0.1797681	230.4 0.1191692	230.4 0.117391	230.4 0.2192738
461 0.1612748	230.5 0.0958922	230.5 0.1276706	230.5 0.2193742
461.2 0.1646302	230.6 0.1531352	230.6 0.1167511	230.6 0.229334
461.4 0.1817769	230.7 0.1216189	230.7 0.1249183	230.7 0.2441909
461.6 0.2066067	230.8 0.1192531	230.8 0.1073169	230.8 0.2272873
461.8 0.1928545	230.9 0.1221275	230.9 0.1331145	230.9 0.265486
462 0.18835	231 0.0909708	231 0.1267215	231 0.2547841
462.2 0.1912418	231.1 0.0922757	231.1 0.1373739	231.1 0.2354308
462.4 0.2081412	231.2 0.0890448	231.2 0.1405798	231.2 0.230489
462.6 0.1853504	231.3 0.1129592	231.3 0.1243347	231.3 0.2143942
462.8 0.1724251	231.4 0.1273743	231.4 0.1250663	231.4 0.2540317
463 0.1901349	231.5 0.133647	231.5 0.1262215	231.5 0.2690846
463.2 0.1970753	231.6 0.1181716	231.6 0.1321074	231.6 0.2557028
463.4 0.1837564	231.7 0.1134948	231.7 0.1145704	231.7 0.2455091
463.6 0.1860309	231.8 0.1083926	231.8 0.1376529	231.8 0.2467586
463.8 0.167651	231.9 0.1052222	231.9 0.14013	231.9 0.2326566
464 0.1862816	232 0.0879196	232 0.1523224	232 0.2332161
464.2 0.1775366	232.1 0.1137951	232.1 0.141801	232.1 0.2219103
464.4 0.1706403	232.2 0.1116401	232.2 0.1496109	232.2 0.2273899
464.6 0.2088579	232.3 0.0992231	232.3 0.1203463	232.3 0.241457
464.8 0.2041643	232.4 0.1409559	232.4 0.1210454	232.4 0.22679
465 0.1953427	232.5 0.141301	232.5 0.1133629	232.5 0.2436514
465.2 0.1935769	232.6 0.0949529	232.6 0.1273356	232.6 0.2236179
465.4 0.2018635	232.7 0.1122423	232.7 0.1346606	232.7 0.2441905
465.6 0.2275082	232.8 0.0969643	232.8 0.1333248	232.8 0.2310484
465.8 0.1902382	232.9 0.1063632	232.9 0.1384047	232.9 0.2289865
466 0.1878615	233 0.0897764	233 0.1320285	233 0.2314094
466.2 0.1958084	233.1 0.0747434	233.1 0.1278635	233.1 0.2560624
466.4 0.2116657	233.2 0.1274102	233.2 0.1382051	233.2 0.2331285
466.6 0.1807824	233.3 0.0986724	233.3 0.1549399	233.3 0.2495542
466.8 0.170592	233.4 0.1081063	233.4 0.1279853	233.4 0.2678345
467 0.1811211	233.5 0.1157849	233.5 0.1238058	233.5 0.2516617
467.2 0.1734723	233.6 0.1079785	233.6 0.0926798	233.6 0.2639147
467.4 0.1737462	233.7 0.1197234	233.7 0.1185142	233.7 0.2728282
467.6 0.1797164	233.8 0.132847	233.8 0.1150075	233.8 0.226206
467.8 0.1812194	233.9 0.1637827	233.9 0.1129267	233.9 0.300236
468 0.1719412	234 0.1446437	234 0.1246724	234 0.2550403
468.2 0.1780833	234.1 0.1359116	234.1 0.1281789	234.1 0.2343675
468.4 0.176753	234.2 0.130132	234.2 0.1063463	234.2 0.2554298
468.6 0.1902511	234.3 0.1337205	234.3 0.1403133	234.3 0.2471356
468.8 0.1853753	234.4 0.1083738	234.4 0.1252903	234.4 0.2579094

469 0.1826902	234.5 0.0976161	234.5 0.1336576	234.5 0.2399264
469.2 0.1822813	234.6 0.106457	234.6 0.1179777	234.6 0.2330788
469.4 0.1758665	234.7 0.1135247	234.7 0.1275726	234.7 0.2338343
469.6 0.1947322	234.8 0.124299	234.8 0.1340869	234.8 0.2505442
469.8 0.1856714	234.9 0.1429453	234.9 0.1374309	234.9 0.2655708
470 0.1812563	235 0.1061613	235 0.1417241	235 0.2640347
470.2 0.1719376	235.1 0.1008116	235.1 0.1150571	235.1 0.2726115
470.4 0.1724941	235.2 0.1330474	235.2 0.1403476	235.2 0.2472571
470.6 0.1792447	235.3 0.1369738	235.3 0.1632551	235.3 0.2623731
470.8 0.1782759	235.4 0.1238785	235.4 0.1590284	235.4 0.2512003
471 0.2024198	235.5 0.1451668	235.5 0.1281007	235.5 0.2673341
471.2 0.1936039	235.6 0.1399331	235.6 0.1096385	235.6 0.2569777
471.4 0.1812341	235.7 0.1617602	235.7 0.1196313	235.7 0.2494968
471.6 0.1948697	235.8 0.1448663	235.8 0.1083685	235.8 0.2631051
471.8 0.2004337	235.9 0.1294387	235.9 0.1097627	235.9 0.2355339
472 0.1985817	236 0.1264319	236 0.1019158	236 0.2214931
472.2 0.1910208	236.1 0.1422417	236.1 0.1002748	236.1 0.2425229
472.4 0.2131856	236.2 0.1416102	236.2 0.0933257	236.2 0.2221427
472.6 0.2174359	236.3 0.1407423	236.3 0.0991486	236.3 0.2383476
472.8 0.1931431	236.4 0.1302881	236.4 0.1126808	236.4 0.2376664
473 0.1852512	236.5 0.1037359	236.5 0.1122278	236.5 0.2348747
473.2 0.1773434	236.6 0.1134113	236.6 0.1134406	236.6 0.2318693
473.4 0.1968261	236.7 0.167963	236.7 0.1131526	236.7 0.2261311
473.6 0.1970371	236.8 0.178519	236.8 0.1052776	236.8 0.2411751
473.8 0.1862444	236.9 0.1271796	236.9 0.1168006	236.9 0.2657878
474 0.1768521	237 0.1406131	237 0.1043862	237 0.2613394
474.2 0.1967208	237.1 0.139186	237.1 0.1038348	237.1 0.2352602
474.4 0.2213614	237.2 0.1319055	237.2 0.1013371	237.2 0.2407254
474.6 0.1932496	237.3 0.1437505	237.3 0.1255061	237.3 0.2406535
474.8 0.1815873	237.4 0.1377232	237.4 0.1083103	237.4 0.2515716
475 0.1931833	237.5 0.1440463	237.5 0.1397464	237.5 0.2356078
475.2 0.184483	237.6 0.1560991	237.6 0.1427666	237.6 0.2400372
475.4 0.1670669	237.7 0.1114616	237.7 0.1436928	237.7 0.2344643
475.6 0.1986283	237.8 0.1291268	237.8 0.1244064	237.8 0.2386122
475.8 0.1811749	237.9 0.1161031	237.9 0.1390547	237.9 0.2439642
476 0.1564323	238 0.1193782	238 0.1284298	238 0.2277215
476.2 0.1827929	238.1 0.1291173	238.1 0.1092977	238.1 0.2315438
476.4 0.1772385	238.2 0.1168014	238.2 0.123274	238.2 0.2452121
476.6 0.1826766	238.3 0.1280859	238.3 0.1187272	238.3 0.2302162
476.8 0.1903151	238.4 0.1204443	238.4 0.1268358	238.4 0.2514264
477 0.1803065	238.5 0.1187053	238.5 0.1335212	238.5 0.2914627
477.2 0.1807984	238.6 0.1195251	238.6 0.1343773	238.6 0.2586758
477.4 0.1715277	238.7 0.1554594	238.7 0.1307154	238.7 0.2563785
477.6 0.1818025	238.8 0.1233238	238.8 0.1420023	238.8 0.2737488
477.8 0.1825381	238.9 0.1221391	238.9 0.1510204	238.9 0.2398455
478 0.2040141	239 0.119343	239 0.1542522	239 0.2496301
478.2 0.184885	239.1 0.1069117	239.1 0.1372021	239.1 0.2590272
478.4 0.2142431	239.2 0.1061492	239.2 0.1693047	239.2 0.2381555
478.6 0.1965114	239.3 0.0999702	239.3 0.1620173	239.3 0.2716337
478.8 0.184436	239.4 0.1127388	239.4 0.1525143	239.4 0.244755
479 0.2007101	239.5 0.1385301	239.5 0.1735108	239.5 0.2698954

479.2 0.1845718	239.6 0.1279303	239.6 0.1374013	239.6 0.2606264
479.4 0.1876041	239.7 0.126888	239.7 0.1310038	239.7 0.2672607
479.6 0.190006	239.8 0.1117682	239.8 0.1377857	239.8 0.2393523
479.8 0.2012523	239.9 0.124716	239.9 0.1473875	239.9 0.2448582
480 0.2219661	240 0.1125961	240 0.1186788	240 0.2540277
480.2 0.185046	240.1 0.1259389	240.1 0.1235103	240.1 0.2595786
480.4 0.2143052	240.2 0.1452955	240.2 0.1506112	240.2 0.238161
480.6 0.2328904	240.3 0.1391831	240.3 0.1434716	240.3 0.2451417
480.8 0.1935306	240.4 0.1163242	240.4 0.1412854	240.4 0.2282471
481 0.2033478	240.5 0.1303409	240.5 0.1215331	240.5 0.2738686
481.2 0.1906533	240.6 0.1290523	240.6 0.1378123	240.6 0.2676999
481.4 0.2150548	240.7 0.1193286	240.7 0.1312502	240.7 0.2637908
481.6 0.2142516	240.8 0.0953818	240.8 0.127167	240.8 0.2316777
481.8 0.2176199	240.9 0.0923624	240.9 0.1529951	240.9 0.2221305
482 0.2174296	241 0.106312	241 0.1642994	241 0.2261611
482.2 0.201781	241.1 0.1750545	241.1 0.1429034	241.1 0.2545256
482.4 0.2062286	241.2 0.1198991	241.2 0.1636912	241.2 0.2463068
482.6 0.2005463	241.3 0.1396037	241.3 0.1084493	241.3 0.2389324
482.8 0.1755766	241.4 0.1320197	241.4 0.1293615	241.4 0.2363925
483 0.1902299	241.5 0.1645968	241.5 0.1541659	241.5 0.2241028
483.2 0.1875761	241.6 0.1243929	241.6 0.1674436	241.6 0.2158291
483.4 0.2024912	241.7 0.1349007	241.7 0.185569	241.7 0.2526015
483.6 0.2065794	241.8 0.121844	241.8 0.1916606	241.8 0.2222594
483.8 0.2153809	241.9 0.1146948	241.9 0.1569207	241.9 0.2227251
484 0.1974145	242 0.1340122	242 0.1832577	242 0.2447308
484.2 0.2138429	242.1 0.1346743	242.1 0.218041	242.1 0.2296297
484.4 0.2079207	242.2 0.1708492	242.2 0.186327	242.2 0.234475
484.6 0.2010391	242.3 0.1414845	242.3 0.1861534	242.3 0.2341144
484.8 0.2076388	242.4 0.1579144	242.4 0.1790434	242.4 0.2645043
485 0.2194823	242.5 0.1511588	242.5 0.1965246	242.5 0.2476414
485.2 0.2146534	242.6 0.1383228	242.6 0.1949761	242.6 0.2461542
485.4 0.2168783	242.7 0.1308683	242.7 0.1996243	242.7 0.2191739
485.6 0.222881	242.8 0.1476049	242.8 0.1615378	242.8 0.2476325
485.8 0.2201373	242.9 0.1996196	242.9 0.1474038	242.9 0.2554737
486 0.2086232	243 0.174126	243 0.1613251	243 0.2487295
486.2 0.209563	243.1 0.1610984	243.1 0.1697977	243.1 0.2460016
486.4 0.217488	243.2 0.1236836	243.2 0.1370757	243.2 0.2276807
486.6 0.2025746	243.3 0.1425498	243.3 0.1470736	243.3 0.236171
486.8 0.2066018	243.4 0.1364306	243.4 0.1618158	243.4 0.2276232
487 0.1966621	243.5 0.1476321	243.5 0.1572061	243.5 0.2335767
487.2 0.1893615	243.6 0.1481385	243.6 0.1990561	243.6 0.2231841
487.4 0.2018304	243.7 0.1925422	243.7 0.1952631	243.7 0.2333651
487.6 0.1859055	243.8 0.2018298	243.8 0.1787597	243.8 0.2203256
487.8 0.1896046	243.9 0.2325438	243.9 0.165399	243.9 0.2450061
488 0.1919376	244 0.1817516	244 0.1703056	244 0.2531095
488.2 0.1920368	244.1 0.1287842	244.1 0.154869	244.1 0.2113331
488.4 0.2017208	244.2 0.1727558	244.2 0.1761252	244.2 0.2159647
488.6 0.2456706	244.3 0.1559429	244.3 0.1657676	244.3 0.2122784
488.8 0.2408351	244.4 0.2622664	244.4 0.1642118	244.4 0.2125375
489 0.2983978	244.5 0.1831292	244.5 0.1601186	244.5 0.2101913
489.2 0.2770773	244.6 0.2317088	244.6 0.1947859	244.6 0.2398338

489.4 0.2443222	244.7 0.2534056	244.7 0.1337559	244.7 0.212823
489.6 0.2580387	244.8 0.2336134	244.8 0.1355876	244.8 0.2415018
489.8 0.2867117	244.9 0.295313	244.9 0.1473346	244.9 0.2161639
490 0.2620775	245 0.2974747	245 0.1758013	245 0.2335159
490.2 0.2911632	245.1 0.2543476	245.1 0.1763487	245.1 0.2279938
490.4 0.2650317	245.2 0.2490671	245.2 0.1680024	245.2 0.2161942
490.6 0.2847816	245.3 0.2468113	245.3 0.1674259	245.3 0.2123007
490.8 0.277296	245.4 0.2866726	245.4 0.1722843	245.4 0.2420304
491 0.2760318	245.5 0.229873	245.5 0.1569501	245.5 0.2285875
491.2 0.251624	245.6 0.2375728	245.6 0.1649332	245.6 0.2336903
491.4 0.2576402	245.7 0.1747404	245.7 0.1497007	245.7 0.2118382
491.6 0.279226	245.8 0.1765621	245.8 0.140471	245.8 0.2294643
491.8 0.2603371	245.9 0.2243135	245.9 0.1624243	245.9 0.2113926
492 0.2886356	246 0.1087848	246 0.1542859	246 0.2166238
492.2 0.2722581	246.1 0.1124643	246.1 0.1888459	246.1 0.2024764
492.4 0.2710202	246.2 0.1655428	246.2 0.1610566	246.2 0.2451574
492.6 0.2659346	246.3 0.13255	246.3 0.171061	246.3 0.2174837
492.8 0.253056	246.4 0.1876397	246.4 0.1716537	246.4 0.2218538
493 0.2666674	246.5 0.1685778	246.5 0.1746406	246.5 0.2239145
493.2 0.2751588	246.6 0.1137562	246.6 0.1680691	246.6 0.2006637
493.4 0.2677275	246.7 0.1215057	246.7 0.1798875	246.7 0.2252823
493.6 0.2818564	246.8 0.1531648	246.8 0.1856335	246.8 0.2263152
493.8 0.3182336	246.9 0.127901	246.9 0.1779876	246.9 0.2006787
494 0.2714045	247 0.1321934	247 0.1606521	247 0.2288146
494.2 0.2568624	247.1 0.1454735	247.1 0.1747738	247.1 0.2178265
494.4 0.2703708	247.2 0.1226428	247.2 0.1477275	247.2 0.2383506
494.6 0.2897447	247.3 0.120458	247.3 0.1480559	247.3 0.218981
494.8 0.2485854	247.4 0.1062241	247.4 0.1698528	247.4 0.2121817
495 0.2937291	247.5 0.1293055	247.5 0.1722716	247.5 0.233046
495.2 0.2846397	247.6 0.0906896	247.6 0.1690099	247.6 0.2031238
495.4 0.3083437	247.7 0.1079194	247.7 0.1516236	247.7 0.2278967
495.6 0.2621022	247.8 0.1166986	247.8 0.1526319	247.8 0.2084975
495.8 0.2834249	247.9 0.1021673	247.9 0.1494395	247.9 0.2015311
496 0.2940373	248 0.1162843	248 0.1526803	248 0.24861
496.2 0.2767501	248.1 0.1177114	248.1 0.1722473	248.1 0.2313031
496.4 0.2782488	248.2 0.1375334	248.2 0.1728676	248.2 0.2345665
496.6 0.2609956	248.3 0.1308185	248.3 0.1512744	248.3 0.2168971
496.8 0.2956927	248.4 0.1205332	248.4 0.1570036	248.4 0.2326391
497 0.2904746	248.5 0.1192135	248.5 0.2000633	248.5 0.2057758
497.2 0.2629289	248.6 0.167884	248.6 0.1680278	248.6 0.2021294
497.4 0.2762528	248.7 0.1224301	248.7 0.1805088	248.7 0.2135099
497.6 0.267992	248.8 0.1453633	248.8 0.18475	248.8 0.2167343
497.8 0.2811603	248.9 0.1473434	248.9 0.1566803	248.9 0.2114926
498 0.2561841	249 0.1473996	249 0.1675107	249 0.2141749
498.2 0.2569485	249.1 0.1320492	249.1 0.176595	249.1 0.2036073
498.4 0.2618363	249.2 0.1195015	249.2 0.169257	249.2 0.2132175
498.6 0.2696199	249.3 0.1193012	249.3 0.1787584	249.3 0.2327163
498.8 0.2574466	249.4 0.1175505	249.4 0.1685251	249.4 0.225077
499 0.2695321	249.5 0.1134891	249.5 0.1645577	249.5 0.2154307
499.2 0.2629343	249.6 0.1329416	249.6 0.1445466	249.6 0.2174776
499.4 0.2689951	249.7 0.1156334	249.7 0.1488127	249.7 0.2039358

499.6 0.2817644	249.8 0.1218906	249.8 0.1488503	249.8 0.2229985
499.8 0.2629244	249.9 0.1680217	249.9 0.1257654	249.9 0.2321761
500 0.2657613	250 0.1464381	250 0.171694	250 0.2386169
500.2 0.2642207	250.1 0.1456084	250.1 0.1376796	250.1 0.2000439
500.4 0.2570359	250.2 0.1181561	250.2 0.1488204	250.2 0.2274797
500.6 0.2656167	250.3 0.0986795	250.3 0.178451	250.3 0.2168589
500.8 0.2449452	250.4 0.1125211	250.4 0.1394431	250.4 0.2185818
501 0.2604732	250.5 0.1276648	250.5 0.1561301	250.5 0.2163954
501.2 0.2713746	250.6 0.1355981	250.6 0.1753816	250.6 0.2433043
501.4 0.2547392	250.7 0.1183031	250.7 0.1608003	250.7 0.2409495
501.6 0.2568482	250.8 0.1463259	250.8 0.1513661	250.8 0.2495713
501.8 0.2531836	250.9 0.1182473	250.9 0.1523565	250.9 0.1997429
502 0.2690762	251 0.1604099	251 0.1699881	251 0.2042699
502.2 0.245523	251.1 0.1263923	251.1 0.1521898	251.1 0.2076987
502.4 0.285218	251.2 0.1329787	251.2 0.1461371	251.2 0.2174364
502.6 0.2731303	251.3 0.140899	251.3 0.1512324	251.3 0.2144598
502.8 0.2610265	251.4 0.1248846	251.4 0.1424802	251.4 0.2589049
503 0.2749702	251.5 0.1639299	251.5 0.1558137	251.5 0.2129541
503.2 0.2612038	251.6 0.1457142	251.6 0.1537614	251.6 0.2125207
503.4 0.253684	251.7 0.1984172	251.7 0.1532401	251.7 0.2571217
503.6 0.2669531	251.8 0.1766497	251.8 0.1607873	251.8 0.246962
503.8 0.2571118	251.9 0.1383941	251.9 0.1646618	251.9 0.2168779
504 0.2741469	252 0.1315318	252 0.1569859	252 0.2191367
504.2 0.2733132	252.1 0.1844319	252.1 0.1334836	252.1 0.2311967
504.4 0.2790854	252.2 0.140697	252.2 0.160062	252.2 0.2344677
504.6 0.2738656	252.3 0.164466	252.3 0.167529	252.3 0.2522157
504.8 0.2727226	252.4 0.1397551	252.4 0.1868024	252.4 0.2423916
505 0.2797217	252.5 0.1347979	252.5 0.141159	252.5 0.2531318
505.2 0.2561149	252.6 0.1797477	252.6 0.1196271	252.6 0.223299
505.4 0.2577051	252.7 0.129824	252.7 0.1493101	252.7 0.2118821
505.6 0.2517488	252.8 0.1426894	252.8 0.1242395	252.8 0.2189084
505.8 0.2537573	252.9 0.1545647	252.9 0.118519	252.9 0.2128119
506 0.2499888	253 0.2371149	253 0.1475967	253 0.2264191
506.2 0.2482503	253.1 0.1492485	253.1 0.124236	253.1 0.2191575
506.4 0.2422594	253.2 0.1764826	253.2 0.1259105	253.2 0.2281654
506.6 0.2434374	253.3 0.1146848	253.3 0.1261811	253.3 0.2726061
506.8 0.256532	253.4 0.1843687	253.4 0.1425893	253.4 0.2500716
507 0.2559649	253.5 0.2154324	253.5 0.1252826	253.5 0.2240654
507.2 0.2473589	253.6 0.266674	253.6 0.1208251	253.6 0.2100449
507.4 0.2410043	253.7 0.2605334	253.7 0.1286882	253.7 0.2528389
507.6 0.245056	253.8 0.2284682	253.8 0.1219552	253.8 0.23447
507.8 0.2384346	253.9 0.2226913	253.9 0.1238863	253.9 0.2118699
508 0.2618614	254 0.2893995	254 0.1332359	254 0.2246416
508.2 0.2763501	254.1 0.347049	254.1 0.1194374	254.1 0.2301151
508.4 0.2543783	254.2 0.3025602	254.2 0.1095963	254.2 0.2431436
508.6 0.2531067	254.3 0.3315459	254.3 0.1608503	254.3 0.2377366
508.8 0.2522088	254.4 0.256705	254.4 0.1696706	254.4 0.2523736
509 0.2567607	254.5 0.1567977	254.5 0.1577062	254.5 0.2286292
509.2 0.2665706	254.6 0.1159052	254.6 0.140292	254.6 0.2150011
509.4 0.246608	254.7 0.13872	254.7 0.1455932	254.7 0.2403608
509.6 0.2500042	254.8 0.1556237	254.8 0.1398487	254.8 0.2592018

509.8 0.2346769	254.9 0.1640145	254.9 0.1529762	254.9 0.2143092
510 0.2155924	255 0.1462379	255 0.1656015	255 0.2089109
510.2 0.2086866	255.1 0.1285151	255.1 0.1643491	255.1 0.2044303
510.4 0.2226546	255.2 0.1424496	255.2 0.1452898	255.2 0.223701
510.6 0.213439	255.3 0.1599443	255.3 0.1732557	255.3 0.211698
510.8 0.1917578	255.4 0.1708719	255.4 0.1872606	255.4 0.2389954
511 0.1912774	255.5 0.1382725	255.5 0.181044	255.5 0.2320529
511.2 0.1897839	255.6 0.1311985	255.6 0.1955402	255.6 0.2685772
511.4 0.2095804	255.7 0.1424783	255.7 0.1829951	255.7 0.2843923
511.6 0.2197994	255.8 0.1311795	255.8 0.163646	255.8 0.2618062
511.8 0.2213142	255.9 0.1317411	255.9 0.1631086	255.9 0.2529437
512 0.2293721	256 0.1184372	256 0.1780274	256 0.2379356
512.2 0.2057288	256.1 0.1590288	256.1 0.1911013	256.1 0.2301536
512.4 0.2107025	256.2 0.150863	256.2 0.1824232	256.2 0.2193603
512.6 0.1989027	256.3 0.1705634	256.3 0.1807531	256.3 0.2239452
512.8 0.1983078	256.4 0.152408	256.4 0.200865	256.4 0.2458913
513 0.2306763	256.5 0.1794407	256.5 0.1660997	256.5 0.2362607
513.2 0.2054992	256.6 0.147487	256.6 0.1734557	256.6 0.2446822
513.4 0.1952951	256.7 0.1437406	256.7 0.1577056	256.7 0.2423236
513.6 0.1905926	256.8 0.1335794	256.8 0.1894959	256.8 0.2496472
513.8 0.1912508	256.9 0.1069667	256.9 0.158058	256.9 0.2392242
514 0.1832187	257 0.1263095	257 0.134817	257 0.2621255
514.2 0.1966832	257.1 0.1227809	257.1 0.1359505	257.1 0.2140179
514.4 0.1878132	257.2 0.128119	257.2 0.1376486	257.2 0.2168071
514.6 0.1951087	257.3 0.130826	257.3 0.111376	257.3 0.2640196
514.8 0.2082569	257.4 0.1282563	257.4 0.137764	257.4 0.2739197
515 0.2107194	257.5 0.1298854	257.5 0.1686213	257.5 0.242834
515.2 0.1944534	257.6 0.1188688	257.6 0.1660713	257.6 0.2414582
515.4 0.2024908	257.7 0.1150166	257.7 0.1468613	257.7 0.2295821
515.6 0.1938795	257.8 0.110859	257.8 0.1448748	257.8 0.2572054
515.8 0.1975552	257.9 0.1323215	257.9 0.1438452	257.9 0.2825537
516 0.2169054	258 0.1327234	258 0.13967	258 0.2556303
516.2 0.2123538	258.1 0.1101439	258.1 0.1507125	258.1 0.2656437
516.4 0.1983529	258.2 0.1012081	258.2 0.13553	258.2 0.266359
516.6 0.2004119	258.3 0.1443301	258.3 0.1364329	258.3 0.2455253
516.8 0.2261304	258.4 0.1855356	258.4 0.1528989	258.4 0.2452625
517 0.1919358	258.5 0.1565768	258.5 0.157267	258.5 0.2285323
517.2 0.1996362	258.6 0.1211154	258.6 0.1455686	258.6 0.2362892
517.4 0.1914686	258.7 0.1098882	258.7 0.1449037	258.7 0.2460083
517.6 0.2153579	258.8 0.1208901	258.8 0.1259706	258.8 0.2359148
517.8 0.2339923	258.9 0.11356	258.9 0.1566447	258.9 0.2303697
518 0.1945999	259 0.101111	259 0.1361576	259 0.2532356
518.2 0.2046534	259.1 0.1348361	259.1 0.1373916	259.1 0.2682284
518.4 0.2226861	259.2 0.1271503	259.2 0.1585496	259.2 0.2379543
518.6 0.2096963	259.3 0.1270913	259.3 0.1480881	259.3 0.2798822
518.8 0.1946491	259.4 0.0920785	259.4 0.1301371	259.4 0.2558831
519 0.213615	259.5 0.1058299	259.5 0.1265878	259.5 0.2997932
519.2 0.2085657	259.6 0.0959177	259.6 0.1226426	259.6 0.24456
519.4 0.2299447	259.7 0.1082649	259.7 0.1598492	259.7 0.2409265
519.6 0.2480989	259.8 0.1141307	259.8 0.1537936	259.8 0.2422203
519.8 0.1965446	259.9 0.103194	259.9 0.1402641	259.9 0.2451939

520 0.2271414	260 0.1379232	260 0.1635575	260 0.2615571
520.2 0.2019822	260.1 0.1211308	260.1 0.163436	260.1 0.2620578
520.4 0.2011821	260.2 0.1205177	260.2 0.1645936	260.2 0.2343237
520.6 0.2053536	260.3 0.1077546	260.3 0.1324524	260.3 0.2390365
520.8 0.2257374	260.4 0.1188397	260.4 0.1541417	260.4 0.2388365
521 0.1982521	260.5 0.121193	260.5 0.1464731	260.5 0.2392673
521.2 0.2407183	260.6 0.1211748	260.6 0.13581	260.6 0.2477695
521.4 0.2019458	260.7 0.1080499	260.7 0.1243578	260.7 0.2557514
521.6 0.2089293	260.8 0.1017771	260.8 0.1443715	260.8 0.2577536
521.8 0.1808261	260.9 0.1442007	260.9 0.1276169	260.9 0.2413948
522 0.1908688	261 0.1270812	261 0.1315376	261 0.2612205
522.2 0.1934684	261.1 0.1310171	261.1 0.1310787	261.1 0.2679498
522.4 0.2058183	261.2 0.1541734	261.2 0.1306922	261.2 0.2637183
522.6 0.2064057	261.3 0.1154796	261.3 0.1356095	261.3 0.2551444
522.8 0.2019372	261.4 0.1869782	261.4 0.1301365	261.4 0.2541223
523 0.1885832	261.5 0.116084	261.5 0.1307048	261.5 0.24452
523.2 0.2075602	261.6 0.1440363	261.6 0.1415807	261.6 0.2586292
523.4 0.186651	261.7 0.1399347	261.7 0.1225173	261.7 0.2697007
523.6 0.2086951	261.8 0.11082	261.8 0.1431791	261.8 0.2343391
523.8 0.2071448	261.9 0.1901659	261.9 0.1347203	261.9 0.2948557
524 0.2190337	262 0.1500671	262 0.1463571	262 0.2413252
524.2 0.2255961	262.1 0.1337015	262.1 0.1488304	262.1 0.3159169
524.4 0.2249477	262.2 0.1620823	262.2 0.143966	262.2 0.2874892
524.6 0.2416063	262.3 0.1574373	262.3 0.1518292	262.3 0.2634911
524.8 0.2491371	262.4 0.1856944	262.4 0.1593375	262.4 0.2512388
525 0.2312385	262.5 0.1773293	262.5 0.1570377	262.5 0.2649062
525.2 0.2202935	262.6 0.1495127	262.6 0.1386284	262.6 0.2312525
525.4 0.2575111	262.7 0.1618233	262.7 0.1512203	262.7 0.2524423
525.6 0.2740145	262.8 0.1654206	262.8 0.1293887	262.8 0.2836623
525.8 0.2139073	262.9 0.2440676	262.9 0.1196629	262.9 0.2352943
526 0.2189088	263 0.2286935	263 0.1423074	263 0.2735568
526.2 0.2181274	263.1 0.1635535	263.1 0.147942	263.1 0.2961453
526.4 0.2203384	263.2 0.1597842	263.2 0.1462682	263.2 0.2442077
526.6 0.2176327	263.3 0.1545389	263.3 0.1603492	263.3 0.2333393
526.8 0.2124128	263.4 0.1444166	263.4 0.1611514	263.4 0.2580479
527 0.2085155	263.5 0.1211168	263.5 0.1453115	263.5 0.2715651
527.2 0.2221797	263.6 0.1735411	263.6 0.1460328	263.6 0.2856289
527.4 0.2222101	263.7 0.1103046	263.7 0.1683665	263.7 0.2985766
527.6 0.1953731	263.8 0.0992357	263.8 0.1573449	263.8 0.2880585
527.8 0.2476513	263.9 0.1337126	263.9 0.1562472	263.9 0.2566215
528 0.2151211	264 0.1128426	264 0.1383364	264 0.2588283
528.2 0.212151	264.1 0.1253863	264.1 0.1490041	264.1 0.2668387
528.4 0.2212119	264.2 0.0999481	264.2 0.1608909	264.2 0.2924252
528.6 0.1970802	264.3 0.1127482	264.3 0.1486913	264.3 0.2694733
528.8 0.1900374	264.4 0.1210169	264.4 0.1458238	264.4 0.2901143
529 0.2032885	264.5 0.1172017	264.5 0.1609286	264.5 0.319318
529.2 0.2339533	264.6 0.1251485	264.6 0.1463938	264.6 0.267684
529.4 0.258642	264.7 0.1580598	264.7 0.141126	264.7 0.2956055
529.6 0.2200601	264.8 0.1253249	264.8 0.1267158	264.8 0.2725246
529.8 0.223508	264.9 0.1177003	264.9 0.1154831	264.9 0.2457676
530 0.203408	265 0.115561	265 0.1220297	265 0.2511281

530.2 0.2042267	265.1 0.1348663	265.1 0.1267554	265.1 0.2420635
530.4 0.2037733	265.2 0.1365597	265.2 0.1316101	265.2 0.2540072
530.6 0.1990753	265.3 0.1191996	265.3 0.1558442	265.3 0.2318837
530.8 0.2035427	265.4 0.1368035	265.4 0.1358124	265.4 0.2599903
531 0.1999455	265.5 0.1081353	265.5 0.1361502	265.5 0.2692134
531.2 0.2143345	265.6 0.1188655	265.6 0.1242267	265.6 0.2483047
531.4 0.2091991	265.7 0.1115851	265.7 0.1364035	265.7 0.2771278
531.6 0.2100711	265.8 0.1254884	265.8 0.1601073	265.8 0.2501457
531.8 0.2098454	265.9 0.1506689	265.9 0.1334854	265.9 0.2503873
532 0.1998181	266 0.1087928	266 0.1388387	266 0.2310343
532.2 0.2016363	266.1 0.1082799	266.1 0.1506107	266.1 0.2472059
532.4 0.2177542	266.2 0.126799	266.2 0.1423153	266.2 0.2149168
532.6 0.2191839	266.3 0.0842766	266.3 0.15569	266.3 0.2523438
532.8 0.2147639	266.4 0.1014247	266.4 0.1495211	266.4 0.2361914
533 0.2228547	266.5 0.1039991	266.5 0.1533709	266.5 0.2467014
533.2 0.2084969	266.6 0.1206326	266.6 0.1524813	266.6 0.2456345
533.4 0.2077383	266.7 0.1045758	266.7 0.1429897	266.7 0.2600392
533.6 0.2250073	266.8 0.1199024	266.8 0.1428754	266.8 0.2543708
533.8 0.1988959	266.9 0.0937647	266.9 0.1811595	266.9 0.264617
534 0.2187057	267 0.1106356	267 0.1602248	267 0.2387272
534.2 0.2397956	267.1 0.097794	267.1 0.1672679	267.1 0.25703
534.4 0.2230131	267.2 0.1354739	267.2 0.1639469	267.2 0.2513564
534.6 0.1944149	267.3 0.1456332	267.3 0.1637784	267.3 0.2591954
534.8 0.21109	267.4 0.13899	267.4 0.1432274	267.4 0.2451967
535 0.2074256	267.5 0.1217053	267.5 0.1397328	267.5 0.2588232
535.2 0.2307629	267.6 0.1075707	267.6 0.1333805	267.6 0.2656212
535.4 0.2420245	267.7 0.1004898	267.7 0.1677743	267.7 0.2692664
535.6 0.1854501	267.8 0.1116609	267.8 0.1215961	267.8 0.2300711
535.8 0.1996398	267.9 0.1249218	267.9 0.1474257	267.9 0.3094425
536 0.206205	268 0.1056301	268 0.1587384	268 0.2589687
536.2 0.198571	268.1 0.1471092	268.1 0.1436452	268.1 0.2368492
536.4 0.1912274	268.2 0.1458629	268.2 0.1721839	268.2 0.2385716
536.6 0.2055321	268.3 0.1152386	268.3 0.1327132	268.3 0.2540738
536.8 0.2015213	268.4 0.118007	268.4 0.1352482	268.4 0.2580976
537 0.2098543	268.5 0.1068914	268.5 0.1495531	268.5 0.2412648
537.2 0.1931452	268.6 0.1151499	268.6 0.1261564	268.6 0.2481291
537.4 0.1970021	268.7 0.1180221	268.7 0.1374942	268.7 0.2470703
537.6 0.1882691	268.8 0.1239526	268.8 0.1238786	268.8 0.2550983
537.8 0.179333	268.9 0.1595764	268.9 0.1320696	268.9 0.2958095
538 0.1987944	269 0.1195225	269 0.1101405	269 0.2885824
538.2 0.2141258	269.1 0.116314	269.1 0.1132829	269.1 0.2453992
538.4 0.209765	269.2 0.1354683	269.2 0.1291934	269.2 0.246573
538.6 0.1984415	269.3 0.1095558	269.3 0.1324791	269.3 0.2975967
538.8 0.2206692	269.4 0.1216352	269.4 0.1445097	269.4 0.2899973
539 0.2043935	269.5 0.1611574	269.5 0.1459536	269.5 0.2849346
539.2 0.2264288	269.6 0.1473593	269.6 0.1464332	269.6 0.2418244
539.4 0.2198547	269.7 0.1030034	269.7 0.1469895	269.7 0.2616179
539.6 0.2206603	269.8 0.1215752	269.8 0.1351471	269.8 0.2687403
539.8 0.2116335	269.9 0.1118985	269.9 0.1611825	269.9 0.2407024
540 0.2113828	270 0.1131723	270 0.1291138	270 0.2892436
540.2 0.2327977	270.1 0.1034479	270.1 0.1282962	270.1 0.2926147

540.4 0.2265617	270.2 0.1933664	270.2 0.1520698	270.2 0.2810488
540.6 0.2344241	270.3 0.1130286	270.3 0.1481292	270.3 0.303097
540.8 0.2353379	270.4 0.1627347	270.4 0.1409129	270.4 0.2998727
541 0.2144384	270.5 0.2385964	270.5 0.1511366	270.5 0.2515675
541.2 0.2147269	270.6 0.2150131	270.6 0.1552822	270.6 0.2667548
541.4 0.2142311	270.7 0.2476169	270.7 0.1463257	270.7 0.2416252
541.6 0.2090577	270.8 0.1673339	270.8 0.1404434	270.8 0.2641686
541.8 0.2163778	270.9 0.1832947	270.9 0.1404352	270.9 0.2419605
542 0.2154581	271 0.2029455	271 0.1610492	271 0.2289905
542.2 0.2417166	271.1 0.1583828	271.1 0.1371799	271.1 0.2422768
542.4 0.2447722	271.2 0.1809574	271.2 0.1490842	271.2 0.2335623
542.6 0.2495057	271.3 0.1889753	271.3 0.145756	271.3 0.2461594
542.8 0.2364662	271.4 0.228127	271.4 0.1370863	271.4 0.2330344
543 0.2206304	271.5 0.2053863	271.5 0.1282443	271.5 0.2209709
543.2 0.2164861	271.6 0.1678464	271.6 0.1047047	271.6 0.2452707
543.4 0.2293605	271.7 0.105926	271.7 0.1380524	271.7 0.2160555
543.6 0.2202386	271.8 0.1047662	271.8 0.1340746	271.8 0.226934
543.8 0.2139498	271.9 0.0930149	271.9 0.0996222	271.9 0.2147457
544 0.217496	272 0.1122045	272 0.1421697	272 0.2254347
544.2 0.2610172	272.1 0.1180319	272.1 0.1465302	272.1 0.2257229
544.4 0.2568291	272.2 0.1020146	272.2 0.1155791	272.2 0.2302579
544.6 0.2472224	272.3 0.1181002	272.3 0.1179022	272.3 0.2400918
544.8 0.2577465	272.4 0.1250939	272.4 0.1139682	272.4 0.2308451
545 0.2479112	272.5 0.1320594	272.5 0.1171091	272.5 0.2462124
545.2 0.2583091	272.6 0.1115571	272.6 0.1476555	272.6 0.3355286
545.4 0.2520308	272.7 0.1348783	272.7 0.1484147	272.7 0.2853983
545.6 0.2387755	272.8 0.1145268	272.8 0.1359617	272.8 0.2557214
545.8 0.2455712	272.9 0.1287929	272.9 0.1103549	272.9 0.24484
546 0.2442326	273 0.1447818	273 0.1479803	273 0.2764536
546.2 0.2358607	273.1 0.1536682	273.1 0.113743	273.1 0.2433142
546.4 0.2210724	273.2 0.1357211	273.2 0.1016765	273.2 0.2600383
546.6 0.2247797	273.3 0.1453174	273.3 0.1259781	273.3 0.25232
546.8 0.2518017	273.4 0.1657855	273.4 0.0975877	273.4 0.2806055
547 0.2547679	273.5 0.1918704	273.5 0.1315304	273.5 0.2769895
547.2 0.2303493	273.6 0.1448224	273.6 0.1087046	273.6 0.2655118
547.4 0.2447536	273.7 0.1815111	273.7 0.1518136	273.7 0.2401484
547.6 0.2359568	273.8 0.1621222	273.8 0.1641241	273.8 0.224163
547.8 0.2612725	273.9 0.1978313	273.9 0.1230668	273.9 0.259062
548 0.2727166	274 0.1969015	274 0.113813	274 0.2529544
548.2 0.2903684	274.1 0.1731881	274.1 0.1073162	274.1 0.2529795
548.4 0.269756	274.2 0.223217	274.2 0.1157281	274.2 0.265332
548.6 0.3048684	274.3 0.2383732	274.3 0.1215322	274.3 0.2586922
548.8 0.2893506	274.4 0.1504551	274.4 0.131225	274.4 0.2207301
549 0.2293342	274.5 0.1388837	274.5 0.1233772	274.5 0.2240599
549.2 0.2413834	274.6 0.1157314	274.6 0.117717	274.6 0.2514285
549.4 0.225402	274.7 0.1192745	274.7 0.105599	274.7 0.2143792
549.6 0.22756	274.8 0.1087252	274.8 0.1146593	274.8 0.2627853
549.8 0.21379	274.9 0.1089914	274.9 0.1124299	274.9 0.2556522
550 0.2435188	275 0.1077405	275 0.1208198	275 0.3015013
550.2 0.2279348	275.1 0.1154059	275.1 0.1242875	275.1 0.2869439
550.4 0.2277266	275.2 0.13118	275.2 0.1010061	275.2 0.2505002

550.6 0.2153749	275.3 0.1399506	275.3 0.1306518	275.3 0.2447561
550.8 0.1951737	275.4 0.1161376	275.4 0.1069982	275.4 0.2691383
551 0.2127452	275.5 0.1323444	275.5 0.1012959	275.5 0.2375547
551.2 0.2183712	275.6 0.1713826	275.6 0.1282187	275.6 0.2283409
551.4 0.194202	275.7 0.1524365	275.7 0.1447669	275.7 0.2448761
551.6 0.1853433	275.8 0.146353	275.8 0.1385355	275.8 0.2331071
551.8 0.200779	275.9 0.1097329	275.9 0.1233824	275.9 0.2338869
552 0.2034273	276 0.149379	276 0.1431324	276 0.2554584
552.2 0.2046397	276.1 0.1367894	276.1 0.145335	276.1 0.238124
552.4 0.2170649	276.2 0.1279764	276.2 0.151091	276.2 0.2585524
552.6 0.2090013	276.3 0.1277557	276.3 0.1023676	276.3 0.2562273
552.8 0.2080474	276.4 0.1039324	276.4 0.1411817	276.4 0.2445962
553 0.2075661	276.5 0.1149518	276.5 0.1353239	276.5 0.2927031
553.2 0.2114893	276.6 0.1254428	276.6 0.1133406	276.6 0.2582166
553.4 0.1962786	276.7 0.1306907	276.7 0.1445334	276.7 0.2995075
553.6 0.2094641	276.8 0.2176273	276.8 0.1170338	276.8 0.2555234
553.8 0.2195592	276.9 0.183648	276.9 0.1082645	276.9 0.2342227
554 0.2182444	277 0.2033055	277 0.1082195	277 0.2377181
554.2 0.2144824	277.1 0.2305312	277.1 0.1300858	277.1 0.2531275
554.4 0.2095769	277.2 0.1838077	277.2 0.1183006	277.2 0.256408
554.6 0.1986683	277.3 0.1971775	277.3 0.1323765	277.3 0.262709
554.8 0.2185266	277.4 0.1630906	277.4 0.1296996	277.4 0.2609855
555 0.2399375	277.5 0.1421664	277.5 0.1286114	277.5 0.2583103
555.2 0.2250781	277.6 0.1777009	277.6 0.1382523	277.6 0.265563
555.4 0.2265723	277.7 0.1275992	277.7 0.1768477	277.7 0.246587
555.6 0.2279824	277.8 0.1324533	277.8 0.1715901	277.8 0.252579
555.8 0.2200275	277.9 0.1280085	277.9 0.1708742	277.9 0.2523686
556 0.2145665	278 0.1209302	278 0.1625637	278 0.2613206
556.2 0.2242147	278.1 0.1202572	278.1 0.1218301	278.1 0.2909055
556.4 0.217598	278.2 0.1240373	278.2 0.1281396	278.2 0.2842377
556.6 0.2243796	278.3 0.1250344	278.3 0.1181665	278.3 0.2707981
556.8 0.21563	278.4 0.1363756	278.4 0.1313083	278.4 0.2518936
557 0.2262609	278.5 0.1200345	278.5 0.1454718	278.5 0.2796827
557.2 0.2156108	278.6 0.1154623	278.6 0.1267411	278.6 0.2845489
557.4 0.2163189	278.7 0.1008828	278.7 0.1600863	278.7 0.2534521
557.6 0.2237706	278.8 0.1165043	278.8 0.1330231	278.8 0.2643772
557.8 0.2163144	278.9 0.1100634	278.9 0.1556531	278.9 0.2435357
558 0.2358377	279 0.1133551	279 0.1464716	279 0.2736166
558.2 0.211215	279.1 0.1085574	279.1 0.149607	279.1 0.2520173
558.4 0.2056829	279.2 0.1658294	279.2 0.1418056	279.2 0.2518789
558.6 0.205718	279.3 0.1229195	279.3 0.1293469	279.3 0.2364404
558.8 0.2040445	279.4 0.1110239	279.4 0.1509133	279.4 0.2777944
559 0.2140145	279.5 0.1284536	279.5 0.1400317	279.5 0.2630615
559.2 0.2241931	279.6 0.0990482	279.6 0.1258648	279.6 0.2670883
559.4 0.2098935	279.7 0.1034878	279.7 0.1408414	279.7 0.2427648
559.6 0.2244696	279.8 0.1031911	279.8 0.1465776	279.8 0.2685112
559.8 0.211459	279.9 0.1460353	279.9 0.1665925	279.9 0.2514731
560 0.2179714	280 0.1320903	280 0.1356903	280 0.2704509
560.2 0.2076371	280.1 0.126597	280.1 0.1376253	280.1 0.2248566
560.4 0.2065881	280.2 0.1256621	280.2 0.1287701	280.2 0.2395017
560.6 0.2002973	280.3 0.1037364	280.3 0.1335867	280.3 0.2532853

560.8 0.2283226	280.4 0.093367	280.4 0.150755	280.4 0.2826338
561 0.223666	280.5 0.094571	280.5 0.1385782	280.5 0.284471
561.2 0.1978334	280.6 0.1137583	280.6 0.1283945	280.6 0.2763924
561.4 0.2076045	280.7 0.1681526	280.7 0.1217825	280.7 0.2948005
561.6 0.2146543	280.8 0.1503006	280.8 0.1421915	280.8 0.2947935
561.8 0.198313	280.9 0.1130119	280.9 0.1281932	280.9 0.2760618
562 0.2192814	281 0.0889172	281 0.1360549	281 0.2776965
562.2 0.1882823	281.1 0.11076	281.1 0.146587	281.1 0.256924
562.4 0.2085791	281.2 0.0945509	281.2 0.1461918	281.2 0.2610134
562.6 0.2262711	281.3 0.0837792	281.3 0.1671104	281.3 0.2844447
562.8 0.2090238	281.4 0.0863212	281.4 0.1579088	281.4 0.2945569
563 0.2144931	281.5 0.14049	281.5 0.1725558	281.5 0.2964239
563.2 0.2197754	281.6 0.1715709	281.6 0.1495691	281.6 0.2641014
563.4 0.2131965	281.7 0.147934	281.7 0.1628748	281.7 0.2855414
563.6 0.2100832	281.8 0.1091224	281.8 0.1847579	281.8 0.3207457
563.8 0.2061043	281.9 0.1147903	281.9 0.177203	281.9 0.3195956
564 0.2265245	282 0.1236817	282 0.181921	282 0.3024687
564.2 0.2192542	282.1 0.1221601	282.1 0.1481581	282.1 0.3184521
564.4 0.2424101	282.2 0.1375448	282.2 0.1415596	282.2 0.2714494
564.6 0.2272173	282.3 0.1291426	282.3 0.1667069	282.3 0.2840545
564.8 0.2014519	282.4 0.1251767	282.4 0.1686745	282.4 0.2992346
565 0.197022	282.5 0.1197212	282.5 0.1661079	282.5 0.254619
565.2 0.2196455	282.6 0.1232937	282.6 0.1496977	282.6 0.282527
565.4 0.2219125	282.7 0.1291039	282.7 0.1427955	282.7 0.2775494
565.6 0.2068665	282.8 0.1102576	282.8 0.1454622	282.8 0.2302305
565.8 0.1958752	282.9 0.1252846	282.9 0.165177	282.9 0.25928
566 0.1904769	283 0.1382108	283 0.1514692	283 0.2437476
566.2 0.1913132	283.1 0.1308297	283.1 0.1563621	283.1 0.26123
566.4 0.1968876	283.2 0.122809	283.2 0.1594569	283.2 0.2741388
566.6 0.2151019	283.3 0.1160289	283.3 0.1427014	283.3 0.2360758
566.8 0.1951264	283.4 0.129413	283.4 0.1374266	283.4 0.3121391
567 0.2355096	283.5 0.1239951	283.5 0.1644928	283.5 0.2436686
567.2 0.2093135	283.6 0.1086555	283.6 0.1628986	283.6 0.2632337
567.4 0.228374	283.7 0.1274325	283.7 0.1384996	283.7 0.2638337
567.6 0.2063728	283.8 0.1378713	283.8 0.1369895	283.8 0.2416182
567.8 0.2149839	283.9 0.1393431	283.9 0.131871	283.9 0.2573738
568 0.219227	284 0.1284289	284 0.1663884	284 0.269721
568.2 0.2135573	284.1 0.1351963	284.1 0.1679047	284.1 0.2497405
568.4 0.2077855	284.2 0.1527308	284.2 0.1681927	284.2 0.2584039
568.6 0.2075532	284.3 0.152667	284.3 0.1726216	284.3 0.2690139
568.8 0.2199713	284.4 0.1653333	284.4 0.1881323	284.4 0.225874
569 0.2223863	284.5 0.1272019	284.5 0.1560806	284.5 0.2384539
569.2 0.2225541	284.6 0.1394863	284.6 0.167914	284.6 0.243388
569.4 0.2266551	284.7 0.1525041	284.7 0.1689245	284.7 0.2565882
569.6 0.1989249	284.8 0.16055	284.8 0.1474966	284.8 0.2601781
569.8 0.2017736	284.9 0.1589581	284.9 0.1430155	284.9 0.239103
570 0.1954291	285 0.1552161	285 0.1374503	285 0.2369002
570.2 0.1929134	285.1 0.1325736	285.1 0.1428564	285.1 0.2411934
570.4 0.1989281	285.2 0.1308516	285.2 0.1400541	285.2 0.2432824
570.6 0.1884847	285.3 0.1361743	285.3 0.1450342	285.3 0.2442726
570.8 0.1995746	285.4 0.1710684	285.4 0.1477155	285.4 0.2560739

571 0.2107982	285.5 0.1458189	285.5 0.1539554	285.5 0.3191589
571.2 0.2296803	285.6 0.1820868	285.6 0.1436444	285.6 0.3048216
571.4 0.2050831	285.7 0.1659366	285.7 0.1335826	285.7 0.2418372
571.6 0.2146726	285.8 0.1783401	285.8 0.1487435	285.8 0.3339715
571.8 0.2074829	285.9 0.1343513	285.9 0.1612964	285.9 0.3036449
572 0.1936475	286 0.1418391	286 0.1610854	286 0.2897863
572.2 0.2332091	286.1 0.1467818	286.1 0.1682507	286.1 0.2742169
572.4 0.2357368	286.2 0.1614368	286.2 0.1570121	286.2 0.2544934
572.6 0.2338447	286.3 0.1552202	286.3 0.1415582	286.3 0.2956605
572.8 0.2488632	286.4 0.1594768	286.4 0.1604511	286.4 0.2669773
573 0.2359539	286.5 0.1633522	286.5 0.1363458	286.5 0.2454529
573.2 0.2445017	286.6 0.1484122	286.6 0.1620126	286.6 0.2957626
573.4 0.2231856	286.7 0.1292179	286.7 0.1305674	286.7 0.283046
573.6 0.2250143	286.8 0.1601425	286.8 0.1457116	286.8 0.2707713
573.8 0.2202219	286.9 0.155771	286.9 0.1513807	286.9 0.2504206
574 0.2365067	287 0.1721101	287 0.1696527	287 0.2548005
574.2 0.1949892	287.1 0.1561877	287.1 0.1528069	287.1 0.2755796
574.4 0.1955298	287.2 0.1509446	287.2 0.1328299	287.2 0.2733967
574.6 0.184824	287.3 0.1637313	287.3 0.1394597	287.3 0.3155377
574.8 0.2207897	287.4 0.1336099	287.4 0.1704868	287.4 0.3133521
575 0.2070006	287.5 0.1461843	287.5 0.1702253	287.5 0.3562976
575.2 0.2054095	287.6 0.1449233	287.6 0.1821938	287.6 0.3601575
575.4 0.2181119	287.7 0.1325691	287.7 0.1841663	287.7 0.3870477
575.6 0.232756	287.8 0.1455382	287.8 0.1349248	287.8 0.3107929
575.8 0.2139359	287.9 0.1445808	287.9 0.1695939	287.9 0.2840764
576 0.2096568	288 0.1466403	288 0.1629174	288 0.266253
576.2 0.2058763	288.1 0.1544987	288.1 0.1701021	288.1 0.3400996
576.4 0.2195212	288.2 0.1550176	288.2 0.1399935	288.2 0.2811076
576.6 0.224978	288.3 0.1462665	288.3 0.1335004	288.3 0.2924871
576.8 0.2218662	288.4 0.1633903	288.4 0.1449173	288.4 0.2860109
577 0.2087541	288.5 0.1642603	288.5 0.1285522	288.5 0.2803335
577.2 0.2157434	288.6 0.1337022	288.6 0.1335582	288.6 0.329169
577.4 0.2036704	288.7 0.1471913	288.7 0.133944	288.7 0.3149036
577.6 0.21925	288.8 0.1497977	288.8 0.1452434	288.8 0.2950477
577.8 0.2249314	288.9 0.1602001	288.9 0.1358199	288.9 0.296627
578 0.203835	289 0.1784046	289 0.1361535	289 0.3283691
578.2 0.2067068	289.1 0.1433335	289.1 0.1402728	289.1 0.2670549
578.4 0.2077432	289.2 0.1303133	289.2 0.1283898	289.2 0.2628856
578.6 0.1972251	289.3 0.131328	289.3 0.1562493	289.3 0.2497782
578.8 0.1961542	289.4 0.1451902	289.4 0.1618294	289.4 0.2474153
579 0.2091708	289.5 0.1378344	289.5 0.126408	289.5 0.2261532
579.2 0.2155744	289.6 0.1592177	289.6 0.1453307	289.6 0.2843598
579.4 0.2143265	289.7 0.1462327	289.7 0.141745	289.7 0.2400432
579.6 0.2084493	289.8 0.1661275	289.8 0.1397769	289.8 0.2425165
579.8 0.2188843	289.9 0.1501974	289.9 0.1302433	289.9 0.2568635
580 0.2232639	290 0.1654333	290 0.1366578	290 0.272885
580.2 0.2026044	290.1 0.1279851	290.1 0.1251848	290.1 0.2990895
580.4 0.1957738	290.2 0.1317964	290.2 0.1506759	290.2 0.2459982
580.6 0.2114843	290.3 0.1564276	290.3 0.1347492	290.3 0.2727543
580.8 0.2171068	290.4 0.1347394	290.4 0.1311089	290.4 0.2332081
581 0.2012919	290.5 0.1326943	290.5 0.127922	290.5 0.2671863

581.2	0.189833	290.6	0.1278366	290.6	0.1402746	290.6	0.2763315
581.4	0.2119776	290.7	0.1365261	290.7	0.1326534	290.7	0.2864858
581.6	0.2086382	290.8	0.1303056	290.8	0.1392363	290.8	0.2355784
581.8	0.2079948	290.9	0.1260004	290.9	0.1510593	290.9	0.2454282
582	0.2115848	291	0.1571559	291	0.1392445	291	0.2496825
582.2	0.21469	291.1	0.1575943	291.1	0.1358728	291.1	0.2745908
582.4	0.2158325	291.2	0.1423072	291.2	0.1651289	291.2	0.246923
582.6	0.1996083	291.3	0.1765914	291.3	0.1560742	291.3	0.281231
582.8	0.2235732	291.4	0.1391012	291.4	0.1261832	291.4	0.2471812
583	0.2359247	291.5	0.1334041	291.5	0.1569164	291.5	0.2757194
583.2	0.2094975	291.6	0.1189003	291.6	0.1480355	291.6	0.2805093
583.4	0.1974252	291.7	0.1207627	291.7	0.1124256	291.7	0.2426412
583.6	0.2177433	291.8	0.171572	291.8	0.1513929	291.8	0.2635209
583.8	0.1984749	291.9	0.138547	291.9	0.1601908	291.9	0.2476881
584	0.2111023	292	0.1295519	292	0.1599474	292	0.2264396
584.2	0.1945758	292.1	0.1375759	292.1	0.1391621	292.1	0.2382758
584.4	0.1892087	292.2	0.1709963	292.2	0.1495019	292.2	0.2309837
584.6	0.1920796	292.3	0.1384068	292.3	0.1670799	292.3	0.2467338
584.8	0.1843632	292.4	0.1144468	292.4	0.1492996	292.4	0.2317037
585	0.1884169	292.5	0.1135999	292.5	0.1505722	292.5	0.2384789
585.2	0.1963918	292.6	0.1129042	292.6	0.143557	292.6	0.2185121
585.4	0.2088984	292.7	0.1368519	292.7	0.158016	292.7	0.2374217
585.6	0.1830271	292.8	0.1172958	292.8	0.1618021	292.8	0.2504968
585.8	0.2126211	292.9	0.117121	292.9	0.1370188	292.9	0.2730754
586	0.2028935	293	0.1277696	293	0.1418452	293	0.234581
586.2	0.2031704	293.1	0.115296	293.1	0.1452809	293.1	0.2428025
586.4	0.2101699	293.2	0.1505989	293.2	0.1279671	293.2	0.2256084
586.6	0.1896513	293.3	0.1600107	293.3	0.1347955	293.3	0.2574211
586.8	0.2090412	293.4	0.1614527	293.4	0.1360549	293.4	0.2346648
587	0.2160799	293.5	0.1221734	293.5	0.1168099	293.5	0.2697542
587.2	0.1984497	293.6	0.1162981	293.6	0.1326043	293.6	0.2407866
587.4	0.191129	293.7	0.1217013	293.7	0.1740708	293.7	0.2765009
587.6	0.191134	293.8	0.1408883	293.8	0.1607945	293.8	0.3320513
587.8	0.19734	293.9	0.1404893	293.9	0.1431838	293.9	0.2653612
588	0.189084	294	0.1738385	294	0.1612545	294	0.2390684
588.2	0.2093164	294.1	0.1850993	294.1	0.1674158	294.1	0.2760659
588.4	0.2047469	294.2	0.1761024	294.2	0.1448528	294.2	0.2394829
588.6	0.1890908	294.3	0.1829934	294.3	0.123646	294.3	0.2357904
588.8	0.2029466	294.4	0.1707928	294.4	0.1345333	294.4	0.2461269
589	0.1866967	294.5	0.1338107	294.5	0.1767646	294.5	0.2585063
589.2	0.2081675	294.6	0.1137965	294.6	0.1507334	294.6	0.280407
589.4	0.2363105	294.7	0.1507888	294.7	0.1729307	294.7	0.2719941
589.6	0.2119193	294.8	0.1638077	294.8	0.1551602	294.8	0.2745348
589.8	0.230317	294.9	0.1399022	294.9	0.1702085	294.9	0.2795544
590	0.2273376	295	0.1639296	295	0.1829091	295	0.2480484
590.2	0.2205814	295.1	0.1667954	295.1	0.1404111	295.1	0.2546188
590.4	0.2075256	295.2	0.1434053	295.2	0.1504198	295.2	0.2508097
590.6	0.2183225	295.3	0.1801493	295.3	0.1717	295.3	0.2505687
590.8	0.2151715	295.4	0.1691261	295.4	0.1697939	295.4	0.2280142
591	0.2151662	295.5	0.1842347	295.5	0.1712733	295.5	0.2408194
591.2	0.2065529	295.6	0.1689974	295.6	0.1451007	295.6	0.248076

591.4 0.1970247	295.7 0.1679165	295.7 0.1436274	295.7 0.2453573
591.6 0.2140908	295.8 0.1530651	295.8 0.1466605	295.8 0.2564128
591.8 0.2228815	295.9 0.1887186	295.9 0.1347357	295.9 0.2443757
592 0.1931889	296 0.2162893	296 0.130045	296 0.255191
592.2 0.2075357	296.1 0.1865649	296.1 0.118991	296.1 0.2365092
592.4 0.2124283	296.2 0.1682217	296.2 0.15462	296.2 0.2675529
592.6 0.2038987	296.3 0.1650558	296.3 0.128534	296.3 0.2621809
592.8 0.2015295	296.4 0.1770392	296.4 0.1538661	296.4 0.2442522
593 0.1797718	296.5 0.1508903	296.5 0.1631263	296.5 0.2670457
593.2 0.2089281	296.6 0.1634183	296.6 0.1506763	296.6 0.2683469
593.4 0.1871842	296.7 0.1579931	296.7 0.1480606	296.7 0.2545656
593.6 0.206945	296.8 0.1384554	296.8 0.1420462	296.8 0.2580876
593.8 0.1881142	296.9 0.1411047	296.9 0.1435791	296.9 0.3398524
594 0.2157998	297 0.1613677	297 0.1646558	297 0.318956
594.2 0.1884923	297.1 0.2048955	297.1 0.1524111	297.1 0.3185841
594.4 0.1980641	297.2 0.1871682	297.2 0.1560674	297.2 0.313835
594.6 0.2168097	297.3 0.1823507	297.3 0.1828358	297.3 0.2746713
594.8 0.2111737	297.4 0.1752509	297.4 0.1637286	297.4 0.2809197
595 0.225292	297.5 0.1355289	297.5 0.1788794	297.5 0.279094
595.2 0.2123193	297.6 0.1681833	297.6 0.1824756	297.6 0.3204263
595.4 0.212643	297.7 0.1348431	297.7 0.1588387	297.7 0.28737
595.6 0.2167749	297.8 0.1512177	297.8 0.1527575	297.8 0.3298895
595.8 0.2116354	297.9 0.1673574	297.9 0.1698436	297.9 0.2796851
596 0.1933551	298 0.152538	298 0.1460152	298 0.2633293
596.2 0.2167756	298.1 0.1712161	298.1 0.1711517	298.1 0.2872492
596.4 0.2079766	298.2 0.1912072	298.2 0.1544927	298.2 0.3487699
596.6 0.2157912	298.3 0.1403264	298.3 0.1382832	298.3 0.3305941
596.8 0.205627	298.4 0.1521235	298.4 0.1424565	298.4 0.312227
597 0.2079446	298.5 0.0980298	298.5 0.1539922	298.5 0.2823701
597.2 0.1959116	298.6 0.123812	298.6 0.1677899	298.6 0.2850862
597.4 0.2158687	298.7 0.102958	298.7 0.1851399	298.7 0.2780532
597.6 0.2123148	298.8 0.12019	298.8 0.183729	298.8 0.2867891
597.8 0.2108627	298.9 0.1036558	298.9 0.1644777	298.9 0.2651918
598 0.1911387	299 0.1228352	299 0.1902316	299 0.3420731
598.2 0.1838773	299.1 0.1089107	299.1 0.1360622	299.1 0.2930917
598.4 0.1792559	299.2 0.1177494	299.2 0.1489377	299.2 0.3134864
598.6 0.1797706	299.3 0.1280843	299.3 0.1505511	299.3 0.3099614
598.8 0.191249	299.4 0.1670966	299.4 0.1319281	299.4 0.2828827
599 0.198169	299.5 0.1466759	299.5 0.1590253	299.5 0.2833706
599.2 0.1919362	299.6 0.1178306	299.6 0.155415	299.6 0.2873184
599.4 0.199403	299.7 0.1215258	299.7 0.1483096	299.7 0.2799574
599.6 0.1848346	299.8 0.132034	299.8 0.1565698	299.8 0.2688983
599.8 0.2314134	299.9 0.1417667	299.9 0.1450928	299.9 0.2665121
600 0.2062674	300 0.0999334	300 0.14901	300 0.2882685
600.2 0.2156652	300.1 0.1108745	300.1 0.1500927	300.1 0.2898525
600.4 0.2024771	300.2 0.1415329	300.2 0.1454999	300.2 0.2823423
600.6 0.1982129	300.3 0.1549449	300.3 0.1666213	300.3 0.2417379
600.8 0.218447	300.4 0.1390045	300.4 0.13791	300.4 0.2503262
601 0.2275894	300.5 0.1420437	300.5 0.1350351	300.5 0.243973
601.2 0.2461957	300.6 0.1200363	300.6 0.1309511	300.6 0.2450083
601.4 0.231207	300.7 0.1254738	300.7 0.1494955	300.7 0.2389605

601.6 0.1997642	300.8 0.120281	300.8 0.1469858	300.8 0.2875337
601.8 0.2273588	300.9 0.1247898	300.9 0.1755049	300.9 0.2306562
602 0.2274088	301 0.1344384	301 0.1681708	301 0.2793878
602.2 0.2400136	301.1 0.1288495	301.1 0.1456552	301.1 0.2521904
602.4 0.2599072	301.2 0.1560069	301.2 0.1396467	301.2 0.265701
602.6 0.2290414	301.3 0.1288946	301.3 0.1712718	301.3 0.254
602.8 0.2476205	301.4 0.1164125	301.4 0.1828528	301.4 0.2981173
603 0.2353926	301.5 0.1382238	301.5 0.1743491	301.5 0.2655334
603.2 0.2332079	301.6 0.1191581	301.6 0.1968855	301.6 0.2659584
603.4 0.2314549	301.7 0.1025363	301.7 0.1662879	301.7 0.2605411
603.6 0.2461772	301.8 0.1224843	301.8 0.1664877	301.8 0.2544048
603.8 0.2332648	301.9 0.1106929	301.9 0.1892715	301.9 0.2508174
604 0.2287747	302 0.0989124	302 0.1621116	302 0.2829168
604.2 0.2230344	302.1 0.1322884	302.1 0.1559161	302.1 0.2609834
604.4 0.2214375	302.2 0.1479014	302.2 0.1485099	302.2 0.2770682
604.6 0.2202429	302.3 0.1243553	302.3 0.1488494	302.3 0.2521643
604.8 0.2173918	302.4 0.0945055	302.4 0.142218	302.4 0.2579893
605 0.2036663	302.5 0.1018426	302.5 0.1591449	302.5 0.2619952
605.2 0.2233662	302.6 0.1342455	302.6 0.1484318	302.6 0.2549329
605.4 0.2301071	302.7 0.0874015	302.7 0.1588029	302.7 0.3015856
605.6 0.2280811	302.8 0.1109647	302.8 0.1731995	302.8 0.3615297
605.8 0.2134261	302.9 0.1146257	302.9 0.1639757	302.9 0.2936568
606 0.215803	303 0.1120168	303 0.1743962	303 0.2509625
606.2 0.2281014	303.1 0.1402323	303.1 0.1705209	303.1 0.2768101
606.4 0.2171751	303.2 0.1320289	303.2 0.1777134	303.2 0.2544542
606.6 0.2196814	303.3 0.1015949	303.3 0.151564	303.3 0.3006393
606.8 0.1988287	303.4 0.1180292	303.4 0.1636316	303.4 0.2980718
607 0.2092877	303.5 0.1235479	303.5 0.1591782	303.5 0.3241006
607.2 0.2043775	303.6 0.1608434	303.6 0.1535137	303.6 0.3263327
607.4 0.199555	303.7 0.1465041	303.7 0.1587132	303.7 0.3807404
607.6 0.2138831	303.8 0.1314811	303.8 0.1626238	303.8 0.3716272
607.8 0.2016747	303.9 0.1152914	303.9 0.1498378	303.9 0.3205331
608 0.2007597	304 0.1316874	304 0.1314878	304 0.2987618
608.2 0.2008089	304.1 0.1421183	304.1 0.1379749	304.1 0.2754349
608.4 0.2049947	304.2 0.1333786	304.2 0.1324898	304.2 0.2927437
608.6 0.1926208	304.3 0.1303052	304.3 0.1575544	304.3 0.2730278
608.8 0.2034605	304.4 0.1476519	304.4 0.1607278	304.4 0.3052168
609 0.201271	304.5 0.1385501	304.5 0.145563	304.5 0.3322128
609.2 0.2133141	304.6 0.1449331	304.6 0.144264	304.6 0.300918
609.4 0.207238	304.7 0.1177848	304.7 0.1352621	304.7 0.3250427
609.6 0.2087914	304.8 0.1192919	304.8 0.1711704	304.8 0.2975124
609.8 0.2143521	304.9 0.1382428	304.9 0.1647646	304.9 0.3245866
610 0.2113522	305 0.1288359	305 0.1404549	305 0.2657321
610.2 0.2028098	305.1 0.1268784	305.1 0.1264798	305.1 0.3032059
610.4 0.227865	305.2 0.1255457	305.2 0.1360253	305.2 0.3798059
610.6 0.2142528	305.3 0.1276471	305.3 0.1307204	305.3 0.4118109
610.8 0.2016399	305.4 0.1252719	305.4 0.1521293	305.4 0.3360523
611 0.1960429	305.5 0.1425102	305.5 0.1539616	305.5 0.3227556
611.2 0.2075868	305.6 0.1218542	305.6 0.1332861	305.6 0.2669317
611.4 0.2199584	305.7 0.1307004	305.7 0.1566489	305.7 0.2897248
611.6 0.205769	305.8 0.1409392	305.8 0.1405702	305.8 0.2710861

611.8 0.1993663	305.9 0.1531157	305.9 0.155557	305.9 0.2710157
612 0.222346	306 0.1220142	306 0.1488215	306 0.2395398
612.2 0.1978544	306.1 0.1140473	306.1 0.1296496	306.1 0.257509
612.4 0.201904	306.2 0.0961607	306.2 0.1700916	306.2 0.2847991
612.6 0.2106825	306.3 0.1030517	306.3 0.155027	306.3 0.3056515
612.8 0.2010619	306.4 0.1319133	306.4 0.146816	306.4 0.2663572
613 0.1972029	306.5 0.1491331	306.5 0.1355641	306.5 0.2496978
613.2 0.2157976	306.6 0.1466303	306.6 0.1684824	306.6 0.2718232
613.4 0.2083664	306.7 0.1413529	306.7 0.1490138	306.7 0.2698093
613.6 0.2042116	306.8 0.1209843	306.8 0.1447707	306.8 0.2500257
613.8 0.2124283	306.9 0.145116	306.9 0.1284133	306.9 0.2815892
614 0.2024574	307 0.1204086	307 0.1583466	307 0.3214993
614.2 0.1989861	307.1 0.1195059	307.1 0.1538534	307.1 0.2580265
614.4 0.2029163	307.2 0.1262209	307.2 0.1197025	307.2 0.2822719
614.6 0.2090165	307.3 0.1268377	307.3 0.1105099	307.3 0.2641478
614.8 0.2060999	307.4 0.144701	307.4 0.1243888	307.4 0.2694438
615 0.2212211	307.5 0.1066496	307.5 0.1289023	307.5 0.2625075
615.2 0.2227589	307.6 0.1285346	307.6 0.1270756	307.6 0.3157201
615.4 0.195395	307.7 0.1154461	307.7 0.1226045	307.7 0.2985918
615.6 0.19911	307.8 0.147453	307.8 0.148518	307.8 0.2518224
615.8 0.2032169	307.9 0.1517182	307.9 0.1664111	307.9 0.2574084
616 0.2034981	308 0.1692479	308 0.1449735	308 0.2770448
616.2 0.2153404	308.1 0.1375572	308.1 0.1402638	308.1 0.2732463
616.4 0.1951611	308.2 0.1436672	308.2 0.1246522	308.2 0.334455
616.6 0.2139695	308.3 0.1433025	308.3 0.1514274	308.3 0.3041531
616.8 0.2432418	308.4 0.1509319	308.4 0.1313134	308.4 0.2696434
617 0.2224045	308.5 0.138658	308.5 0.1383432	308.5 0.2573169
617.2 0.2216775	308.6 0.1267746	308.6 0.1471543	308.6 0.2977659
617.4 0.2383958	308.7 0.1266403	308.7 0.1447109	308.7 0.3065799
617.6 0.2325671	308.8 0.1714102	308.8 0.1546011	308.8 0.2571318
617.8 0.2483722	308.9 0.158431	308.9 0.1375384	308.9 0.2699618
618 0.239348	309 0.1333763	309 0.1200048	309 0.2290917
618.2 0.2536561	309.1 0.1399499	309.1 0.1311125	309.1 0.2588643
618.4 0.2759007	309.2 0.1392923	309.2 0.1833396	309.2 0.2677071
618.6 0.2504246	309.3 0.151247	309.3 0.1281746	309.3 0.3139521
618.8 0.2366493	309.4 0.1449059	309.4 0.1241608	309.4 0.3176114
619 0.2083338	309.5 0.134612	309.5 0.1172414	309.5 0.2889336
619.2 0.224293	309.6 0.14401	309.6 0.1282023	309.6 0.2492385
619.4 0.23146	309.7 0.1360342	309.7 0.1040836	309.7 0.2439671
619.6 0.2257112	309.8 0.1503759	309.8 0.1423013	309.8 0.2449377
619.8 0.2176396	309.9 0.150356	309.9 0.1300566	309.9 0.2599812
620 0.2298509	310 0.1424568	310 0.1268391	310 0.2592421
620.2 0.2365595	310.1 0.1427298	310.1 0.1438233	310.1 0.3739699
620.4 0.2603273	310.2 0.1384985	310.2 0.1339469	310.2 0.3224662
620.6 0.2367453	310.3 0.1440144	310.3 0.122084	310.3 0.3861854
620.8 0.2456062	310.4 0.1798564	310.4 0.1438704	310.4 0.372624
621 0.2526823	310.5 0.1336008	310.5 0.1243501	310.5 0.3118873
621.2 0.2255339	310.6 0.1416727	310.6 0.1380089	310.6 0.2889497
621.4 0.2023676	310.7 0.1318763	310.7 0.1315128	310.7 0.2555455
621.6 0.1965291	310.8 0.1270052	310.8 0.1509622	310.8 0.2979559
621.8 0.2111974	310.9 0.1167844	310.9 0.1417449	310.9 0.2865409

622 0.1972329	311 0.1292971	311 0.1257447	311 0.2884492
622.2 0.1817535	311.1 0.1581311	311.1 0.1403825	311.1 0.2974428
622.4 0.2045044	311.2 0.1197754	311.2 0.144559	311.2 0.2837202
622.6 0.2040914	311.3 0.1406684	311.3 0.1346687	311.3 0.3072507
622.8 0.1932852	311.4 0.1472397	311.4 0.1490645	311.4 0.2787397
623 0.2049322	311.5 0.1176122	311.5 0.141619	311.5 0.2572269
623.2 0.2085642	311.6 0.134286	311.6 0.1434317	311.6 0.2618263
623.4 0.1785401	311.7 0.1254146	311.7 0.1386824	311.7 0.2439703
623.6 0.1843918	311.8 0.126436	311.8 0.1510551	311.8 0.2865942
623.8 0.1883567	311.9 0.1129038	311.9 0.1353967	311.9 0.2750255
624 0.1877319	312 0.1411066	312 0.1551582	312 0.3061219
624.2 0.1836678	312.1 0.1001588	312.1 0.1211509	312.1 0.263328
624.4 0.1839052	312.2 0.1442582	312.2 0.1282627	312.2 0.2481157
624.6 0.2049761	312.3 0.1547718	312.3 0.1349917	312.3 0.280964
624.8 0.2044659	312.4 0.1397296	312.4 0.1278585	312.4 0.278149
625 0.1940171	312.5 0.1290541	312.5 0.1235731	312.5 0.2647539
625.2 0.2053365	312.6 0.1523327	312.6 0.137345	312.6 0.2601748
625.4 0.1860632	312.7 0.1618729	312.7 0.1240974	312.7 0.2656458
625.6 0.2001073	312.8 0.1415797	312.8 0.1265412	312.8 0.3012398
625.8 0.1990138	312.9 0.1473612	312.9 0.1234722	312.9 0.271185
626 0.1917268	313 0.1529811	313 0.1257741	313 0.3520833
626.2 0.1977011	313.1 0.1171257	313.1 0.1349887	313.1 0.3308851
626.4 0.204705	313.2 0.1321763	313.2 0.1402151	313.2 0.3440096
626.6 0.187236	313.3 0.1377448	313.3 0.1320135	313.3 0.2996531
626.8 0.1994031	313.4 0.1370101	313.4 0.1611363	313.4 0.374216
627 0.1848462	313.5 0.154479	313.5 0.1429893	313.5 0.3374642
627.2 0.202817	313.6 0.1506442	313.6 0.1425712	313.6 0.2893678
627.4 0.2282059	313.7 0.1165422	313.7 0.136755	313.7 0.2797188
627.6 0.2376661	313.8 0.1344728	313.8 0.1299768	313.8 0.2812298
627.8 0.2366186	313.9 0.1233641	313.9 0.140177	313.9 0.2931331
628 0.2375137	314 0.1356252	314 0.1447945	314 0.3306504
628.2 0.203321	314.1 0.1606329	314.1 0.1252535	314.1 0.3038116
628.4 0.2038082	314.2 0.1557945	314.2 0.1368112	314.2 0.318256
628.6 0.1932976	314.3 0.1350428	314.3 0.138691	314.3 0.2578765
628.8 0.1947074	314.4 0.1386967	314.4 0.1610666	314.4 0.2862303
629 0.2111245	314.5 0.155541	314.5 0.1478995	314.5 0.2643023
629.2 0.2308032	314.6 0.1088425	314.6 0.1298518	314.6 0.2847981
629.4 0.2276916	314.7 0.1195255	314.7 0.1569752	314.7 0.3168736
629.6 0.1845506	314.8 0.1485721	314.8 0.1583804	314.8 0.2821177
629.8 0.1878337	314.9 0.0935614	314.9 0.1304917	314.9 0.2855164
630 0.1697276	315 0.1114107	315 0.1617327	315 0.3176986
630.2 0.1735492	315.1 0.1020718	315.1 0.1446504	315.1 0.2763816
630.4 0.2040097	315.2 0.1549545	315.2 0.1591141	315.2 0.2932719
630.6 0.2234686	315.3 0.1015039	315.3 0.1387837	315.3 0.3175362
630.8 0.2247751	315.4 0.1093006	315.4 0.1334622	315.4 0.3157175
631 0.2408113	315.5 0.0964968	315.5 0.131867	315.5 0.3650208
631.2 0.2307688	315.6 0.1040955	315.6 0.1336262	315.6 0.3085297
631.4 0.197853	315.7 0.1276852	315.7 0.1508782	315.7 0.2748181
631.6 0.2062601	315.8 0.1268902	315.8 0.1460939	315.8 0.2968366
631.8 0.2050828	315.9 0.1472764	315.9 0.1560143	315.9 0.2956729
632 0.2090365	316 0.1011427	316 0.1331642	316 0.2756237

632.2 0.1967805	316.1 0.1131536	316.1 0.1562844	316.1 0.2751684
632.4 0.2152964	316.2 0.1159154	316.2 0.1636521	316.2 0.2845507
632.6 0.2019934	316.3 0.1195481	316.3 0.1532736	316.3 0.2729816
632.8 0.1850284	316.4 0.1327223	316.4 0.1345221	316.4 0.286011
633 0.2000784	316.5 0.133772	316.5 0.1455389	316.5 0.2665634
633.2 0.1838239	316.6 0.0940113	316.6 0.1527886	316.6 0.2994213
633.4 0.2190259	316.7 0.1010042	316.7 0.1334195	316.7 0.286571
633.6 0.2130572	316.8 0.1009333	316.8 0.1342474	316.8 0.3187615
633.8 0.2022885	316.9 0.1364206	316.9 0.1404851	316.9 0.3029658
634 0.2100203	317 0.1155986	317 0.1478773	317 0.2657837
634.2 0.1996785	317.1 0.101878	317.1 0.1366376	317.1 0.2673321
634.4 0.2216697	317.2 0.1239607	317.2 0.1768957	317.2 0.2755817
634.6 0.2393967	317.3 0.1041096	317.3 0.1398648	317.3 0.2945999
634.8 0.2217034	317.4 0.1262104	317.4 0.1492508	317.4 0.3035715
635 0.2376519	317.5 0.1093772	317.5 0.1401657	317.5 0.2838248
635.2 0.2120634	317.6 0.1089942	317.6 0.1353701	317.6 0.2974069
635.4 0.1943301	317.7 0.1112947	317.7 0.1279534	317.7 0.2650874
635.6 0.2038398	317.8 0.1173014	317.8 0.1413098	317.8 0.2999337
635.8 0.2232701	317.9 0.112997	317.9 0.1453322	317.9 0.3040956
636 0.2034413	318 0.1233589	318 0.1538911	318 0.3687696
636.2 0.233949	318.1 0.1355521	318.1 0.1517807	318.1 0.3886289
636.4 0.2210522	318.2 0.1227477	318.2 0.1438559	318.2 0.3901684
636.6 0.20662	318.3 0.1360018	318.3 0.1495974	318.3 0.3266126
636.8 0.2089288	318.4 0.1490795	318.4 0.1536231	318.4 0.3415816
637 0.1966174	318.5 0.1254822	318.5 0.1330858	318.5 0.3525231
637.2 0.2043159	318.6 0.1223604	318.6 0.1457767	318.6 0.3343186
637.4 0.2137351	318.7 0.1044021	318.7 0.1383052	318.7 0.2993243
637.6 0.1833264	318.8 0.1134854	318.8 0.1214417	318.8 0.2966422
637.8 0.1981183	318.9 0.1340367	318.9 0.128382	318.9 0.3207298
638 0.1827751	319 0.1223067	319 0.1131512	319 0.3003441
638.2 0.1891324	319.1 0.0941316	319.1 0.1179958	319.1 0.303455
638.4 0.1971441	319.2 0.1347374	319.2 0.1537016	319.2 0.3797531
638.6 0.1955518	319.3 0.0970701	319.3 0.1003599	319.3 0.2965559
638.8 0.2263883	319.4 0.1383703	319.4 0.1272029	319.4 0.286749
639 0.2035307	319.5 0.1130031	319.5 0.1360933	319.5 0.3727861
639.2 0.2180714	319.6 0.1663719	319.6 0.1406532	319.6 0.3217425
639.4 0.2210504	319.7 0.1490465	319.7 0.1184755	319.7 0.3077991
639.6 0.2155531	319.8 0.1580927	319.8 0.1058564	319.8 0.3074145
639.8 0.2357342	319.9 0.0886097	319.9 0.1183631	319.9 0.3334191
640 0.2321571	320 0.0996965	320 0.148554	320 0.3426778
640.2 0.2255257	320.1 0.1002364	320.1 0.1378716	320.1 0.3448474
640.4 0.2187993	320.2 0.1009445	320.2 0.1582693	320.2 0.3252242
640.6 0.1940388	320.3 0.1058295	320.3 0.1552744	320.3 0.3672381
640.8 0.2225802	320.4 0.0991579	320.4 0.1302985	320.4 0.3453213
641 0.2016398	320.5 0.0899598	320.5 0.1550238	320.5 0.3881482
641.2 0.1970976	320.6 0.1506963	320.6 0.1218016	320.6 0.3779545
641.4 0.1974277	320.7 0.1408379	320.7 0.1173164	320.7 0.3647285
641.6 0.1943785	320.8 0.1526171	320.8 0.1400885	320.8 0.4143591
641.8 0.2115512	320.9 0.1520417	320.9 0.1091028	320.9 0.3481184
642 0.2011653	321 0.1331617	321 0.1229131	321 0.3250444
642.2 0.2045193	321.1 0.1415726	321.1 0.1567504	321.1 0.3459947

642.4 0.2111716	321.2 0.164067	321.2 0.1541285	321.2 0.3032349
642.6 0.2062351	321.3 0.17155	321.3 0.1408651	321.3 0.3058505
642.8 0.2101312	321.4 0.1458436	321.4 0.1477375	321.4 0.2988161
643 0.2213948	321.5 0.1793087	321.5 0.139379	321.5 0.2849903
643.2 0.2013581	321.6 0.111114	321.6 0.1533682	321.6 0.3068217
643.4 0.2118918	321.7 0.131928	321.7 0.1362695	321.7 0.3111863
643.6 0.218354	321.8 0.1283794	321.8 0.1379982	321.8 0.2967414
643.8 0.2064708	321.9 0.1440525	321.9 0.1355335	321.9 0.2793216
644 0.2089189	322 0.1224305	322 0.1583421	322 0.3164195
644.2 0.2034845	322.1 0.1485204	322.1 0.1327245	322.1 0.3001773
644.4 0.2016672	322.2 0.1027391	322.2 0.1391294	322.2 0.3428076
644.6 0.2022893	322.3 0.1773263	322.3 0.1379369	322.3 0.3023453
644.8 0.2055495	322.4 0.1231423	322.4 0.1602921	322.4 0.3196123
645 0.1944998	322.5 0.141926	322.5 0.1425218	322.5 0.3099701
645.2 0.1996854	322.6 0.1277429	322.6 0.1531454	322.6 0.2678893
645.4 0.2063921	322.7 0.1034195	322.7 0.1413411	322.7 0.2730529
645.6 0.2122454	322.8 0.1144074	322.8 0.1326947	322.8 0.3138511
645.8 0.2077914	322.9 0.1204771	322.9 0.1406374	322.9 0.2766199
646 0.2224666	323 0.1531601	323 0.1481864	323 0.2513361
646.2 0.2056939	323.1 0.1248896	323.1 0.1438761	323.1 0.2916557
646.4 0.208814	323.2 0.1227966	323.2 0.1571379	323.2 0.2807492
646.6 0.2155937	323.3 0.1405425	323.3 0.1302909	323.3 0.2673917
646.8 0.2230847	323.4 0.1449986	323.4 0.1476449	323.4 0.2933903
647 0.2137873	323.5 0.1924219	323.5 0.142964	323.5 0.2634006
647.2 0.1889439	323.6 0.130436	323.6 0.1504031	323.6 0.2484689
647.4 0.2028887	323.7 0.1439918	323.7 0.1357949	323.7 0.3410273
647.6 0.202371	323.8 0.1485334	323.8 0.123923	323.8 0.291043
647.8 0.2083344	323.9 0.1286816	323.9 0.1585936	323.9 0.2828653
648 0.2048454	324 0.107367	324 0.1416065	324 0.2870017
648.2 0.2044754	324.1 0.1315575	324.1 0.1714706	324.1 0.3177941
648.4 0.2163792	324.2 0.1537032	324.2 0.1531965	324.2 0.3491716
648.6 0.2193068	324.3 0.1239612	324.3 0.1268078	324.3 0.3464656
648.8 0.2113103	324.4 0.1049502	324.4 0.1625753	324.4 0.2460371
649 0.1860382	324.5 0.1405229	324.5 0.1518836	324.5 0.2683537
649.2 0.1975906	324.6 0.1300003	324.6 0.1332908	324.6 0.2590346
649.4 0.1971639	324.7 0.1224586	324.7 0.1010785	324.7 0.2815227
649.6 0.1939683	324.8 0.1207721	324.8 0.1375366	324.8 0.2642753
649.8 0.2065584	324.9 0.1289128	324.9 0.1216032	324.9 0.2722785
650 0.2068535	325 0.1283572	325 0.1464552	325 0.2691132
650.2 0.2102732	325.1 0.1190126	325.1 0.1375559	325.1 0.2596164
650.4 0.1954281	325.2 0.1331098	325.2 0.1444841	325.2 0.2548321
650.6 0.2253822	325.3 0.1664543	325.3 0.1420251	325.3 0.2887174
650.8 0.2017143	325.4 0.1358692	325.4 0.1386868	325.4 0.2730416
651 0.1896746	325.5 0.1180826	325.5 0.1564088	325.5 0.2560577
651.2 0.1900869	325.6 0.1129993	325.6 0.1466058	325.6 0.2392752
651.4 0.1960538	325.7 0.132571	325.7 0.1240746	325.7 0.242889
651.6 0.1978126	325.8 0.132102	325.8 0.1395099	325.8 0.2683717
651.8 0.2086447	325.9 0.1526291	325.9 0.1529754	325.9 0.2442448
652 0.2264421	326 0.1334	326 0.1361995	326 0.2355659
652.2 0.2320933	326.1 0.1083007	326.1 0.1352316	326.1 0.264436
652.4 0.1903989	326.2 0.1051504	326.2 0.1323162	326.2 0.2623386

652.6 0.1995323	326.3 0.1100201	326.3 0.1450653	326.3 0.2578463
652.8 0.2200823	326.4 0.099732	326.4 0.1452397	326.4 0.2499563
653 0.2155561	326.5 0.1035601	326.5 0.1186949	326.5 0.2693788
653.2 0.2516474	326.6 0.1002223	326.6 0.140746	326.6 0.2748149
653.4 0.1980491	326.7 0.1117553	326.7 0.1245941	326.7 0.2607479
653.6 0.2149062	326.8 0.1064579	326.8 0.1315747	326.8 0.2921931
653.8 0.2128977	326.9 0.1167985	326.9 0.1371386	326.9 0.3036767
654 0.2219298	327 0.1053176	327 0.1474574	327 0.2803854
654.2 0.213645	327.1 0.1390285	327.1 0.1295592	327.1 0.2988979
654.4 0.2150596	327.2 0.1567475	327.2 0.1351032	327.2 0.2795182
654.6 0.2137592	327.3 0.1539507	327.3 0.1304605	327.3 0.2594261
654.8 0.2215047	327.4 0.1226485	327.4 0.1203888	327.4 0.2852283
655 0.2299907	327.5 0.1399985	327.5 0.1336727	327.5 0.2638387
655.2 0.2190739	327.6 0.107488	327.6 0.165538	327.6 0.3332189
655.4 0.2339596	327.7 0.1338724	327.7 0.1424017	327.7 0.3083592
655.6 0.2141066	327.8 0.1371818	327.8 0.1278717	327.8 0.3183249
655.8 0.2170685	327.9 0.1655326	327.9 0.1407074	327.9 0.3343821
656 0.2361359	328 0.1550599	328 0.1296406	328 0.3300318
656.2 0.2079106	328.1 0.1510232	328.1 0.1425009	328.1 0.3785012
656.4 0.2176685	328.2 0.1729228	328.2 0.1453869	328.2 0.3212046
656.6 0.2142776	328.3 0.1770639	328.3 0.1715632	328.3 0.3081964
656.8 0.216185	328.4 0.1476393	328.4 0.1528833	328.4 0.298162
657 0.2130509	328.5 0.1485825	328.5 0.1646371	328.5 0.2710102
657.2 0.2323301	328.6 0.1396806	328.6 0.1286763	328.6 0.3200462
657.4 0.2107085	328.7 0.1250181	328.7 0.132434	328.7 0.257816
657.6 0.1954906	328.8 0.1187403	328.8 0.1433329	328.8 0.3069689
657.8 0.2123525	328.9 0.1329718	328.9 0.1062684	328.9 0.2894946
658 0.2033416	329 0.1372962	329 0.1190496	329 0.2602764
658.2 0.2015945	329.1 0.1026828	329.1 0.1218347	329.1 0.2886821
658.4 0.171734	329.2 0.089787	329.2 0.1142369	329.2 0.2737994
658.6 0.1971684	329.3 0.0902472	329.3 0.1145189	329.3 0.3294653
658.8 0.1916812	329.4 0.1206192	329.4 0.1471388	329.4 0.3091005
659 0.1963691	329.5 0.104252	329.5 0.1357072	329.5 0.310145
659.2 0.2022775	329.6 0.1617263	329.6 0.1568696	329.6 0.3213407
659.4 0.2217527	329.7 0.1524239	329.7 0.1314321	329.7 0.2911527
659.6 0.2284725	329.8 0.1791565	329.8 0.1355133	329.8 0.3160846
659.8 0.1862998	329.9 0.2675474	329.9 0.1218888	329.9 0.3155673
660 0.2101881	330 0.2232633	330 0.1416505	330 0.3411703
660.2 0.2259407	330.1 0.2068235	330.1 0.1151386	330.1 0.3180319
660.4 0.2352207	330.2 0.1483247	330.2 0.1193074	330.2 0.345126
660.6 0.2208986	330.3 0.1472156	330.3 0.1279208	330.3 0.3267232
660.8 0.2213506	330.4 0.1216806	330.4 0.1345035	330.4 0.3517054
661 0.2150009	330.5 0.1404818	330.5 0.1133844	330.5 0.3246844
661.2 0.2224419	330.6 0.1607871	330.6 0.1044301	330.6 0.2789487
661.4 0.2482004	330.7 0.1917326	330.7 0.1105677	330.7 0.2804353
661.6 0.2278546	330.8 0.1747701	330.8 0.093739	330.8 0.3045593
661.8 0.2245765	330.9 0.1091078	330.9 0.1059154	330.9 0.2974963
662 0.206894	331 0.1191933	331 0.1160771	331 0.2797696
662.2 0.2219279	331.1 0.0975831	331.1 0.1276209	331.1 0.2676221
662.4 0.2188083	331.2 0.1419158	331.2 0.1248391	331.2 0.3330446
662.6 0.2188969	331.3 0.1200435	331.3 0.1163704	331.3 0.3484144

662.8	0.214971	331.4	0.1244945	331.4	0.1611087	331.4	0.3535198
663	0.2170004	331.5	0.1692566	331.5	0.1627497	331.5	0.3201129
663.2	0.212153	331.6	0.2167118	331.6	0.163771	331.6	0.3335797
663.4	0.2397539	331.7	0.2278781	331.7	0.1146514	331.7	0.3040851
663.6	0.2326243	331.8	0.1681175	331.8	0.1471934	331.8	0.3237185
663.8	0.1925679	331.9	0.2627929	331.9	0.1558525	331.9	0.29999
664	0.2032903	332	0.264751	332	0.1764009	332	0.2777994
664.2	0.2175012	332.1	0.1978777	332.1	0.1348426	332.1	0.3085506
664.4	0.2288005	332.2	0.2149889	332.2	0.1448551	332.2	0.3036216
664.6	0.235009	332.3	0.1737543	332.3	0.1398267	332.3	0.3246206
664.8	0.221827	332.4	0.1710025	332.4	0.1423673	332.4	0.3172916
665	0.2398867	332.5	0.1951523	332.5	0.1199365	332.5	0.3055324
665.2	0.2358196	332.6	0.2083249	332.6	0.1276716	332.6	0.2610056
665.4	0.2244592	332.7	0.1668818	332.7	0.1095606	332.7	0.2885356
665.6	0.2473167	332.8	0.1890095	332.8	0.0980351	332.8	0.3406418
665.8	0.2409231	332.9	0.1756392	332.9	0.0988958	332.9	0.2657354
666	0.2467772	333	0.1308347	333	0.1026815	333	0.3181577
666.2	0.2475595	333.1	0.136599	333.1	0.1160074	333.1	0.2548323
666.4	0.243702	333.2	0.1211771	333.2	0.1034643	333.2	0.3656156
666.6	0.2658952	333.3	0.1078356	333.3	0.1228027	333.3	0.3116212
666.8	0.2413006	333.4	0.1228893	333.4	0.1097971	333.4	0.3001273
667	0.2492843	333.5	0.1455203	333.5	0.1183958	333.5	0.2859206
667.2	0.2556726	333.6	0.1261667	333.6	0.1536153	333.6	0.3455865
667.4	0.2566153	333.7	0.1313489	333.7	0.1620303	333.7	0.3169819
667.6	0.2679587	333.8	0.1245468	333.8	0.1571589	333.8	0.2835191
667.8	0.2403404	333.9	0.1542712	333.9	0.1855324	333.9	0.3114446
668	0.2529742	334	0.1492304	334	0.1532847	334	0.293081
668.2	0.2232541	334.1	0.1342803	334.1	0.1452037	334.1	0.3113799
668.4	0.2264751	334.2	0.1699907	334.2	0.1389279	334.2	0.2837129
668.6	0.2243343	334.3	0.1439562	334.3	0.147462	334.3	0.2745509
668.8	0.2358772	334.4	0.1415145	334.4	0.125206	334.4	0.3188121
669	0.2227351	334.5	0.2008563	334.5	0.1236582	334.5	0.3018046
669.2	0.2265643	334.6	0.1654407	334.6	0.1371662	334.6	0.288033
669.4	0.2207563	334.7	0.1429262	334.7	0.1324036	334.7	0.2785259
669.6	0.2047222	334.8	0.1552965	334.8	0.1515904	334.8	0.2717762
669.8	0.2183624	334.9	0.1390362	334.9	0.1348665	334.9	0.2754679
670	0.2203621	335	0.1376868	335	0.1341609	335	0.3348553
670.2	0.1936551	335.1	0.1080684	335.1	0.134477	335.1	0.3403987
670.4	0.2101466	335.2	0.141138	335.2	0.1154382	335.2	0.3274381
670.6	0.2291343	335.3	0.1497261	335.3	0.1266169	335.3	0.292769
670.8	0.2386272	335.4	0.1975128	335.4	0.1160405	335.4	0.3012013
671	0.2277342	335.5	0.1476414	335.5	0.1081299	335.5	0.2968957
671.2	0.215369	335.6	0.1565211	335.6	0.1298818	335.6	0.2603388
671.4	0.2094837	335.7	0.1564844	335.7	0.1444522	335.7	0.2863417
671.6	0.2105882	335.8	0.1786708	335.8	0.1123661	335.8	0.26044
671.8	0.2161521	335.9	0.1407789	335.9	0.1143658	335.9	0.3200853
672	0.216213	336	0.1430212	336	0.1075871	336	0.2799632
672.2	0.2130258	336.1	0.1569147	336.1	0.151352	336.1	0.2643812
672.4	0.2076709	336.2	0.1272926	336.2	0.1347988	336.2	0.2640631
672.6	0.2263267	336.3	0.1893642	336.3	0.1597834	336.3	0.2314396
672.8	0.214408	336.4	0.1211867	336.4	0.1540512	336.4	0.2335914

673 0.1968392	336.5 0.1022922	336.5 0.1464916	336.5 0.2749576
673.2 0.2597681	336.6 0.1072459	336.6 0.146351	336.6 0.2761162
673.4 0.2121534	336.7 0.1009906	336.7 0.1861543	336.7 0.3156987
673.6 0.2330227	336.8 0.1172913	336.8 0.1549395	336.8 0.3622683
673.8 0.2074095	336.9 0.154086	336.9 0.1182904	336.9 0.3241424
674 0.2077242	337 0.1065795	337 0.1394182	337 0.3116553
674.2 0.2217688	337.1 0.1264801	337.1 0.1390958	337.1 0.3124364
674.4 0.2267725	337.2 0.1038791	337.2 0.1289978	337.2 0.3327154
674.6 0.2383296	337.3 0.1079298	337.3 0.1268355	337.3 0.3025616
674.8 0.2247048	337.4 0.1121349	337.4 0.1279267	337.4 0.3371278
675 0.2134938	337.5 0.1070868	337.5 0.1278783	337.5 0.3768367
675.2 0.2234691	337.6 0.1480006	337.6 0.148785	337.6 0.3406915
675.4 0.2081635	337.7 0.0963438	337.7 0.1319378	337.7 0.2981047
675.6 0.2184698	337.8 0.1224648	337.8 0.1067027	337.8 0.3179598
675.8 0.219862	337.9 0.1301639	337.9 0.1470686	337.9 0.2874167
676 0.2050005	338 0.1288249	338 0.1073589	338 0.2867828
676.2 0.2338609	338.1 0.132353	338.1 0.1234126	338.1 0.3192049
676.4 0.2300756	338.2 0.1427241	338.2 0.1102161	338.2 0.2766777
676.6 0.2289013	338.3 0.1436143	338.3 0.1218309	338.3 0.3387693
676.8 0.2199093	338.4 0.1858739	338.4 0.1131799	338.4 0.2356828
677 0.2160371	338.5 0.2379209	338.5 0.1014301	338.5 0.296709
677.2 0.2166304	338.6 0.1564589	338.6 0.1256216	338.6 0.2549737
677.4 0.2220022	338.7 0.2046304	338.7 0.1376129	338.7 0.3300669
677.6 0.2171839	338.8 0.1857355	338.8 0.1191846	338.8 0.278128
677.8 0.2345819	338.9 0.150166	338.9 0.1322691	338.9 0.2632976
678 0.2526404	339 0.1471965	339 0.1142941	339 0.2996333
678.2 0.2164718	339.1 0.1793998	339.1 0.1091943	339.1 0.2581496
678.4 0.2130593	339.2 0.1534948	339.2 0.1259169	339.2 0.263826
678.6 0.2319129	339.3 0.1370102	339.3 0.1488333	339.3 0.2566376
678.8 0.2354533	339.4 0.1586531	339.4 0.1025231	339.4 0.3425344
679 0.2291045	339.5 0.1483736	339.5 0.1508921	339.5 0.3181065
679.2 0.2206806	339.6 0.1860323	339.6 0.1660797	339.6 0.3291913
679.4 0.2196149	339.7 0.1717108	339.7 0.1503424	339.7 0.303327
679.6 0.2267328	339.8 0.1262429	339.8 0.1139621	339.8 0.263598
679.8 0.2158965	339.9 0.1703909	339.9 0.1345986	339.9 0.2605753
680 0.2075059	340 0.2214878	340 0.1445059	340 0.2792125
680.2 0.2219916	340.1 0.19237	340.1 0.1259021	340.1 0.2692088
680.4 0.2302445	340.2 0.1558123	340.2 0.1346176	340.2 0.2976093
680.6 0.2100856	340.3 0.1720005	340.3 0.1598125	340.3 0.2557141
680.8 0.2269615	340.4 0.1710576	340.4 0.0922756	340.4 0.2750809
681 0.2079376	340.5 0.1496817	340.5 0.1141538	340.5 0.2802312
681.2 0.2165044	340.6 0.1740884	340.6 0.1385913	340.6 0.2833067
681.4 0.2178161	340.7 0.1131053	340.7 0.1359086	340.7 0.3512172
681.6 0.243516	340.8 0.1215946	340.8 0.1451096	340.8 0.3256618
681.8 0.2198836	340.9 0.13056	340.9 0.1063759	340.9 0.3680686
682 0.2178421	341 0.2095926	341 0.1756644	341 0.3418498
682.2 0.2423979	341.1 0.1655598	341.1 0.1383591	341.1 0.3323066
682.4 0.2350431	341.2 0.1622096	341.2 0.157996	341.2 0.3461263
682.6 0.2336244	341.3 0.1441082	341.3 0.1616751	341.3 0.3362316
682.8 0.2332448	341.4 0.1600613	341.4 0.1504387	341.4 0.3032458
683 0.2305073	341.5 0.1518784	341.5 0.1638452	341.5 0.3227756

683.2 0.2383297	341.6 0.1513737	341.6 0.1532425	341.6 0.2992606
683.4 0.2238106	341.7 0.1077241	341.7 0.1182213	341.7 0.2594914
683.6 0.2313304	341.8 0.109966	341.8 0.1523411	341.8 0.2611085
683.8 0.2369788	341.9 0.1460129	341.9 0.153228	341.9 0.2395029
684 0.2492092	342 0.1767225	342 0.1627525	342 0.262894
684.2 0.2430591	342.1 0.1132837	342.1 0.1592519	342.1 0.2593616
684.4 0.2161839	342.2 0.1041807	342.2 0.1394183	342.2 0.2604771
684.6 0.2114149	342.3 0.0965678	342.3 0.1542341	342.3 0.2601264
684.8 0.2069505	342.4 0.1104885	342.4 0.146943	342.4 0.2752844
685 0.2088865	342.5 0.1525653	342.5 0.1334602	342.5 0.2519415
685.2 0.2134561	342.6 0.1546323	342.6 0.1189954	342.6 0.3104613
685.4 0.1972508	342.7 0.1568905	342.7 0.1115824	342.7 0.2499756
685.6 0.2033471	342.8 0.1787597	342.8 0.1387543	342.8 0.310201
685.8 0.2216635	342.9 0.1504096	342.9 0.1509746	342.9 0.2620401
686 0.2169731	343 0.1941866	343 0.1264875	343 0.3007068
686.2 0.2486224	343.1 0.1665986	343.1 0.13947	343.1 0.2906421
686.4 0.2095112	343.2 0.1760399	343.2 0.1489902	343.2 0.3000069
686.6 0.2439688	343.3 0.1518515	343.3 0.1111822	343.3 0.2615589
686.8 0.2412908	343.4 0.2123524	343.4 0.122919	343.4 0.267897
687 0.2161355	343.5 0.1931198	343.5 0.1455239	343.5 0.2241189
687.2 0.2358368	343.6 0.2018535	343.6 0.1509402	343.6 0.3569995
687.4 0.2451035	343.7 0.2087833	343.7 0.1577828	343.7 0.2417769
687.6 0.2236957	343.8 0.2076721	343.8 0.1278623	343.8 0.2864218
687.8 0.2512784	343.9 0.20583	343.9 0.1551571	343.9 0.2897286
688 0.2308526	344 0.1880674	344 0.1073558	344 0.2310864
688.2 0.2345999	344.1 0.1791113	344.1 0.1276803	344.1 0.2628787
688.4 0.2532646	344.2 0.118361	344.2 0.1278603	344.2 0.254762
688.6 0.2514997	344.3 0.1814717	344.3 0.1269208	344.3 0.3263865
688.8 0.2622279	344.4 0.2190271	344.4 0.1130422	344.4 0.2583602
689 0.2442821	344.5 0.18244	344.5 0.1602257	344.5 0.2746935
689.2 0.2465957	344.6 0.2124173	344.6 0.1223299	344.6 0.2673758
689.4 0.2840645	344.7 0.1716625	344.7 0.1001388	344.7 0.3144264
689.6 0.2455146	344.8 0.2116432	344.8 0.109103	344.8 0.2644563
689.8 0.2189311	344.9 0.1969812	344.9 0.1089866	344.9 0.2538588
690 0.2252579	345 0.1993419	345 0.1129773	345 0.2777595
690.2 0.2178434	345.1 0.1866202	345.1 0.1240068	345.1 0.2433463
690.4 0.2145905	345.2 0.1951783	345.2 0.1344151	345.2 0.2473276
690.6 0.2391991	345.3 0.1665305	345.3 0.1241371	345.3 0.2478555
690.8 0.2321171	345.4 0.1695546	345.4 0.11368	345.4 0.260838
691 0.2461335	345.5 0.171987	345.5 0.1424289	345.5 0.247644
691.2 0.224955	345.6 0.1780307	345.6 0.1584198	345.6 0.2686638
691.4 0.2261881	345.7 0.1639848	345.7 0.1493637	345.7 0.2798936
691.6 0.2221175	345.8 0.1627784	345.8 0.1330371	345.8 0.2601593
691.8 0.2549803	345.9 0.1626834	345.9 0.1301478	345.9 0.2776662
692 0.2213185	346 0.1516283	346 0.1302479	346 0.2510793
692.2 0.220783	346.1 0.1548523	346.1 0.1555885	346.1 0.2607424
692.4 0.2438955	346.2 0.1512378	346.2 0.1553456	346.2 0.2743951
692.6 0.2328352	346.3 0.162637	346.3 0.1210337	346.3 0.2481813
692.8 0.2320046	346.4 0.1595051	346.4 0.1400681	346.4 0.2698061
693 0.247896	346.5 0.145401	346.5 0.1762412	346.5 0.2544762
693.2 0.2548736	346.6 0.1686834	346.6 0.1495865	346.6 0.2528165

693.4 0.2301667	346.7 0.1268942	346.7 0.1371332	346.7 0.2865902
693.6 0.2353473	346.8 0.2067936	346.8 0.1196742	346.8 0.3109861
693.8 0.2445383	346.9 0.1793317	346.9 0.155159	346.9 0.269552
694 0.2402075	347 0.1631272	347 0.170059	347 0.2844228
694.2 0.2350201	347.1 0.1379862	347.1 0.1473911	347.1 0.3256498
694.4 0.2718459	347.2 0.1039031	347.2 0.1733179	347.2 0.3363481
694.6 0.2909144	347.3 0.1304425	347.3 0.1513643	347.3 0.3243351
694.8 0.2297894	347.4 0.1592111	347.4 0.1459594	347.4 0.2540005
695 0.2297562	347.5 0.2166337	347.5 0.1602818	347.5 0.26822
695.2 0.21505	347.6 0.1584655	347.6 0.1628808	347.6 0.2765022
695.4 0.2233525	347.7 0.1128084	347.7 0.1329158	347.7 0.2591662
695.6 0.2387411	347.8 0.1002956	347.8 0.1477899	347.8 0.2612247
695.8 0.224292	347.9 0.1302019	347.9 0.1558199	347.9 0.3027157
696 0.2307138	348 0.1261806	348 0.1610152	348 0.2833416
696.2 0.2672121	348.1 0.1490163	348.1 0.1488714	348.1 0.2407628
696.4 0.2217085	348.2 0.1115538	348.2 0.146111	348.2 0.2294766
696.6 0.2432419	348.3 0.0852316	348.3 0.1470049	348.3 0.2595309
696.8 0.2366744	348.4 0.0862644	348.4 0.1830823	348.4 0.2809505
697 0.2305515	348.5 0.1124083	348.5 0.1323197	348.5 0.2413642
697.2 0.2232778	348.6 0.0992057	348.6 0.1366645	348.6 0.2891736
697.4 0.2306311	348.7 0.1295355	348.7 0.1728642	348.7 0.2826105
697.6 0.1994784	348.8 0.0982433	348.8 0.1371554	348.8 0.2713023
697.8 0.2093753	348.9 0.1336208	348.9 0.143265	348.9 0.2741608
698 0.202296	349 0.1351629	349 0.1251856	349 0.2703879
698.2 0.2329178	349.1 0.128725	349.1 0.1564208	349.1 0.2864237
698.4 0.2336163	349.2 0.1075256	349.2 0.1574804	349.2 0.2548592
698.6 0.2402053	349.3 0.1381581	349.3 0.1284046	349.3 0.2469279
698.8 0.212465	349.4 0.1220339	349.4 0.136244	349.4 0.2458101
699 0.2022226	349.5 0.0986192	349.5 0.1114022	349.5 0.2696958
699.2 0.2119577	349.6 0.118271	349.6 0.1205244	349.6 0.2868645
699.4 0.2143869	349.7 0.1771257	349.7 0.1369627	349.7 0.2664235
699.6 0.2174632	349.8 0.1440127	349.8 0.1472253	349.8 0.3014538
699.8 0.2397641	349.9 0.0982194	349.9 0.1347971	349.9 0.28171
700 0.23129	350 0.1353753	350 0.1305342	350 0.3028432
700.2 0.2057205	350.1 0.1157035	350.1 0.1148739	350.1 0.3057321
700.4 0.2396552	350.2 0.1050791	350.2 0.125912	350.2 0.3059419
700.6 0.2476072	350.3 0.1351961	350.3 0.1189895	350.3 0.2799436
700.8 0.2239787	350.4 0.1250471	350.4 0.1244268	350.4 0.3232699
701 0.2195462	350.5 0.1350175	350.5 0.1298601	350.5 0.2805261
701.2 0.2472027	350.6 0.1409131	350.6 0.1358712	350.6 0.2790758
701.4 0.2541799	350.7 0.1321181	350.7 0.1495436	350.7 0.3008887
701.6 0.2465019	350.8 0.1670984	350.8 0.1633757	350.8 0.2836694
701.8 0.1951214	350.9 0.1939589	350.9 0.1464309	350.9 0.2782768
702 0.2241925	351 0.1700427	351 0.1756762	351 0.2697329
702.2 0.1810068	351.1 0.1271094	351.1 0.1450708	351.1 0.2864297
702.4 0.2030481	351.2 0.1280082	351.2 0.1343606	351.2 0.3239717
702.6 0.2575952	351.3 0.1137273	351.3 0.1421245	351.3 0.31453
702.8 0.2260513	351.4 0.150474	351.4 0.1432317	351.4 0.3012934
703 0.2204933	351.5 0.1446147	351.5 0.139982	351.5 0.301769
703.2 0.2039123	351.6 0.1742089	351.6 0.1347857	351.6 0.2713752
703.4 0.2178433	351.7 0.179097	351.7 0.1293331	351.7 0.2719963

703.6 0.2198981	351.8 0.2191115	351.8 0.150963	351.8 0.2779312
703.8 0.2284425	351.9 0.192707	351.9 0.1439086	351.9 0.2636124
704 0.21404	352 0.1638612	352 0.1313987	352 0.2678827
704.2 0.2229063	352.1 0.1310086	352.1 0.1501285	352.1 0.3063405
704.4 0.2050435	352.2 0.1429092	352.2 0.1492551	352.2 0.4051751
704.6 0.2079182	352.3 0.1876767	352.3 0.134189	352.3 0.4596775
704.8 0.2250945	352.4 0.1245688	352.4 0.1311463	352.4 0.2628118
705 0.2283721	352.5 0.1184556	352.5 0.1460126	352.5 0.28163
705.2 0.227253	352.6 0.1285183	352.6 0.1362597	352.6 0.317001
705.4 0.2002454	352.7 0.1681252	352.7 0.1252656	352.7 0.3324771
705.6 0.2221728	352.8 0.1051003	352.8 0.1385769	352.8 0.2918178
705.8 0.2229277	352.9 0.1095988	352.9 0.1215019	352.9 0.2735556
706 0.2184138	353 0.2169668	353 0.1388585	353 0.3331776
706.2 0.2372001	353.1 0.2094118	353.1 0.1218601	353.1 0.3378366
706.4 0.2277626	353.2 0.1814935	353.2 0.1360663	353.2 0.3133963
706.6 0.2107983	353.3 0.1844608	353.3 0.1378983	353.3 0.2991496
706.8 0.2251386	353.4 0.1486091	353.4 0.1483167	353.4 0.3021347
707 0.220764	353.5 0.1136694	353.5 0.1807274	353.5 0.2408026
707.2 0.2242331	353.6 0.131376	353.6 0.1282333	353.6 0.2967374
707.4 0.2212015	353.7 0.1308995	353.7 0.1435364	353.7 0.4031423
707.6 0.2123215	353.8 0.141288	353.8 0.1392852	353.8 0.284615
707.8 0.2253488	353.9 0.1071649	353.9 0.1426943	353.9 0.2518064
708 0.222532	354 0.1418581	354 0.1445786	354 0.2613906
708.2 0.2337187	354.1 0.2140072	354.1 0.1245127	354.1 0.2555163
708.4 0.2352743	354.2 0.1214527	354.2 0.1355302	354.2 0.2938975
708.6 0.2122379	354.3 0.161324	354.3 0.1369512	354.3 0.3197051
708.8 0.2117938	354.4 0.174578	354.4 0.1409401	354.4 0.2968033
709 0.2233784	354.5 0.1620351	354.5 0.1435851	354.5 0.3206531
709.2 0.2038774	354.6 0.1623285	354.6 0.1311104	354.6 0.3116785
709.4 0.1906466	354.7 0.1273065	354.7 0.120779	354.7 0.3018969
709.6 0.2273835	354.8 0.145882	354.8 0.1287827	354.8 0.3073132
709.8 0.2033649	354.9 0.1234476	354.9 0.1397371	354.9 0.3599583
710 0.2152408	355 0.1190881	355 0.125507	355 0.3489776
710.2 0.2190253	355.1 0.1312203	355.1 0.1366381	355.1 0.3396758
710.4 0.181849	355.2 0.1220056	355.2 0.1501138	355.2 0.4060435
710.6 0.202475	355.3 0.1043493	355.3 0.1445563	355.3 0.3139009
710.8 0.1946766	355.4 0.1547246	355.4 0.1680695	355.4 0.365164
711 0.1832248	355.5 0.1530428	355.5 0.1625464	355.5 0.286513
711.2 0.2138229	355.6 0.1344085	355.6 0.1524239	355.6 0.2613238
711.4 0.2141273	355.7 0.1076576	355.7 0.1455825	355.7 0.278354
711.6 0.2038747	355.8 0.1392606	355.8 0.1524247	355.8 0.2600217
711.8 0.1952175	355.9 0.1161425	355.9 0.1314063	355.9 0.2446203
712 0.2011022	356 0.1213716	356 0.1486646	356 0.2822307
712.2 0.2279293	356.1 0.1544868	356.1 0.1366179	356.1 0.3427731
712.4 0.2343646	356.2 0.1597092	356.2 0.1162453	356.2 0.3156088
712.6 0.2481025	356.3 0.1201588	356.3 0.1349423	356.3 0.317882
712.8 0.2716664	356.4 0.1251028	356.4 0.1418249	356.4 0.3077278
713 0.2685871	356.5 0.1554465	356.5 0.1380485	356.5 0.2639095
713.2 0.2434388	356.6 0.1292884	356.6 0.1533386	356.6 0.2397706
713.4 0.2490664	356.7 0.12841	356.7 0.1592909	356.7 0.2674206
713.6 0.2818574	356.8 0.1565603	356.8 0.1331251	356.8 0.2863506

713.8 0.2705879	356.9 0.1331519	356.9 0.1507175	356.9 0.3245848
714 0.2561501	357 0.152109	357 0.147683	357 0.35215
714.2 0.2743693	357.1 0.1902252	357.1 0.1440326	357.1 0.3186538
714.4 0.2833504	357.2 0.2694074	357.2 0.1368449	357.2 0.3494555
714.6 0.2566081	357.3 0.1880814	357.3 0.1626593	357.3 0.4130766
714.8 0.2961144	357.4 0.1749756	357.4 0.1697689	357.4 0.3471965
715 0.3060902	357.5 0.190652	357.5 0.1528595	357.5 0.2568073
715.2 0.2524816	357.6 0.1877823	357.6 0.1474924	357.6 0.2518606
715.4 0.293787	357.7 0.1297204	357.7 0.1373366	357.7 0.2429818
715.6 0.246341	357.8 0.1059723	357.8 0.1809103	357.8 0.2840607
715.8 0.2421646	357.9 0.1459554	357.9 0.1625353	357.9 0.2967657
716 0.2491525	358 0.1178152	358 0.1937954	358 0.347877
716.2 0.2453255	358.1 0.1419255	358.1 0.1767818	358.1 0.259432
716.4 0.2704234	358.2 0.1173906	358.2 0.16862	358.2 0.303787
716.6 0.2863055	358.3 0.1023305	358.3 0.1432598	358.3 0.3116767
716.8 0.2660271	358.4 0.1715868	358.4 0.1439189	358.4 0.3264336
717 0.2531003	358.5 0.1358166	358.5 0.1342294	358.5 0.3145909
717.2 0.2416783	358.6 0.1376829	358.6 0.1367786	358.6 0.3353302
717.4 0.239696	358.7 0.112402	358.7 0.1530064	358.7 0.4873374
717.6 0.2303681	358.8 0.1403598	358.8 0.1475368	358.8 0.4721923
717.8 0.2570792	358.9 0.1275852	358.9 0.1513786	358.9 0.4104793
718 0.2348959	359 0.130715	359 0.1283091	359 0.3344767
718.2 0.21867	359.1 0.1298281	359.1 0.1615235	359.1 0.3508471
718.4 0.22438	359.2 0.1561611	359.2 0.1474608	359.2 0.3299319
718.6 0.2223423	359.3 0.1204886	359.3 0.1301418	359.3 0.2793944
718.8 0.270101	359.4 0.1333615	359.4 0.1412214	359.4 0.3315088
719 0.2587103	359.5 0.1034095	359.5 0.1339087	359.5 0.2891151
719.2 0.2514898	359.6 0.0941729	359.6 0.1330596	359.6 0.2792651
719.4 0.2537059	359.7 0.1084712	359.7 0.1382468	359.7 0.308375
719.6 0.2620146	359.8 0.1192928	359.8 0.1429883	359.8 0.318727
719.8 0.2480676	359.9 0.1626166	359.9 0.1386407	359.9 0.2955095
720 0.2302662	360 0.1490464	360 0.1470456	360 0.3691578
720.2 0.2219089	360.1 0.1220928	360.1 0.1572619	360.1 0.3077173
720.4 0.2424097	360.2 0.1471584	360.2 0.1397963	360.2 0.3846595
720.6 0.2237966	360.3 0.1375446	360.3 0.1369783	360.3 0.29876
720.8 0.2075052	360.4 0.1498179	360.4 0.1455145	360.4 0.3204236
721 0.2174458	360.5 0.1691728	360.5 0.1508702	360.5 0.3480208
721.2 0.2177745	360.6 0.1341816	360.6 0.1339981	360.6 0.2877528
721.4 0.2246999	360.7 0.1366234	360.7 0.1487816	360.7 0.2447117
721.6 0.215158	360.8 0.1371257	360.8 0.1168366	360.8 0.2765821
721.8 0.2224926	360.9 0.1338359	360.9 0.1355532	360.9 0.2603792
722 0.2009601	361 0.1471528	361 0.1461299	361 0.2931931
722.2 0.2017861	361.1 0.1408609	361.1 0.1502676	361.1 0.321841
722.4 0.2295791	361.2 0.1299361	361.2 0.1264824	361.2 0.2952913
722.6 0.2143994	361.3 0.1141308	361.3 0.1141495	361.3 0.3014195
722.8 0.1978886	361.4 0.1447192	361.4 0.1487962	361.4 0.2856396
723 0.2343504	361.5 0.1871265	361.5 0.139231	361.5 0.3311096
723.2 0.2037826	361.6 0.1550989	361.6 0.1287461	361.6 0.2976416
723.4 0.2200999	361.7 0.1516951	361.7 0.144822	361.7 0.2620462
723.6 0.234104	361.8 0.1356075	361.8 0.1441757	361.8 0.2563248
723.8 0.2317941	361.9 0.1403881	361.9 0.1277988	361.9 0.2919544

724 0.2125785	362 0.1497572	362 0.1312706	362 0.2713846
724.2 0.2283756	362.1 0.1606044	362.1 0.1838054	362.1 0.2934053
724.4 0.2066333	362.2 0.1410712	362.2 0.1289728	362.2 0.291661
724.6 0.2327355	362.3 0.1316386	362.3 0.1775694	362.3 0.2939691
724.8 0.2243905	362.4 0.1411534	362.4 0.1320628	362.4 0.3196855
725 0.2471019	362.5 0.1668519	362.5 0.1914026	362.5 0.3087007
725.2 0.2338776	362.6 0.1566492	362.6 0.1606193	362.6 0.3067304
725.4 0.2542193	362.7 0.1944275	362.7 0.1713068	362.7 0.4108742
725.6 0.2245869	362.8 0.1680574	362.8 0.1468825	362.8 0.496502
725.8 0.2158744	362.9 0.1734015	362.9 0.1600107	362.9 0.4881904
726 0.2316236	363 0.1927083	363 0.1569487	363 0.43092
726.2 0.225149	363.1 0.2032057	363.1 0.1607349	363.1 0.4405064
726.4 0.2403817	363.2 0.14646	363.2 0.157519	363.2 0.3561254
726.6 0.2546785	363.3 0.167653	363.3 0.1721722	363.3 0.3909334
726.8 0.2289455	363.4 0.1651233	363.4 0.1723321	363.4 0.4455463
727 0.2479683	363.5 0.1594806	363.5 0.1666721	363.5 0.3328754
727.2 0.206847	363.6 0.1795049	363.6 0.1566146	363.6 0.3450163
727.4 0.2318599	363.7 0.1518614	363.7 0.1489438	363.7 0.2500097
727.6 0.2198406	363.8 0.1510089	363.8 0.1396054	363.8 0.2303976
727.8 0.2261568	363.9 0.2278256	363.9 0.1412654	363.9 0.2650133
728 0.2281647	364 0.2048215	364 0.1538768	364 0.2722246
728.2 0.2208153	364.1 0.1797157	364.1 0.1437484	364.1 0.2699187
728.4 0.2191899	364.2 0.1993954	364.2 0.1631083	364.2 0.2764131
728.6 0.220858	364.3 0.2017419	364.3 0.1343826	364.3 0.2820084
728.8 0.2159963	364.4 0.2233541	364.4 0.1359896	364.4 0.3025214
729 0.2228457	364.5 0.2139968	364.5 0.1295203	364.5 0.3864168
729.2 0.2479839	364.6 0.2145267	364.6 0.1487675	364.6 0.32267
729.4 0.2214014	364.7 0.1901078	364.7 0.1283597	364.7 0.2829404
729.6 0.1980938	364.8 0.1864295	364.8 0.1477888	364.8 0.3207562
729.8 0.1930866	364.9 0.167119	364.9 0.1352031	364.9 0.287515
730 0.1879576	365 0.2105392	365 0.1605886	365 0.3196546
730.2 0.2137726	365.1 0.1692949	365.1 0.1539052	365.1 0.2954687
730.4 0.2253813	365.2 0.2153675	365.2 0.1611714	365.2 0.2725304
730.6 0.2159317	365.3 0.1815426	365.3 0.1444956	365.3 0.2855283
730.8 0.2062098	365.4 0.1885639	365.4 0.1533296	365.4 0.2247918
731 0.2150161	365.5 0.1613624	365.5 0.1512509	365.5 0.2326117
731.2 0.2027268	365.6 0.2052082	365.6 0.1455482	365.6 0.2439213
731.4 0.2306356	365.7 0.2388262	365.7 0.1424305	365.7 0.2623481
731.6 0.2410297	365.8 0.2047094	365.8 0.1340327	365.8 0.2455123
731.8 0.2384582	365.9 0.2014373	365.9 0.1639583	365.9 0.2306259
732 0.2254979	366 0.1583509	366 0.1410731	366 0.2298182
732.2 0.2439835	366.1 0.1910342	366.1 0.1654518	366.1 0.2609122
732.4 0.2450078	366.2 0.1585705	366.2 0.1537237	366.2 0.2962271
732.6 0.25412	366.3 0.1686897	366.3 0.1353789	366.3 0.2565953
732.8 0.2360669	366.4 0.1790762	366.4 0.1638461	366.4 0.288113
733 0.2444802	366.5 0.1674374	366.5 0.159526	366.5 0.2981678
733.2 0.2375327	366.6 0.1846837	366.6 0.175998	366.6 0.2605517
733.4 0.2224973	366.7 0.1983333	366.7 0.1439596	366.7 0.2633114
733.6 0.2666706	366.8 0.1951247	366.8 0.1275375	366.8 0.2724585
733.8 0.2288379	366.9 0.1688073	366.9 0.1501123	366.9 0.3053282
734 0.2041325	367 0.1692224	367 0.1503973	367 0.2605739

734.2 0.2542189	367.1 0.214936	367.1 0.1392191	367.1 0.2685278
734.4 0.2340205	367.2 0.2241862	367.2 0.1423638	367.2 0.2460522
734.6 0.2361432	367.3 0.1603249	367.3 0.1466625	367.3 0.3020522
734.8 0.2348389	367.4 0.1447453	367.4 0.1544652	367.4 0.2728246
735 0.243205	367.5 0.1707704	367.5 0.1424084	367.5 0.2403492
735.2 0.2243905	367.6 0.1613989	367.6 0.1881919	367.6 0.2291228
735.4 0.2444322	367.7 0.1959345	367.7 0.1491011	367.7 0.2479465
735.6 0.2218894	367.8 0.1592537	367.8 0.1398573	367.8 0.2355477
735.8 0.2203841	367.9 0.1625877	367.9 0.1677022	367.9 0.2795875
736 0.2116922	368 0.1843997	368 0.1761006	368 0.23665
736.2 0.2147013	368.1 0.1997043	368.1 0.1941847	368.1 0.2237197
736.4 0.2112492	368.2 0.1937886	368.2 0.1534374	368.2 0.2191117
736.6 0.2452799	368.3 0.1744994	368.3 0.1812799	368.3 0.2312931
736.8 0.2466685	368.4 0.1791275	368.4 0.169496	368.4 0.2960548
737 0.2256834	368.5 0.1649038	368.5 0.1727597	368.5 0.2348779
737.2 0.2026527	368.6 0.1628664	368.6 0.1703676	368.6 0.2791145
737.4 0.1825169	368.7 0.1863424	368.7 0.1519905	368.7 0.2295412
737.6 0.200229	368.8 0.1613077	368.8 0.1599944	368.8 0.2936774
737.8 0.2164789	368.9 0.1289224	368.9 0.1647392	368.9 0.2514162
738 0.208478	369 0.1489282	369 0.1831065	369 0.2344781
738.2 0.2135995	369.1 0.1455128	369.1 0.18327	369.1 0.2542155
738.4 0.20501	369.2 0.1284688	369.2 0.1648915	369.2 0.2541516
738.6 0.2152392	369.3 0.1764759	369.3 0.1835079	369.3 0.2506643
738.8 0.2034088	369.4 0.1658668	369.4 0.1698946	369.4 0.2631622
739 0.2062693	369.5 0.178855	369.5 0.171609	369.5 0.2886423
739.2 0.2070839	369.6 0.1902523	369.6 0.1523895	369.6 0.2797225
739.4 0.1891637	369.7 0.1448717	369.7 0.154109	369.7 0.2875258
739.6 0.201589	369.8 0.1330653	369.8 0.1774819	369.8 0.2514165
739.8 0.2083975	369.9 0.1415842	369.9 0.1529253	369.9 0.3427186
740 0.2121128	370 0.1818351	370 0.1399806	370 0.2817961
740.2 0.1991801	370.1 0.1371073	370.1 0.1460721	370.1 0.2856614
740.4 0.2217855	370.2 0.1519921	370.2 0.15777	370.2 0.3081924
740.6 0.1984589	370.3 0.1478478	370.3 0.1663366	370.3 0.294409
740.8 0.198588	370.4 0.1362662	370.4 0.1442687	370.4 0.2657232
741 0.198762	370.5 0.1256106	370.5 0.1359073	370.5 0.2530507
741.2 0.2113746	370.6 0.1411384	370.6 0.1397872	370.6 0.3360697
741.4 0.2420405	370.7 0.1491878	370.7 0.1394809	370.7 0.2764975
741.6 0.2098423	370.8 0.1479615	370.8 0.1631169	370.8 0.2872179
741.8 0.2155345	370.9 0.1298234	370.9 0.1564716	370.9 0.2927658
742 0.2255783	371 0.1455917	371 0.1162616	371 0.2763079
742.2 0.2073098	371.1 0.1259888	371.1 0.1033997	371.1 0.2790796
742.4 0.1900065	371.2 0.1063686	371.2 0.135689	371.2 0.3152124
742.6 0.224005	371.3 0.1409953	371.3 0.1633542	371.3 0.3089631
742.8 0.2156385	371.4 0.1513795	371.4 0.1390312	371.4 0.2778095
743 0.2241907	371.5 0.150453	371.5 0.1261517	371.5 0.3066389
743.2 0.211987	371.6 0.1882789	371.6 0.126656	371.6 0.327836
743.4 0.2354673	371.7 0.1572928	371.7 0.1433602	371.7 0.2914839
743.6 0.2056015	371.8 0.1680692	371.8 0.1424045	371.8 0.309379
743.8 0.1970821	371.9 0.1738082	371.9 0.1399477	371.9 0.2603663
744 0.213554	372 0.1533158	372 0.1407478	372 0.2623189
744.2 0.197042	372.1 0.1579527	372.1 0.1340744	372.1 0.2976698

744.4 0.1910293	372.2 0.1864064	372.2 0.155905	372.2 0.292369
744.6 0.1925661	372.3 0.158954	372.3 0.1382851	372.3 0.2779834
744.8 0.1938913	372.4 0.1771526	372.4 0.1321917	372.4 0.3048703
745 0.1949102	372.5 0.168261	372.5 0.1377482	372.5 0.2747988
745.2 0.210808	372.6 0.1525473	372.6 0.1622988	372.6 0.2932478
745.4 0.1893465	372.7 0.1844601	372.7 0.1509222	372.7 0.3102617
745.6 0.2062007	372.8 0.1616611	372.8 0.1456435	372.8 0.2920569
745.8 0.2041607	372.9 0.1649486	372.9 0.1422766	372.9 0.3000032
746 0.1900311	373 0.1942821	373 0.1356476	373 0.2816987
746.2 0.1787924	373.1 0.1722089	373.1 0.1506314	373.1 0.2570733
746.4 0.1737324	373.2 0.1754787	373.2 0.1354274	373.2 0.2824651
746.6 0.1844581	373.3 0.1573105	373.3 0.1464935	373.3 0.2402265
746.8 0.2058922	373.4 0.1783959	373.4 0.1225021	373.4 0.2585968
747 0.1921436	373.5 0.1334465	373.5 0.1382722	373.5 0.3225128
747.2 0.2089971	373.6 0.1210523	373.6 0.1518249	373.6 0.2977692
747.4 0.1908547	373.7 0.1293378	373.7 0.1367376	373.7 0.2547386
747.6 0.192924	373.8 0.1437085	373.8 0.1277142	373.8 0.2464141
747.8 0.1966586	373.9 0.1558505	373.9 0.139547	373.9 0.266614
748 0.1980173	374 0.1430232	374 0.1345212	374 0.2754926
748.2 0.2037023	374.1 0.1443272	374.1 0.1439526	374.1 0.3202095
748.4 0.2317162	374.2 0.1251194	374.2 0.1511352	374.2 0.3055394
748.6 0.2107343	374.3 0.1013388	374.3 0.1450477	374.3 0.3121803
748.8 0.2149024	374.4 0.1076571	374.4 0.1441074	374.4 0.3027211
749 0.2135556	374.5 0.1033664	374.5 0.1540115	374.5 0.3777934
749.2 0.2114055	374.6 0.093011	374.6 0.1662393	374.6 0.30892
749.4 0.2288461	374.7 0.1069101	374.7 0.1474575	374.7 0.2906402
749.6 0.2193341	374.8 0.1142065	374.8 0.1494906	374.8 0.2652312
749.8 0.1968449	374.9 0.0992162	374.9 0.1829471	374.9 0.2882358
750 0.1956116	375 0.1152083	375 0.1384177	375 0.318825
750.2 0.1907998	375.1 0.1318545	375.1 0.1579385	375.1 0.307015
750.4 0.2244094	375.2 0.1010297	375.2 0.1525944	375.2 0.2972091
750.6 0.2041177	375.3 0.0899083	375.3 0.1585389	375.3 0.2649906
750.8 0.241128	375.4 0.1139078	375.4 0.1397023	375.4 0.2993904
751 0.2100681	375.5 0.1081507	375.5 0.1661602	375.5 0.2813777
751.2 0.1978578	375.6 0.1050286	375.6 0.1602182	375.6 0.2451918
751.4 0.1877317	375.7 0.1135331	375.7 0.1636335	375.7 0.2291495
751.6 0.1872107	375.8 0.1019127	375.8 0.1393725	375.8 0.2236601
751.8 0.1810106	375.9 0.1355187	375.9 0.1217396	375.9 0.2737272
752 0.1934313	376 0.0899732	376 0.1027574	376 0.2972529
752.2 0.1908471	376.1 0.1015616	376.1 0.1049673	376.1 0.2983178
752.4 0.1999094	376.2 0.1001132	376.2 0.1063333	376.2 0.2531213
752.6 0.1866163	376.3 0.1035481	376.3 0.135208	376.3 0.2664151
752.8 0.1919003	376.4 0.1119835	376.4 0.1190066	376.4 0.2494338
753 0.1848431	376.5 0.1025872	376.5 0.1079667	376.5 0.2535324
753.2 0.1843923	376.6 0.1049084	376.6 0.1036388	376.6 0.2755165
753.4 0.1914269	376.7 0.1000139	376.7 0.1227403	376.7 0.3312353
753.6 0.1976824	376.8 0.1059615	376.8 0.1101597	376.8 0.360333
753.8 0.1934602	376.9 0.1062146	376.9 0.1169176	376.9 0.299483
754 0.2119841	377 0.1253833	377 0.1178798	377 0.2819196
754.2 0.2016438	377.1 0.0965322	377.1 0.1067336	377.1 0.2995614
754.4 0.2028878	377.2 0.1486087	377.2 0.120423	377.2 0.3047706

754.6 0.1928091	377.3 0.1065456	377.3 0.1020418	377.3 0.2622004
754.8 0.1989338	377.4 0.1211017	377.4 0.118231	377.4 0.317113
755 0.1907884	377.5 0.115202	377.5 0.1225803	377.5 0.2497303
755.2 0.1741453	377.6 0.1090577	377.6 0.0963904	377.6 0.2323879
755.4 0.1871577	377.7 0.1048561	377.7 0.099913	377.7 0.2715029
755.6 0.1988226	377.8 0.1283363	377.8 0.1076605	377.8 0.2554933
755.8 0.2147409	377.9 0.1104141	377.9 0.1150205	377.9 0.2339866
756 0.208681	378 0.0926648	378 0.1041061	378 0.2993754
756.2 0.223136	378.1 0.1040719	378.1 0.1000298	378.1 0.2461563
756.4 0.1973998	378.2 0.1066935	378.2 0.0936699	378.2 0.2279263
756.6 0.2195538	378.3 0.0891743	378.3 0.1150365	378.3 0.2769801
756.8 0.2064984	378.4 0.1548667	378.4 0.1146763	378.4 0.2408315
757 0.2353617	378.5 0.089842	378.5 0.1261323	378.5 0.2700505
757.2 0.2378639	378.6 0.0920199	378.6 0.1154603	378.6 0.2685065
757.4 0.2234849	378.7 0.1304961	378.7 0.1320768	378.7 0.2900978
757.6 0.2364997	378.8 0.1016445	378.8 0.1401778	378.8 0.2528259
757.8 0.2086238	378.9 0.0886727	378.9 0.1271755	378.9 0.2723871
758 0.207756	379 0.1216887	379 0.1153919	379 0.2607344
758.2 0.2327111	379.1 0.1048325	379.1 0.1027187	379.1 0.2918123
758.4 0.1983188	379.2 0.1082366	379.2 0.1369046	379.2 0.2491768
758.6 0.1975651	379.3 0.1044201	379.3 0.0956117	379.3 0.233931
758.8 0.2256647	379.4 0.099685	379.4 0.1108271	379.4 0.2592429
759 0.2240861	379.5 0.1035088	379.5 0.0974119	379.5 0.271677
759.2 0.2471402	379.6 0.1005804	379.6 0.0845324	379.6 0.2581418
759.4 0.218369	379.7 0.120013	379.7 0.1002844	379.7 0.2686728
759.6 0.2335261	379.8 0.1225132	379.8 0.1083207	379.8 0.2696097
759.8 0.2316099	379.9 0.1071384	379.9 0.1062298	379.9 0.2568701
760 0.212365	380 0.1521858	380 0.0964881	380 0.2943573
760.2 0.1916131	380.1 0.1690992	380.1 0.1015516	380.1 0.2435148
760.4 0.2104037	380.2 0.1228453	380.2 0.0958543	380.2 0.2356641
760.6 0.2103374	380.3 0.1895598	380.3 0.1354643	380.3 0.2683191
760.8 0.2250256	380.4 0.1460144	380.4 0.1318043	380.4 0.3017362
761 0.212732	380.5 0.1343992	380.5 0.1263044	380.5 0.2646614
761.2 0.2247006	380.6 0.1592015	380.6 0.1273107	380.6 0.2768908
761.4 0.2179436	380.7 0.1728364	380.7 0.0980438	380.7 0.2741867
761.6 0.2227761	380.8 0.1862094	380.8 0.1177532	380.8 0.333373
761.8 0.2158543	380.9 0.1923733	380.9 0.1111599	380.9 0.3524162
762 0.2145054	381 0.242869	381 0.1219764	381 0.2412783
762.2 0.2237339	381.1 0.2248585	381.1 0.1452927	381.1 0.3338476
762.4 0.2497249	381.2 0.213467	381.2 0.1119126	381.2 0.4453112
762.6 0.2048406	381.3 0.1921442	381.3 0.1043021	381.3 0.3608931
762.8 0.2264709	381.4 0.2106584	381.4 0.1007913	381.4 0.3584795
763 0.2032838	381.5 0.2245112	381.5 0.1054588	381.5 0.3415235
763.2 0.2107827	381.6 0.2794673	381.6 0.132743	381.6 0.3032946
763.4 0.2131231	381.7 0.2583964	381.7 0.1174945	381.7 0.2962879
763.6 0.2018325	381.8 0.2987077	381.8 0.1072349	381.8 0.3894981
763.8 0.2226888	381.9 0.2847172	381.9 0.139245	381.9 0.3045339
764 0.2113317	382 0.2725794	382 0.1403311	382 0.2906041
764.2 0.2338538	382.1 0.2497416	382.1 0.1313087	382.1 0.3050809
764.4 0.2261375	382.2 0.2225267	382.2 0.1311913	382.2 0.2567241
764.6 0.2233448	382.3 0.3118951	382.3 0.1365371	382.3 0.2814699

764.8 0.2106564	382.4 0.2919601	382.4 0.1361154	382.4 0.2196653
765 0.2319845	382.5 0.2952389	382.5 0.1045039	382.5 0.2403365
765.2 0.2299905	382.6 0.2914168	382.6 0.1404242	382.6 0.2540471
765.4 0.2364822	382.7 0.3464262	382.7 0.1502348	382.7 0.2403636
765.6 0.2327379	382.8 0.2476327	382.8 0.1568015	382.8 0.2245729
765.8 0.2024482	382.9 0.2903284	382.9 0.1502297	382.9 0.2811946
766 0.215597	383 0.2042929	383 0.1660865	383 0.2697679
766.2 0.2200247	383.1 0.2352337	383.1 0.1408214	383.1 0.2862351
766.4 0.2064465	383.2 0.1937558	383.2 0.1602531	383.2 0.3345169
766.6 0.2281558	383.3 0.1743157	383.3 0.167579	383.3 0.2779714
766.8 0.217916	383.4 0.3114851	383.4 0.1427582	383.4 0.2669664
767 0.2184682	383.5 0.305217	383.5 0.1362226	383.5 0.2900058
767.2 0.237383	383.6 0.1779454	383.6 0.1419781	383.6 0.2599047
767.4 0.2348877	383.7 0.1828549	383.7 0.1225822	383.7 0.2415151
767.6 0.2256171	383.8 0.2385381	383.8 0.1591449	383.8 0.2407981
767.8 0.2061931	383.9 0.2540805	383.9 0.148209	383.9 0.2677042
768 0.1969959	384 0.2033383	384 0.140627	384 0.2258097
768.2 0.1937448	384.1 0.2064028	384.1 0.1396677	384.1 0.252231
768.4 0.1973743	384.2 0.201595	384.2 0.1477889	384.2 0.2190531
768.6 0.2195302	384.3 0.1793629	384.3 0.1579698	384.3 0.2465284
768.8 0.2053399	384.4 0.1556708	384.4 0.1691095	384.4 0.2390069
769 0.2336789	384.5 0.1944366	384.5 0.1589228	384.5 0.2506377
769.2 0.2223757	384.6 0.1847449	384.6 0.1414623	384.6 0.2575134
769.4 0.2325801	384.7 0.1373092	384.7 0.1475558	384.7 0.2630348
769.6 0.2383821	384.8 0.1777374	384.8 0.1490398	384.8 0.2837483
769.8 0.2391559	384.9 0.1615522	384.9 0.1355123	384.9 0.2391235
770 0.2042293	385 0.1041397	385 0.1362165	385 0.2367111
770.2 0.2202984	385.1 0.1227989	385.1 0.1583167	385.1 0.2584603
770.4 0.2338692	385.2 0.1244902	385.2 0.1301816	385.2 0.2899369
770.6 0.2236364	385.3 0.1300377	385.3 0.1417347	385.3 0.2777117
770.8 0.2234769	385.4 0.1283942	385.4 0.147918	385.4 0.2593472
771 0.2293672	385.5 0.1580599	385.5 0.1428941	385.5 0.2652128
771.2 0.2162243	385.6 0.1397717	385.6 0.1222128	385.6 0.2620295
771.4 0.2191249	385.7 0.0934759	385.7 0.1008598	385.7 0.3061989
771.6 0.2139449	385.8 0.1112779	385.8 0.1244853	385.8 0.2699547
771.8 0.2123958	385.9 0.1812767	385.9 0.130882	385.9 0.2440935
772 0.2243131	386 0.0937012	386 0.1226249	386 0.2498232
772.2 0.2397318	386.1 0.1095537	386.1 0.127059	386.1 0.2402636
772.4 0.2151063	386.2 0.1085366	386.2 0.1516392	386.2 0.2429619
772.6 0.1922266	386.3 0.123097	386.3 0.1283006	386.3 0.2518159
772.8 0.202792	386.4 0.0917858	386.4 0.1132468	386.4 0.2366324
773 0.2116272	386.5 0.0962424	386.5 0.1091086	386.5 0.2821377
773.2 0.1948517	386.6 0.1162659	386.6 0.1262173	386.6 0.2432836
773.4 0.2367831	386.7 0.1071463	386.7 0.1384802	386.7 0.2614708
773.6 0.2140528	386.8 0.1066479	386.8 0.1534663	386.8 0.2878503
773.8 0.2272854	386.9 0.1068304	386.9 0.1357008	386.9 0.2521864
774 0.2229618	387 0.1319027	387 0.1270037	387 0.2315589
774.2 0.2185189	387.1 0.2292989	387.1 0.1288422	387.1 0.2485576
774.4 0.2295079	387.2 0.2452456	387.2 0.1206135	387.2 0.2555247
774.6 0.2057026	387.3 0.1229609	387.3 0.1448771	387.3 0.2679137
774.8 0.2195702	387.4 0.1584339	387.4 0.1357872	387.4 0.2768134

775 0.2497426	387.5 0.1182749	387.5 0.1498879	387.5 0.2573299
775.2 0.2125929	387.6 0.112257	387.6 0.1215977	387.6 0.232985
775.4 0.194168	387.7 0.1178279	387.7 0.1286254	387.7 0.2341529
775.6 0.2003566	387.8 0.0924613	387.8 0.1311244	387.8 0.2474604
775.8 0.230839	387.9 0.1137005	387.9 0.1361407	387.9 0.2773414
776 0.2192435	388 0.1129652	388 0.1491207	388 0.2455046
776.2 0.2021134	388.1 0.0966843	388.1 0.1494464	388.1 0.2677439
776.4 0.2250248	388.2 0.131145	388.2 0.1232407	388.2 0.2390504
776.6 0.2333678	388.3 0.0966722	388.3 0.1211039	388.3 0.300083
776.8 0.2180653	388.4 0.1162878	388.4 0.1214949	388.4 0.2678005
777 0.2171936	388.5 0.1158088	388.5 0.1316205	388.5 0.2801015
777.2 0.2213277	388.6 0.1071599	388.6 0.129545	388.6 0.2435242
777.4 0.2254522	388.7 0.1127799	388.7 0.1253447	388.7 0.2767518
777.6 0.2331772	388.8 0.1090708	388.8 0.1614735	388.8 0.309563
777.8 0.2122347	388.9 0.1046642	388.9 0.1629407	388.9 0.2690712
778 0.2170211	389 0.1378461	389 0.1816982	389 0.2756505
778.2 0.2316791	389.1 0.0866048	389.1 0.136403	389.1 0.2400029
778.4 0.2170478	389.2 0.1231926	389.2 0.1545794	389.2 0.2663173
778.6 0.2025177	389.3 0.1017078	389.3 0.1220065	389.3 0.272004
778.8 0.2073592	389.4 0.1119239	389.4 0.1396196	389.4 0.3059329
779 0.1820445	389.5 0.1148092	389.5 0.1170383	389.5 0.2349082
779.2 0.1888103	389.6 0.1088951	389.6 0.1272756	389.6 0.2616902
779.4 0.1863849	389.7 0.1024143	389.7 0.1248442	389.7 0.301018
779.6 0.1770834	389.8 0.0876564	389.8 0.1393135	389.8 0.2524026
779.8 0.1831084	389.9 0.0833972	389.9 0.1372049	389.9 0.297206
780 0.1700909	390 0.0925574	390 0.1779168	390 0.2684901
780.2 0.1887306	390.1 0.1568925	390.1 0.1253807	390.1 0.2732331
780.4 0.1760546	390.2 0.1483255	390.2 0.1574189	390.2 0.2482927
780.6 0.1940511	390.3 0.2090553	390.3 0.1277755	390.3 0.3073294
780.8 0.201727	390.4 0.2128642	390.4 0.1222967	390.4 0.3144228
781 0.1939429	390.5 0.1500155	390.5 0.111531	390.5 0.3039954
781.2 0.1824503	390.6 0.1561685	390.6 0.1383175	390.6 0.3329575
781.4 0.2056697	390.7 0.1771179	390.7 0.129701	390.7 0.3457834
781.6 0.1924245	390.8 0.1949447	390.8 0.1379658	390.8 0.3140343
781.8 0.2073565	390.9 0.1585173	390.9 0.1304767	390.9 0.3949247
782 0.2018	391 0.1384823	391 0.1192331	391 0.3203898
782.2 0.2039239	391.1 0.1248588	391.1 0.1371116	391.1 0.3479085
782.4 0.2187841	391.2 0.1318016	391.2 0.1146869	391.2 0.3708352
782.6 0.2183898	391.3 0.1225049	391.3 0.1296282	391.3 0.3071961
782.8 0.2038206	391.4 0.1464061	391.4 0.125051	391.4 0.248167
783 0.2167505	391.5 0.1359531	391.5 0.1171324	391.5 0.2525071
783.2 0.2022534	391.6 0.0962775	391.6 0.099549	391.6 0.2479648
783.4 0.2248265	391.7 0.1001424	391.7 0.1322144	391.7 0.325
783.6 0.1988334	391.8 0.1619136	391.8 0.1330487	391.8 0.2495084
783.8 0.220264	391.9 0.3405984	391.9 0.1329348	391.9 0.2532264
784 0.2036591	392 0.2612213	392 0.1213326	392 0.2525958
784.2 0.2010485	392.1 0.2872029	392.1 0.1066393	392.1 0.2486693
784.4 0.2116272	392.2 0.2460181	392.2 0.1243834	392.2 0.2719324
784.6 0.2051879	392.3 0.2596639	392.3 0.1193512	392.3 0.2372011
784.8 0.2005934	392.4 0.1315545	392.4 0.1237702	392.4 0.2045261
785 0.1873146	392.5 0.1696833	392.5 0.1042661	392.5 0.2256635

785.2 0.1955494	392.6 0.1969	392.6 0.1150621	392.6 0.2407439
785.4 0.207266	392.7 0.3047991	392.7 0.126223	392.7 0.2438922
785.6 0.2321054	392.8 0.2549959	392.8 0.1378969	392.8 0.3251687
785.8 0.2020433	392.9 0.1818063	392.9 0.1230417	392.9 0.304184
786 0.2092649	393 0.1208394	393 0.1138606	393 0.2903541
786.2 0.1890072	393.1 0.0857814	393.1 0.1377598	393.1 0.3048462
786.4 0.2061689	393.2 0.1430053	393.2 0.1341992	393.2 0.2918824
786.6 0.2081709	393.3 0.0962154	393.3 0.1418403	393.3 0.2724447
786.8 0.21292	393.4 0.1104486	393.4 0.1306825	393.4 0.2563348
787 0.2035124	393.5 0.1130062	393.5 0.1157878	393.5 0.2391665
787.2 0.2018119	393.6 0.0888824	393.6 0.1354916	393.6 0.2370496
787.4 0.2222595	393.7 0.0885532	393.7 0.1206781	393.7 0.2609284
787.6 0.2174805	393.8 0.1000994	393.8 0.0979309	393.8 0.2921499
787.8 0.2155191	393.9 0.0961659	393.9 0.1319642	393.9 0.2619247
788 0.2128686	394 0.0787539	394 0.1110343	394 0.2837448
788.2 0.2228112	394.1 0.1228138	394.1 0.1028911	394.1 0.2629929
788.4 0.2158481	394.2 0.1101301	394.2 0.1184981	394.2 0.2372758
788.6 0.2117377	394.3 0.1310422	394.3 0.1209835	394.3 0.2575554
788.8 0.1922749	394.4 0.1004911	394.4 0.121077	394.4 0.2730784
789 0.2004712	394.5 0.1221228	394.5 0.1092531	394.5 0.2650889
789.2 0.1930568	394.6 0.1154054	394.6 0.1368381	394.6 0.2595991
789.4 0.1962058	394.7 0.1309451	394.7 0.1071572	394.7 0.2743794
789.6 0.226679	394.8 0.0854831	394.8 0.1317288	394.8 0.2859955
789.8 0.2167467	394.9 0.094215	394.9 0.1239654	394.9 0.2429206
790 0.2135013	395 0.1052902	395 0.157065	395 0.3343616
790.2 0.217485	395.1 0.1019964	395.1 0.1572009	395.1 0.2638015
790.4 0.2126774	395.2 0.0958914	395.2 0.1749156	395.2 0.277716
790.6 0.2113387	395.3 0.1002563	395.3 0.1297896	395.3 0.2503484
790.8 0.1997138	395.4 0.1126302	395.4 0.1515071	395.4 0.26477
791 0.2103838	395.5 0.0915747	395.5 0.1214729	395.5 0.2738366
791.2 0.2018944	395.6 0.1332292	395.6 0.1254225	395.6 0.2696264
791.4 0.1944513	395.7 0.1138993	395.7 0.1198249	395.7 0.3286448
791.6 0.1817138	395.8 0.1138293	395.8 0.1136598	395.8 0.3304898
791.8 0.2274058	395.9 0.0971144	395.9 0.121793	395.9 0.3284918
792 0.2020847	396 0.1259313	396 0.1388579	396 0.2571246
792.2 0.1905838	396.1 0.1185642	396.1 0.1454889	396.1 0.255075
792.4 0.2156295	396.2 0.1254659	396.2 0.1431502	396.2 0.246564
792.6 0.1976306	396.3 0.1251453	396.3 0.1532093	396.3 0.2746977
792.8 0.2207357	396.4 0.1132623	396.4 0.1312183	396.4 0.2407713
793 0.1897552	396.5 0.1178288	396.5 0.135272	396.5 0.2629297
793.2 0.2007259	396.6 0.1201261	396.6 0.1433309	396.6 0.2521635
793.4 0.1965974	396.7 0.1098128	396.7 0.1316503	396.7 0.2762455
793.6 0.184639	396.8 0.1314413	396.8 0.1110115	396.8 0.2810585
793.8 0.2307063	396.9 0.159667	396.9 0.1425265	396.9 0.2771955
794 0.1799521	397 0.1601584	397 0.1391104	397 0.2607744
794.2 0.2056745	397.1 0.1565937	397.1 0.1106971	397.1 0.2744302
794.4 0.2006012	397.2 0.1777	397.2 0.1282987	397.2 0.2931567
794.6 0.1952173	397.3 0.1231738	397.3 0.1428567	397.3 0.2853304
794.8 0.2025779	397.4 0.1850661	397.4 0.1521769	397.4 0.2791189
795 0.2079053	397.5 0.1345488	397.5 0.1532898	397.5 0.3597939
795.2 0.2191807	397.6 0.129541	397.6 0.1271852	397.6 0.3412853

795.4 0.2093246	397.7 0.1396111	397.7 0.1479906	397.7 0.3127654
795.6 0.1902872	397.8 0.1302287	397.8 0.1465347	397.8 0.2788378
795.8 0.204719	397.9 0.1399435	397.9 0.1707411	397.9 0.2710929
796 0.203081	398 0.114013	398 0.129516	398 0.2902894
796.2 0.1924994	398.1 0.1127879	398.1 0.1490142	398.1 0.2798085
796.4 0.1854291	398.2 0.1227264	398.2 0.145147	398.2 0.2617887
796.6 0.1947072	398.3 0.1041517	398.3 0.1166148	398.3 0.2535902
796.8 0.1933205	398.4 0.1315413	398.4 0.1302614	398.4 0.2791599
797 0.2087391	398.5 0.1294456	398.5 0.1289259	398.5 0.2518061
797.2 0.2100741	398.6 0.1524131	398.6 0.1188316	398.6 0.2388124
797.4 0.1919804	398.7 0.1384595	398.7 0.1442837	398.7 0.2614073
797.6 0.1668759	398.8 0.1204495	398.8 0.1360005	398.8 0.2622862
797.8 0.1680081	398.9 0.1415752	398.9 0.1150207	398.9 0.2466473
798 0.1978799	399 0.1510829	399 0.1142811	399 0.2612572
798.2 0.1958553	399.1 0.1126301	399.1 0.1257637	399.1 0.3068259
798.4 0.205599	399.2 0.1309865	399.2 0.1274578	399.2 0.3309008
798.6 0.2501816	399.3 0.1357278	399.3 0.12844	399.3 0.3583074
798.8 0.1988353	399.4 0.1240278	399.4 0.1316931	399.4 0.3199174
799 0.2117222	399.5 0.1426207	399.5 0.1736398	399.5 0.3424537
799.2 0.2063865	399.6 0.112373	399.6 0.1856527	399.6 0.4058517
799.4 0.220489	399.7 0.1574178	399.7 0.1496302	399.7 0.3115121
799.6 0.2000377	399.8 0.1512252	399.8 0.1338528	399.8 0.3273993
799.8 0.2041125	399.9 0.128483	399.9 0.1508688	399.9 0.3112342
800 0.2082641	400 0.1110163	400 0.1536763	400 0.3623431
800.2 0.2106943	400.1 0.1322058	400.1 0.168192	400.1 0.3128504
800.4 0.2200376	400.2 0.0836843	400.2 0.1847064	400.2 0.3466764
800.6 0.1995383	400.3 0.128201	400.3 0.1426283	400.3 0.3016939
800.8 0.1929968	400.4 0.1255892	400.4 0.1487828	400.4 0.2939582
801 0.1986011	400.5 0.1040913	400.5 0.1289834	400.5 0.322753
801.2 0.2191364	400.6 0.1160188	400.6 0.1346201	400.6 0.240729
801.4 0.2199375	400.7 0.165749	400.7 0.1212583	400.7 0.2298007
801.6 0.212542	400.8 0.1546694	400.8 0.1312528	400.8 0.2610865
801.8 0.2386751	400.9 0.1675388	400.9 0.1243905	400.9 0.2869174
802 0.2064975	401 0.1761017	401 0.1283953	401 0.2649495
802.2 0.187845	401.1 0.1308582	401.1 0.1170237	401.1 0.2607012
802.4 0.1995445	401.2 0.1360606	401.2 0.1073149	401.2 0.2547891
802.6 0.2166141	401.3 0.1385829	401.3 0.1346244	401.3 0.2814691
802.8 0.2292544	401.4 0.1395686	401.4 0.128788	401.4 0.2663478
803 0.1969535	401.5 0.1303184	401.5 0.1373032	401.5 0.2923594
803.2 0.1828742	401.6 0.107085	401.6 0.1114026	401.6 0.2632855
803.4 0.2020049	401.7 0.1500105	401.7 0.1348977	401.7 0.2638296
803.6 0.1997359	401.8 0.1896649	401.8 0.1192765	401.8 0.2687625
803.8 0.204273	401.9 0.1649466	401.9 0.131684	401.9 0.2726915
804 0.2002039	402 0.1175707	402 0.1379897	402 0.3029175
804.2 0.2215192	402.1 0.1192922	402.1 0.1456444	402.1 0.301619
804.4 0.2354221	402.2 0.1375631	402.2 0.1323695	402.2 0.2702009
804.6 0.2580738	402.3 0.1086066	402.3 0.1531743	402.3 0.2760345
804.8 0.243462	402.4 0.1431428	402.4 0.1302905	402.4 0.2600332
805 0.2602059	402.5 0.1718367	402.5 0.1427857	402.5 0.2738649
805.2 0.2566989	402.6 0.1508945	402.6 0.1123506	402.6 0.2857293
805.4 0.2321039	402.7 0.1337952	402.7 0.1081825	402.7 0.2475026

805.6 0.2498198	402.8 0.135754	402.8 0.146498	402.8 0.2467384
805.8 0.2177604	402.9 0.1641488	402.9 0.1471571	402.9 0.2547725
806 0.2143883	403 0.1219703	403 0.1569522	403 0.241608
806.2 0.2292324	403.1 0.1460326	403.1 0.1248548	403.1 0.2511723
806.4 0.209989	403.2 0.1379542	403.2 0.1428119	403.2 0.2662971
806.6 0.2268814	403.3 0.1395714	403.3 0.1688244	403.3 0.2912587
806.8 0.2182375	403.4 0.1482485	403.4 0.1590201	403.4 0.2455194
807 0.1989484	403.5 0.138016	403.5 0.1343414	403.5 0.2348682
807.2 0.2073406	403.6 0.1271106	403.6 0.1313517	403.6 0.2231903
807.4 0.2009688	403.7 0.1798621	403.7 0.1491891	403.7 0.2392516
807.6 0.2048066	403.8 0.1298473	403.8 0.1335875	403.8 0.2453372
807.8 0.2120403	403.9 0.1089975	403.9 0.1143565	403.9 0.2403503
808 0.2392571	404 0.1251622	404 0.128498	404 0.2398959
808.2 0.2119577	404.1 0.1504725	404.1 0.1360648	404.1 0.2483255
808.4 0.2300035	404.2 0.1293543	404.2 0.1506497	404.2 0.2321391
808.6 0.2268644	404.3 0.1078795	404.3 0.1282788	404.3 0.2719629
808.8 0.2367938	404.4 0.1013503	404.4 0.123808	404.4 0.2538707
809 0.2160653	404.5 0.1177406	404.5 0.1291036	404.5 0.2631952
809.2 0.2145041	404.6 0.1359087	404.6 0.1217429	404.6 0.3166323
809.4 0.226119	404.7 0.1162064	404.7 0.135461	404.7 0.3064764
809.6 0.2310773	404.8 0.1076753	404.8 0.1426198	404.8 0.2925675
809.8 0.2211868	404.9 0.1559094	404.9 0.134987	404.9 0.2392116
810 0.257599	405 0.1681392	405 0.1403388	405 0.2247522
810.2 0.2200763	405.1 0.2133987	405.1 0.1456697	405.1 0.2440425
810.4 0.1934564	405.2 0.257031	405.2 0.1789602	405.2 0.2865863
810.6 0.2093152	405.3 0.1224818	405.3 0.1562168	405.3 0.2506251
810.8 0.2332274	405.4 0.1219066	405.4 0.1316616	405.4 0.2232416
811 0.2175348	405.5 0.1333779	405.5 0.1365197	405.5 0.2189009
811.2 0.2422148	405.6 0.1111705	405.6 0.156142	405.6 0.3014877
811.4 0.2361209	405.7 0.1299192	405.7 0.1466867	405.7 0.2989627
811.6 0.2542254	405.8 0.1384594	405.8 0.1734813	405.8 0.310466
811.8 0.2429758	405.9 0.1464407	405.9 0.1518355	405.9 0.2693349
812 0.2392108	406 0.1985308	406 0.1479715	406 0.2424737
812.2 0.2281966	406.1 0.2934225	406.1 0.1538838	406.1 0.2507269
812.4 0.2061595	406.2 0.2428652	406.2 0.1621955	406.2 0.2787912
812.6 0.2071865	406.3 0.3134	406.3 0.1634955	406.3 0.2541705
812.8 0.2165585	406.4 0.1211782	406.4 0.1461253	406.4 0.2551863
813 0.2361955	406.5 0.1042374	406.5 0.1524769	406.5 0.2812918
813.2 0.2078136	406.6 0.1166101	406.6 0.1246389	406.6 0.2821226
813.4 0.2437727	406.7 0.1281221	406.7 0.1405877	406.7 0.2612363
813.6 0.2303891	406.8 0.1102318	406.8 0.1558787	406.8 0.2611245
813.8 0.211992	406.9 0.1199645	406.9 0.1376315	406.9 0.237166
814 0.2293303	407 0.160437	407 0.1448493	407 0.2750941
814.2 0.2226838	407.1 0.1274134	407.1 0.1697334	407.1 0.2675401
814.4 0.2313045	407.2 0.1000965	407.2 0.1720323	407.2 0.2648151
814.6 0.2248471	407.3 0.1719041	407.3 0.1403523	407.3 0.2471914
814.8 0.2353743	407.4 0.1385584	407.4 0.1512378	407.4 0.2676768
815 0.2358949	407.5 0.1109709	407.5 0.1431057	407.5 0.2513222
815.2 0.22711	407.6 0.1252103	407.6 0.1816986	407.6 0.2464877
815.4 0.2325723	407.7 0.1427742	407.7 0.1339618	407.7 0.2612378
815.6 0.2118369	407.8 0.1074245	407.8 0.1455906	407.8 0.2576414

815.8 0.2128936	407.9 0.1228042	407.9 0.1245466	407.9 0.2716311
816 0.1962952	408 0.1310305	408 0.134426	408 0.2555918
816.2 0.2128423	408.1 0.1641135	408.1 0.1400622	408.1 0.2477837
816.4 0.2194857	408.2 0.1126663	408.2 0.1605798	408.2 0.2468913
816.6 0.2048592	408.3 0.123895	408.3 0.1328035	408.3 0.2536589
816.8 0.2144789	408.4 0.1203293	408.4 0.1418607	408.4 0.292328
817 0.2189912	408.5 0.1343933	408.5 0.1316641	408.5 0.2836697
817.2 0.2197436	408.6 0.1260367	408.6 0.150641	408.6 0.2903272
817.4 0.2235851	408.7 0.120073	408.7 0.0989782	408.7 0.3127669
817.6 0.1998637	408.8 0.1203897	408.8 0.1522282	408.8 0.3000461
817.8 0.2478729	408.9 0.1087408	408.9 0.1238235	408.9 0.2611924
818 0.2421492	409 0.1090973	409 0.1324689	409 0.2514646
818.2 0.2309594	409.1 0.1667285	409.1 0.1199363	409.1 0.3050927
818.4 0.2436953	409.2 0.1002712	409.2 0.150644	409.2 0.2555046
818.6 0.251016	409.3 0.1085474	409.3 0.1446813	409.3 0.2886627
818.8 0.2387592	409.4 0.1209243	409.4 0.1389332	409.4 0.28871
819 0.2304705	409.5 0.1259152	409.5 0.1321748	409.5 0.278887
819.2 0.2487837	409.6 0.1158551	409.6 0.1346194	409.6 0.2723444
819.4 0.2272244	409.7 0.1229907	409.7 0.1479198	409.7 0.283514
819.6 0.2166112	409.8 0.1289782	409.8 0.1066814	409.8 0.311694
819.8 0.2302509	409.9 0.1437525	409.9 0.1040419	409.9 0.2857539
820 0.2229652	410 0.1533831	410 0.1216256	410 0.2981963
820.2 0.2387675	410.1 0.1315178	410.1 0.1165855	410.1 0.2574852
820.4 0.2267389	410.2 0.1511207	410.2 0.1201621	410.2 0.2612784
820.6 0.2331484	410.3 0.1238734	410.3 0.1248702	410.3 0.2907422
820.8 0.2354524	410.4 0.1010775	410.4 0.1216683	410.4 0.3014378
821 0.2426631	410.5 0.1311089	410.5 0.14323	410.5 0.2944695
821.2 0.2112712	410.6 0.1670714	410.6 0.1436519	410.6 0.2606169
821.4 0.2111066	410.7 0.1626103	410.7 0.1455515	410.7 0.3170268
821.6 0.22202	410.8 0.1504133	410.8 0.1693654	410.8 0.2683516
821.8 0.2077693	410.9 0.1421491	410.9 0.1541367	410.9 0.290665
822 0.2279949	411 0.1710732	411 0.1478653	411 0.293768
822.2 0.2201492	411.1 0.1898196	411.1 0.1445758	411.1 0.3042723
822.4 0.2084331	411.2 0.1631843	411.2 0.133647	411.2 0.2803818
822.6 0.2418317	411.3 0.1824663	411.3 0.1400818	411.3 0.3051569
822.8 0.2072982	411.4 0.2183419	411.4 0.1383763	411.4 0.2772773
823 0.2481486	411.5 0.1737495	411.5 0.1477619	411.5 0.2626195
823.2 0.2256829	411.6 0.2302117	411.6 0.1540378	411.6 0.2775641
823.4 0.21875	411.7 0.2191729	411.7 0.1653403	411.7 0.3091927
823.6 0.2343959	411.8 0.1608093	411.8 0.1473066	411.8 0.3028281
823.8 0.2388714	411.9 0.1982297	411.9 0.1492831	411.9 0.3623147
824 0.2102402	412 0.1953419	412 0.1390008	412 0.3236667
824.2 0.2151475	412.1 0.1892331	412.1 0.1579863	412.1 0.3097899
824.4 0.1984786	412.2 0.1799928	412.2 0.1128992	412.2 0.3063536
824.6 0.2322768	412.3 0.1947169	412.3 0.1201593	412.3 0.2987063
824.8 0.2185597	412.4 0.1680816	412.4 0.1193	412.4 0.2826578
825 0.2101322	412.5 0.1538577	412.5 0.1158726	412.5 0.2969444
825.2 0.2228859	412.6 0.1466764	412.6 0.118149	412.6 0.3084387
825.4 0.225221	412.7 0.1272389	412.7 0.1225449	412.7 0.3228258
825.6 0.2298481	412.8 0.1170479	412.8 0.1530979	412.8 0.3100428
825.8 0.2369597	412.9 0.1270369	412.9 0.1280236	412.9 0.3192303

826 0.2320946	413 0.1212835	413 0.154757	413 0.3608351
826.2 0.2529027	413.1 0.1168985	413.1 0.1245398	413.1 0.2871854
826.4 0.2294999	413.2 0.150322	413.2 0.1341804	413.2 0.2309526
826.6 0.2208597	413.3 0.1597234	413.3 0.123425	413.3 0.2744065
826.8 0.2247658	413.4 0.1455318	413.4 0.1256015	413.4 0.2976681
827 0.2623578	413.5 0.149078	413.5 0.1293164	413.5 0.3299341
827.2 0.2271014	413.6 0.2251359	413.6 0.1500317	413.6 0.2962803
827.4 0.2527137	413.7 0.2235219	413.7 0.1503636	413.7 0.3683042
827.6 0.2233054	413.8 0.2186736	413.8 0.1581869	413.8 0.336938
827.8 0.2165865	413.9 0.1858382	413.9 0.1412897	413.9 0.3496182
828 0.2128143	414 0.1590506	414 0.1411695	414 0.301047
828.2 0.2363234	414.1 0.1926139	414.1 0.1180391	414.1 0.2731895
828.4 0.2329993	414.2 0.1789933	414.2 0.1346754	414.2 0.2567373
828.6 0.2466892	414.3 0.1738223	414.3 0.1370201	414.3 0.2538042
828.8 0.2283436	414.4 0.1514521	414.4 0.1407169	414.4 0.2753259
829 0.2126376	414.5 0.1483899	414.5 0.118779	414.5 0.3852137
829.2 0.2347787	414.6 0.1401037	414.6 0.118851	414.6 0.3293825
829.4 0.2446142	414.7 0.1451044	414.7 0.1397409	414.7 0.3246512
829.6 0.2801457	414.8 0.1189994	414.8 0.114474	414.8 0.3675352
829.8 0.2010927	414.9 0.1066459	414.9 0.1224344	414.9 0.295215
830 0.2317898	415 0.1324765	415 0.1143437	415 0.289289
830.2 0.2600612	415.1 0.1680506	415.1 0.1129209	415.1 0.2773797
830.4 0.2713237	415.2 0.120833	415.2 0.1183656	415.2 0.2683999
830.6 0.2810416	415.3 0.2000517	415.3 0.1192225	415.3 0.28697
830.8 0.29855	415.4 0.1646519	415.4 0.148851	415.4 0.3005819
831 0.3026828	415.5 0.1381679	415.5 0.1330299	415.5 0.2903605
831.2 0.3207762	415.6 0.1395483	415.6 0.1487619	415.6 0.3204432
831.4 0.2939113	415.7 0.1527438	415.7 0.1451253	415.7 0.3381965
831.6 0.3288484	415.8 0.1615419	415.8 0.1551743	415.8 0.3330319
831.8 0.3264369	415.9 0.097828	415.9 0.1442754	415.9 0.3266393
832 0.3195754	416 0.1382751	416 0.1537691	416 0.3095398
832.2 0.3182485	416.1 0.1747894	416.1 0.1619636	416.1 0.3072275
832.4 0.336684	416.2 0.1832414	416.2 0.1635224	416.2 0.3387519
832.6 0.341507	416.3 0.1192309	416.3 0.1637058	416.3 0.4159218
832.8 0.319298	416.4 0.1335054	416.4 0.143417	416.4 0.3140671
833 0.3416601	416.5 0.1704125	416.5 0.1490902	416.5 0.2868162
833.2 0.3446549	416.6 0.1537498	416.6 0.1366053	416.6 0.2841124
833.4 0.3322939	416.7 0.1952645	416.7 0.1236851	416.7 0.2431556
833.6 0.3303352	416.8 0.2269438	416.8 0.1392457	416.8 0.2549815
833.8 0.3311849	416.9 0.1786261	416.9 0.1400358	416.9 0.2338433
834 0.2960095	417 0.2175941	417 0.1387655	417 0.2612996
834.2 0.3035247	417.1 0.2002025	417.1 0.1232087	417.1 0.2618094
834.4 0.2980853	417.2 0.2078747	417.2 0.134204	417.2 0.2639801
834.6 0.2976986	417.3 0.1730402	417.3 0.1423428	417.3 0.2348549
834.8 0.3155388	417.4 0.1854121	417.4 0.1250772	417.4 0.2973695
835 0.326257	417.5 0.1119039	417.5 0.1267811	417.5 0.2583895
835.2 0.3253613	417.6 0.1272423	417.6 0.1285457	417.6 0.2492851
835.4 0.3154924	417.7 0.1361324	417.7 0.1641377	417.7 0.29661
835.6 0.3236684	417.8 0.1111387	417.8 0.1285091	417.8 0.2921306
835.8 0.2819513	417.9 0.1103653	417.9 0.1380139	417.9 0.2862612
836 0.2780246	418 0.1270647	418 0.120432	418 0.3337912

836.2 0.2924615	418.1 0.148341	418.1 0.1141007	418.1 0.2916783
836.4 0.3387917	418.2 0.1055497	418.2 0.1410302	418.2 0.2696167
836.6 0.3511382	418.3 0.0990427	418.3 0.1222196	418.3 0.2545381
836.8 0.3811057	418.4 0.1064772	418.4 0.1216047	418.4 0.2680962
837 0.3725743	418.5 0.0954332	418.5 0.1210844	418.5 0.3167399
837.2 0.3831057	418.6 0.1088489	418.6 0.1321832	418.6 0.3386004
837.4 0.4190701	418.7 0.1140505	418.7 0.1403227	418.7 0.2871077
837.6 0.4344627	418.8 0.1253014	418.8 0.1410932	418.8 0.3448723
837.8 0.4398419	418.9 0.1388159	418.9 0.154268	418.9 0.3702359
838 0.4330977	419 0.1355613	419 0.1423829	419 0.3492263
838.2 0.4397308	419.1 0.1262572	419.1 0.1411193	419.1 0.3271588
838.4 0.4169399	419.2 0.113701	419.2 0.1223421	419.2 0.2811437
838.6 0.4400242	419.3 0.1237213	419.3 0.1418044	419.3 0.2752041
838.8 0.4494807	419.4 0.1254835	419.4 0.1167811	419.4 0.286398
839 0.4325042	419.5 0.1196356	419.5 0.1301831	419.5 0.2939314
839.2 0.441423	419.6 0.1197134	419.6 0.1336348	419.6 0.3176426
839.4 0.44572	419.7 0.1069338	419.7 0.1141583	419.7 0.3438923
839.6 0.4236706	419.8 0.1201395	419.8 0.1597059	419.8 0.3693337
839.8 0.4410936	419.9 0.1298908	419.9 0.1565647	419.9 0.3376783
840 0.4138282	420 0.1356685	420 0.1417503	420 0.3246921
840.2 0.4020035	420.1 0.1111767	420.1 0.1518965	420.1 0.4144199
840.4 0.3903681	420.2 0.1348507	420.2 0.1317538	420.2 0.3332478
840.6 0.4210645	420.3 0.1109606	420.3 0.1485664	420.3 0.292981
840.8 0.3847185	420.4 0.1081774	420.4 0.1538031	420.4 0.2907765
841 0.4131926	420.5 0.1035755	420.5 0.1507355	420.5 0.3372155
841.2 0.4028099	420.6 0.1021987	420.6 0.1410051	420.6 0.3164357
841.4 0.4110549	420.7 0.1334189	420.7 0.1344116	420.7 0.3144535
841.6 0.3996567	420.8 0.1137692	420.8 0.1762161	420.8 0.3237339
841.8 0.4391042	420.9 0.2084357	420.9 0.1374314	420.9 0.3484231
842 0.4125153	421 0.2560131	421 0.1380644	421 0.2976039
842.2 0.4266914	421.1 0.1488467	421.1 0.1898738	421.1 0.2834417
842.4 0.4621414	421.2 0.1449595	421.2 0.1497261	421.2 0.3152803
842.6 0.4732088	421.3 0.188823	421.3 0.1586283	421.3 0.3006814
842.8 0.4783048	421.4 0.1715071	421.4 0.1212135	421.4 0.2994755
843 0.4841447	421.5 0.1413067	421.5 0.1478435	421.5 0.2870907
843.2 0.4745594	421.6 0.2112269	421.6 0.1295426	421.6 0.3301693
843.4 0.4032643	421.7 0.1867702	421.7 0.1125662	421.7 0.3546489
843.6 0.4695663	421.8 0.1781719	421.8 0.1386164	421.8 0.2610781
843.8 0.4457156	421.9 0.2584791	421.9 0.1311081	421.9 0.2689123
844 0.4827947	422 0.1637542	422 0.1300114	422 0.3186236
844.2 0.5251648	422.1 0.1752504	422.1 0.1219212	422.1 0.3073744
844.4 0.5071251	422.2 0.1680098	422.2 0.1241995	422.2 0.2853568
844.6 0.445111	422.3 0.2153473	422.3 0.1342729	422.3 0.3122606
844.8 0.4797666	422.4 0.2558188	422.4 0.1330103	422.4 0.2884846
845 0.5091447	422.5 0.2902091	422.5 0.1618122	422.5 0.2769804
845.2 0.5147141	422.6 0.3283668	422.6 0.1562946	422.6 0.2887685
845.4 0.5011013	422.7 0.3395595	422.7 0.1519499	422.7 0.2922554
845.6 0.4751176	422.8 0.2789629	422.8 0.1326245	422.8 0.3001134
845.8 0.4112073	422.9 0.2208485	422.9 0.1544192	422.9 0.2869409
846 0.4621455	423 0.1756513	423 0.1393985	423 0.3151759
846.2 0.4854032	423.1 0.1790628	423.1 0.1279105	423.1 0.3160304

846.4 0.4638971	423.2 0.2087098	423.2 0.1242782	423.2 0.3000854
846.6 0.4758787	423.3 0.1248638	423.3 0.1277625	423.3 0.2805485
846.8 0.4680578	423.4 0.1675313	423.4 0.1451984	423.4 0.2882989
847 0.4687959	423.5 0.229633	423.5 0.115644	423.5 0.3062567
847.2 0.4518522	423.6 0.2853881	423.6 0.1246658	423.6 0.3434516
847.4 0.4749537	423.7 0.2084518	423.7 0.1322089	423.7 0.3586122
847.6 0.4720363	423.8 0.2556844	423.8 0.1380457	423.8 0.4064706
847.8 0.4320415	423.9 0.2253171	423.9 0.1514523	423.9 0.3054275
848 0.4157249	424 0.2203442	424 0.1236917	424 0.2891002
848.2 0.3637042	424.1 0.2270848	424.1 0.1233642	424.1 0.3247039
848.4 0.3926711	424.2 0.2093075	424.2 0.1314673	424.2 0.2769837
848.6 0.4576678	424.3 0.188908	424.3 0.1480015	424.3 0.2579492
848.8 0.4351982	424.4 0.1958168	424.4 0.1762552	424.4 0.2708009
849 0.4627686	424.5 0.1823491	424.5 0.1401151	424.5 0.2780688
849.2 0.4522512	424.6 0.2070716	424.6 0.1377381	424.6 0.3051914
849.4 0.4340934	424.7 0.1792341	424.7 0.1461226	424.7 0.3596455
849.6 0.4448526	424.8 0.1329531	424.8 0.1569442	424.8 0.2745331
849.8 0.45662	424.9 0.189944	424.9 0.1807043	424.9 0.2802625
850 0.4078327	425 0.1801485	425 0.1561489	425 0.2642244
850.2 0.433573	425.1 0.1848213	425.1 0.1629141	425.1 0.2622935
850.4 0.4330305	425.2 0.1584372	425.2 0.1584314	425.2 0.2716671
850.6 0.3864591	425.3 0.1645361	425.3 0.1663093	425.3 0.302034
850.8 0.3744399	425.4 0.1827768	425.4 0.1421933	425.4 0.2699457
851 0.4530209	425.5 0.1451126	425.5 0.1240782	425.5 0.2816585
851.2 0.5077859	425.6 0.179916	425.6 0.1194585	425.6 0.3706818
851.4 0.5083092	425.7 0.1119164	425.7 0.1328174	425.7 0.3817
851.6 0.4720375	425.8 0.1349445	425.8 0.1280987	425.8 0.3243946
851.8 0.5236959	425.9 0.146818	425.9 0.1425597	425.9 0.2810385
852 0.4741996	426 0.1087494	426 0.1279661	426 0.303655
852.2 0.4877713	426.1 0.1107596	426.1 0.1124202	426.1 0.3297337
852.4 0.49294	426.2 0.1329881	426.2 0.1204967	426.2 0.2837291
852.6 0.4735094	426.3 0.1576824	426.3 0.1330263	426.3 0.2687184
852.8 0.5345111	426.4 0.0991577	426.4 0.1671859	426.4 0.2910121
853 0.5080748	426.5 0.1607044	426.5 0.1610603	426.5 0.268287
853.2 0.5025864	426.6 0.2255091	426.6 0.1265682	426.6 0.2814665
853.4 0.5077974	426.7 0.2480415	426.7 0.1500569	426.7 0.3060144
853.6 0.4476467	426.8 0.2701266	426.8 0.1227639	426.8 0.3531714
853.8 0.4645735	426.9 0.250812	426.9 0.1170826	426.9 0.3648321
854 0.4637476	427 0.1462177	427 0.1324623	427 0.2930897
854.2 0.5107669	427.1 0.2207403	427.1 0.1524621	427.1 0.2938862
854.4 0.4338177	427.2 0.2666452	427.2 0.1335159	427.2 0.3330089
854.6 0.4477243	427.3 0.2618126	427.3 0.1327782	427.3 0.2831402
854.8 0.4602753	427.4 0.2744162	427.4 0.1332415	427.4 0.342794
855 0.4461828	427.5 0.2754047	427.5 0.1235436	427.5 0.4025455
855.2 0.4407043	427.6 0.2434943	427.6 0.1226365	427.6 0.3376214
855.4 0.4428159	427.7 0.1916533	427.7 0.1349833	427.7 0.286122
855.6 0.491308	427.8 0.2627325	427.8 0.124404	427.8 0.355607
855.8 0.4899428	427.9 0.2346366	427.9 0.1294898	427.9 0.3431552
856 0.4675021	428 0.2184458	428 0.1246199	428 0.2943594
856.2 0.4660067	428.1 0.2334301	428.1 0.1119474	428.1 0.3281617
856.4 0.4477384	428.2 0.1882786	428.2 0.1213289	428.2 0.3699672

856.6 0.4618751	428.3 0.1239075	428.3 0.1210141	428.3 0.4289674
856.8 0.446794	428.4 0.1119721	428.4 0.118394	428.4 0.4069996
857 0.4532046	428.5 0.1238222	428.5 0.1235578	428.5 0.3788972
857.2 0.4686843	428.6 0.1348614	428.6 0.0988147	428.6 0.3817709
857.4 0.4868139	428.7 0.1062332	428.7 0.1408209	428.7 0.3986965
857.6 0.4450493	428.8 0.1080301	428.8 0.1305699	428.8 0.458854
857.8 0.478136	428.9 0.121025	428.9 0.1226589	428.9 0.4413075
858 0.4234829	429 0.1146012	429 0.1324466	429 0.3212514
858.2 0.4840721	429.1 0.1365189	429.1 0.1336575	429.1 0.3142322
858.4 0.4690696	429.2 0.1333442	429.2 0.1311781	429.2 0.2679648
858.6 0.4512874	429.3 0.109963	429.3 0.1294711	429.3 0.2546415
858.8 0.4531876	429.4 0.1045697	429.4 0.1307381	429.4 0.3204486
859 0.4811064	429.5 0.114137	429.5 0.1340656	429.5 0.2718526
859.2 0.4424986	429.6 0.1050289	429.6 0.1375611	429.6 0.3142146
859.4 0.4343995	429.7 0.1292868	429.7 0.1097824	429.7 0.4095729
859.6 0.4363366	429.8 0.1918043	429.8 0.127286	429.8 0.3644146
859.8 0.4038315	429.9 0.173806	429.9 0.1549457	429.9 0.3113882
860 0.4344011	430 0.1253923	430 0.1383561	430 0.30604
860.2 0.4309025	430.1 0.1109066	430.1 0.162178	430.1 0.3069339
860.4 0.4220899	430.2 0.111472	430.2 0.149565	430.2 0.2717632
860.6 0.4251943	430.3 0.1100383	430.3 0.1318738	430.3 0.2775839
860.8 0.4316093	430.4 0.1149966	430.4 0.1099952	430.4 0.2649384
861 0.4821421	430.5 0.1191166	430.5 0.1126257	430.5 0.3120044
861.2 0.4831865	430.6 0.1367968	430.6 0.1243223	430.6 0.285239
861.4 0.4685855	430.7 0.13568	430.7 0.131853	430.7 0.3047878
861.6 0.4803527	430.8 0.146534	430.8 0.1291744	430.8 0.3718551
861.8 0.4755545	430.9 0.1110932	430.9 0.1213463	430.9 0.3697691
862 0.4431448	431 0.1223978	431 0.1112935	431 0.2817197
862.2 0.4439249	431.1 0.1387941	431.1 0.115915	431.1 0.2913856
862.4 0.4419507	431.2 0.1255388	431.2 0.1366763	431.2 0.2775017
862.6 0.4622963	431.3 0.1254594	431.3 0.1252706	431.3 0.2938042
862.8 0.4608048	431.4 0.1171835	431.4 0.1120213	431.4 0.2735363
863 0.439489	431.5 0.127158	431.5 0.1336426	431.5 0.2695983
863.2 0.4721397	431.6 0.1206948	431.6 0.1382683	431.6 0.2798688
863.4 0.4378396	431.7 0.118955	431.7 0.123928	431.7 0.3037385
863.6 0.4165972	431.8 0.1191633	431.8 0.1409916	431.8 0.2972154
863.8 0.4346972	431.9 0.1346876	431.9 0.1267947	431.9 0.2654753
864 0.4704791	432 0.1069794	432 0.1175307	432 0.2801448
864.2 0.4578486	432.1 0.1214298	432.1 0.1231163	432.1 0.3009504
864.4 0.4386629	432.2 0.1313305	432.2 0.1420231	432.2 0.2679453
864.6 0.4495462	432.3 0.1304027	432.3 0.1286801	432.3 0.3283958
864.8 0.4289866	432.4 0.1243298	432.4 0.1408604	432.4 0.2765883
865 0.4419511	432.5 0.1280324	432.5 0.1444284	432.5 0.3244977
865.2 0.4404622	432.6 0.1222335	432.6 0.1250869	432.6 0.2565116
865.4 0.4910445	432.7 0.1126977	432.7 0.1513766	432.7 0.3297444
865.6 0.472388	432.8 0.1427789	432.8 0.1595619	432.8 0.2675912
865.8 0.4648485	432.9 0.1422627	432.9 0.1400824	432.9 0.2723187
866 0.4925266	433 0.1296484	433 0.1449145	433 0.3542452
866.2 0.4812278	433.1 0.1240766	433.1 0.1536058	433.1 0.4588291
866.4 0.5099493	433.2 0.1456757	433.2 0.1206213	433.2 0.3097817
866.6 0.5027263	433.3 0.1451089	433.3 0.1339172	433.3 0.2875942

866.8 0.5056498	433.4 0.1638223	433.4 0.1493015	433.4 0.3020252
867 0.4780493	433.5 0.1497144	433.5 0.1391185	433.5 0.2913458
867.2 0.498861	433.6 0.1558177	433.6 0.1364825	433.6 0.2504943
867.4 0.522818	433.7 0.1516728	433.7 0.1428062	433.7 0.3023813
867.6 0.499581	433.8 0.1444519	433.8 0.1287091	433.8 0.3159457
867.8 0.5351461	433.9 0.1512327	433.9 0.1238759	433.9 0.3264427
868 0.5201721	434 0.1536849	434 0.1320411	434 0.2889592
868.2 0.5006291	434.1 0.1401629	434.1 0.1446294	434.1 0.2742195
868.4 0.5125006	434.2 0.1538176	434.2 0.1535625	434.2 0.3161445
868.6 0.5323775	434.3 0.1591386	434.3 0.1414329	434.3 0.3301867
868.8 0.5320651	434.4 0.1198292	434.4 0.1508711	434.4 0.2677712
869 0.5030978	434.5 0.1656218	434.5 0.1130333	434.5 0.2642882
869.2 0.503808	434.6 0.1660558	434.6 0.1113483	434.6 0.2901941
869.4 0.4797275	434.7 0.1864854	434.7 0.1404386	434.7 0.2287849
869.6 0.4909427	434.8 0.1544292	434.8 0.1248172	434.8 0.2669624
869.8 0.4822373	434.9 0.1491318	434.9 0.1537622	434.9 0.2567633
870 0.5017482	435 0.149297	435 0.1446496	435 0.2403856
870.2 0.4802174	435.1 0.1406799	435.1 0.1280196	435.1 0.2452748
870.4 0.501991	435.2 0.1547117	435.2 0.1466235	435.2 0.2622989
870.6 0.5007508	435.3 0.154526	435.3 0.1352574	435.3 0.2535178
870.8 0.4975043	435.4 0.1706525	435.4 0.136804	435.4 0.2793341
871 0.4691724	435.5 0.1478885	435.5 0.1406205	435.5 0.2781574
871.2 0.4845985	435.6 0.1421061	435.6 0.1453691	435.6 0.2598571
871.4 0.4597126	435.7 0.1220313	435.7 0.1540663	435.7 0.2660374
871.6 0.4768301	435.8 0.1750759	435.8 0.1315332	435.8 0.2452932
871.8 0.5062009	435.9 0.1382053	435.9 0.1296428	435.9 0.2597481
872 0.4827079	436 0.1548783	436 0.1555714	436 0.2543961
872.2 0.5011601	436.1 0.1112231	436.1 0.1496478	436.1 0.2953416
872.4 0.4998134	436.2 0.154814	436.2 0.144433	436.2 0.2625917
872.6 0.4973012	436.3 0.1465998	436.3 0.1340247	436.3 0.3394687
872.8 0.4945449	436.4 0.1369777	436.4 0.1367654	436.4 0.3246488
873 0.5082031	436.5 0.1707609	436.5 0.1483364	436.5 0.2869743
873.2 0.5047194	436.6 0.1531135	436.6 0.1152716	436.6 0.3342906
873.4 0.5097324	436.7 0.1343819	436.7 0.1209309	436.7 0.3352581
873.6 0.5363219	436.8 0.1608788	436.8 0.1506992	436.8 0.3562967
873.8 0.5543334	436.9 0.1608433	436.9 0.1331301	436.9 0.3093706
874 0.5217955	437 0.1673147	437 0.1315127	437 0.3108636
874.2 0.5073401	437.1 0.1363973	437.1 0.1421247	437.1 0.3246737
874.4 0.5494633	437.2 0.1520431	437.2 0.1607276	437.2 0.3447247
874.6 0.5535404	437.3 0.1349319	437.3 0.1493071	437.3 0.3193922
874.8 0.5670201	437.4 0.1359613	437.4 0.1582849	437.4 0.3164049
875 0.5974949	437.5 0.1555263	437.5 0.1585116	437.5 0.304251
875.2 0.5745733	437.6 0.1601151	437.6 0.1637958	437.6 0.2735133
875.4 0.5618176	437.7 0.1420266	437.7 0.1568875	437.7 0.2939201
875.6 0.5665421	437.8 0.1655207	437.8 0.1644567	437.8 0.2912715
875.8 0.5497025	437.9 0.1366123	437.9 0.1588935	437.9 0.3029073
876 0.5561379	438 0.1566808	438 0.1556941	438 0.2777347
876.2 0.5364324	438.1 0.1640733	438.1 0.126697	438.1 0.2965791
876.4 0.5501013	438.2 0.1574947	438.2 0.1384318	438.2 0.3160746
876.6 0.574798	438.3 0.2086528	438.3 0.1594355	438.3 0.2759373
876.8 0.5259252	438.4 0.1914606	438.4 0.1557331	438.4 0.293977

877 0.5799633	438.5 0.2675133	438.5 0.1491201	438.5 0.2818847
877.2 0.5585995	438.6 0.1945063	438.6 0.1519637	438.6 0.2894694
877.4 0.5375391	438.7 0.1666411	438.7 0.1445227	438.7 0.2847294
877.6 0.54272	438.8 0.148657	438.8 0.1424186	438.8 0.3114183
877.8 0.5518568	438.9 0.1673472	438.9 0.1414718	438.9 0.2804983
878 0.5602614	439 0.1623132	439 0.1493381	439 0.3235398
878.2 0.5724988	439.1 0.1647886	439.1 0.1416629	439.1 0.2990201
878.4 0.5643206	439.2 0.1519859	439.2 0.1349849	439.2 0.3806774
878.6 0.5735607	439.3 0.1705884	439.3 0.1167981	439.3 0.3109568
878.8 0.5721486	439.4 0.11792	439.4 0.1268728	439.4 0.3018351
879 0.561125	439.5 0.1370532	439.5 0.1222856	439.5 0.2975363
879.2 0.5760525	439.6 0.1572288	439.6 0.1397137	439.6 0.2953363
879.4 0.5724514	439.7 0.1494747	439.7 0.119154	439.7 0.3022917
879.6 0.5530222	439.8 0.135413	439.8 0.1207582	439.8 0.2792844
879.8 0.5232425	439.9 0.1340134	439.9 0.141201	439.9 0.3264154
880 0.5022764	440 0.1368814	440 0.1524932	440 0.3013078
880.2 0.4949416	440.1 0.1559884	440.1 0.1404968	440.1 0.2792982
880.4 0.4847055	440.2 0.163984	440.2 0.1508753	440.2 0.2839118
880.6 0.4840193	440.3 0.1679387	440.3 0.1386288	440.3 0.2846751
880.8 0.5734546	440.4 0.1708709	440.4 0.1322581	440.4 0.3348373
881 0.5369076	440.5 0.1475578	440.5 0.1376464	440.5 0.2838319
881.2 0.4899727	440.6 0.1398463	440.6 0.1362007	440.6 0.3006095
881.4 0.5068236	440.7 0.1530246	440.7 0.139826	440.7 0.303533
881.6 0.5079473	440.8 0.186608	440.8 0.1306826	440.8 0.3309669
881.8 0.4701163	440.9 0.1337947	440.9 0.1369496	440.9 0.3624293
882 0.4879591	441 0.1179572	441 0.1843348	441 0.316039
882.2 0.4644202	441.1 0.1729031	441.1 0.1706925	441.1 0.3172604
882.4 0.4909676	441.2 0.1079824	441.2 0.1737623	441.2 0.3396557
882.6 0.4697811	441.3 0.12704	441.3 0.1914353	441.3 0.3160247
882.8 0.488024	441.4 0.1154521	441.4 0.1336134	441.4 0.2978481
883 0.4791781	441.5 0.1245372	441.5 0.1722497	441.5 0.3283478
883.2 0.5234141	441.6 0.1144249	441.6 0.1528357	441.6 0.3081177
883.4 0.4933453	441.7 0.1114151	441.7 0.1480691	441.7 0.3355223
883.6 0.5369458	441.8 0.1307975	441.8 0.1409439	441.8 0.2850326
883.8 0.538547	441.9 0.1697292	441.9 0.11472	441.9 0.3145652
884 0.5152368	442 0.1596787	442 0.1442841	442 0.2747104
884.2 0.4929401	442.1 0.1729821	442.1 0.1525338	442.1 0.3233018
884.4 0.5318978	442.2 0.1513195	442.2 0.1454657	442.2 0.3363975
884.6 0.5196308	442.3 0.1538812	442.3 0.1378744	442.3 0.3586144
884.8 0.5086216	442.4 0.1396564	442.4 0.1559269	442.4 0.3228955
885 0.5020078	442.5 0.1564116	442.5 0.146198	442.5 0.3190666
885.2 0.483418	442.6 0.1336038	442.6 0.1596193	442.6 0.292185
885.4 0.4671848	442.7 0.159735	442.7 0.1544614	442.7 0.2826653
885.6 0.5237302	442.8 0.1615031	442.8 0.1397625	442.8 0.2728178
885.8 0.5295809	442.9 0.1525186	442.9 0.1373159	442.9 0.2826648
886 0.5689471	443 0.1666976	443 0.1446646	443 0.3187656
886.2 0.5952895	443.1 0.1641522	443.1 0.1526496	443.1 0.2669055
886.4 0.4962538	443.2 0.1693417	443.2 0.149451	443.2 0.3118713
886.6 0.4563622	443.3 0.1680121	443.3 0.125885	443.3 0.3108048
886.8 0.5633678	443.4 0.1559547	443.4 0.1246249	443.4 0.2952096
887 0.5524675	443.5 0.1481599	443.5 0.1287357	443.5 0.2988499

887.2 0.5821521	443.6 0.1892361	443.6 0.1469361	443.6 0.2883447
887.4 0.5479265	443.7 0.1515498	443.7 0.1339699	443.7 0.2907027
887.6 0.5595589	443.8 0.1437186	443.8 0.1565935	443.8 0.3018215
887.8 0.5581708	443.9 0.1088537	443.9 0.1437982	443.9 0.3227194
888 0.5581555	444 0.2202303	444 0.1478868	444 0.2975151
888.2 0.5377295	444.1 0.1285009	444.1 0.1323549	444.1 0.2902949
888.4 0.5498753	444.2 0.1492719	444.2 0.1220806	444.2 0.3424884
888.6 0.5372059	444.3 0.1574587	444.3 0.1414201	444.3 0.300066
888.8 0.5567503	444.4 0.1607326	444.4 0.1488537	444.4 0.3081626
889 0.6768023	444.5 0.1683083	444.5 0.1532404	444.5 0.284067
889.2 0.6463887	444.6 0.1456418	444.6 0.1277255	444.6 0.2944585
889.4 0.5327306	444.7 0.1784705	444.7 0.1340874	444.7 0.3789158
889.6 0.6226782	444.8 0.1370419	444.8 0.1527593	444.8 0.3227434
889.8 0.5814785	444.9 0.1918343	444.9 0.1348484	444.9 0.2911948
890 0.5910189	445 0.1765224	445 0.1319433	445 0.2550224
890.2 0.6561839	445.1 0.1263297	445.1 0.141204	445.1 0.2697669
890.4 0.5911579	445.2 0.1387447	445.2 0.1381995	445.2 0.3230065
890.6 0.5813143	445.3 0.1824347	445.3 0.1608158	445.3 0.3453197
890.8 0.4922677	445.4 0.1682297	445.4 0.1586015	445.4 0.3256025
891 0.5564707	445.5 0.1602384	445.5 0.1340515	445.5 0.329351
891.2 0.5399564	445.6 0.2229694	445.6 0.1434684	445.6 0.2944082
891.4 0.5004759	445.7 0.1470815	445.7 0.1566193	445.7 0.2867549
891.6 0.4673233	445.8 0.1374713	445.8 0.1428506	445.8 0.3185438
891.8 0.4921604	445.9 0.1474929	445.9 0.183623	445.9 0.2717439
892 0.5857825	446 0.1192422	446 0.1539378	446 0.2708271
892.2 0.4981392	446.1 0.1439195	446.1 0.1272882	446.1 0.2801017
892.4 0.5319411	446.2 0.1473607	446.2 0.171349	446.2 0.2593777
892.6 0.5810775	446.3 0.1380532	446.3 0.1459049	446.3 0.2741863
892.8 0.4831577	446.4 0.1825485	446.4 0.166468	446.4 0.2937644
893 0.5076739	446.5 0.1686712	446.5 0.172102	446.5 0.2528931
893.2 0.584303	446.6 0.1643407	446.6 0.1370525	446.6 0.2314474
893.4 0.5398148	446.7 0.1639506	446.7 0.151543	446.7 0.2445945
893.6 0.6198357	446.8 0.1718218	446.8 0.1340567	446.8 0.2455865
893.8 0.6680335	446.9 0.2065584	446.9 0.1321238	446.9 0.2706622
894 0.6801831	447 0.1590286	447 0.1438957	447 0.2506075
894.2 0.7363528	447.1 0.2025503	447.1 0.1415577	447.1 0.2435451
894.4 0.7053229	447.2 0.1740825	447.2 0.149793	447.2 0.2477385
894.6 0.7925624	447.3 0.1875494	447.3 0.1414253	447.3 0.3036188
894.8 0.8097086	447.4 0.1684867	447.4 0.134273	447.4 0.2391465
895 0.6901503	447.5 0.1719647	447.5 0.1362227	447.5 0.2514229
895.2 0.6148466	447.6 0.1858273	447.6 0.1492895	447.6 0.2350177
895.4 0.6378375	447.7 0.1858703	447.7 0.1327535	447.7 0.2714235
895.6 0.6366278	447.8 0.1881759	447.8 0.1092895	447.8 0.2912343
895.8 0.72482	447.9 0.1708011	447.9 0.1361135	447.9 0.3113507
896 0.6620796	448 0.1802571	448 0.1476514	448 0.260926
896.2 0.5339605	448.1 0.1607235	448.1 0.1284761	448.1 0.2487601
896.4 0.5165557	448.2 0.1691057	448.2 0.1250663	448.2 0.2785814
896.6 0.5640747	448.3 0.1849406	448.3 0.1316265	448.3 0.3084193
896.8 0.5655033	448.4 0.2131209	448.4 0.1363983	448.4 0.2360521
897 0.648372	448.5 0.1917256	448.5 0.1351855	448.5 0.2440466
897.2 0.575062	448.6 0.174182	448.6 0.1413782	448.6 0.2655082

897.4 0.5655568	448.7 0.1729351	448.7 0.1442232	448.7 0.281655
897.6 0.6583604	448.8 0.1616901	448.8 0.1636803	448.8 0.3153014
897.8 0.5562866	448.9 0.1760049	448.9 0.1358862	448.9 0.3303247
898 0.5857689	449 0.1533704	449 0.1335011	449 0.3898058
898.2 0.5969144	449.1 0.1642127	449.1 0.1368639	449.1 0.3450645
898.4 0.5407323	449.2 0.1912203	449.2 0.1248121	449.2 0.3375321
898.6 0.5132077	449.3 0.1497269	449.3 0.1397251	449.3 0.4536491
898.8 0.545785	449.4 0.1643355	449.4 0.1294136	449.4 0.2806826
899 0.5342106	449.5 0.1986377	449.5 0.1325175	449.5 0.2770734
899.2 0.587473	449.6 0.1622567	449.6 0.1397237	449.6 0.2885393
899.4 0.5735541	449.7 0.1996985	449.7 0.1321683	449.7 0.3199434
899.6 0.549362	449.8 0.1752796	449.8 0.1294745	449.8 0.291637
899.8 0.5419294	449.9 0.1751291	449.9 0.1444488	449.9 0.254545
900 0.5393658	450 0.1496603	450 0.1650708	450 0.2737449
900.2 0.5785248	450.1 0.2122422	450.1 0.1460698	450.1 0.2574801
900.4 0.5634977	450.2 0.2052635	450.2 0.1474537	450.2 0.2284115
900.6 0.580082	450.3 0.219906	450.3 0.1440467	450.3 0.2462997
900.8 0.5905408	450.4 0.2105908	450.4 0.1357591	450.4 0.2598869
901 0.5677567	450.5 0.1681988	450.5 0.1482573	450.5 0.3261091
901.2 0.5750142	450.6 0.2040075	450.6 0.1569612	450.6 0.3549151
901.4 0.5376421	450.7 0.2399372	450.7 0.1366448	450.7 0.4211697
901.6 0.5375465	450.8 0.2067491	450.8 0.1333597	450.8 0.3019369
901.8 0.5210155	450.9 0.148122	450.9 0.1159198	450.9 0.3414792
902 0.5743372	451 0.1596217	451 0.1154	451 0.3625197
902.2 0.5005174	451.1 0.1796631	451.1 0.1167072	451.1 0.3527241
902.4 0.4775898	451.2 0.1873621	451.2 0.1389043	451.2 0.3838894
902.6 0.5283581	451.3 0.2208157	451.3 0.1438425	451.3 0.3796447
902.8 0.4822602	451.4 0.1594082	451.4 0.1272095	451.4 0.4080083
903 0.5525905	451.5 0.1682928	451.5 0.173163	451.5 0.4139281
903.2 0.5338954	451.6 0.1632694	451.6 0.1652374	451.6 0.3568195
903.4 0.5493488	451.7 0.1264458	451.7 0.1518977	451.7 0.3423638
903.6 0.5964814	451.8 0.1154465	451.8 0.1488591	451.8 0.362058
903.8 0.6167586	451.9 0.1146306	451.9 0.1798623	451.9 0.3330369
904 0.5597252	452 0.1192604	452 0.1488984	452 0.3036575
904.2 0.7614049	452.1 0.1494924	452.1 0.1338353	452.1 0.3616453
904.4 0.8162013	452.2 0.1342112	452.2 0.1486348	452.2 0.3739396
904.6 0.687606	452.3 0.0995971	452.3 0.1394728	452.3 0.2902033
904.8 0.7369032	452.4 0.1377397	452.4 0.1590545	452.4 0.3359413
905 0.7735977	452.5 0.1185166	452.5 0.1346875	452.5 0.2795008
905.2 0.8360664	452.6 0.1316753	452.6 0.173085	452.6 0.278836
905.4 0.888946	452.7 0.1106835	452.7 0.1490633	452.7 0.2885427
905.6 0.8700792	452.8 0.1115717	452.8 0.1592462	452.8 0.2833405
905.8 0.7789672	452.9 0.1226125	452.9 0.1953294	452.9 0.2665837
906 0.7624665	453 0.0972711	453 0.1430327	453 0.3221006
906.2 0.7141391	453.1 0.2379566	453.1 0.1457949	453.1 0.3454518
906.4 0.8267659	453.2 0.2467738	453.2 0.1659077	453.2 0.331873
906.6 0.7562512	453.3 0.2663676	453.3 0.1513799	453.3 0.3438723
906.8 0.888501	453.4 0.2173137	453.4 0.1581635	453.4 0.3310095
907 0.8672534	453.5 0.1114448	453.5 0.1521627	453.5 0.3040772
907.2 0.8127813	453.6 0.1028614	453.6 0.1428142	453.6 0.3158771
907.4 0.6895376	453.7 0.1032613	453.7 0.1471083	453.7 0.315823

907.6 0.7583286	453.8 0.1108195	453.8 0.1541613	453.8 0.3659319
907.8 0.8932218	453.9 0.1093033	453.9 0.1707454	453.9 0.3733807
908 0.7707333	454 0.1230592	454 0.1520275	454 0.3040068
908.2 0.6211295	454.1 0.0986659	454.1 0.150177	454.1 0.3580406
908.4 0.5536671	454.2 0.1331449	454.2 0.1489847	454.2 0.3690905
908.6 0.5773066	454.3 0.1026798	454.3 0.1459418	454.3 0.2729686
908.8 0.6471251	454.4 0.1099266	454.4 0.1567639	454.4 0.3684753
909 0.5509063	454.5 0.1382918	454.5 0.1634879	454.5 0.3546945
909.2 0.5362809	454.6 0.1013991	454.6 0.1552423	454.6 0.3445109
909.4 0.49343	454.7 0.098657	454.7 0.1046961	454.7 0.3183555
909.6 0.5338084	454.8 0.0821329	454.8 0.1221606	454.8 0.3400608
909.8 0.5611892	454.9 0.0896544	454.9 0.1429022	454.9 0.315924
910 0.5330393	455 0.1250314	455 0.1202887	455 0.3098594
910.2 0.6067622	455.1 0.1240116	455.1 0.1124552	455.1 0.3729115
910.4 0.6084111	455.2 0.1130699	455.2 0.1450007	455.2 0.2700817
910.6 0.6542454	455.3 0.1335366	455.3 0.1623272	455.3 0.2535655
910.8 0.6327883	455.4 0.1143441	455.4 0.1235362	455.4 0.2976326
911 0.5951946	455.5 0.0924376	455.5 0.1341561	455.5 0.3023486
911.2 0.5253289	455.6 0.1097583	455.6 0.1189549	455.6 0.2492236
911.4 0.6504598	455.7 0.0983725	455.7 0.1325473	455.7 0.3067317
911.6 0.5960304	455.8 0.1080021	455.8 0.1365251	455.8 0.3477466
911.8 0.5902992	455.9 0.1797581	455.9 0.1332549	455.9 0.3807398
912 0.586879	456 0.0816731	456 0.1341896	456 0.3492778
912.2 0.7173702	456.1 0.0913704	456.1 0.1265869	456.1 0.4904077
912.4 0.5923461	456.2 0.0831108	456.2 0.1263531	456.2 0.4336909
912.6 0.7166448	456.3 0.1011945	456.3 0.1195442	456.3 0.3776911
912.8 0.7290729	456.4 0.1125532	456.4 0.1223039	456.4 0.353875
913 0.737384	456.5 0.1104014	456.5 0.145414	456.5 0.3492776
913.2 0.6826716	456.6 0.1044409	456.6 0.1239563	456.6 0.3687261
913.4 0.8702419	456.7 0.0952142	456.7 0.1472523	456.7 0.4093898
913.6 0.8336461	456.8 0.1435297	456.8 0.1312527	456.8 0.3634253
913.8 0.9026423	456.9 0.1496791	456.9 0.1406327	456.9 0.3527409
914 0.8662434	457 0.1181483	457 0.1341538	457 0.3350912
914.2 0.9532986	457.1 0.1129444	457.1 0.13548	457.1 0.3652792
914.4 0.9861903	457.2 0.1072179	457.2 0.1453983	457.2 0.345642
914.6 1.0818174	457.3 0.1280127	457.3 0.1493311	457.3 0.3422508
914.8 0.973971	457.4 0.0890793	457.4 0.1378018	457.4 0.4103119
915 1.0922424	457.5 0.1624622	457.5 0.1569639	457.5 0.3873045
915.2 1.0246174	457.6 0.1438201	457.6 0.1542893	457.6 0.2908722
915.4 0.9474205	457.7 0.103168	457.7 0.1502838	457.7 0.2717746
915.6 0.9853158	457.8 0.1243584	457.8 0.1421596	457.8 0.2673435
915.8 0.9316976	457.9 0.121851	457.9 0.1584494	457.9 0.2475966
916 1.0084337	458 0.0832344	458 0.1217275	458 0.274922
916.2 0.9921352	458.1 0.0958327	458.1 0.1179397	458.1 0.2653072
916.4 1.0293598	458.2 0.0974475	458.2 0.1390648	458.2 0.2656917
916.6 0.9716139	458.3 0.134325	458.3 0.1230989	458.3 0.3313367
916.8 0.9575842	458.4 0.0876596	458.4 0.1338702	458.4 0.2948113
917 1.0640516	458.5 0.1043387	458.5 0.1401817	458.5 0.285637
917.2 1.0138824	458.6 0.1738984	458.6 0.1591538	458.6 0.2642748
917.4 0.9440735	458.7 0.151555	458.7 0.134312	458.7 0.284012
917.6 1.0204931	458.8 0.2140465	458.8 0.1243649	458.8 0.3154867

917.8 0.7765065	458.9 0.1351025	458.9 0.1325067	458.9 0.2849842
918 0.6533442	459 0.1695041	459 0.1159628	459 0.2858888
918.2 0.6937071	459.1 0.1326713	459.1 0.1429043	459.1 0.2655444
918.4 0.6574175	459.2 0.0949939	459.2 0.1312131	459.2 0.2840512
918.6 0.6550786	459.3 0.1266395	459.3 0.1400565	459.3 0.2847252
918.8 0.6961145	459.4 0.1124232	459.4 0.127984	459.4 0.269866
919 0.7076279	459.5 0.0939395	459.5 0.1332619	459.5 0.3140214
919.2 0.6923239	459.6 0.1103004	459.6 0.1360757	459.6 0.2584662
919.4 0.7012892	459.7 0.1002173	459.7 0.1488809	459.7 0.2347319
919.6 0.7230562	459.8 0.1097344	459.8 0.1448026	459.8 0.2913918
919.8 0.7803681	459.9 0.1103671	459.9 0.1487176	459.9 0.2839764
920 0.8257952	460 0.0953602	460 0.1286909	460 0.2901936
920.2 0.8136487	460.1 0.1098067	460.1 0.1601674	460.1 0.3188986
920.4 0.6287036	460.2 0.1110754	460.2 0.147116	460.2 0.4297978
920.6 0.5886379	460.3 0.1053452	460.3 0.1508607	460.3 0.4179518
920.8 0.6050854	460.4 0.1358344	460.4 0.1651255	460.4 0.3604183
921 0.6415585	460.5 0.1139876	460.5 0.1369249	460.5 0.3321109
921.2 0.6218361	460.6 0.0936896	460.6 0.1444153	460.6 0.4049388
921.4 0.6236322	460.7 0.1056154	460.7 0.1345084	460.7 0.30556
921.6 0.6058001	460.8 0.1058856	460.8 0.1323539	460.8 0.3154279
921.8 0.5770144	460.9 0.11606	460.9 0.1452785	460.9 0.3261971
922 0.6169959	461 0.1418266	461 0.1293138	461 0.3068403
922.2 0.6269635	461.1 0.0955124	461.1 0.1501087	461.1 0.317383
922.4 0.6280949	461.2 0.0959984	461.2 0.1407591	461.2 0.2917543
922.6 0.6437488	461.3 0.0953937	461.3 0.1343186	461.3 0.2465015
922.8 0.6340884	461.4 0.1004549	461.4 0.1228401	461.4 0.284036
923 0.6449618	461.5 0.1164339	461.5 0.1531153	461.5 0.3005884
923.2 0.7002497	461.6 0.0824288	461.6 0.144535	461.6 0.2579178
923.4 0.6451294	461.7 0.1063845	461.7 0.1224901	461.7 0.2544445
923.6 0.6454173	461.8 0.0879614	461.8 0.1543558	461.8 0.2532898
923.8 0.6282591	461.9 0.0949157	461.9 0.1442832	461.9 0.2799917
924 0.6644957	462 0.0900531	462 0.1545077	462 0.3041291
924.2 0.6762503	462.1 0.1003672	462.1 0.1479611	462.1 0.2988432
924.4 0.6565222	462.2 0.1606611	462.2 0.1523785	462.2 0.2756125
924.6 0.7126971	462.3 0.1383379	462.3 0.1613001	462.3 0.2901756
924.8 0.7141449	462.4 0.1334468	462.4 0.1395589	462.4 0.2758944
925 0.7102454	462.5 0.1334984	462.5 0.1643045	462.5 0.2782889
925.2 0.6903138	462.6 0.1440226	462.6 0.1267563	462.6 0.3060721
925.4 0.6593054	462.7 0.100293	462.7 0.1335923	462.7 0.2688346
925.6 0.6464376	462.8 0.1031933	462.8 0.153235	462.8 0.3221779
925.8 0.6969602	462.9 0.1454863	462.9 0.1519591	462.9 0.3199605
926 0.6582561	463 0.1102675	463 0.1652731	463 0.3945804
926.2 0.6502051	463.1 0.1616092	463.1 0.1497246	463.1 0.3934661
926.4 0.619011	463.2 0.1763954	463.2 0.1490439	463.2 0.4218127
926.6 0.6440359	463.3 0.1538537	463.3 0.1532491	463.3 0.4951792
926.8 0.6770036	463.4 0.1119164	463.4 0.1704799	463.4 0.4084955
927 0.7395089	463.5 0.1218571	463.5 0.1456314	463.5 0.4636742
927.2 0.856074	463.6 0.1719896	463.6 0.1550464	463.6 0.4836142
927.4 0.842661	463.7 0.1660989	463.7 0.1737724	463.7 0.4909642
927.6 0.9538156	463.8 0.2108171	463.8 0.1865792	463.8 0.46371
927.8 0.8680248	463.9 0.147289	463.9 0.1712433	463.9 0.4250059

928 0.843967	464 0.1794179	464 0.1686562	464 0.4715005
928.2 0.8031732	464.1 0.1132379	464.1 0.1574661	464.1 0.493882
928.4 0.7559888	464.2 0.1131182	464.2 0.1542589	464.2 0.4658914
928.6 0.5988635	464.3 0.1267075	464.3 0.1549759	464.3 0.4541577
928.8 0.5900082	464.4 0.1271841	464.4 0.159627	464.4 0.4360612
929 0.7085559	464.5 0.1098919	464.5 0.1482101	464.5 0.4861628
929.2 0.5589091	464.6 0.1048814	464.6 0.1569163	464.6 0.4367632
929.4 0.4880152	464.7 0.1521132	464.7 0.1724008	464.7 0.4799091
929.6 0.6069195	464.8 0.1156502	464.8 0.1542193	464.8 0.4437707
929.8 0.5992345	464.9 0.1332176	464.9 0.1509388	464.9 0.4849841
930 0.6767616	465 0.2034429	465 0.1538061	465 0.465127
930.2 0.7358764	465.1 0.1388515	465.1 0.1448294	465.1 0.4511598
930.4 0.8103796	465.2 0.1663623	465.2 0.1461851	465.2 0.4211536
930.6 0.8296349	465.3 0.1436802	465.3 0.162203	465.3 0.4235227
930.8 0.7955081	465.4 0.2098765	465.4 0.1621169	465.4 0.4722016
931 0.7933624	465.5 0.1579107	465.5 0.1628799	465.5 0.4025509
931.2 0.8349351	465.6 0.1963394	465.6 0.1504163	465.6 0.3583798
931.4 0.9243605	465.7 0.1239966	465.7 0.1583687	465.7 0.3887482
931.6 0.9085663	465.8 0.1339263	465.8 0.1510311	465.8 0.3847283
931.8 0.8537692	465.9 0.1170591	465.9 0.1423038	465.9 0.3970105
932 0.8530313	466 0.1149033	466 0.1417924	466 0.3335092
932.2 0.8205816	466.1 0.1386025	466.1 0.1360251	466.1 0.3569828
932.4 0.8062873	466.2 0.1471557	466.2 0.1415698	466.2 0.3662591
932.6 0.8255811	466.3 0.1394542	466.3 0.1358755	466.3 0.3775951
932.8 0.8574953	466.4 0.1261446	466.4 0.1325542	466.4 0.3558429
933 0.9685949	466.5 0.1173686	466.5 0.1613695	466.5 0.4181206
933.2 1.0367804	466.6 0.1095056	466.6 0.1575675	466.6 0.396968
933.4 1.0302321	466.7 0.2064361	466.7 0.1318871	466.7 0.4378452
933.6 0.953463	466.8 0.1384016	466.8 0.1443768	466.8 0.4611081
933.8 1.056458	466.9 0.1063291	466.9 0.1592096	466.9 0.4704013
934 1.0204253	467 0.1128513	467 0.153958	467 0.4454955
934.2 1.0828958	467.1 0.1043985	467.1 0.1431542	467.1 0.404137
934.4 0.9873783	467.2 0.1353378	467.2 0.1478951	467.2 0.4207509
934.6 0.9478809	467.3 0.1358345	467.3 0.1390566	467.3 0.4252138
934.8 0.9267766	467.4 0.1388262	467.4 0.1615547	467.4 0.4262192
935 0.9314416	467.5 0.1166372	467.5 0.1405175	467.5 0.3584299
935.2 1.0266935	467.6 0.0974516	467.6 0.1489017	467.6 0.405495
935.4 0.9515901	467.7 0.1140131	467.7 0.1439385	467.7 0.392151
935.6 1.0316576	467.8 0.1146569	467.8 0.1397932	467.8 0.4570785
935.8 0.9914474	467.9 0.1303862	467.9 0.1563928	467.9 0.3506964
936 0.8561099	468 0.1393263	468 0.1438023	468 0.3758784
936.2 0.9552254	468.1 0.0988432	468.1 0.1363271	468.1 0.3932044
936.4 0.9620681	468.2 0.1253051	468.2 0.1409872	468.2 0.3742357
936.6 1.0235506	468.3 0.1205869	468.3 0.1559006	468.3 0.4426385
936.8 1.0282565	468.4 0.1339414	468.4 0.1622314	468.4 0.4784904
937 0.8786984	468.5 0.0903764	468.5 0.182433	468.5 0.5001268
937.2 0.8562279	468.6 0.1117685	468.6 0.1864258	468.6 0.3964553
937.4 0.9585251	468.7 0.101591	468.7 0.1867007	468.7 0.3520041
937.6 0.8142343	468.8 0.1519502	468.8 0.1642773	468.8 0.3654905
937.8 0.9500948	468.9 0.1473932	468.9 0.1745479	468.9 0.3370544
938 0.9044691	469 0.1621132	469 0.1828479	469 0.3285124

938.2 1.0269673	469.1 0.1228588	469.1 0.1828982	469.1 0.3534146
938.4 0.9469944	469.2 0.1211528	469.2 0.1722114	469.2 0.3105609
938.6 0.9096106	469.3 0.1364988	469.3 0.1998733	469.3 0.3704754
938.8 0.850239	469.4 0.1427811	469.4 0.1555389	469.4 0.3115541
939 0.9058168	469.5 0.1125646	469.5 0.1592824	469.5 0.3706839
939.2 0.8439431	469.6 0.1275934	469.6 0.1617233	469.6 0.3672706
939.4 0.8052234	469.7 0.1431099	469.7 0.1540934	469.7 0.4853596
939.6 0.8028154	469.8 0.1193357	469.8 0.1645163	469.8 0.4138798
939.8 0.8824347	469.9 0.1240811	469.9 0.1449739	469.9 0.4003123
940 0.8865073	470 0.1031353	470 0.1735323	470 0.4767291
940.2 0.8375354	470.1 0.1716022	470.1 0.1709341	470.1 0.3704173
940.4 0.8371983	470.2 0.1052137	470.2 0.1529047	470.2 0.4095861
940.6 0.8591889	470.3 0.1550528	470.3 0.1720365	470.3 0.4692096
940.8 0.8080267	470.4 0.162914	470.4 0.1481584	470.4 0.4775548
941 0.8201953	470.5 0.1661446	470.5 0.1568141	470.5 0.4758662
941.2 0.8407798	470.6 0.1439879	470.6 0.1785128	470.6 0.4328804
941.4 0.8207899	470.7 0.1145471	470.7 0.1639712	470.7 0.3772973
941.6 0.8040891	470.8 0.1320958	470.8 0.1806883	470.8 0.3999599
941.8 0.813934	470.9 0.1148228	470.9 0.1512498	470.9 0.3519638
942 0.8403448	471 0.1337217	471 0.1434986	471 0.4711607
942.2 0.8105184	471.1 0.1454915	471.1 0.1273615	471.1 0.4884794
942.4 0.7998688	471.2 0.1460682	471.2 0.1558556	471.2 0.4964641
942.6 0.817897	471.3 0.1244352	471.3 0.1439963	471.3 0.5213065
942.8 0.8873719	471.4 0.1427994	471.4 0.1445901	471.4 0.5011388
943 0.8968545	471.5 0.1710564	471.5 0.1392437	471.5 0.403105
943.2 0.8403843	471.6 0.1280019	471.6 0.1515403	471.6 0.3718369
943.4 0.8504447	471.7 0.134603	471.7 0.1577648	471.7 0.3861544
943.6 0.87159	471.8 0.1514697	471.8 0.1579109	471.8 0.4080843
943.8 0.8940837	471.9 0.1162564	471.9 0.1440548	471.9 0.4271956
944 0.8487564	472 0.154718	472 0.1659547	472 0.4388898
944.2 0.9263082	472.1 0.1760943	472.1 0.1483264	472.1 0.4275837
944.4 0.875168	472.2 0.1489323	472.2 0.1503381	472.2 0.4295676
944.6 0.936698	472.3 0.1329341	472.3 0.149248	472.3 0.3971845
944.8 0.9381217	472.4 0.136402	472.4 0.1477431	472.4 0.3907764
945 0.8592825	472.5 0.1252494	472.5 0.1622263	472.5 0.3798184
945.2 0.898212	472.6 0.1388905	472.6 0.1558434	472.6 0.4167083
945.4 0.9455489	472.7 0.1570492	472.7 0.1212706	472.7 0.4378655
945.6 0.906203	472.8 0.1352053	472.8 0.144671	472.8 0.3933935
945.8 0.9356974	472.9 0.1061854	472.9 0.1599895	472.9 0.4370585
946 0.9300457	473 0.0885886	473 0.1573752	473 0.3939106
946.2 0.9782845	473.1 0.1276137	473.1 0.1659578	473.1 0.4441295
946.4 0.9052346	473.2 0.1014647	473.2 0.1559469	473.2 0.4645026
946.6 0.926558	473.3 0.1135664	473.3 0.1530516	473.3 0.3984907
946.8 0.9171686	473.4 0.132276	473.4 0.1240669	473.4 0.3673145
947 0.8792198	473.5 0.1375541	473.5 0.1379742	473.5 0.3770808
947.2 0.8894281	473.6 0.1207638	473.6 0.1233543	473.6 0.4293641
947.4 0.9132124	473.7 0.1157326	473.7 0.1240354	473.7 0.3937744
947.6 0.8894536	473.8 0.1075287	473.8 0.1186052	473.8 0.4413247
947.8 0.9134185	473.9 0.115573	473.9 0.1322496	473.9 0.3955598
948 0.9758266	474 0.1108966	474 0.1606625	474 0.4129299
948.2 0.9147037	474.1 0.1179695	474.1 0.1511783	474.1 0.4180814

948.4 0.9688427	474.2 0.1817976	474.2 0.1543324	474.2 0.3820993
948.6 0.9859558	474.3 0.1124031	474.3 0.1435941	474.3 0.3957336
948.8 1.0666696	474.4 0.1256948	474.4 0.1313907	474.4 0.3845926
949 1.0436584	474.5 0.1116172	474.5 0.1058132	474.5 0.4387424
949.2 1.0958177	474.6 0.1021947	474.6 0.1205342	474.6 0.474789
949.4 1.0550578	474.7 0.1004634	474.7 0.1265111	474.7 0.4581867
949.6 1.0348952	474.8 0.1407273	474.8 0.1212243	474.8 0.4384958
949.8 0.9918168	474.9 0.1612051	474.9 0.1081756	474.9 0.4384492
950 0.9079364	475 0.1526103	475 0.1117002	475 0.4275454
950.2 1.0321224	475.1 0.1272948	475.1 0.1094946	475.1 0.4050826
950.4 0.9855308	475.2 0.1252559	475.2 0.1314851	475.2 0.3961982
950.6 1.0445086	475.3 0.1130968	475.3 0.1390337	475.3 0.3853156
950.8 1.0880214	475.4 0.1134334	475.4 0.1182175	475.4 0.4294814
951 0.9866385	475.5 0.1133211	475.5 0.1300639	475.5 0.4298687
951.2 0.9038666	475.6 0.1483106	475.6 0.1307472	475.6 0.4063042
951.4 0.9413769	475.7 0.1224232	475.7 0.1513807	475.7 0.3901305
951.6 1.0129641	475.8 0.1201818	475.8 0.1215288	475.8 0.411627
951.8 0.9788961	475.9 0.118443	475.9 0.1114103	475.9 0.3927705
952 0.989449	476 0.121622	476 0.1539599	476 0.418092
952.2 0.9592609	476.1 0.1762576	476.1 0.1338806	476.1 0.4023857
952.4 1.0111289	476.2 0.1521558	476.2 0.1367714	476.2 0.434352
952.6 0.9782397	476.3 0.1262383	476.3 0.1148227	476.3 0.4104008
952.8 0.9696028	476.4 0.1211425	476.4 0.1332965	476.4 0.3980729
953 1.0157171	476.5 0.1023488	476.5 0.1073938	476.5 0.4476765
953.2 1.0043299	476.6 0.1300687	476.6 0.1399875	476.6 0.4543031
953.4 1.0171367	476.7 0.1375234	476.7 0.117472	476.7 0.4567762
953.6 0.9893407	476.8 0.132511	476.8 0.1434273	476.8 0.5161144
953.8 0.9745096	476.9 0.1455729	476.9 0.1550652	476.9 0.507163
954 1.0095271	477 0.1236562	477 0.1472404	477 0.4617209
954.2 0.9759488	477.1 0.1079435	477.1 0.1646572	477.1 0.4031737
954.4 0.9613562	477.2 0.1081699	477.2 0.152631	477.2 0.4349308
954.6 0.9961162	477.3 0.1154852	477.3 0.1552485	477.3 0.4361888
954.8 0.9773446	477.4 0.1143575	477.4 0.19008	477.4 0.4366521
955 1.0237238	477.5 0.1328321	477.5 0.160944	477.5 0.4522199
955.2 1.0977385	477.6 0.1403658	477.6 0.1727161	477.6 0.4538111
955.4 1.0521822	477.7 0.1359989	477.7 0.181448	477.7 0.4688458
955.6 1.0636488	477.8 0.1615003	477.8 0.1361146	477.8 0.4691713
955.8 1.0380211	477.9 0.1512224	477.9 0.1478367	477.9 0.4954652
956 0.9814156	478 0.1483995	478 0.149701	478 0.4464775
956.2 0.9202873	478.1 0.1377102	478.1 0.1568471	478.1 0.4704517
956.4 0.8834277	478.2 0.1737407	478.2 0.1687406	478.2 0.4745051
956.6 0.900593	478.3 0.1566582	478.3 0.131816	478.3 0.4501861
956.8 0.893032	478.4 0.1394791	478.4 0.1374773	478.4 0.3933904
957 0.940101	478.5 0.1485429	478.5 0.1672026	478.5 0.4077267
957.2 0.9324269	478.6 0.1279223	478.6 0.1712012	478.6 0.405432
957.4 0.9663595	478.7 0.1127469	478.7 0.1515781	478.7 0.4227486
957.6 0.8867482	478.8 0.1338485	478.8 0.1416971	478.8 0.3950912
957.8 0.9220843	478.9 0.1598299	478.9 0.1455645	478.9 0.4646315
958 0.924807	479 0.1442835	479 0.15479	479 0.4035324
958.2 0.9211347	479.1 0.1366289	479.1 0.1411471	479.1 0.4368462
958.4 0.9324759	479.2 0.1425375	479.2 0.1330003	479.2 0.4268063

958.6 0.9300665	479.3 0.1153854	479.3 0.1492671	479.3 0.4330713
958.8 0.9734943	479.4 0.1260197	479.4 0.1461123	479.4 0.4095474
959 0.9970873	479.5 0.1487444	479.5 0.1436593	479.5 0.416303
959.2 0.9557775	479.6 0.1026392	479.6 0.1595284	479.6 0.4142997
959.4 0.873362	479.7 0.1299244	479.7 0.1189732	479.7 0.3884863
959.6 0.8936002	479.8 0.1213523	479.8 0.1561292	479.8 0.424823
959.8 0.9614217	479.9 0.1023756	479.9 0.1553839	479.9 0.3995531
960 0.8949021	480 0.120248	480 0.1508895	480 0.4314671
960.2 0.9292317	480.1 0.1300194	480.1 0.1710068	480.1 0.4033912
960.4 0.8836689	480.2 0.1927997	480.2 0.17075	480.2 0.4043821
960.6 0.9718326	480.3 0.1699991	480.3 0.1529596	480.3 0.3987957
960.8 0.8849025	480.4 0.129181	480.4 0.1915788	480.4 0.3876195
961 0.9097686	480.5 0.13679	480.5 0.1695615	480.5 0.417547
961.2 0.8981032	480.6 0.1347222	480.6 0.1703445	480.6 0.3333633
961.4 0.8628477	480.7 0.1230986	480.7 0.1629061	480.7 0.3518739
961.6 0.869755	480.8 0.1337384	480.8 0.1780833	480.8 0.3393004
961.8 0.8317656	480.9 0.1085344	480.9 0.1550384	480.9 0.4345168
962 0.7954965	481 0.1196113	481 0.1477206	481 0.3954552
962.2 0.7884189	481.1 0.1131139	481.1 0.1658348	481.1 0.3633351
962.4 0.7707818	481.2 0.144876	481.2 0.1542166	481.2 0.3482209
962.6 0.7768004	481.3 0.1279078	481.3 0.1503322	481.3 0.3314487
962.8 0.7810383	481.4 0.1775459	481.4 0.1236743	481.4 0.359606
963 0.7825338	481.5 0.1267866	481.5 0.1347517	481.5 0.3871287
963.2 0.7665207	481.6 0.1343292	481.6 0.1621067	481.6 0.3802517
963.4 0.7889613	481.7 0.169662	481.7 0.1326993	481.7 0.3519093
963.6 0.8007833	481.8 0.1946461	481.8 0.1453279	481.8 0.347064
963.8 0.795851	481.9 0.1459772	481.9 0.1473612	481.9 0.4101098
964 0.7999685	482 0.1751517	482 0.1400915	482 0.3745959
964.2 0.8880512	482.1 0.1344147	482.1 0.1448147	482.1 0.357115
964.4 0.875571	482.2 0.1644813	482.2 0.1433584	482.2 0.3732613
964.6 0.8201138	482.3 0.1347534	482.3 0.1660538	482.3 0.3515849
964.8 0.8107773	482.4 0.174703	482.4 0.1650881	482.4 0.3685098
965 0.8000046	482.5 0.204315	482.5 0.1584358	482.5 0.3840303
965.2 0.8244177	482.6 0.1369503	482.6 0.1565156	482.6 0.3629134
965.4 0.8153419	482.7 0.1602879	482.7 0.1510091	482.7 0.3570661
965.6 0.837711	482.8 0.1174324	482.8 0.135366	482.8 0.4251432
965.8 0.7908124	482.9 0.1523491	482.9 0.1446025	482.9 0.4028569
966 0.8108711	483 0.1400105	483 0.1652607	483 0.4262639
966.2 0.812207	483.1 0.1499669	483.1 0.164	483.1 0.3567335
966.4 0.8151525	483.2 0.1272169	483.2 0.1746752	483.2 0.378611
966.6 0.8104849	483.3 0.1252484	483.3 0.1655031	483.3 0.3239579
966.8 0.8104045	483.4 0.1293216	483.4 0.1753993	483.4 0.3513201
967 0.8106468	483.5 0.1191217	483.5 0.169473	483.5 0.3201501
967.2 0.8261446	483.6 0.1352993	483.6 0.1847847	483.6 0.3441365
967.4 0.855958	483.7 0.1145557	483.7 0.1957701	483.7 0.336124
967.6 0.8496072	483.8 0.1505209	483.8 0.1499313	483.8 0.3450304
967.8 0.8642465	483.9 0.1242505	483.9 0.1719204	483.9 0.3047279
968 0.8156624	484 0.1199814	484 0.1570166	484 0.2996036
968.2 0.8244421	484.1 0.1242651	484.1 0.1700876	484.1 0.3134063
968.4 0.8011017	484.2 0.109629	484.2 0.1861708	484.2 0.3234881
968.6 0.8155704	484.3 0.1182333	484.3 0.158898	484.3 0.3194507

968.8 0.8164272	484.4 0.1245142	484.4 0.1876189	484.4 0.2822115
969 0.811224	484.5 0.124267	484.5 0.158696	484.5 0.3015138
969.2 0.8129795	484.6 0.1426296	484.6 0.161253	484.6 0.3055926
969.4 0.7825323	484.7 0.1101044	484.7 0.1717119	484.7 0.2951973
969.6 0.8258392	484.8 0.1652418	484.8 0.1719291	484.8 0.3104476
969.8 0.8633468	484.9 0.1227932	484.9 0.1708118	484.9 0.3154695
970 0.8924369	485 0.1451291	485 0.1904909	485 0.332598
970.2 0.7769359	485.1 0.149534	485.1 0.1665944	485.1 0.3092958
970.4 0.7504838	485.2 0.1432176	485.2 0.1473549	485.2 0.3162265
970.6 0.7470642	485.3 0.1608224	485.3 0.1588709	485.3 0.343234
970.8 0.8480006	485.4 0.1467629	485.4 0.1707906	485.4 0.3680144
971 0.8427263	485.5 0.1350733	485.5 0.1360566	485.5 0.3408322
971.2 0.7350301	485.6 0.11539	485.6 0.1678577	485.6 0.3944023
971.4 0.7188706	485.7 0.1923471	485.7 0.1848347	485.7 0.395473
971.6 0.9007189	485.8 0.1294447	485.8 0.152906	485.8 0.3533028
971.8 0.8181074	485.9 0.1860744	485.9 0.149746	485.9 0.3160991
972 0.9515929	486 0.1154211	486 0.1655012	486 0.3364873
972.2 0.926677	486.1 0.1652415	486.1 0.1717336	486.1 0.2721644
972.4 1.0112904	486.2 0.1224499	486.2 0.1843655	486.2 0.2630886
972.6 0.9318192	486.3 0.1270525	486.3 0.1452248	486.3 0.2897432
972.8 1.0487555	486.4 0.1109634	486.4 0.1378786	486.4 0.2622692
973 0.880996	486.5 0.1078	486.5 0.1622221	486.5 0.2831296
973.2 0.9504644	486.6 0.1075674	486.6 0.1616682	486.6 0.2690486
973.4 1.1609013	486.7 0.1115237	486.7 0.1700916	486.7 0.2761021
973.6 0.8229244	486.8 0.0967278	486.8 0.1628828	486.8 0.3300068
973.8 0.8196882	486.9 0.1232402	486.9 0.1529224	486.9 0.2869438
974 0.9444985	487 0.1068102	487 0.1556072	487 0.2963397
974.2 0.7407457	487.1 0.1177279	487.1 0.1571757	487.1 0.3002223
974.4 0.7194082	487.2 0.1118667	487.2 0.1580755	487.2 0.2981948
974.6 0.6583171	487.3 0.1142138	487.3 0.1467428	487.3 0.3120758
974.8 0.7868846	487.4 0.1198874	487.4 0.1797017	487.4 0.3028123
975 0.7252473	487.5 0.1227606	487.5 0.1535668	487.5 0.3062879
975.2 0.8400903	487.6 0.1261839	487.6 0.1684541	487.6 0.2623129
975.4 0.8792131	487.7 0.1628719	487.7 0.1835244	487.7 0.283337
975.6 0.8946605	487.8 0.1389948	487.8 0.150723	487.8 0.2961589
975.8 0.9730834	487.9 0.1384398	487.9 0.1698748	487.9 0.2665529
976 0.9221985	488 0.1495565	488 0.17464	488 0.3066182
976.2 0.8383422	488.1 0.129515	488.1 0.1686403	488.1 0.302799
976.4 0.8129432	488.2 0.1441953	488.2 0.166058	488.2 0.3180057
976.6 0.930065	488.3 0.108099	488.3 0.1402919	488.3 0.2779188
976.8 1.0674771	488.4 0.148922	488.4 0.1568556	488.4 0.2858421
977 1.0208756	488.5 0.1557401	488.5 0.1621661	488.5 0.2662205
977.2 0.8304384	488.6 0.1863965	488.6 0.1725433	488.6 0.2631087
977.4 0.8972746	488.7 0.202086	488.7 0.1630149	488.7 0.2393164
977.6 0.9069147	488.8 0.2558162	488.8 0.1556636	488.8 0.2642098
977.8 0.8522412	488.9 0.154025	488.9 0.1683618	488.9 0.2854384
978 0.8742684	489 0.1939815	489 0.1640069	489 0.2559351
978.2 0.8024033	489.1 0.1161501	489.1 0.1641616	489.1 0.351245
978.4 0.8958674	489.2 0.1298841	489.2 0.1499275	489.2 0.3593636
978.6 0.9280968	489.3 0.1256075	489.3 0.1645089	489.3 0.2497019
978.8 0.9527517	489.4 0.137627	489.4 0.1637418	489.4 0.238581

979 0.8066673	489.5 0.1673033	489.5 0.1467675	489.5 0.2219226
979.2 0.8162298	489.6 0.2028453	489.6 0.1584806	489.6 0.2211282
979.4 0.7048512	489.7 0.1876086	489.7 0.1588819	489.7 0.2393525
979.6 0.8055672	489.8 0.1878355	489.8 0.1379213	489.8 0.2942882
979.8 0.7036726	489.9 0.192127	489.9 0.1629654	489.9 0.3023826
980 0.5986112	490 0.2340134	490 0.1323545	490 0.380037
980.2 0.6312957	490.1 0.1586278	490.1 0.1511316	490.1 0.2771925
980.4 0.634127	490.2 0.1198599	490.2 0.1472631	490.2 0.2488454
980.6 0.5825662	490.3 0.102351	490.3 0.1492333	490.3 0.2843667
980.8 0.595079	490.4 0.1437295	490.4 0.1425531	490.4 0.2565435
981 0.7386273	490.5 0.1247091	490.5 0.1479925	490.5 0.2924192
981.2 0.6492766	490.6 0.1391686	490.6 0.1697968	490.6 0.3029537
981.4 0.6829981	490.7 0.1368911	490.7 0.1479222	490.7 0.2740924
981.6 0.6839152	490.8 0.1559998	490.8 0.1364267	490.8 0.2814583
981.8 0.786922	490.9 0.1369792	490.9 0.1561515	490.9 0.2441822
982 0.7340655	491 0.1283994	491 0.1384143	491 0.3350818
982.2 0.681562	491.1 0.1143801	491.1 0.1383794	491.1 0.2657533
982.4 0.842687	491.2 0.118939	491.2 0.1605544	491.2 0.3068757
982.6 0.7494278	491.3 0.117574	491.3 0.1412696	491.3 0.2588244
982.8 0.6793935	491.4 0.1193066	491.4 0.1382082	491.4 0.2762705
983 0.700865	491.5 0.151275	491.5 0.1495238	491.5 0.2566091
983.2 0.6901674	491.6 0.1524751	491.6 0.1724647	491.6 0.3737454
983.4 0.7033981	491.7 0.1021399	491.7 0.1701353	491.7 0.2713793
983.6 0.8513916	491.8 0.1370346	491.8 0.1555796	491.8 0.286608
983.8 0.7823051	491.9 0.146536	491.9 0.1361985	491.9 0.2571661
984 0.866491	492 0.1203396	492 0.139714	492 0.2830507
984.2 0.8517515	492.1 0.121055	492.1 0.1561146	492.1 0.2415645
984.4 0.8547592	492.2 0.1341544	492.2 0.1519993	492.2 0.253364
984.6 0.8801219	492.3 0.1337971	492.3 0.1584402	492.3 0.258474
984.8 0.8195213	492.4 0.1326487	492.4 0.1623913	492.4 0.2655616
985 0.9729156	492.5 0.1223477	492.5 0.1480246	492.5 0.2459915
985.2 0.9943246	492.6 0.1280644	492.6 0.1504604	492.6 0.2369312
985.4 1.0642945	492.7 0.1387833	492.7 0.1535278	492.7 0.2419119
985.6 1.0184834	492.8 0.1497321	492.8 0.1504469	492.8 0.3429245
985.8 1.0044781	492.9 0.1225656	492.9 0.153347	492.9 0.329221
986 0.9825657	493 0.1380317	493 0.1437685	493 0.3040569
986.2 1.0660493	493.1 0.1510805	493.1 0.1340407	493.1 0.2451459
986.4 1.0697181	493.2 0.1686542	493.2 0.1450278	493.2 0.2329805
986.6 0.9981324	493.3 0.1423634	493.3 0.1603847	493.3 0.2361075
986.8 1.0175558	493.4 0.1326385	493.4 0.1525255	493.4 0.278187
987 0.9871764	493.5 0.1336909	493.5 0.1606293	493.5 0.3186191
987.2 0.8550256	493.6 0.1471455	493.6 0.1564559	493.6 0.292738
987.4 0.9063737	493.7 0.1581342	493.7 0.1653942	493.7 0.2567755
987.6 0.8920659	493.8 0.1603784	493.8 0.1374434	493.8 0.2656696
987.8 0.7527909	493.9 0.1551722	493.9 0.1622292	493.9 0.2416428
988 0.8385043	494 0.1336471	494 0.1734081	494 0.2469331
988.2 0.7474509	494.1 0.1391533	494.1 0.1775941	494.1 0.2947396
988.4 0.7916145	494.2 0.1343794	494.2 0.1680046	494.2 0.2548108
988.6 0.7834861	494.3 0.1616832	494.3 0.2006494	494.3 0.2588066
988.8 0.816864	494.4 0.183342	494.4 0.1902951	494.4 0.2591806
989 0.7892954	494.5 0.1475113	494.5 0.1778175	494.5 0.287548

989.2	0.904062	494.6	0.2175206	494.6	0.169378	494.6	0.2642837
989.4	0.843178	494.7	0.2626831	494.7	0.1658261	494.7	0.3301958
989.6	0.9164081	494.8	0.2754923	494.8	0.1718056	494.8	0.3104915
989.8	0.92549	494.9	0.1177573	494.9	0.172364	494.9	0.3348422
990	0.9885195	495	0.1136486	495	0.1594402	495	0.3365913
990.2	0.9149898	495.1	0.122517	495.1	0.1408888	495.1	0.3001848
990.4	0.9496356	495.2	0.1776427	495.2	0.1622597	495.2	0.300015
990.6	0.9049976	495.3	0.1962525	495.3	0.1686789	495.3	0.2706581
990.8	0.8204951	495.4	0.214128	495.4	0.1639473	495.4	0.2650408
991	0.7869821	495.5	0.2339128	495.5	0.1697513	495.5	0.2804335
991.2	0.8487383	495.6	0.1618671	495.6	0.1514307	495.6	0.3030939
991.4	0.7911857	495.7	0.1868674	495.7	0.1502187	495.7	0.2986462
991.6	0.6885524	495.8	0.146077	495.8	0.1578951	495.8	0.3657817
991.8	0.7578554	495.9	0.108444	495.9	0.1572034	495.9	0.4588104
992	0.7129126	496	0.1241981	496	0.1570453	496	0.3665851
992.2	0.6879558	496.1	0.1293643	496.1	0.1486431	496.1	0.3610338
992.4	0.7434232	496.2	0.1347182	496.2	0.1542046	496.2	0.3729171
992.6	0.762656	496.3	0.1334256	496.3	0.1385648	496.3	0.3433713
992.8	0.7563083	496.4	0.1545867	496.4	0.1612845	496.4	0.2948615
993	0.7048643	496.5	0.1907773	496.5	0.1574688	496.5	0.313494
993.2	0.7465409	496.6	0.1486092	496.6	0.1488224	496.6	0.3560476
993.4	0.8255766	496.7	0.154904	496.7	0.1348464	496.7	0.280314
993.6	0.7330866	496.8	0.1251074	496.8	0.1681061	496.8	0.2984743
993.8	0.8524194	496.9	0.1557511	496.9	0.144451	496.9	0.265375
994	0.8251547	497	0.1108434	497	0.1374526	497	0.2960875
994.2	0.788502	497.1	0.1291387	497.1	0.1526038	497.1	0.2636156
994.4	0.7690455	497.2	0.1426377	497.2	0.1579852	497.2	0.295049
994.6	0.7546106	497.3	0.1372423	497.3	0.1538744	497.3	0.2939025
994.8	0.8250129	497.4	0.1511375	497.4	0.163893	497.4	0.3124312
995	0.8658251	497.5	0.2072318	497.5	0.1603892	497.5	0.2400105
995.2	0.8923125	497.6	0.1318234	497.6	0.157399	497.6	0.2813975
995.4	0.9137186	497.7	0.1792178	497.7	0.1623656	497.7	0.3537447
995.6	0.9402607	497.8	0.1293615	497.8	0.1641755	497.8	0.3246557
995.8	0.9114096	497.9	0.1765429	497.9	0.1730808	497.9	0.2779018
996	1.0865877	498	0.1501478	498	0.1635489	498	0.2903827
996.2	1.0579323	498.1	0.1312281	498.1	0.171094	498.1	0.2859628
996.4	1.0207851	498.2	0.1006063	498.2	0.1525791	498.2	0.3326835
996.6	0.9940749	498.3	0.1133061	498.3	0.1553303	498.3	0.2883832
996.8	0.9727238	498.4	0.1162451	498.4	0.172171	498.4	0.2657537
997	0.8490872	498.5	0.1243026	498.5	0.1508154	498.5	0.3397704
997.2	0.8117122	498.6	0.1428492	498.6	0.1632221	498.6	0.3108621
997.4	0.913449	498.7	0.1535707	498.7	0.1606562	498.7	0.3299375
997.6	0.977929	498.8	0.181302	498.8	0.160106	498.8	0.3123393
997.8	1.0524986	498.9	0.1353041	498.9	0.1541521	498.9	0.3234473
998	0.9969502	499	0.127293	499	0.1635709	499	0.3340394
998.2	0.8203008	499.1	0.1180221	499.1	0.1640532	499.1	0.3146388
998.4	0.8450805	499.2	0.1391422	499.2	0.1628569	499.2	0.3759136
998.6	0.8964224	499.3	0.1699721	499.3	0.1699642	499.3	0.2891258
998.8	0.9093407	499.4	0.2155523	499.4	0.1712201	499.4	0.3687204
999	0.8830495	499.5	0.1951412	499.5	0.1584834	499.5	0.4465237
999.2	0.99498	499.6	0.1366947	499.6	0.153969	499.6	0.4227271

999.4 0.8616976	499.7 0.1735218	499.7 0.1575387	499.7 0.3514906
999.6 0.8630334	499.8 0.1223263	499.8 0.1868449	499.8 0.4006822
999.8 0.8987811	499.9 0.1671513	499.9 0.1684979	499.9 0.3054504
1000 0.8035325	500 0.1522931	500 0.1698309	500 0.344984
	500.1 0.1918711	500.1 0.1579674	500.1 0.3910235
	500.2 0.1590101	500.2 0.173328	500.2 0.426903
	500.3 0.1409595	500.3 0.1603241	500.3 0.4422767
	500.4 0.1283823	500.4 0.1625925	500.4 0.4954109
	500.5 0.1484574	500.5 0.1330898	500.5 0.4955122
	500.6 0.1962514	500.6 0.1513714	500.6 0.5098971
	500.7 0.1569503	500.7 0.1686169	500.7 0.4140674
	500.8 0.1722541	500.8 0.1518833	500.8 0.4623835
	500.9 0.1779229	500.9 0.1752018	500.9 0.4427674
	501 0.1894516	501 0.1648238	501 0.3837648
	501.1 0.1439444	501.1 0.1655117	501.1 0.5120526
	501.2 0.1659773	501.2 0.1745519	501.2 0.460902
	501.3 0.1587136	501.3 0.1664742	501.3 0.3967702
	501.4 0.2113795	501.4 0.1575002	501.4 0.4760124
	501.5 0.2002267	501.5 0.1540113	501.5 0.3792443
	501.6 0.1644441	501.6 0.1541343	501.6 0.3464001
	501.7 0.1652167	501.7 0.1568232	501.7 0.4058835
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	501.9 0.1347591	501.9 0.1540637	501.9 0.3346711
	502 0.1347111	502 0.152792	502 0.3431201
	502.1 0.1241188	502.1 0.1559902	502.1 0.3156465
	502.2 0.1427738	502.2 0.143397	502.2 0.3850649
	502.3 0.1206867	502.3 0.1538827	502.3 0.3864579
	502.4 0.1441191	502.4 0.1877737	502.4 0.3483119
	502.5 0.1168117	502.5 0.1852527	502.5 0.371334
	502.6 0.1499379	502.6 0.17538	502.6 0.299291
	502.7 0.1359651	502.7 0.1396913	502.7 0.2360638
	502.8 0.1360995	502.8 0.1473489	502.8 0.3056279
	502.9 0.1243123	502.9 0.1794281	502.9 0.2866421
	503 0.1782425	503 0.1278077	503 0.2851162
	503.1 0.2271078	503.1 0.1497657	503.1 0.2519934
	503.2 0.1996223	503.2 0.1600059	503.2 0.2687546
	503.3 0.1851083	503.3 0.1514017	503.3 0.3115531
	503.4 0.2306975	503.4 0.1746406	503.4 0.2567636
	503.5 0.2217469	503.5 0.149351	503.5 0.2384812
	503.6 0.2058303	503.6 0.1562708	503.6 0.3137846
	503.7 0.1557112	503.7 0.1618187	503.7 0.3197015
	503.8 0.1308724	503.8 0.150279	503.8 0.2951415
	503.9 0.1677116	503.9 0.140446	503.9 0.339885
	504 0.1295061	504 0.1429384	504 0.3077766
	504.1 0.1700813	504.1 0.1576856	504.1 0.4261789
	504.2 0.1417874	504.2 0.1653154	504.2 0.4596408
	504.3 0.1678397	504.3 0.1540042	504.3 0.4589359
	504.4 0.1546514	504.4 0.1596252	504.4 0.3611978
	504.5 0.1172199	504.5 0.1548953	504.5 0.3545026
	504.6 0.1139331	504.6 0.1606473	504.6 0.3318505
	504.7 0.1372081	504.7 0.1545134	504.7 0.3456577

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505	0.116743	505	0.1491017	505	0.4349523
505.1	0.1348627	505.1	0.1522885	505.1	0.4048299
505.2	0.1519191	505.2	0.1581596	505.2	0.516335
505.3	0.118454	505.3	0.1631835	505.3	0.3969105
505.4	0.1226026	505.4	0.139875	505.4	0.3902635
505.5	0.1177466	505.5	0.1611675	505.5	0.3536232
505.6	0.1516601	505.6	0.1749015	505.6	0.2985259
505.7	0.1420869	505.7	0.1582537	505.7	0.2753093
505.8	0.1343232	505.8	0.1663502	505.8	0.3369117
505.9	0.1431305	505.9	0.1549438	505.9	0.3669425
506	0.1451852	506	0.1834254	506	0.3523292
506.1	0.1046927	506.1	0.1686073	506.1	0.3387546
506.2	0.1442545	506.2	0.1468313	506.2	0.2739727
506.3	0.122044	506.3	0.1241489	506.3	0.2874675
506.4	0.1123825	506.4	0.1416013	506.4	0.2428059
506.5	0.1311446	506.5	0.1309582	506.5	0.2478362
506.6	0.1298062	506.6	0.1441201	506.6	0.2205575
506.7	0.1709018	506.7	0.1218937	506.7	0.2259963
506.8	0.1397068	506.8	0.1465608	506.8	0.2892132
506.9	0.1613087	506.9	0.1375397	506.9	0.2472766
507	0.1340183	507	0.1282173	507	0.2630139
507.1	0.145405	507.1	0.1287774	507.1	0.2626807
507.2	0.1245893	507.2	0.1656778	507.2	0.3534672
507.3	0.1400113	507.3	0.1835391	507.3	0.292935
507.4	0.1593407	507.4	0.1636435	507.4	0.2041496
507.5	0.1440841	507.5	0.1406193	507.5	0.2635915
507.6	0.1207114	507.6	0.147434	507.6	0.2512324
507.7	0.1164544	507.7	0.1513875	507.7	0.294135
507.8	0.1300557	507.8	0.1523996	507.8	0.3529207
507.9	0.1614573	507.9	0.1382055	507.9	0.3351049
508	0.2074194	508	0.1397009	508	0.3222234
508.1	0.1906733	508.1	0.1464068	508.1	0.3031304
508.2	0.2164805	508.2	0.1651441	508.2	0.2771421
508.3	0.1589046	508.3	0.1494543	508.3	0.3338371
508.4	0.1182737	508.4	0.1690828	508.4	0.4065394
508.5	0.125203	508.5	0.1641951	508.5	0.4040554
508.6	0.1191436	508.6	0.170913	508.6	0.3461167
508.7	0.1531799	508.7	0.1384262	508.7	0.3192845
508.8	0.1461022	508.8	0.1449188	508.8	0.3039736
508.9	0.1883709	508.9	0.1535463	508.9	0.2585529
509	0.1332259	509	0.1362966	509	0.4061053
509.1	0.1230754	509.1	0.1366177	509.1	0.4459264
509.2	0.1190381	509.2	0.1486877	509.2	0.3504665
509.3	0.1133187	509.3	0.1483122	509.3	0.35322
509.4	0.1077592	509.4	0.1390769	509.4	0.3981658
509.5	0.1132999	509.5	0.1473405	509.5	0.3768314
509.6	0.1462	509.6	0.1341034	509.6	0.3181878
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512.2 0.2037755	512.2 0.1487604	512.2 0.2325234
512.3 0.1186146	512.3 0.1499281	512.3 0.3065714
512.4 0.228271	512.4 0.1537038	512.4 0.2395287
512.5 0.1426663	512.5 0.150333	512.5 0.2332229
512.6 0.1232687	512.6 0.17637	512.6 0.2346564
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512.9 0.1815526	512.9 0.1461299	512.9 0.2452769
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513.2 0.3117588	513.2 0.1710738	513.2 0.3101368
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513.4 0.2316135	513.4 0.1566403	513.4 0.2637559
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514 0.1528558	514 0.1368417	514 0.2895532
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515 0.1100794	515 0.1754811	515 0.2300052
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515.2 0.1039852	515.2 0.1706481	515.2 0.2662907
515.3 0.111211	515.3 0.1744547	515.3 0.2587502
515.4 0.1094571	515.4 0.1723259	515.4 0.2372043
515.5 0.107342	515.5 0.16546	515.5 0.2491031
515.6 0.1026834	515.6 0.1647606	515.6 0.2600396
515.7 0.1290344	515.7 0.1543201	515.7 0.2312929
515.8 0.0918037	515.8 0.1763411	515.8 0.2619654
515.9 0.1209811	515.9 0.164752	515.9 0.2881297
516 0.1138132	516 0.1903799	516 0.2563547
516.1 0.1321807	516.1 0.164823	516.1 0.3695119
516.2 0.1224332	516.2 0.1584212	516.2 0.2884438
516.3 0.1019479	516.3 0.1708183	516.3 0.2413068
516.4 0.1974605	516.4 0.184452	516.4 0.2921036
516.5 0.1558711	516.5 0.1709126	516.5 0.3366027
516.6 0.1415989	516.6 0.1593953	516.6 0.4106711
516.7 0.1128096	516.7 0.1529343	516.7 0.3953429
516.8 0.1584215	516.8 0.1381826	516.8 0.4005053
516.9 0.2021743	516.9 0.128327	516.9 0.3897476
517 0.2081826	517 0.1332625	517 0.3162637
517.1 0.171329	517.1 0.1326652	517.1 0.3262768
517.2 0.1239093	517.2 0.1490761	517.2 0.3255769
517.3 0.1319118	517.3 0.1532651	517.3 0.2820936
517.4 0.1879336	517.4 0.148536	517.4 0.3359312
517.5 0.1572572	517.5 0.1490163	517.5 0.2867728
517.6 0.2452239	517.6 0.1621072	517.6 0.3727844
517.7 0.3484767	517.7 0.1434207	517.7 0.4229564
517.8 0.2632225	517.8 0.1565676	517.8 0.3909447
517.9 0.205885	517.9 0.1534596	517.9 0.2946528
518 0.1974593	518 0.1464188	518 0.3530652
518.1 0.1803785	518.1 0.1397418	518.1 0.405163
518.2 0.1554443	518.2 0.1255747	518.2 0.4117629
518.3 0.2157345	518.3 0.1665768	518.3 0.3562712
518.4 0.1324428	518.4 0.1709477	518.4 0.3664646
518.5 0.1193119	518.5 0.1557817	518.5 0.2669755
518.6 0.1137648	518.6 0.1497726	518.6 0.2338271
518.7 0.1179073	518.7 0.1721154	518.7 0.286613
518.8 0.1669048	518.8 0.1676979	518.8 0.2446299
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519 0.1552831	519 0.1729422	519 0.2534611
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519.2 0.1207809	519.2 0.1462097	519.2 0.2992206
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519.5 0.1425891	519.5 0.1775303	519.5 0.2720519
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519.7 0.209226	519.7 0.1506059	519.7 0.2966895
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520.2 0.1366998	520.2 0.1672789	520.2 0.2282352
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520.5 0.259323	520.5 0.1983751	520.5 0.3888499
520.6 0.1916301	520.6 0.1911367	520.6 0.2435981
520.7 0.1277651	520.7 0.1736303	520.7 0.2438841
520.8 0.1349813	520.8 0.1637326	520.8 0.2576384
520.9 0.1403464	520.9 0.1694714	520.9 0.2362478
521 0.1964065	521 0.1566242	521 0.2334477
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521.2 0.1145748	521.2 0.1772851	521.2 0.2739788
521.3 0.1165217	521.3 0.1740975	521.3 0.2432585
521.4 0.253243	521.4 0.159447	521.4 0.2334432
521.5 0.2221334	521.5 0.1716822	521.5 0.2972523
521.6 0.2881102	521.6 0.1519524	521.6 0.2221622
521.7 0.2366918	521.7 0.1624698	521.7 0.2246954
521.8 0.1682103	521.8 0.1521811	521.8 0.2295025
521.9 0.1443898	521.9 0.1662762	521.9 0.2388391
522 0.1174887	522 0.1320405	522 0.2507575
522.1 0.1333445	522.1 0.1553642	522.1 0.2903139
522.2 0.1153219	522.2 0.1513438	522.2 0.3261386
522.3 0.1515844	522.3 0.1478352	522.3 0.3395801
522.4 0.1219896	522.4 0.1324456	522.4 0.336621
522.5 0.1184129	522.5 0.1350013	522.5 0.3085252
522.6 0.1343046	522.6 0.1245628	522.6 0.3928171
522.7 0.1055648	522.7 0.1370769	522.7 0.3925493
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524.5 0.1268482	524.5 0.1447029	524.5 0.3116942
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524.8 0.1343417	524.8 0.1679272	524.8 0.287808
524.9 0.1208528	524.9 0.1592082	524.9 0.2797744
525 0.1106849	525 0.1430932	525 0.296526
525.1 0.1592484	525.1 0.1653854	525.1 0.287212

525.2	0.1277573	525.2	0.162747	525.2	0.2747419
525.3	0.1222695	525.3	0.1582852	525.3	0.2816364
525.4	0.1007211	525.4	0.1329153	525.4	0.3262082
525.5	0.1491824	525.5	0.1563272	525.5	0.3446251
525.6	0.107501	525.6	0.1483098	525.6	0.3607545
525.7	0.1173842	525.7	0.1423245	525.7	0.318486
525.8	0.1460417	525.8	0.162716	525.8	0.3193817
525.9	0.1984691	525.9	0.1684452	525.9	0.2322306
526	0.2062789	526	0.1660546	526	0.3923422
526.1	0.1610012	526.1	0.1628491	526.1	0.4252084
526.2	0.1379632	526.2	0.1722555	526.2	0.3246902
526.3	0.1877456	526.3	0.1615236	526.3	0.2623485
526.4	0.2458886	526.4	0.1757582	526.4	0.2996347
526.5	0.1487117	526.5	0.1882416	526.5	0.2864693
526.6	0.1548549	526.6	0.1896456	526.6	0.3404971
526.7	0.155112	526.7	0.1458163	526.7	0.3007367
526.8	0.1639092	526.8	0.1742892	526.8	0.3047643
526.9	0.1714175	526.9	0.1692964	526.9	0.3008812
527	0.1419191	527	0.1524954	527	0.3126221
527.1	0.1252403	527.1	0.1648508	527.1	0.3010602
527.2	0.122941	527.2	0.1643385	527.2	0.3357522
527.3	0.1401515	527.3	0.1633417	527.3	0.2847321
527.4	0.163135	527.4	0.1565132	527.4	0.3960054
527.5	0.1315642	527.5	0.1604672	527.5	0.3545896
527.6	0.1598757	527.6	0.1595866	527.6	0.2827809
527.7	0.1695108	527.7	0.1465733	527.7	0.2724347
527.8	0.150791	527.8	0.1619154	527.8	0.2981091
527.9	0.1709405	527.9	0.1673514	527.9	0.2915238
528	0.1280302	528	0.1711906	528	0.2796133
528.1	0.1390444	528.1	0.1692213	528.1	0.2894941
528.2	0.1175909	528.2	0.1800331	528.2	0.3055978
528.3	0.1815145	528.3	0.154352	528.3	0.3023336
528.4	0.1632518	528.4	0.1689798	528.4	0.2708202
528.5	0.1376248	528.5	0.168075	528.5	0.2775745
528.6	0.1230557	528.6	0.1527802	528.6	0.264313
528.7	0.1313284	528.7	0.1694579	528.7	0.2916318
528.8	0.1584567	528.8	0.1546881	528.8	0.2646073
528.9	0.1324	528.9	0.1557309	528.9	0.272721
529	0.1166048	529	0.1706302	529	0.2955165
529.1	0.1692399	529.1	0.151308	529.1	0.3195536
529.2	0.1547527	529.2	0.1693216	529.2	0.2993332
529.3	0.1659925	529.3	0.1707858	529.3	0.2724028
529.4	0.1398885	529.4	0.1439666	529.4	0.2984119
529.5	0.1601705	529.5	0.1482977	529.5	0.2892027
529.6	0.1909783	529.6	0.1554687	529.6	0.2573119
529.7	0.1710521	529.7	0.1773392	529.7	0.246762
529.8	0.2363157	529.8	0.1513467	529.8	0.2785571
529.9	0.2352112	529.9	0.1613844	529.9	0.3300022
530	0.2992927	530	0.1485401	530	0.2655034
530.1	0.1532573	530.1	0.1605953	530.1	0.2683969
530.2	0.246382	530.2	0.1759397	530.2	0.2578493

530.3	0.224205	530.3	0.1622971	530.3	0.2635883
530.4	0.2384311	530.4	0.1887413	530.4	0.25595
530.5	0.2402321	530.5	0.1856016	530.5	0.2497021
530.6	0.1668362	530.6	0.1482786	530.6	0.2923992
530.7	0.246578	530.7	0.1922912	530.7	0.2928351
530.8	0.2663771	530.8	0.1626151	530.8	0.2604165
530.9	0.2325483	530.9	0.1773537	530.9	0.2448489
531	0.2346531	531	0.14993	531	0.283057
531.1	0.1825535	531.1	0.1558535	531.1	0.266038
531.2	0.246416	531.2	0.1420294	531.2	0.2572216
531.3	0.3356843	531.3	0.1762894	531.3	0.2638664
531.4	0.352952	531.4	0.1573168	531.4	0.2630454
531.5	0.2472907	531.5	0.1554764	531.5	0.2833004
531.6	0.1415394	531.6	0.1622238	531.6	0.3449467
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531.8	0.285585	531.8	0.1428683	531.8	0.2727013
531.9	0.1723699	531.9	0.1684834	531.9	0.2673176
532	0.11945	532	0.1489985	532	0.3012753
532.1	0.1557049	532.1	0.1641191	532.1	0.282484
532.2	0.1230092	532.2	0.1362493	532.2	0.3057147
532.3	0.1465712	532.3	0.1623911	532.3	0.2635283
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532.5	0.1661321	532.5	0.1580121	532.5	0.2803342
532.6	0.2506815	532.6	0.1764092	532.6	0.279069
532.7	0.1584897	532.7	0.1947147	532.7	0.2550323
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533	0.1461296	533	0.1734196	533	0.4015909
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533.2	0.1407807	533.2	0.1466279	533.2	0.2587962
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533.8	0.1451399	533.8	0.1544707	533.8	0.2970242
533.9	0.1461231	533.9	0.1588193	533.9	0.2863539
534	0.149839	534	0.1764785	534	0.3163299
534.1	0.2314711	534.1	0.1636015	534.1	0.3982843
534.2	0.1641226	534.2	0.188549	534.2	0.3336402
534.3	0.1981573	534.3	0.1622379	534.3	0.3200516
534.4	0.2172647	534.4	0.1934888	534.4	0.3411683
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535	0.1344617	535	0.1376296	535	0.2978955
535.1	0.1701147	535.1	0.162476	535.1	0.3229488
535.2	0.1599758	535.2	0.1737239	535.2	0.3592587
535.3	0.1891491	535.3	0.1758882	535.3	0.325197

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535.5 0.1466747	535.5 0.1851796	535.5 0.2826953
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535.7 0.1609045	535.7 0.1813859	535.7 0.3115165
535.8 0.1477918	535.8 0.1760371	535.8 0.3278249
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536 0.1583422	536 0.1661886	536 0.3285613
536.1 0.0993403	536.1 0.1539157	536.1 0.2909995
536.2 0.1210179	536.2 0.1729396	536.2 0.2697544
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538 0.1450261	538 0.1823068	538 0.3133149
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538.2 0.1712907	538.2 0.1402135	538.2 0.2910664
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539 0.1552579	539 0.1320062	539 0.2979177
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539.5 0.1739814	539.5 0.1607273	539.5 0.3362464
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541 0.1317995	541 0.1294148	541 0.2842231
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542 0.1170209	542 0.1557717	542 0.2764651
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543 0.1417421	543 0.1481411	543 0.2879277
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543.2 0.1726282	543.2 0.149945	543.2 0.2950465
543.3 0.1854625	543.3 0.1585364	543.3 0.2901676
543.4 0.1358832	543.4 0.1610049	543.4 0.2804265
543.5 0.1615797	543.5 0.1366124	543.5 0.3141751
543.6 0.1344296	543.6 0.1549119	543.6 0.2683318
543.7 0.1504891	543.7 0.1729973	543.7 0.2538884
543.8 0.2171404	543.8 0.124867	543.8 0.2863107
543.9 0.1238854	543.9 0.1161361	543.9 0.3323469
544 0.1590756	544 0.1155884	544 0.3223194
544.1 0.1304479	544.1 0.1250384	544.1 0.3066029
544.2 0.1439836	544.2 0.119897	544.2 0.3025061
544.3 0.1228187	544.3 0.1296246	544.3 0.2894729
544.4 0.1402078	544.4 0.1447334	544.4 0.4250685
544.5 0.1251669	544.5 0.1135961	544.5 0.3080058
544.6 0.1188616	544.6 0.1436224	544.6 0.303351
544.7 0.1543101	544.7 0.1335244	544.7 0.3063297
544.8 0.1387715	544.8 0.1516152	544.8 0.3333313
544.9 0.1509843	544.9 0.1489669	544.9 0.2804861
545 0.1452101	545 0.1114196	545 0.2853886
545.1 0.1599014	545.1 0.1230167	545.1 0.2808355
545.2 0.1237853	545.2 0.1284663	545.2 0.305917
545.3 0.1195412	545.3 0.1361645	545.3 0.2875771
545.4 0.1383082	545.4 0.1314184	545.4 0.3307021
545.5 0.1346781	545.5 0.1629158	545.5 0.3166113

545.6	0.1118497	545.6	0.1393104	545.6	0.3357614
545.7	0.1392068	545.7	0.1553003	545.7	0.3937141
545.8	0.165027	545.8	0.1257408	545.8	0.3843979
545.9	0.1504331	545.9	0.1431387	545.9	0.3330846
546	0.1368558	546	0.1552379	546	0.4415022
546.1	0.1452334	546.1	0.1452221	546.1	0.3589683
546.2	0.1490646	546.2	0.1414225	546.2	0.4007908
546.3	0.1733241	546.3	0.1516879	546.3	0.3576849
546.4	0.156624	546.4	0.1627251	546.4	0.3062822
546.5	0.1286774	546.5	0.1465596	546.5	0.3085856
546.6	0.1355392	546.6	0.2081624	546.6	0.34298
546.7	0.1440598	546.7	0.1661566	546.7	0.3134443
546.8	0.1206293	546.8	0.1714139	546.8	0.335076
546.9	0.1297019	546.9	0.1689333	546.9	0.3385063
547	0.1808146	547	0.1366203	547	0.3169297
547.1	0.2222785	547.1	0.1294258	547.1	0.314366
547.2	0.1989406	547.2	0.1615233	547.2	0.3006954
547.3	0.2237819	547.3	0.1528926	547.3	0.3161956
547.4	0.1473298	547.4	0.1280969	547.4	0.297076
547.5	0.1567391	547.5	0.1537962	547.5	0.306307
547.6	0.1343565	547.6	0.1352516	547.6	0.3090455
547.7	0.1327473	547.7	0.1600932	547.7	0.3302926
547.8	0.1623291	547.8	0.1459813	547.8	0.3350834
547.9	0.1429697	547.9	0.1521846	547.9	0.3145023
548	0.1458421	548	0.1681333	548	0.2715904
548.1	0.1617491	548.1	0.1681188	548.1	0.3186734
548.2	0.1371186	548.2	0.1549845	548.2	0.2712674
548.3	0.1295279	548.3	0.1821203	548.3	0.2950383
548.4	0.1019393	548.4	0.1740786	548.4	0.3250777
548.5	0.1523436	548.5	0.1771833	548.5	0.3002322
548.6	0.1665383	548.6	0.1994434	548.6	0.3270726
548.7	0.1169309	548.7	0.1868812	548.7	0.3032148
548.8	0.1298262	548.8	0.1683367	548.8	0.2975962
548.9	0.1744712	548.9	0.1581093	548.9	0.3090976
549	0.1615461	549	0.1815721	549	0.2967646
549.1	0.133613	549.1	0.1561721	549.1	0.3139874
549.2	0.1013349	549.2	0.1716078	549.2	0.3459224
549.3	0.1174136	549.3	0.1693803	549.3	0.3330028
549.4	0.117043	549.4	0.1866589	549.4	0.3397429
549.5	0.1368873	549.5	0.1905332	549.5	0.3182307
549.6	0.1153105	549.6	0.1653738	549.6	0.2931288
549.7	0.1177385	549.7	0.1708359	549.7	0.3154799
549.8	0.1745656	549.8	0.1729532	549.8	0.4213855
549.9	0.1468417	549.9	0.1755985	549.9	0.3908674
550	0.1115235	550	0.1667838	550	0.3785456
550.1	0.1453794	550.1	0.1720597	550.1	0.3445734
550.2	0.1486483	550.2	0.1615365	550.2	0.3962843
550.3	0.1738946	550.3	0.1838823	550.3	0.2979269
550.4	0.1376587	550.4	0.1693926	550.4	0.2749835
550.5	0.1575756	550.5	0.1514736	550.5	0.2692268
550.6	0.1647819	550.6	0.1635307	550.6	0.2620169

550.7	0.163908	550.7	0.1537676	550.7	0.2641605
550.8	0.1300154	550.8	0.1974092	550.8	0.2788058
550.9	0.1557448	550.9	0.1696712	550.9	0.2892397
551	0.1456602	551	0.1842846	551	0.2766382
551.1	0.1275739	551.1	0.1517149	551.1	0.2612595
551.2	0.1131735	551.2	0.1496496	551.2	0.3038794
551.3	0.143886	551.3	0.1591103	551.3	0.2708735
551.4	0.113893	551.4	0.1644685	551.4	0.2936218
551.5	0.1705681	551.5	0.1614507	551.5	0.2953699
551.6	0.1496986	551.6	0.1674905	551.6	0.2969432
551.7	0.1317146	551.7	0.1500362	551.7	0.312961
551.8	0.2631382	551.8	0.1403241	551.8	0.3223381
551.9	0.2530537	551.9	0.1531268	551.9	0.3589292
552	0.2345113	552	0.1661187	552	0.3817704
552.1	0.2954287	552.1	0.1752055	552.1	0.3852639
552.2	0.3110677	552.2	0.132568	552.2	0.3163265
552.3	0.3260818	552.3	0.1422255	552.3	0.2706098
552.4	0.3235297	552.4	0.1497299	552.4	0.2975801
552.5	0.3678985	552.5	0.1407849	552.5	0.3329493
552.6	0.3127804	552.6	0.1509205	552.6	0.3633627
552.7	0.3533192	552.7	0.1310853	552.7	0.3862099
552.8	0.255825	552.8	0.1612074	552.8	0.4591089
552.9	0.3743072	552.9	0.149736	552.9	0.3649564
553	0.3724065	553	0.1695397	553	0.3988106
553.1	0.3641848	553.1	0.1641961	553.1	0.3319467
553.2	0.3475481	553.2	0.148435	553.2	0.3201209
553.3	0.3187639	553.3	0.1557364	553.3	0.2720836
553.4	0.3265304	553.4	0.150176	553.4	0.260722
553.5	0.2457382	553.5	0.1324974	553.5	0.3234545
553.6	0.3513672	553.6	0.1425746	553.6	0.4054572
553.7	0.2918478	553.7	0.1690085	553.7	0.4976706
553.8	0.4018008	553.8	0.1514436	553.8	0.4640742
553.9	0.3323043	553.9	0.1581534	553.9	0.4632959
554	0.20294	554	0.1525055	554	0.3876783
554.1	0.1159943	554.1	0.1545189	554.1	0.3038937
554.2	0.132751	554.2	0.1663603	554.2	0.375421
554.3	0.1215492	554.3	0.1392861	554.3	0.3512905
554.4	0.1525639	554.4	0.1716558	554.4	0.3526349
554.5	0.1436716	554.5	0.1597368	554.5	0.3051155
554.6	0.2209323	554.6	0.1598662	554.6	0.2740543
554.7	0.2956071	554.7	0.1625603	554.7	0.3099594
554.8	0.2205276	554.8	0.1657268	554.8	0.3121031
554.9	0.1318602	554.9	0.1699096	554.9	0.3585593
555	0.2009787	555	0.1757882	555	0.3530744
555.1	0.146497	555.1	0.1710999	555.1	0.3947943
555.2	0.1171136	555.2	0.1857442	555.2	0.4030664
555.3	0.1268903	555.3	0.1609782	555.3	0.2943503
555.4	0.1761218	555.4	0.1739107	555.4	0.2845669
555.5	0.165875	555.5	0.1747957	555.5	0.2716265
555.6	0.1348845	555.6	0.174645	555.6	0.3297677
555.7	0.1371148	555.7	0.1751869	555.7	0.2685595

555.8	0.1212185	555.8	0.1695193	555.8	0.2720801
555.9	0.1343398	555.9	0.1774571	555.9	0.2661239
556	0.1796828	556	0.1658524	556	0.3225692
556.1	0.1668697	556.1	0.1571086	556.1	0.2905928
556.2	0.1292552	556.2	0.1611648	556.2	0.2673925
556.3	0.1331142	556.3	0.1748749	556.3	0.3106928
556.4	0.139002	556.4	0.1701394	556.4	0.3314163
556.5	0.1515287	556.5	0.144906	556.5	0.3384488
556.6	0.1589867	556.6	0.1944568	556.6	0.3147793
556.7	0.1728366	556.7	0.1545005	556.7	0.2800288
556.8	0.1262345	556.8	0.1564607	556.8	0.2682186
556.9	0.1984152	556.9	0.1645866	556.9	0.2792667
557	0.1947561	557	0.1499632	557	0.2727931
557.1	0.234749	557.1	0.1460442	557.1	0.3204781
557.2	0.2391968	557.2	0.129639	557.2	0.3488889
557.3	0.1810703	557.3	0.1639782	557.3	0.3129529
557.4	0.1697545	557.4	0.1299499	557.4	0.303936
557.5	0.135792	557.5	0.1380763	557.5	0.2676845
557.6	0.1547653	557.6	0.1551919	557.6	0.3200241
557.7	0.2750377	557.7	0.1650123	557.7	0.3359787
557.8	0.1579315	557.8	0.1813129	557.8	0.2880048
557.9	0.137627	557.9	0.1563003	557.9	0.301552
558	0.1479915	558	0.1588864	558	0.2708337
558.1	0.154412	558.1	0.1622442	558.1	0.2563711
558.2	0.1719688	558.2	0.1749724	558.2	0.2807052
558.3	0.1106579	558.3	0.1402121	558.3	0.3046716
558.4	0.1186001	558.4	0.1551909	558.4	0.2663092
558.5	0.1326437	558.5	0.1722412	558.5	0.3039767
558.6	0.1422304	558.6	0.1718513	558.6	0.3088973
558.7	0.1764722	558.7	0.1268756	558.7	0.2607156
558.8	0.1516727	558.8	0.1704604	558.8	0.2482075
558.9	0.1820493	558.9	0.1717634	558.9	0.2880784
559	0.1342388	559	0.1662705	559	0.2869871
559.1	0.1357909	559.1	0.1416695	559.1	0.2538165
559.2	0.1432796	559.2	0.1497613	559.2	0.3068463
559.3	0.1045408	559.3	0.1632425	559.3	0.2711462
559.4	0.1273189	559.4	0.1527352	559.4	0.296436
559.5	0.1301702	559.5	0.1637421	559.5	0.3284198
559.6	0.123818	559.6	0.1654899	559.6	0.3090966
559.7	0.134246	559.7	0.1639605	559.7	0.2862599
559.8	0.1354458	559.8	0.1481802	559.8	0.2844396
559.9	0.1140766	559.9	0.1635592	559.9	0.2894455
560	0.1260943	560	0.1740191	560	0.2777417
560.1	0.1483636	560.1	0.1696582	560.1	0.276454
560.2	0.1313594	560.2	0.1727366	560.2	0.2862217
560.3	0.1326159	560.3	0.1611712	560.3	0.254766
560.4	0.1192482	560.4	0.1802576	560.4	0.3015599
560.5	0.1267216	560.5	0.1429879	560.5	0.2823507
560.6	0.2069577	560.6	0.1539932	560.6	0.3039613
560.7	0.1484964	560.7	0.1588464	560.7	0.2829542
560.8	0.1549678	560.8	0.1465476	560.8	0.2846265

560.9 0.1500228	560.9 0.1505419	560.9 0.3095376
561 0.1838323	561 0.1624076	561 0.2924224
561.1 0.1063046	561.1 0.1676218	561.1 0.3162352
561.2 0.1290032	561.2 0.1811556	561.2 0.3454452
561.3 0.1479092	561.3 0.1724182	561.3 0.2832547
561.4 0.161117	561.4 0.1689601	561.4 0.3020759
561.5 0.1535273	561.5 0.1595565	561.5 0.3502731
561.6 0.1131233	561.6 0.1720641	561.6 0.3147569
561.7 0.108519	561.7 0.1597527	561.7 0.2916394
561.8 0.1511138	561.8 0.1708256	561.8 0.254133
561.9 0.1268758	561.9 0.1516506	561.9 0.258947
562 0.1309947	562 0.1608968	562 0.284251
562.1 0.1320074	562.1 0.1603581	562.1 0.299127
562.2 0.129862	562.2 0.1548164	562.2 0.3664047
562.3 0.1328933	562.3 0.1641757	562.3 0.410726
562.4 0.135485	562.4 0.153516	562.4 0.3707258
562.5 0.1168358	562.5 0.1714187	562.5 0.3391719
562.6 0.1250865	562.6 0.1537665	562.6 0.4087442
562.7 0.1180708	562.7 0.160123	562.7 0.3641424
562.8 0.1310446	562.8 0.1555091	562.8 0.386289
562.9 0.1450162	562.9 0.1344597	562.9 0.345963
563 0.1401012	563 0.1595073	563 0.4529906
563.1 0.1264981	563.1 0.1850063	563.1 0.3956417
563.2 0.1411445	563.2 0.1682854	563.2 0.3017736
563.3 0.1394396	563.3 0.1789355	563.3 0.2856266
563.4 0.1066716	563.4 0.1526903	563.4 0.2827654
563.5 0.1303459	563.5 0.1618829	563.5 0.2695811
563.6 0.1394595	563.6 0.1584253	563.6 0.3050661
563.7 0.1391425	563.7 0.1595326	563.7 0.2691709
563.8 0.1163224	563.8 0.1530351	563.8 0.2741925
563.9 0.1158531	563.9 0.180666	563.9 0.3208117
564 0.1276589	564 0.1757621	564 0.2968899
564.1 0.1383266	564.1 0.1544775	564.1 0.2907727
564.2 0.1110129	564.2 0.1450416	564.2 0.2642402
564.3 0.1516527	564.3 0.1316598	564.3 0.2853605
564.4 0.1798111	564.4 0.1532719	564.4 0.3139868
564.5 0.1122056	564.5 0.1443635	564.5 0.3294168
564.6 0.1577643	564.6 0.1313433	564.6 0.3474829
564.7 0.1578485	564.7 0.1752945	564.7 0.2938868
564.8 0.1549747	564.8 0.1648829	564.8 0.3121599
564.9 0.1512776	564.9 0.1458315	564.9 0.3008661
565 0.1751463	565 0.1475672	565 0.3036172
565.1 0.1509224	565.1 0.16151	565.1 0.3154336
565.2 0.1546525	565.2 0.1458338	565.2 0.3096502
565.3 0.1555373	565.3 0.1531844	565.3 0.3094702
565.4 0.1874021	565.4 0.1190091	565.4 0.306494
565.5 0.1650771	565.5 0.1528752	565.5 0.2957685
565.6 0.125438	565.6 0.1457498	565.6 0.2755348
565.7 0.1378203	565.7 0.1337504	565.7 0.3217211
565.8 0.1968281	565.8 0.134901	565.8 0.2895181
565.9 0.1829335	565.9 0.1420894	565.9 0.2693461

566 0.1586982	566 0.1284984	566 0.2727146
566.1 0.1510717	566.1 0.1390954	566.1 0.3360503
566.2 0.1656074	566.2 0.1736525	566.2 0.3130415
566.3 0.1875293	566.3 0.1699021	566.3 0.3300062
566.4 0.171285	566.4 0.1608747	566.4 0.2912014
566.5 0.1551045	566.5 0.1372911	566.5 0.2974108
566.6 0.1818257	566.6 0.1588954	566.6 0.2983117
566.7 0.1711546	566.7 0.1295559	566.7 0.3295345
566.8 0.1515655	566.8 0.1221751	566.8 0.2892203
566.9 0.137986	566.9 0.1589319	566.9 0.3037569
567 0.1566632	567 0.1572249	567 0.3044067
567.1 0.1164045	567.1 0.1517135	567.1 0.3067262
567.2 0.1529583	567.2 0.1597012	567.2 0.3550441
567.3 0.1736701	567.3 0.163729	567.3 0.3142651
567.4 0.131951	567.4 0.1536549	567.4 0.303996
567.5 0.1631931	567.5 0.16716	567.5 0.3321027
567.6 0.1540407	567.6 0.1583724	567.6 0.4394914
567.7 0.1532237	567.7 0.1613222	567.7 0.3300778
567.8 0.1387626	567.8 0.1566166	567.8 0.4545501
567.9 0.1076488	567.9 0.1629684	567.9 0.437628
568 0.0987443	568 0.1670517	568 0.4394627
568.1 0.1307272	568.1 0.1680958	568.1 0.3877322
568.2 0.1289504	568.2 0.1787635	568.2 0.3099596
568.3 0.1198563	568.3 0.1641379	568.3 0.2987105
568.4 0.1344252	568.4 0.1425828	568.4 0.3164787
568.5 0.1423898	568.5 0.1510157	568.5 0.3494903
568.6 0.1554415	568.6 0.1465805	568.6 0.2670393
568.7 0.1408798	568.7 0.1601041	568.7 0.2864803
568.8 0.1467993	568.8 0.1798144	568.8 0.2779446
568.9 0.145845	568.9 0.1807918	568.9 0.3434596
569 0.1185764	569 0.1651245	569 0.3404997
569.1 0.1325187	569.1 0.1809799	569.1 0.2902197
569.2 0.1303706	569.2 0.1894509	569.2 0.2860299
569.3 0.1253193	569.3 0.1647732	569.3 0.3221698
569.4 0.1136171	569.4 0.1658694	569.4 0.4453804
569.5 0.0916505	569.5 0.1733219	569.5 0.3685724
569.6 0.1145133	569.6 0.1634565	569.6 0.4653397
569.7 0.0918722	569.7 0.1542694	569.7 0.321028
569.8 0.1042646	569.8 0.143859	569.8 0.3521016
569.9 0.0932217	569.9 0.1684814	569.9 0.2689316
570 0.0847381	570 0.1418902	570 0.2898474
570.1 0.0858343	570.1 0.1702665	570.1 0.28963
570.2 0.1035746	570.2 0.1553416	570.2 0.3132339
570.3 0.0969025	570.3 0.1602291	570.3 0.2549461
570.4 0.098296	570.4 0.1860128	570.4 0.291476
570.5 0.1097841	570.5 0.1742875	570.5 0.2959064
570.6 0.1565291	570.6 0.1722074	570.6 0.2784057
570.7 0.2229722	570.7 0.1782958	570.7 0.2985994
570.8 0.1253092	570.8 0.1748061	570.8 0.2935745
570.9 0.1573368	570.9 0.1694689	570.9 0.2792366
571 0.160484	571 0.1595512	571 0.2556146

571.1	0.122808	571.1	0.1611332	571.1	0.2828286
571.2	0.1635421	571.2	0.1850087	571.2	0.2811989
571.3	0.1628574	571.3	0.204728	571.3	0.2593106
571.4	0.1429968	571.4	0.1778384	571.4	0.2489527
571.5	0.2094631	571.5	0.1613122	571.5	0.3113602
571.6	0.1671766	571.6	0.1820943	571.6	0.269505
571.7	0.2036426	571.7	0.1401595	571.7	0.2802043
571.8	0.1848153	571.8	0.1518572	571.8	0.3012841
571.9	0.1711171	571.9	0.1580906	571.9	0.3373947
572	0.1714006	572	0.146982	572	0.4311659
572.1	0.1826793	572.1	0.1381933	572.1	0.4462406
572.2	0.1324985	572.2	0.1568866	572.2	0.3395095
572.3	0.174522	572.3	0.1453392	572.3	0.330071
572.4	0.113635	572.4	0.1386652	572.4	0.3810783
572.5	0.1330563	572.5	0.1679602	572.5	0.4253929
572.6	0.1056212	572.6	0.1338133	572.6	0.4338586
572.7	0.1218572	572.7	0.1302689	572.7	0.3533494
572.8	0.1166467	572.8	0.1721542	572.8	0.3582693
572.9	0.1184953	572.9	0.1633559	572.9	0.3657499
573	0.1632171	573	0.1621002	573	0.3472827
573.1	0.1537619	573.1	0.156437	573.1	0.345715
573.2	0.1113193	573.2	0.1465662	573.2	0.3254431
573.3	0.1469108	573.3	0.1522495	573.3	0.3694021
573.4	0.1085611	573.4	0.1238326	573.4	0.3247456
573.5	0.1142907	573.5	0.1573534	573.5	0.3115308
573.6	0.1218834	573.6	0.155994	573.6	0.3272262
573.7	0.1162554	573.7	0.1700734	573.7	0.3498966
573.8	0.1194528	573.8	0.1370576	573.8	0.3440621
573.9	0.1050536	573.9	0.1575028	573.9	0.3078865
574	0.145345	574	0.1532648	574	0.2701071
574.1	0.1479962	574.1	0.1470938	574.1	0.2877117
574.2	0.1648965	574.2	0.1439566	574.2	0.290521
574.3	0.1550487	574.3	0.139434	574.3	0.286105
574.4	0.1175166	574.4	0.1369376	574.4	0.2656472
574.5	0.1290823	574.5	0.1218214	574.5	0.2984414
574.6	0.1264239	574.6	0.1507394	574.6	0.2900121
574.7	0.1171423	574.7	0.1428495	574.7	0.3277089
574.8	0.1143478	574.8	0.1225092	574.8	0.3112172
574.9	0.1217446	574.9	0.1476261	574.9	0.2990984
575	0.1290879	575	0.1508949	575	0.3041961
575.1	0.1271195	575.1	0.1378691	575.1	0.275887
575.2	0.1126465	575.2	0.1387733	575.2	0.2831877
575.3	0.1131328	575.3	0.1321247	575.3	0.3360428
575.4	0.1324414	575.4	0.141848	575.4	0.3297953
575.5	0.1660373	575.5	0.1592759	575.5	0.2664421
575.6	0.1317621	575.6	0.1519115	575.6	0.2724705
575.7	0.1085562	575.7	0.1302945	575.7	0.259786
575.8	0.1355926	575.8	0.1276184	575.8	0.3210726
575.9	0.1479657	575.9	0.1589576	575.9	0.3313607
576	0.1301592	576	0.1518978	576	0.2735117
576.1	0.12535	576.1	0.1340149	576.1	0.2906995

576.2 0.1259144	576.2 0.1533711	576.2 0.2778942
576.3 0.1317256	576.3 0.1618774	576.3 0.2890948
576.4 0.1652626	576.4 0.1360443	576.4 0.3263412
576.5 0.1673579	576.5 0.1760028	576.5 0.2877779
576.6 0.1738596	576.6 0.1554303	576.6 0.374137
576.7 0.2178979	576.7 0.153427	576.7 0.3080263
576.8 0.1680195	576.8 0.1862932	576.8 0.3838663
576.9 0.1881416	576.9 0.1774589	576.9 0.4217767
577 0.1737847	577 0.1466271	577 0.3968492
577.1 0.2243172	577.1 0.1391519	577.1 0.3674206
577.2 0.2033973	577.2 0.1502584	577.2 0.3085264
577.3 0.2351307	577.3 0.1518481	577.3 0.368524
577.4 0.1135257	577.4 0.1727772	577.4 0.3021894
577.5 0.1350379	577.5 0.1484743	577.5 0.291885
577.6 0.1332433	577.6 0.1568687	577.6 0.307101
577.7 0.1239069	577.7 0.1573036	577.7 0.3228053
577.8 0.1475194	577.8 0.1602896	577.8 0.2920952
577.9 0.1370727	577.9 0.1521823	577.9 0.2908285
578 0.158623	578 0.163672	578 0.2504464
578.1 0.1159471	578.1 0.1398907	578.1 0.2584379
578.2 0.139291	578.2 0.1283812	578.2 0.305291
578.3 0.1722192	578.3 0.1429609	578.3 0.3328295
578.4 0.1475298	578.4 0.115423	578.4 0.4000986
578.5 0.1832919	578.5 0.1540038	578.5 0.2810209
578.6 0.141704	578.6 0.13415	578.6 0.2643375
578.7 0.1187257	578.7 0.129457	578.7 0.2956832
578.8 0.1281244	578.8 0.1236685	578.8 0.2954088
578.9 0.1268113	578.9 0.1172828	578.9 0.3390124
579 0.0851741	579 0.1126377	579 0.3326414
579.1 0.131917	579.1 0.1322678	579.1 0.3328682
579.2 0.156966	579.2 0.1233214	579.2 0.3136248
579.3 0.1911011	579.3 0.1215423	579.3 0.317038
579.4 0.1433214	579.4 0.1230996	579.4 0.290004
579.5 0.176231	579.5 0.1346786	579.5 0.2912774
579.6 0.1900742	579.6 0.1206624	579.6 0.2919059
579.7 0.16162	579.7 0.1080073	579.7 0.286781
579.8 0.110824	579.8 0.1316033	579.8 0.2635736
579.9 0.1573595	579.9 0.1197978	579.9 0.260548
580 0.1728597	580 0.1494788	580 0.2972793
580.1 0.1553626	580.1 0.1221426	580.1 0.2697634
580.2 0.1488751	580.2 0.1300105	580.2 0.2838372
580.3 0.2029802	580.3 0.1159472	580.3 0.3291118
580.4 0.1515813	580.4 0.1366445	580.4 0.2831572
580.5 0.1572409	580.5 0.1243841	580.5 0.3394425
580.6 0.1938664	580.6 0.1556318	580.6 0.3437673
580.7 0.152164	580.7 0.1732787	580.7 0.3905044
580.8 0.1602168	580.8 0.1469334	580.8 0.3409122
580.9 0.1535971	580.9 0.137787	580.9 0.3200196
581 0.1321376	581 0.1850976	581 0.2820703
581.1 0.1139591	581.1 0.1517723	581.1 0.3152526
581.2 0.1665914	581.2 0.1416933	581.2 0.2993014

581.3 0.1178976	581.3 0.1452672	581.3 0.3079967
581.4 0.1430143	581.4 0.13442	581.4 0.2756902
581.5 0.1498756	581.5 0.129677	581.5 0.319361
581.6 0.1295324	581.6 0.130875	581.6 0.3103288
581.7 0.1405141	581.7 0.1455679	581.7 0.2801346
581.8 0.1274899	581.8 0.1542564	581.8 0.2662491
581.9 0.1382385	581.9 0.1658057	581.9 0.3086191
582 0.1596856	582 0.1369933	582 0.2897414
582.1 0.1623987	582.1 0.1375005	582.1 0.2909377
582.2 0.1719343	582.2 0.1370816	582.2 0.289177
582.3 0.2253776	582.3 0.1486503	582.3 0.3251242
582.4 0.1990206	582.4 0.1533052	582.4 0.338343
582.5 0.2397081	582.5 0.1553402	582.5 0.3292421
582.6 0.2142863	582.6 0.1491825	582.6 0.3759596
582.7 0.1322636	582.7 0.1497857	582.7 0.284377
582.8 0.1668481	582.8 0.1319463	582.8 0.3873834
582.9 0.1585615	582.9 0.1701315	582.9 0.414208
583 0.260337	583 0.1409203	583 0.328141
583.1 0.3065231	583.1 0.1627508	583.1 0.3980409
583.2 0.3321125	583.2 0.1512743	583.2 0.3758647
583.3 0.2154409	583.3 0.1294071	583.3 0.3361124
583.4 0.2622944	583.4 0.1485988	583.4 0.4206987
583.5 0.2036336	583.5 0.1542028	583.5 0.3476468
583.6 0.1817296	583.6 0.1551818	583.6 0.3011635
583.7 0.1550703	583.7 0.1458648	583.7 0.3189972
583.8 0.1708716	583.8 0.1472751	583.8 0.3096248
583.9 0.1156615	583.9 0.1252478	583.9 0.2938202
584 0.1575524	584 0.1544754	584 0.3091592
584.1 0.1257446	584.1 0.1457029	584.1 0.3400714
584.2 0.1719763	584.2 0.1406723	584.2 0.379241
584.3 0.1512528	584.3 0.1186491	584.3 0.4055413
584.4 0.1764085	584.4 0.1280484	584.4 0.3186605
584.5 0.2205269	584.5 0.1496096	584.5 0.3733866
584.6 0.2864147	584.6 0.1222605	584.6 0.4266735
584.7 0.2765062	584.7 0.1498872	584.7 0.4453096
584.8 0.2472961	584.8 0.1558079	584.8 0.4038502
584.9 0.2486124	584.9 0.1295984	584.9 0.3814018
585 0.198199	585 0.1593964	585 0.3801004
585.1 0.1853434	585.1 0.1360586	585.1 0.397363
585.2 0.2262792	585.2 0.1726145	585.2 0.4755385
585.3 0.2474122	585.3 0.1599723	585.3 0.5125876
585.4 0.2316856	585.4 0.1326271	585.4 0.44103
585.5 0.2383433	585.5 0.1327371	585.5 0.4718933
585.6 0.235201	585.6 0.1676276	585.6 0.3742002
585.7 0.2730555	585.7 0.1500654	585.7 0.3169274
585.8 0.2182993	585.8 0.1457267	585.8 0.3918423
585.9 0.2001072	585.9 0.1334519	585.9 0.4188426
586 0.185087	586 0.1615087	586 0.4519355
586.1 0.1772176	586.1 0.1245933	586.1 0.4643319
586.2 0.1818469	586.2 0.1259558	586.2 0.4362786
586.3 0.1613023	586.3 0.1415503	586.3 0.279502

586.4	0.153412	586.4	0.1482993	586.4	0.2900047
586.5	0.1556659	586.5	0.1347522	586.5	0.3628889
586.6	0.1490447	586.6	0.1531236	586.6	0.324311
586.7	0.1360978	586.7	0.1476574	586.7	0.3133073
586.8	0.1565153	586.8	0.1551555	586.8	0.3359311
586.9	0.1826178	586.9	0.1549023	586.9	0.352789
587	0.1414101	587	0.1229596	587	0.4089655
587.1	0.1686753	587.1	0.1261877	587.1	0.3142006
587.2	0.170541	587.2	0.1351397	587.2	0.3485479
587.3	0.1458689	587.3	0.1468786	587.3	0.3187239
587.4	0.1389279	587.4	0.1343565	587.4	0.4282494
587.5	0.1483344	587.5	0.1578123	587.5	0.5113194
587.6	0.150086	587.6	0.1302174	587.6	0.4308363
587.7	0.1236479	587.7	0.1315499	587.7	0.3962694
587.8	0.1464551	587.8	0.1618607	587.8	0.4099512
587.9	0.1495485	587.9	0.1195791	587.9	0.5137954
588	0.1523635	588	0.1451487	588	0.5609272
588.1	0.1366999	588.1	0.1721914	588.1	0.5811395
588.2	0.1514381	588.2	0.1290319	588.2	0.4107262
588.3	0.1469275	588.3	0.1301437	588.3	0.4648908
588.4	0.1442032	588.4	0.1444816	588.4	0.4725232
588.5	0.1489495	588.5	0.1534474	588.5	0.4426274
588.6	0.1498475	588.6	0.153431	588.6	0.5721859
588.7	0.1462108	588.7	0.1488393	588.7	0.4527543
588.8	0.1246086	588.8	0.1518232	588.8	0.3988294
588.9	0.1486382	588.9	0.1719651	588.9	0.4213464
589	0.1344657	589	0.1375563	589	0.4127156
589.1	0.1572924	589.1	0.1429889	589.1	0.5101423
589.2	0.1442731	589.2	0.1353832	589.2	0.4082699
589.3	0.1610823	589.3	0.1459883	589.3	0.3089759
589.4	0.1554721	589.4	0.1330463	589.4	0.3043347
589.5	0.1559304	589.5	0.1608925	589.5	0.3229028
589.6	0.1541068	589.6	0.1724	589.6	0.3083172
589.7	0.1557762	589.7	0.1452921	589.7	0.2639945
589.8	0.185284	589.8	0.1536631	589.8	0.2739683
589.9	0.179057	589.9	0.134399	589.9	0.2750629
590	0.1738124	590	0.1547383	590	0.2783711
590.1	0.1772119	590.1	0.1568841	590.1	0.2838726
590.2	0.1673921	590.2	0.1446691	590.2	0.2683724
590.3	0.1520751	590.3	0.1467523	590.3	0.2617414
590.4	0.1841356	590.4	0.1329305	590.4	0.2736747
590.5	0.1810824	590.5	0.1491651	590.5	0.2737793
590.6	0.191641	590.6	0.1479921	590.6	0.2938039
590.7	0.1515507	590.7	0.1430858	590.7	0.26051
590.8	0.1495959	590.8	0.1413588	590.8	0.2792467
590.9	0.1803665	590.9	0.1313501	590.9	0.2964709
591	0.2095985	591	0.1459727	591	0.3003278
591.1	0.1692145	591.1	0.1586915	591.1	0.3376833
591.2	0.1794829	591.2	0.1599524	591.2	0.3388128
591.3	0.1985255	591.3	0.1383167	591.3	0.2767791
591.4	0.1977548	591.4	0.159198	591.4	0.2724706

591.5 0.1738714	591.5 0.1596009	591.5 0.3373252
591.6 0.1681546	591.6 0.1400089	591.6 0.3044372
591.7 0.1462274	591.7 0.1455856	591.7 0.2963516
591.8 0.2045508	591.8 0.1505561	591.8 0.2927991
591.9 0.1654262	591.9 0.1583381	591.9 0.2792527
592 0.1967293	592 0.1504306	592 0.3318828
592.1 0.1660048	592.1 0.1436917	592.1 0.3416546
592.2 0.1581439	592.2 0.1576267	592.2 0.3300367
592.3 0.1686338	592.3 0.1489402	592.3 0.3115423
592.4 0.1702616	592.4 0.1639773	592.4 0.353775
592.5 0.1534437	592.5 0.1551522	592.5 0.3344355
592.6 0.1679757	592.6 0.154694	592.6 0.325388
592.7 0.1600537	592.7 0.1611629	592.7 0.403576
592.8 0.1599456	592.8 0.147893	592.8 0.4018946
592.9 0.1786157	592.9 0.1560772	592.9 0.4892159
593 0.1722088	593 0.1599659	593 0.3727493
593.1 0.1689559	593.1 0.134837	593.1 0.4318708
593.2 0.1696236	593.2 0.1707489	593.2 0.3895893
593.3 0.1372207	593.3 0.1502502	593.3 0.3957649
593.4 0.1532003	593.4 0.1497036	593.4 0.3472269
593.5 0.1525861	593.5 0.1654151	593.5 0.3682906
593.6 0.1430934	593.6 0.1398795	593.6 0.2937776
593.7 0.1441356	593.7 0.1486304	593.7 0.3381973
593.8 0.1281117	593.8 0.1828776	593.8 0.3237362
593.9 0.146663	593.9 0.1592235	593.9 0.4576224
594 0.1523593	594 0.1754137	594 0.3052658
594.1 0.1412532	594.1 0.1480692	594.1 0.3061413
594.2 0.1468021	594.2 0.1625924	594.2 0.3225164
594.3 0.161864	594.3 0.1450187	594.3 0.3296711
594.4 0.1678214	594.4 0.1609098	594.4 0.3435709
594.5 0.1904742	594.5 0.1503009	594.5 0.3681151
594.6 0.1548298	594.6 0.161395	594.6 0.4092489
594.7 0.1456743	594.7 0.1593799	594.7 0.4164314
594.8 0.1455939	594.8 0.1562012	594.8 0.3581382
594.9 0.1702263	594.9 0.1643252	594.9 0.3016198
595 0.1351828	595 0.1575997	595 0.3602777
595.1 0.142142	595.1 0.1439531	595.1 0.3674979
595.2 0.1365932	595.2 0.1481473	595.2 0.3153223
595.3 0.1436063	595.3 0.1251325	595.3 0.2926903
595.4 0.1441681	595.4 0.1756549	595.4 0.2741888
595.5 0.1573456	595.5 0.1326781	595.5 0.335317
595.6 0.1659322	595.6 0.139695	595.6 0.3266419
595.7 0.1633266	595.7 0.1445878	595.7 0.3879653
595.8 0.1489451	595.8 0.1493722	595.8 0.424897
595.9 0.1434731	595.9 0.1463859	595.9 0.4495211
596 0.1270179	596 0.1340097	596 0.4922256
596.1 0.1408651	596.1 0.1549515	596.1 0.3490948
596.2 0.150161	596.2 0.1521667	596.2 0.3195416
596.3 0.1668277	596.3 0.1499256	596.3 0.3409086
596.4 0.1653654	596.4 0.154895	596.4 0.3215451
596.5 0.1308943	596.5 0.1394534	596.5 0.2902873

596.6	0.139678	596.6	0.1534528	596.6	0.3258995
596.7	0.1502979	596.7	0.1639579	596.7	0.3912304
596.8	0.1370834	596.8	0.1489749	596.8	0.3528879
596.9	0.1591174	596.9	0.1474512	596.9	0.3710638
597	0.1536107	597	0.16805	597	0.3065915
597.1	0.1432629	597.1	0.1804619	597.1	0.3611518
597.2	0.2076674	597.2	0.1732441	597.2	0.3507816
597.3	0.1478244	597.3	0.1739607	597.3	0.446633
597.4	0.1912219	597.4	0.1384845	597.4	0.4293436
597.5	0.1981267	597.5	0.146966	597.5	0.4426252
597.6	0.2303838	597.6	0.1456901	597.6	0.4357074
597.7	0.2821906	597.7	0.1442056	597.7	0.4319617
597.8	0.2614622	597.8	0.1587566	597.8	0.31128
597.9	0.1357548	597.9	0.1408196	597.9	0.3346962
598	0.1841917	598	0.1397582	598	0.3287853
598.1	0.1247106	598.1	0.1610279	598.1	0.4136474
598.2	0.1230159	598.2	0.144007	598.2	0.3892576
598.3	0.0957678	598.3	0.1780745	598.3	0.2684011
598.4	0.0945117	598.4	0.1387023	598.4	0.2776151
598.5	0.1029488	598.5	0.1491933	598.5	0.3275313
598.6	0.1215675	598.6	0.1407525	598.6	0.2678638
598.7	0.16335	598.7	0.1562996	598.7	0.2712888
598.8	0.1515426	598.8	0.1543287	598.8	0.2938456
598.9	0.1921805	598.9	0.17851	598.9	0.3335428
599	0.161552	599	0.1374095	599	0.2891121
599.1	0.1280233	599.1	0.1702498	599.1	0.28269
599.2	0.1368924	599.2	0.166092	599.2	0.4112472
599.3	0.1306734	599.3	0.1479198	599.3	0.3143586
599.4	0.1534209	599.4	0.1700612	599.4	0.3202673
599.5	0.1608956	599.5	0.15232	599.5	0.3962375
599.6	0.1395841	599.6	0.1733529	599.6	0.3538399
599.7	0.1442477	599.7	0.1274111	599.7	0.3349122
599.8	0.1349987	599.8	0.1286193	599.8	0.3510953
599.9	0.0992504	599.9	0.1304921	599.9	0.4223864
600	0.1147948	600	0.1293029	600	0.4202242
600.1	0.1396083	600.1	0.1442232	600.1	0.3329207
600.2	0.1316805	600.2	0.1466084	600.2	0.2869263
600.3	0.1204795	600.3	0.1577286	600.3	0.2998001
600.4	0.1595597	600.4	0.1659431	600.4	0.326973
600.5	0.1366708	600.5	0.1546577	600.5	0.3112926
600.6	0.1475255	600.6	0.1792067	600.6	0.311975
600.7	0.142057	600.7	0.1932902	600.7	0.3270379
600.8	0.178085	600.8	0.1838645	600.8	0.324554
600.9	0.2276599	600.9	0.1568118	600.9	0.3202361
601	0.1946605	601	0.1538237	601	0.36777
601.1	0.1618033	601.1	0.1756506	601.1	0.3621179
601.2	0.1814003	601.2	0.1652765	601.2	0.3766763
601.3	0.1699624	601.3	0.1949631	601.3	0.3871038
601.4	0.1585642	601.4	0.1382902	601.4	0.3763504
601.5	0.1265268	601.5	0.1619463	601.5	0.2986358
601.6	0.1369574	601.6	0.1589697	601.6	0.3376537

601.7 0.1182026	601.7 0.1506886	601.7 0.3494325
601.8 0.143481	601.8 0.1915528	601.8 0.341509
601.9 0.1669051	601.9 0.1870726	601.9 0.3126148
602 0.1282629	602 0.1676399	602 0.2633231
602.1 0.2298952	602.1 0.1510808	602.1 0.3049305
602.2 0.1684677	602.2 0.1422344	602.2 0.3766182
602.3 0.1260746	602.3 0.1377089	602.3 0.4826359
602.4 0.1439543	602.4 0.1663296	602.4 0.4065216
602.5 0.1740042	602.5 0.1415198	602.5 0.3769674
602.6 0.1326949	602.6 0.1671114	602.6 0.2982418
602.7 0.1369153	602.7 0.1652321	602.7 0.3661112
602.8 0.1889152	602.8 0.1588443	602.8 0.3199422
602.9 0.1217695	602.9 0.1462233	602.9 0.2846882
603 0.1409682	603 0.160906	603 0.284681
603.1 0.1319929	603.1 0.1715258	603.1 0.3543854
603.2 0.1486371	603.2 0.1429999	603.2 0.3413626
603.3 0.1336444	603.3 0.185881	603.3 0.3385581
603.4 0.1358441	603.4 0.1787188	603.4 0.3532688
603.5 0.1969021	603.5 0.1919811	603.5 0.3624786
603.6 0.1237743	603.6 0.154056	603.6 0.3215494
603.7 0.1560375	603.7 0.1399751	603.7 0.4467441
603.8 0.12006	603.8 0.1573139	603.8 0.2956186
603.9 0.1078587	603.9 0.1654369	603.9 0.3348859
604 0.1294767	604 0.1410927	604 0.379007
604.1 0.1674912	604.1 0.1283555	604.1 0.4005768
604.2 0.1372655	604.2 0.1373582	604.2 0.3216971
604.3 0.1524266	604.3 0.1862074	604.3 0.3591801
604.4 0.1419843	604.4 0.1466602	604.4 0.3049026
604.5 0.1426141	604.5 0.1420548	604.5 0.3086912
604.6 0.1276755	604.6 0.1394365	604.6 0.303097
604.7 0.19419	604.7 0.1431941	604.7 0.3063244
604.8 0.1294234	604.8 0.1500935	604.8 0.2949758
604.9 0.1619762	604.9 0.1468569	604.9 0.2756633
605 0.1414211	605 0.1846928	605 0.3119643
605.1 0.169356	605.1 0.1593631	605.1 0.281069
605.2 0.1496415	605.2 0.1796239	605.2 0.3222344
605.3 0.153871	605.3 0.1478045	605.3 0.3878531
605.4 0.1535525	605.4 0.1589874	605.4 0.4754419
605.5 0.18004	605.5 0.1208949	605.5 0.3897202
605.6 0.139878	605.6 0.1254174	605.6 0.3876155
605.7 0.1881293	605.7 0.1304921	605.7 0.3350064
605.8 0.1663757	605.8 0.1461212	605.8 0.282998
605.9 0.1822757	605.9 0.1804745	605.9 0.3094121
606 0.1488959	606 0.1419401	606 0.3119135
606.1 0.163046	606.1 0.1383428	606.1 0.2870208
606.2 0.1686488	606.2 0.1798635	606.2 0.3307068
606.3 0.1520436	606.3 0.1596503	606.3 0.3182777
606.4 0.1864951	606.4 0.1472949	606.4 0.341805
606.5 0.1516771	606.5 0.1987422	606.5 0.2893636
606.6 0.165608	606.6 0.1656169	606.6 0.2895381
606.7 0.1456922	606.7 0.1658354	606.7 0.3466128

606.8	0.1334219	606.8	0.1554447	606.8	0.2896172
606.9	0.1645237	606.9	0.1449162	606.9	0.3154517
607	0.1832457	607	0.1384148	607	0.3312278
607.1	0.1654227	607.1	0.1190515	607.1	0.3207254
607.2	0.1947471	607.2	0.1659713	607.2	0.2979257
607.3	0.130484	607.3	0.1323463	607.3	0.3308977
607.4	0.1471791	607.4	0.1356945	607.4	0.3019782
607.5	0.1749124	607.5	0.1417106	607.5	0.3011293
607.6	0.1597223	607.6	0.1430387	607.6	0.4372561
607.7	0.1445482	607.7	0.1372549	607.7	0.4054083
607.8	0.1283147	607.8	0.144781	607.8	0.2732881
607.9	0.1012134	607.9	0.1479808	607.9	0.2801582
608	0.1221912	608	0.1577799	608	0.3117218
608.1	0.1084538	608.1	0.1624346	608.1	0.2791107
608.2	0.0979811	608.2	0.1290834	608.2	0.2882338
608.3	0.1062533	608.3	0.1621508	608.3	0.3088369
608.4	0.1211583	608.4	0.1457284	608.4	0.2798957
608.5	0.1053425	608.5	0.1324262	608.5	0.2793251
608.6	0.1022865	608.6	0.1532297	608.6	0.2927411
608.7	0.1249512	608.7	0.1538124	608.7	0.2880706
608.8	0.1276139	608.8	0.1664896	608.8	0.3148253
608.9	0.1138286	608.9	0.1702618	608.9	0.2748307
609	0.1160734	609	0.151273	609	0.2895439
609.1	0.1102949	609.1	0.1336489	609.1	0.3053114
609.2	0.1084228	609.2	0.1595112	609.2	0.277262
609.3	0.1330999	609.3	0.1379787	609.3	0.2686569
609.4	0.154065	609.4	0.1568058	609.4	0.2817049
609.5	0.1891842	609.5	0.1535842	609.5	0.2813476
609.6	0.1240231	609.6	0.1238374	609.6	0.271686
609.7	0.12073	609.7	0.1561879	609.7	0.2956283
609.8	0.1378448	609.8	0.1607957	609.8	0.3185444
609.9	0.2006655	609.9	0.1447929	609.9	0.272412
610	0.2340894	610	0.1424062	610	0.2658638
610.1	0.2021669	610.1	0.1703663	610.1	0.2718331
610.2	0.1367427	610.2	0.1595124	610.2	0.2641788
610.3	0.1372913	610.3	0.1532803	610.3	0.2697597
610.4	0.1055028	610.4	0.1445272	610.4	0.2704778
610.5	0.1092092	610.5	0.1456038	610.5	0.289356
610.6	0.1159968	610.6	0.1659459	610.6	0.2609132
610.7	0.1168062	610.7	0.1766765	610.7	0.2682666
610.8	0.157257	610.8	0.2049084	610.8	0.2655279
610.9	0.182612	610.9	0.1529788	610.9	0.2683389
611	0.1962928	611	0.1880088	611	0.2561839
611.1	0.2327511	611.1	0.1840102	611.1	0.2876505
611.2	0.1568938	611.2	0.18539	611.2	0.2774161
611.3	0.2051747	611.3	0.2032379	611.3	0.3038921
611.4	0.1769251	611.4	0.1887802	611.4	0.2784567
611.5	0.1260152	611.5	0.2110475	611.5	0.2868363
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612 0.2004004	612 0.1977196	612 0.2717079
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613.1 0.1405402	613.1 0.1458649	613.1 0.3543569
613.2 0.1359747	613.2 0.1138266	613.2 0.3035729
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613.6 0.1222533	613.6 0.1445377	613.6 0.4129139
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613.8 0.1085733	613.8 0.137564	613.8 0.3102153
613.9 0.1155397	613.9 0.1457408	613.9 0.4363305
614 0.1686714	614 0.1430182	614 0.4044622
614.1 0.1473134	614.1 0.1273026	614.1 0.3528448
614.2 0.1105392	614.2 0.1462202	614.2 0.285007
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615 0.128103	615 0.1159469	615 0.3140317
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615.9 0.1352942	615.9 0.1217153	615.9 0.352549
616 0.1185751	616 0.1327907	616 0.3693008
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616.2 0.1085156	616.2 0.1119089	616.2 0.4171968
616.3 0.1052567	616.3 0.1060419	616.3 0.3127243
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617.4 0.1074093	617.4 0.1287108	617.4 0.3637832
617.5 0.1003555	617.5 0.131098	617.5 0.3188621
617.6 0.1112509	617.6 0.1530548	617.6 0.3639943
617.7 0.1172996	617.7 0.1419073	617.7 0.3269318
617.8 0.1316544	617.8 0.1315345	617.8 0.2842539
617.9 0.0928009	617.9 0.1269815	617.9 0.3351551
618 0.1732081	618 0.1421542	618 0.3099588
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618.2 0.1708115	618.2 0.1512271	618.2 0.2958721
618.3 0.1299917	618.3 0.1420818	618.3 0.2960976
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619.2 0.1159904	619.2 0.1159548	619.2 0.2965277
619.3 0.160189	619.3 0.1259764	619.3 0.3017152
619.4 0.0962914	619.4 0.132316	619.4 0.263442
619.5 0.116597	619.5 0.125984	619.5 0.2795581
619.6 0.1096881	619.6 0.1100403	619.6 0.2579954
619.7 0.1273328	619.7 0.1252906	619.7 0.3306931
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620 0.1576782	620 0.1332172	620 0.2679278
620.1 0.1125201	620.1 0.1531852	620.1 0.3480801
620.2 0.1068424	620.2 0.1145737	620.2 0.3389204
620.3 0.1161328	620.3 0.1182223	620.3 0.3778277
620.4 0.1189708	620.4 0.1330016	620.4 0.4030418
620.5 0.0980023	620.5 0.1220569	620.5 0.3963827
620.6 0.1284782	620.6 0.1113309	620.6 0.2614016
620.7 0.1160263	620.7 0.0995347	620.7 0.2629171
620.8 0.1148385	620.8 0.099863	620.8 0.270009
620.9 0.1115619	620.9 0.1297385	620.9 0.2712567
621 0.1479183	621 0.1334601	621 0.2608417
621.1 0.1071262	621.1 0.1145449	621.1 0.2595569
621.2 0.1129093	621.2 0.1212172	621.2 0.2685139
621.3 0.1077095	621.3 0.1170464	621.3 0.2820881
621.4 0.1999908	621.4 0.112303	621.4 0.3213944
621.5 0.142842	621.5 0.1514378	621.5 0.2800907
621.6 0.1297557	621.6 0.1477065	621.6 0.4373377
621.7 0.0994609	621.7 0.1329466	621.7 0.3647428
621.8 0.1178219	621.8 0.1241312	621.8 0.3512491
621.9 0.0973639	621.9 0.1260024	621.9 0.2754003
622 0.1124156	622 0.1273005	622 0.2486898

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622.2 0.1218224	622.2 0.1341811	622.2 0.2964884
622.3 0.1325999	622.3 0.1208544	622.3 0.2958083
622.4 0.1847157	622.4 0.1299618	622.4 0.2916291
622.5 0.1264753	622.5 0.1127213	622.5 0.4029849
622.6 0.1363911	622.6 0.1305157	622.6 0.318035
622.7 0.1036376	622.7 0.1474637	622.7 0.2868374
622.8 0.1130308	622.8 0.1261209	622.8 0.3069069
622.9 0.121691	622.9 0.1548087	622.9 0.2912612
623 0.1223818	623 0.1414569	623 0.3254424
623.1 0.109939	623.1 0.09947	623.1 0.3499115
623.2 0.1100115	623.2 0.0941593	623.2 0.3505551
623.3 0.1268556	623.3 0.1212072	623.3 0.3678473
623.4 0.1414896	623.4 0.1237686	623.4 0.3276068
623.5 0.1473838	623.5 0.1340628	623.5 0.4055755
623.6 0.1631431	623.6 0.1417407	623.6 0.3205843
623.7 0.1367749	623.7 0.115711	623.7 0.3212484
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623.9 0.1499421	623.9 0.1532616	623.9 0.329486
624 0.1329778	624 0.13354	624 0.3534734
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624.2 0.1141033	624.2 0.1346968	624.2 0.3562103
624.3 0.1218996	624.3 0.1450723	624.3 0.3524381
624.4 0.1602951	624.4 0.1143982	624.4 0.4353865
624.5 0.1748981	624.5 0.1232018	624.5 0.3842621
624.6 0.1642202	624.6 0.1194506	624.6 0.3701567
624.7 0.1599571	624.7 0.1115774	624.7 0.3799167
624.8 0.1186413	624.8 0.1606259	624.8 0.414537
624.9 0.1108252	624.9 0.1380112	624.9 0.4728437
625 0.1140663	625 0.1489283	625 0.3596149
625.1 0.0904566	625.1 0.1661062	625.1 0.4420903
625.2 0.1202911	625.2 0.1496055	625.2 0.4867442
625.3 0.1543105	625.3 0.118516	625.3 0.372386
625.4 0.1158316	625.4 0.137631	625.4 0.3704253
625.5 0.1879728	625.5 0.134135	625.5 0.2946577
625.6 0.1177219	625.6 0.1215264	625.6 0.3468678
625.7 0.1148328	625.7 0.1537241	625.7 0.3277004
625.8 0.1927758	625.8 0.1125022	625.8 0.3360979
625.9 0.1323216	625.9 0.1440507	625.9 0.4158895
626 0.1349921	626 0.1402137	626 0.4127647
626.1 0.1294347	626.1 0.1487585	626.1 0.4065326
626.2 0.1763752	626.2 0.1449392	626.2 0.4500805
626.3 0.1763865	626.3 0.1490766	626.3 0.3888974
626.4 0.1403222	626.4 0.1489911	626.4 0.3836608
626.5 0.126302	626.5 0.1329061	626.5 0.358395
626.6 0.1454802	626.6 0.1248265	626.6 0.4641784
626.7 0.1828114	626.7 0.146345	626.7 0.4428281
626.8 0.1212014	626.8 0.1373054	626.8 0.3613178
626.9 0.1227504	626.9 0.1279653	626.9 0.3029021
627 0.1251269	627 0.1270141	627 0.3032457
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627.2 0.2262434	627.2 0.1614606	627.2 0.2894128
627.3 0.1837811	627.3 0.1156559	627.3 0.3267033
627.4 0.2160783	627.4 0.1111924	627.4 0.3550677
627.5 0.3294465	627.5 0.1341838	627.5 0.5232896
627.6 0.2370042	627.6 0.1264326	627.6 0.3446945
627.7 0.2227309	627.7 0.1180834	627.7 0.3621692
627.8 0.2180809	627.8 0.1368181	627.8 0.3732506
627.9 0.1980847	627.9 0.117307	627.9 0.3754883
628 0.1675584	628 0.1148942	628 0.4125808
628.1 0.2306807	628.1 0.1366705	628.1 0.395342
628.2 0.2056252	628.2 0.1139272	628.2 0.2738906
628.3 0.1904175	628.3 0.1152833	628.3 0.2656431
628.4 0.1550756	628.4 0.1120389	628.4 0.2842678
628.5 0.2151594	628.5 0.1198989	628.5 0.2872459
628.6 0.2165232	628.6 0.111583	628.6 0.2565584
628.7 0.2076311	628.7 0.1192124	628.7 0.3000838
628.8 0.2378286	628.8 0.1513697	628.8 0.2633622
628.9 0.2365789	628.9 0.1573404	628.9 0.2418197
629 0.2923615	629 0.1515791	629 0.3084801
629.1 0.1773171	629.1 0.1288431	629.1 0.3489029
629.2 0.1296818	629.2 0.1383134	629.2 0.3346605
629.3 0.1687326	629.3 0.1395756	629.3 0.3081691
629.4 0.215507	629.4 0.1346356	629.4 0.2670275
629.5 0.1328487	629.5 0.1325072	629.5 0.3652855
629.6 0.1117139	629.6 0.1392256	629.6 0.3506941
629.7 0.1148916	629.7 0.1343182	629.7 0.3885047
629.8 0.1812993	629.8 0.1527035	629.8 0.324601
629.9 0.1598659	629.9 0.1669818	629.9 0.3352168
630 0.210748	630 0.1730181	630 0.33966
630.1 0.131644	630.1 0.1919427	630.1 0.2701513
630.2 0.1876955	630.2 0.1905094	630.2 0.2939419
630.3 0.1227302	630.3 0.1263319	630.3 0.2903423
630.4 0.1346593	630.4 0.1371671	630.4 0.2890962
630.5 0.1941817	630.5 0.1410454	630.5 0.2956107
630.6 0.206057	630.6 0.1578848	630.6 0.3438781
630.7 0.2336153	630.7 0.1445275	630.7 0.3690048
630.8 0.1274541	630.8 0.1086193	630.8 0.3658153
630.9 0.0937389	630.9 0.1470527	630.9 0.292703
631 0.1056824	631 0.1362808	631 0.2844169
631.1 0.1334783	631.1 0.1178091	631.1 0.4169528
631.2 0.1110614	631.2 0.1202091	631.2 0.3263226
631.3 0.1158112	631.3 0.1236957	631.3 0.340292
631.4 0.1272396	631.4 0.1420815	631.4 0.2617521
631.5 0.1501015	631.5 0.1209744	631.5 0.3524128
631.6 0.1512038	631.6 0.1253454	631.6 0.3964458
631.7 0.2004714	631.7 0.1326637	631.7 0.2780569
631.8 0.1118155	631.8 0.1368864	631.8 0.3292882
631.9 0.0932407	631.9 0.1314047	631.9 0.3330879
632 0.1345298	632 0.1164908	632 0.3025692
632.1 0.1010152	632.1 0.1229233	632.1 0.2622608
632.2 0.109227	632.2 0.1225083	632.2 0.2676198

632.3 0.1491731	632.3 0.1410212	632.3 0.283402
632.4 0.1121057	632.4 0.1220423	632.4 0.2681879
632.5 0.1309193	632.5 0.0970246	632.5 0.2612429
632.6 0.1251456	632.6 0.1370691	632.6 0.2674221
632.7 0.1208254	632.7 0.131666	632.7 0.2887987
632.8 0.1310303	632.8 0.0916319	632.8 0.3178359
632.9 0.0990887	632.9 0.1044158	632.9 0.3054011
633 0.1392379	633 0.1257419	633 0.3722079
633.1 0.122641	633.1 0.1279257	633.1 0.3999937
633.2 0.1081593	633.2 0.1343215	633.2 0.3823684
633.3 0.1407302	633.3 0.1177569	633.3 0.4646766
633.4 0.1149557	633.4 0.1083948	633.4 0.4432378
633.5 0.124141	633.5 0.142787	633.5 0.4366516
633.6 0.1195914	633.6 0.1152347	633.6 0.3814096
633.7 0.0982857	633.7 0.1173103	633.7 0.4257994
633.8 0.1259476	633.8 0.1262744	633.8 0.3555739
633.9 0.099585	633.9 0.1414463	633.9 0.3488472
634 0.098285	634 0.1327101	634 0.3380258
634.1 0.0878464	634.1 0.1569494	634.1 0.3674328
634.2 0.111877	634.2 0.1328605	634.2 0.3222053
634.3 0.1039696	634.3 0.1517988	634.3 0.3507765
634.4 0.0963802	634.4 0.1348732	634.4 0.30762
634.5 0.1089831	634.5 0.1354557	634.5 0.3043368
634.6 0.1182728	634.6 0.156625	634.6 0.2898591
634.7 0.1058759	634.7 0.1329957	634.7 0.2665694
634.8 0.0824053	634.8 0.1339053	634.8 0.2460015
634.9 0.1124689	634.9 0.1037707	634.9 0.2618607
635 0.1017744	635 0.1210344	635 0.3567519
635.1 0.0898172	635.1 0.1491065	635.1 0.3595372
635.2 0.1060987	635.2 0.1485479	635.2 0.3521318
635.3 0.11047	635.3 0.147968	635.3 0.3722087
635.4 0.0959984	635.4 0.1485948	635.4 0.4209368
635.5 0.1048433	635.5 0.1473551	635.5 0.417479
635.6 0.1546478	635.6 0.1406741	635.6 0.3798847
635.7 0.0925292	635.7 0.1265593	635.7 0.3983133
635.8 0.1100032	635.8 0.102977	635.8 0.2995834
635.9 0.114623	635.9 0.1303103	635.9 0.472205
636 0.1282125	636 0.1029551	636 0.3874896
636.1 0.1508424	636.1 0.1139797	636.1 0.3709107
636.2 0.1226722	636.2 0.1084686	636.2 0.3473808
636.3 0.1172469	636.3 0.1115462	636.3 0.4786507
636.4 0.0854611	636.4 0.1052256	636.4 0.3065115
636.5 0.1413959	636.5 0.1042744	636.5 0.3142401
636.6 0.093003	636.6 0.100252	636.6 0.3605444
636.7 0.1082292	636.7 0.1175015	636.7 0.3377552
636.8 0.1162842	636.8 0.1449659	636.8 0.4031143
636.9 0.1102914	636.9 0.142634	636.9 0.3740897
637 0.1280592	637 0.1605258	637 0.4315132
637.1 0.123718	637.1 0.1759171	637.1 0.3617736
637.2 0.1174408	637.2 0.1486733	637.2 0.3568051
637.3 0.127183	637.3 0.1432733	637.3 0.4542597

637.4 0.1168936	637.4 0.1300235	637.4 0.4637125
637.5 0.1110044	637.5 0.1534995	637.5 0.4760179
637.6 0.1167283	637.6 0.1518506	637.6 0.4374575
637.7 0.1073658	637.7 0.1378875	637.7 0.3338989
637.8 0.101419	637.8 0.1594638	637.8 0.4303075
637.9 0.0884523	637.9 0.1458256	637.9 0.3663678
638 0.1151074	638 0.1694308	638 0.4241127
638.1 0.0798057	638.1 0.1527786	638.1 0.3598859
638.2 0.1054329	638.2 0.1308854	638.2 0.2962347
638.3 0.0902427	638.3 0.1296032	638.3 0.3346155
638.4 0.1542416	638.4 0.1407132	638.4 0.3074468
638.5 0.0915165	638.5 0.1565137	638.5 0.3239017
638.6 0.1385112	638.6 0.1218241	638.6 0.3363265
638.7 0.1295629	638.7 0.1255465	638.7 0.2832355
638.8 0.1385258	638.8 0.1111567	638.8 0.3285076
638.9 0.1397142	638.9 0.1489924	638.9 0.3423463
639 0.1643834	639 0.1253295	639 0.4068916
639.1 0.1354654	639.1 0.1465658	639.1 0.3801573
639.2 0.1337886	639.2 0.1059255	639.2 0.4639357
639.3 0.0948915	639.3 0.127644	639.3 0.4993844
639.4 0.1190258	639.4 0.1090329	639.4 0.3674945
639.5 0.1126835	639.5 0.1154411	639.5 0.4280364
639.6 0.1264334	639.6 0.1334609	639.6 0.3504691
639.7 0.0803743	639.7 0.1412959	639.7 0.4061111
639.8 0.2041158	639.8 0.1359771	639.8 0.3725751
639.9 0.1488801	639.9 0.121769	639.9 0.3573824
640 0.113829	640 0.1296097	640 0.3897818
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640.2 0.1054202	640.2 0.158612	640.2 0.2792746
640.3 0.1385629	640.3 0.1131522	640.3 0.3051833
640.4 0.1292342	640.4 0.1182856	640.4 0.3296284
640.5 0.1392465	640.5 0.1259237	640.5 0.3408243
640.6 0.1293665	640.6 0.1123814	640.6 0.3277491
640.7 0.135905	640.7 0.1342871	640.7 0.3675582
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641 0.154262	641 0.1325615	641 0.3846927
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641.2 0.2165698	641.2 0.1377792	641.2 0.3382585
641.3 0.1136734	641.3 0.1475982	641.3 0.3121156
641.4 0.095906	641.4 0.1337598	641.4 0.3772162
641.5 0.1394689	641.5 0.1323792	641.5 0.3485365
641.6 0.1593098	641.6 0.1508404	641.6 0.4529884
641.7 0.1387652	641.7 0.1195805	641.7 0.2705491
641.8 0.1060801	641.8 0.1391963	641.8 0.3293318
641.9 0.1364735	641.9 0.1282031	641.9 0.3195247
642 0.124872	642 0.1219644	642 0.3301043
642.1 0.1755563	642.1 0.1358899	642.1 0.4217272
642.2 0.1498684	642.2 0.1668112	642.2 0.2999159
642.3 0.1488225	642.3 0.1612735	642.3 0.3039212
642.4 0.1094164	642.4 0.1536851	642.4 0.2712541

642.5 0.1364279	642.5 0.1280474	642.5 0.2721671
642.6 0.1337423	642.6 0.1214493	642.6 0.2718509
642.7 0.1226018	642.7 0.154811	642.7 0.2774328
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642.9 0.165713	642.9 0.1343574	642.9 0.3334706
643 0.1524604	643 0.1151586	643 0.3948915
643.1 0.1351694	643.1 0.1413341	643.1 0.3558069
643.2 0.0978175	643.2 0.1306612	643.2 0.3436951
643.3 0.0981286	643.3 0.1419885	643.3 0.3744096
643.4 0.0861662	643.4 0.1397528	643.4 0.4060464
643.5 0.1062458	643.5 0.1545169	643.5 0.3736244
643.6 0.0897229	643.6 0.1426416	643.6 0.3395834
643.7 0.0970075	643.7 0.1308124	643.7 0.4065745
643.8 0.100204	643.8 0.1309568	643.8 0.4021456
643.9 0.1085641	643.9 0.1321715	643.9 0.3937759
644 0.0991605	644 0.1442905	644 0.3683141
644.1 0.1044273	644.1 0.1313205	644.1 0.3114758
644.2 0.1205718	644.2 0.1176036	644.2 0.4081776
644.3 0.130401	644.3 0.1256926	644.3 0.3143153
644.4 0.1154415	644.4 0.1282555	644.4 0.3519078
644.5 0.1046118	644.5 0.1413893	644.5 0.4231283
644.6 0.1216533	644.6 0.1207858	644.6 0.5071774
644.7 0.0966227	644.7 0.1246073	644.7 0.4227482
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645 0.1158864	645 0.1455368	645 0.405914
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645.5 0.110354	645.5 0.18592	645.5 0.4521013
645.6 0.1310786	645.6 0.1909633	645.6 0.3688425
645.7 0.1153216	645.7 0.1998921	645.7 0.3556115
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645.9 0.1203549	645.9 0.2076072	645.9 0.3435702
646 0.1065858	646 0.239776	646 0.3679996
646.1 0.1019205	646.1 0.2058218	646.1 0.3461066
646.2 0.1088395	646.2 0.2038351	646.2 0.4077497
646.3 0.1757474	646.3 0.2059996	646.3 0.3676625
646.4 0.0967179	646.4 0.1802945	646.4 0.3730854
646.5 0.101131	646.5 0.2261785	646.5 0.3881132
646.6 0.0976211	646.6 0.1857216	646.6 0.5229834
646.7 0.0913633	646.7 0.198814	646.7 0.4286575
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647 0.1417123	647 0.1708166	647 0.4081657
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647.2 0.1781243	647.2 0.2168684	647.2 0.3523653
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647.9 0.1276731	647.9 0.196674	647.9 0.3980147
648 0.1338909	648 0.1674488	648 0.3714159
648.1 0.1166319	648.1 0.1726051	648.1 0.3320422
648.2 0.1173573	648.2 0.170106	648.2 0.3313468
648.3 0.1245312	648.3 0.1617022	648.3 0.4148838
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648.5 0.0929998	648.5 0.1616285	648.5 0.3789635
648.6 0.1113779	648.6 0.1541986	648.6 0.3009798
648.7 0.1075052	648.7 0.1317296	648.7 0.2661829
648.8 0.1332863	648.8 0.1741288	648.8 0.3041416
648.9 0.1073254	648.9 0.132971	648.9 0.2643372
649 0.0861822	649 0.1567442	649 0.2691936
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649.2 0.1161959	649.2 0.1649719	649.2 0.3165857
649.3 0.1332381	649.3 0.1736467	649.3 0.2998458
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649.5 0.1151338	649.5 0.1509816	649.5 0.2795731
649.6 0.1116694	649.6 0.1615639	649.6 0.2865979
649.7 0.1152159	649.7 0.172067	649.7 0.2994934
649.8 0.1029142	649.8 0.1659459	649.8 0.3102485
649.9 0.1131885	649.9 0.161489	649.9 0.2988466
650 0.095592	650 0.1726821	650 0.2833849
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650.2 0.1068288	650.2 0.183496	650.2 0.2768095
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650.5 0.1071707	650.5 0.185676	650.5 0.3353951
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650.7 0.1198712	650.7 0.2170845	650.7 0.3586303
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651 0.0985214	651 0.1669608	651 0.3171917
651.1 0.1311539	651.1 0.1315155	651.1 0.3226777
651.2 0.1627206	651.2 0.1636905	651.2 0.2971579
651.3 0.1538585	651.3 0.1772123	651.3 0.3095587
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651.7 0.1520941	651.7 0.1278471	651.7 0.3102521
651.8 0.1533331	651.8 0.1434448	651.8 0.3825258
651.9 0.1846517	651.9 0.1550397	651.9 0.3906474
652 0.1168897	652 0.1495966	652 0.3927155
652.1 0.124877	652.1 0.1248174	652.1 0.4238753
652.2 0.1529617	652.2 0.1764245	652.2 0.4390019
652.3 0.1659086	652.3 0.1685181	652.3 0.3138581
652.4 0.1143115	652.4 0.1439673	652.4 0.3746643
652.5 0.1860792	652.5 0.1645183	652.5 0.4326612
652.6 0.1154366	652.6 0.1635409	652.6 0.3308987

652.7	0.126442	652.7	0.1591919	652.7	0.3048915
652.8	0.142493	652.8	0.1765934	652.8	0.378518
652.9	0.1145895	652.9	0.1572987	652.9	0.2878978
653	0.1095425	653	0.179669	653	0.3127361
653.1	0.1121895	653.1	0.1607138	653.1	0.2961484
653.2	0.113354	653.2	0.1481193	653.2	0.291254
653.3	0.1122443	653.3	0.1812111	653.3	0.3575655
653.4	0.1051036	653.4	0.188589	653.4	0.3261253
653.5	0.1219107	653.5	0.1672363	653.5	0.344401
653.6	0.1338156	653.6	0.1820548	653.6	0.3082921
653.7	0.1201779	653.7	0.174733	653.7	0.2867386
653.8	0.1238239	653.8	0.1819303	653.8	0.331919
653.9	0.1835839	653.9	0.1517196	653.9	0.3581085
654	0.1841487	654	0.1601902	654	0.3637311
654.1	0.1390305	654.1	0.1582109	654.1	0.3469138
654.2	0.1521475	654.2	0.1424784	654.2	0.3426685
654.3	0.1268361	654.3	0.2239365	654.3	0.2717633
654.4	0.1635792	654.4	0.1943029	654.4	0.2857995
654.5	0.2060259	654.5	0.1732373	654.5	0.3310566
654.6	0.1704194	654.6	0.155985	654.6	0.291026
654.7	0.107971	654.7	0.1906274	654.7	0.32258
654.8	0.149298	654.8	0.1847063	654.8	0.3100174
654.9	0.1136035	654.9	0.2022302	654.9	0.2862206
655	0.1222816	655	0.1878089	655	0.2695789
655.1	0.110491	655.1	0.1712313	655.1	0.2679998
655.2	0.1377769	655.2	0.1547779	655.2	0.3595174
655.3	0.1263228	655.3	0.1676962	655.3	0.2872283
655.4	0.1730155	655.4	0.1871981	655.4	0.3594701
655.5	0.1247013	655.5	0.1750258	655.5	0.3405721
655.6	0.1736999	655.6	0.1632002	655.6	0.3879924
655.7	0.2315537	655.7	0.1277473	655.7	0.3014452
655.8	0.3021384	655.8	0.1470181	655.8	0.3372446
655.9	0.1527172	655.9	0.1290323	655.9	0.3610029
656	0.1866399	656	0.1412085	656	0.3625177
656.1	0.1745301	656.1	0.1422806	656.1	0.3021908
656.2	0.2661464	656.2	0.1852205	656.2	0.3089236
656.3	0.243639	656.3	0.1461968	656.3	0.3031825
656.4	0.1668511	656.4	0.1128063	656.4	0.2791591
656.5	0.1918486	656.5	0.1516283	656.5	0.2956727
656.6	0.2743994	656.6	0.1390299	656.6	0.2834659
656.7	0.1894054	656.7	0.1454927	656.7	0.3605272
656.8	0.1877299	656.8	0.1337607	656.8	0.2883631
656.9	0.1368133	656.9	0.1480498	656.9	0.3199205
657	0.2108591	657	0.1605145	657	0.31306
657.1	0.2252201	657.1	0.1539999	657.1	0.3482314
657.2	0.1892993	657.2	0.1489073	657.2	0.4118488
657.3	0.1995502	657.3	0.1290113	657.3	0.3237316
657.4	0.1762868	657.4	0.1748239	657.4	0.3670693
657.5	0.16915	657.5	0.2009464	657.5	0.29466
657.6	0.1214936	657.6	0.158381	657.6	0.370564
657.7	0.1582595	657.7	0.1662654	657.7	0.3361247

657.8 0.1619954	657.8 0.1267446	657.8 0.3231694
657.9 0.2223796	657.9 0.1130656	657.9 0.2890039
658 0.1600952	658 0.1225511	658 0.2816432
658.1 0.145561	658.1 0.1785284	658.1 0.3013894
658.2 0.1975736	658.2 0.1709708	658.2 0.2940086
658.3 0.122478	658.3 0.1544385	658.3 0.3456638
658.4 0.1931942	658.4 0.1471923	658.4 0.3093951
658.5 0.178489	658.5 0.1827543	658.5 0.2948477
658.6 0.1643706	658.6 0.200571	658.6 0.3361995
658.7 0.1113122	658.7 0.2044801	658.7 0.2725696
658.8 0.143438	658.8 0.2198103	658.8 0.2967087
658.9 0.1183066	658.9 0.2090973	658.9 0.3237263
659 0.1885004	659 0.1903197	659 0.2584301
659.1 0.1244846	659.1 0.1567006	659.1 0.2807744
659.2 0.1256389	659.2 0.1511067	659.2 0.2586166
659.3 0.1368663	659.3 0.1674168	659.3 0.236462
659.4 0.1422674	659.4 0.1360014	659.4 0.2620782
659.5 0.1909401	659.5 0.1236022	659.5 0.2592564
659.6 0.1502138	659.6 0.1248247	659.6 0.2477932
659.7 0.1107146	659.7 0.1388275	659.7 0.2444868
659.8 0.1149574	659.8 0.1302182	659.8 0.2900231
659.9 0.1012207	659.9 0.1311804	659.9 0.28202
660 0.0891986	660 0.1305455	660 0.3470962
660.1 0.1264007	660.1 0.1048176	660.1 0.2787193
660.2 0.1373311	660.2 0.1791115	660.2 0.2913544
660.3 0.1954398	660.3 0.1299763	660.3 0.2834452
660.4 0.2261332	660.4 0.1488782	660.4 0.2559655
660.5 0.2810749	660.5 0.1528574	660.5 0.2890914
660.6 0.2089542	660.6 0.1200799	660.6 0.286583
660.7 0.2624554	660.7 0.1194033	660.7 0.3217362
660.8 0.1224711	660.8 0.1197642	660.8 0.3081514
660.9 0.2607261	660.9 0.1334118	660.9 0.3654968
661 0.2035338	661 0.1331683	661 0.3068292
661.1 0.1987105	661.1 0.1360501	661.1 0.3068511
661.2 0.1844152	661.2 0.1644863	661.2 0.2855158
661.3 0.1682587	661.3 0.149641	661.3 0.3325301
661.4 0.1416309	661.4 0.1320067	661.4 0.3545127
661.5 0.1389605	661.5 0.1416755	661.5 0.3321902
661.6 0.1286604	661.6 0.1085233	661.6 0.3368409
661.7 0.1422846	661.7 0.1433986	661.7 0.3245845
661.8 0.2679471	661.8 0.1248009	661.8 0.2675576
661.9 0.1703245	661.9 0.147348	661.9 0.3972848
662 0.1873419	662 0.1539664	662 0.3855858
662.1 0.1670109	662.1 0.1844165	662.1 0.3916544
662.2 0.1487159	662.2 0.1726159	662.2 0.3862155
662.3 0.218817	662.3 0.1428096	662.3 0.3684404
662.4 0.1653552	662.4 0.1259711	662.4 0.4282645
662.5 0.1612163	662.5 0.1497384	662.5 0.3223309
662.6 0.1702642	662.6 0.124547	662.6 0.3129087
662.7 0.1863221	662.7 0.1350732	662.7 0.4030855
662.8 0.1788488	662.8 0.1415599	662.8 0.2598082

662.9 0.1836568	662.9 0.1368445	662.9 0.3202671
663 0.1567019	663 0.1648407	663 0.3263246
663.1 0.157049	663.1 0.1765383	663.1 0.271362
663.2 0.1300083	663.2 0.1682973	663.2 0.283437
663.3 0.1292469	663.3 0.1729992	663.3 0.2756747
663.4 0.1324898	663.4 0.1330457	663.4 0.2553828
663.5 0.153241	663.5 0.1618283	663.5 0.2570868
663.6 0.15222	663.6 0.1428713	663.6 0.2733659
663.7 0.1363773	663.7 0.1389497	663.7 0.2474076
663.8 0.1452396	663.8 0.1543626	663.8 0.2755523
663.9 0.1343273	663.9 0.178275	663.9 0.2429817
664 0.213327	664 0.1883105	664 0.2759607
664.1 0.1918333	664.1 0.1368428	664.1 0.3063946
664.2 0.1930837	664.2 0.1418813	664.2 0.2811649
664.3 0.1599358	664.3 0.1461387	664.3 0.3093439
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664.5 0.1350474	664.5 0.1592245	664.5 0.3063822
664.6 0.157292	664.6 0.1806487	664.6 0.3431043
664.7 0.1580848	664.7 0.1659147	664.7 0.2754248
664.8 0.1284018	664.8 0.1707041	664.8 0.2859514
664.9 0.1469597	664.9 0.1713169	664.9 0.3141527
665 0.1420254	665 0.1650142	665 0.4062278
665.1 0.1229022	665.1 0.1911917	665.1 0.3556701
665.2 0.1302861	665.2 0.1888197	665.2 0.3343516
665.3 0.1374176	665.3 0.1816232	665.3 0.2790315
665.4 0.2259833	665.4 0.1831245	665.4 0.3486329
665.5 0.169755	665.5 0.1451343	665.5 0.3348203
665.6 0.1528477	665.6 0.1674235	665.6 0.3451608
665.7 0.1951764	665.7 0.1786715	665.7 0.2833734
665.8 0.146895	665.8 0.1770701	665.8 0.3074642
665.9 0.1247129	665.9 0.1796643	665.9 0.3016206
666 0.1545847	666 0.1679076	666 0.2935989
666.1 0.1411769	666.1 0.2023181	666.1 0.3107331
666.2 0.1205632	666.2 0.1849064	666.2 0.3292723
666.3 0.118572	666.3 0.1735831	666.3 0.3877672
666.4 0.1299883	666.4 0.163087	666.4 0.3247732
666.5 0.1104472	666.5 0.1728994	666.5 0.3425029
666.6 0.1189524	666.6 0.1725429	666.6 0.377149
666.7 0.1103395	666.7 0.1878995	666.7 0.3927395
666.8 0.1447	666.8 0.1506478	666.8 0.3522632
666.9 0.1272045	666.9 0.1546276	666.9 0.2974478
667 0.1330022	667 0.1601434	667 0.386286
667.1 0.1137898	667.1 0.1719155	667.1 0.2732991
667.2 0.1198982	667.2 0.1887608	667.2 0.3019994
667.3 0.0967159	667.3 0.1720413	667.3 0.2868191
667.4 0.108488	667.4 0.1836791	667.4 0.3182814
667.5 0.1454959	667.5 0.1642176	667.5 0.2545821
667.6 0.2420472	667.6 0.1465077	667.6 0.266902
667.7 0.2071252	667.7 0.1641349	667.7 0.2647938
667.8 0.3614541	667.8 0.1493378	667.8 0.3507293
667.9 0.2455255	667.9 0.1766716	667.9 0.266785

668 0.2165037	668 0.1724577	668 0.2575634
668.1 0.2139089	668.1 0.1879134	668.1 0.3004555
668.2 0.1306699	668.2 0.144158	668.2 0.257639
668.3 0.1654784	668.3 0.1567897	668.3 0.2637554
668.4 0.2810523	668.4 0.1649055	668.4 0.2797042
668.5 0.2575129	668.5 0.1490213	668.5 0.2586523
668.6 0.1116137	668.6 0.1752695	668.6 0.3267546
668.7 0.1548244	668.7 0.1423035	668.7 0.2909726
668.8 0.1349287	668.8 0.1597188	668.8 0.3141822
668.9 0.1360964	668.9 0.1689645	668.9 0.2934461
669 0.1639331	669 0.1766794	669 0.2743881
669.1 0.1056811	669.1 0.2066573	669.1 0.3144748
669.2 0.1349893	669.2 0.1895445	669.2 0.2876726
669.3 0.1395283	669.3 0.1546581	669.3 0.2656746
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670 0.1250927	670 0.1175739	670 0.2892254
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670.2 0.1678084	670.2 0.1553922	670.2 0.2896387
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670.5 0.1354247	670.5 0.1775624	670.5 0.4453377
670.6 0.1422081	670.6 0.1748735	670.6 0.3896855
670.7 0.1303349	670.7 0.1886095	670.7 0.2926746
670.8 0.1265298	670.8 0.1627486	670.8 0.2935561
670.9 0.1016303	670.9 0.1700616	670.9 0.2530147
671 0.1184456	671 0.1862196	671 0.2636879
671.1 0.117285	671.1 0.183545	671.1 0.2386466
671.2 0.145789	671.2 0.1868104	671.2 0.3677533
671.3 0.1293863	671.3 0.135627	671.3 0.2762794
671.4 0.1235814	671.4 0.1692793	671.4 0.3533025
671.5 0.1177428	671.5 0.1256898	671.5 0.2783198
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671.7 0.1526636	671.7 0.1542177	671.7 0.2703915
671.8 0.1210043	671.8 0.1476476	671.8 0.2809953
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672 0.1260899	672 0.1615274	672 0.2801961
672.1 0.1281941	672.1 0.140142	672.1 0.3260283
672.2 0.1636193	672.2 0.1293432	672.2 0.2978333
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672.4 0.1704352	672.4 0.1614737	672.4 0.26068
672.5 0.0961993	672.5 0.1525992	672.5 0.2514725
672.6 0.1333542	672.6 0.1464023	672.6 0.2444227
672.7 0.2023458	672.7 0.117159	672.7 0.2782845
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672.9 0.2095581	672.9 0.1331066	672.9 0.2751451
673 0.1941972	673 0.1504315	673 0.3032686

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673.2 0.2020009	673.2 0.1203269	673.2 0.271892
673.3 0.206859	673.3 0.1177189	673.3 0.2485563
673.4 0.1886516	673.4 0.1336199	673.4 0.3010343
673.5 0.1790324	673.5 0.1362761	673.5 0.275507
673.6 0.1527249	673.6 0.1421437	673.6 0.3130445
673.7 0.1332109	673.7 0.1338672	673.7 0.3504813
673.8 0.1315243	673.8 0.1407189	673.8 0.2827893
673.9 0.1587247	673.9 0.1407302	673.9 0.389826
674 0.1435864	674 0.1448515	674 0.3653213
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674.2 0.1883651	674.2 0.1417541	674.2 0.4072343
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674.6 0.1426894	674.6 0.1237312	674.6 0.2624186
674.7 0.133398	674.7 0.1100512	674.7 0.2423234
674.8 0.146584	674.8 0.1463914	674.8 0.2976494
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675.2 0.1937474	675.2 0.1126673	675.2 0.2878232
675.3 0.1806766	675.3 0.1216642	675.3 0.2977682
675.4 0.166237	675.4 0.1404507	675.4 0.2788018
675.5 0.1550772	675.5 0.14396	675.5 0.3094084
675.6 0.1708181	675.6 0.1227598	675.6 0.2731833
675.7 0.1863663	675.7 0.1254727	675.7 0.2681074
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676 0.1689463	676 0.1446553	676 0.2536089
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676.2 0.1687402	676.2 0.126101	676.2 0.3086529
676.3 0.1674183	676.3 0.1346758	676.3 0.3170478
676.4 0.1678748	676.4 0.143795	676.4 0.3608035
676.5 0.2071145	676.5 0.1269536	676.5 0.4055919
676.6 0.1530643	676.6 0.1319969	676.6 0.3950383
676.7 0.1564228	676.7 0.153741	676.7 0.3329942
676.8 0.1371274	676.8 0.1273497	676.8 0.3576643
676.9 0.1570913	676.9 0.1019986	676.9 0.4257655
677 0.1479339	677 0.118854	677 0.3339399
677.1 0.1705125	677.1 0.1196763	677.1 0.3113072
677.2 0.1751212	677.2 0.1018923	677.2 0.3309932
677.3 0.1531483	677.3 0.1179063	677.3 0.310904
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677.5 0.1682475	677.5 0.1244543	677.5 0.3328175
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677.8 0.1361776	677.8 0.1452736	677.8 0.3035084
677.9 0.1417186	677.9 0.1528773	677.9 0.2722098
678 0.146637	678 0.1414445	678 0.3234431
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678.5 0.1763285	678.5 0.1056001	678.5 0.2927319
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678.7 0.1563672	678.7 0.1119104	678.7 0.2783811
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679 0.1426054	679 0.1361618	679 0.2689894
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679.2 0.1582229	679.2 0.1359777	679.2 0.289124
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679.5 0.1271482	679.5 0.1052603	679.5 0.3047543
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679.7 0.1330122	679.7 0.1121815	679.7 0.3122235
679.8 0.1242642	679.8 0.1061787	679.8 0.2834892
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680 0.1458486	680 0.1222836	680 0.3164043
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681.7 0.1253199	681.7 0.177515	681.7 0.3334713
681.8 0.1160682	681.8 0.1477719	681.8 0.3762881
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682 0.1821712	682 0.1379305	682 0.3313434
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682.2 0.1564399	682.2 0.127361	682.2 0.3065495
682.3 0.1739661	682.3 0.1265726	682.3 0.3782988
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682.5 0.1714952	682.5 0.1325336	682.5 0.2868437
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682.7 0.1299302	682.7 0.1435306	682.7 0.26408
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682.9 0.1424309	682.9 0.0948551	682.9 0.3158369
683 0.1492859	683 0.1358314	683 0.2954229
683.1 0.1140461	683.1 0.1262548	683.1 0.2659102
683.2 0.1398636	683.2 0.0920002	683.2 0.3085322

683.3 0.1197772	683.3 0.0924871	683.3 0.3094341
683.4 0.1517964	683.4 0.1308783	683.4 0.3474865
683.5 0.1267782	683.5 0.1084452	683.5 0.271976
683.6 0.1259066	683.6 0.1005131	683.6 0.2620855
683.7 0.1238974	683.7 0.0999918	683.7 0.2778898
683.8 0.118496	683.8 0.1183596	683.8 0.2795535
683.9 0.1644665	683.9 0.1249662	683.9 0.2508518
684 0.2675774	684 0.128355	684 0.2857495
684.1 0.2369339	684.1 0.1783018	684.1 0.2776778
684.2 0.2399374	684.2 0.1239579	684.2 0.3026786
684.3 0.2893549	684.3 0.1300985	684.3 0.279934
684.4 0.1157077	684.4 0.1125985	684.4 0.3468091
684.5 0.1443022	684.5 0.1066829	684.5 0.3074391
684.6 0.2533762	684.6 0.1289037	684.6 0.2794907
684.7 0.2282606	684.7 0.0992482	684.7 0.3218758
684.8 0.1837577	684.8 0.1103123	684.8 0.3044733
684.9 0.2365995	684.9 0.1259715	684.9 0.3065024
685 0.2901472	685 0.1245929	685 0.2965329
685.1 0.1756532	685.1 0.1191847	685.1 0.2929732
685.2 0.2379035	685.2 0.1208295	685.2 0.2878643
685.3 0.2083584	685.3 0.1295295	685.3 0.2405901
685.4 0.2150652	685.4 0.125991	685.4 0.281447
685.5 0.1727161	685.5 0.1418057	685.5 0.3005156
685.6 0.1445656	685.6 0.1136431	685.6 0.3073674
685.7 0.1961739	685.7 0.109158	685.7 0.3089621
685.8 0.1790712	685.8 0.1281406	685.8 0.3415354
685.9 0.1261467	685.9 0.1313229	685.9 0.3340938
686 0.125379	686 0.1113411	686 0.3760774
686.1 0.1318825	686.1 0.1041946	686.1 0.3863745
686.2 0.1465957	686.2 0.1203474	686.2 0.3038327
686.3 0.1494485	686.3 0.1349391	686.3 0.2872306
686.4 0.1901497	686.4 0.1258728	686.4 0.2900272
686.5 0.1758937	686.5 0.1362642	686.5 0.2898064
686.6 0.1569344	686.6 0.136103	686.6 0.3434196
686.7 0.1238667	686.7 0.154698	686.7 0.3144865
686.8 0.1308845	686.8 0.1428375	686.8 0.3207414
686.9 0.1108166	686.9 0.1573419	686.9 0.3289607
687 0.1218994	687 0.1476468	687 0.3082142
687.1 0.1258452	687.1 0.1444377	687.1 0.2993057
687.2 0.1159634	687.2 0.1176403	687.2 0.3033346
687.3 0.1413922	687.3 0.1396699	687.3 0.3363199
687.4 0.1617017	687.4 0.1458754	687.4 0.3097662
687.5 0.2104496	687.5 0.1326222	687.5 0.3060044
687.6 0.198354	687.6 0.1114162	687.6 0.3368984
687.7 0.2912365	687.7 0.1124398	687.7 0.3643919
687.8 0.3185071	687.8 0.1015452	687.8 0.3207282
687.9 0.3800991	687.9 0.1044746	687.9 0.3059925
688 0.2888726	688 0.1042876	688 0.3289641
688.1 0.3134537	688.1 0.0759248	688.1 0.3229531
688.2 0.2899191	688.2 0.0917888	688.2 0.259784
688.3 0.318976	688.3 0.0893611	688.3 0.2593942

688.4 0.2934555	688.4 0.0980486	688.4 0.267814
688.5 0.3261495	688.5 0.0741291	688.5 0.3091127
688.6 0.4077646	688.6 0.1090356	688.6 0.3052235
688.7 0.3441818	688.7 0.1174007	688.7 0.2963422
688.8 0.4082052	688.8 0.1110641	688.8 0.3304385
688.9 0.4070242	688.9 0.1244197	688.9 0.2553449
689 0.3821477	689 0.1058365	689 0.2660975
689.1 0.3192273	689.1 0.1316543	689.1 0.2740305
689.2 0.3652219	689.2 0.1306939	689.2 0.261271
689.3 0.3506559	689.3 0.1481308	689.3 0.3009747
689.4 0.3255433	689.4 0.1274147	689.4 0.2605641
689.5 0.3476552	689.5 0.1367908	689.5 0.3359622
689.6 0.376504	689.6 0.1273077	689.6 0.3596035
689.7 0.2920765	689.7 0.1440297	689.7 0.3203298
689.8 0.2196776	689.8 0.136858	689.8 0.379874
689.9 0.254342	689.9 0.1336219	689.9 0.3904741
690 0.2488227	690 0.1230663	690 0.4013954
690.1 0.2719399	690.1 0.1195197	690.1 0.4010869
690.2 0.2713076	690.2 0.1287383	690.2 0.4215631
690.3 0.3439929	690.3 0.1402683	690.3 0.3479596
690.4 0.3731124	690.4 0.0865465	690.4 0.2910683
690.5 0.3881997	690.5 0.0983402	690.5 0.2822994
690.6 0.36641	690.6 0.0975997	690.6 0.315135
690.7 0.2973895	690.7 0.1106311	690.7 0.3178901
690.8 0.2951628	690.8 0.1111962	690.8 0.2674875
690.9 0.3246377	690.9 0.1056262	690.9 0.3034346
691 0.3429201	691 0.175448	691 0.3088722
691.1 0.3068746	691.1 0.1452179	691.1 0.3282174
691.2 0.2970538	691.2 0.13802	691.2 0.3445396
691.3 0.2794845	691.3 0.1495153	691.3 0.2870506
691.4 0.3071728	691.4 0.1166933	691.4 0.3290058
691.5 0.304305	691.5 0.1263182	691.5 0.3159194
691.6 0.3177156	691.6 0.1350355	691.6 0.2947753
691.7 0.2902193	691.7 0.1346118	691.7 0.3918841
691.8 0.2740276	691.8 0.1395002	691.8 0.3502904
691.9 0.2744596	691.9 0.1401826	691.9 0.3440937
692 0.3283554	692 0.1432686	692 0.3557235
692.1 0.284584	692.1 0.1214667	692.1 0.3103026
692.2 0.2757013	692.2 0.1328367	692.2 0.2959961
692.3 0.2186566	692.3 0.1316742	692.3 0.2961453
692.4 0.1728645	692.4 0.1802803	692.4 0.2812581
692.5 0.1989493	692.5 0.1500143	692.5 0.3064644
692.6 0.1526704	692.6 0.1723706	692.6 0.3665673
692.7 0.1817853	692.7 0.1317969	692.7 0.3244945
692.8 0.1701344	692.8 0.1622858	692.8 0.2877727
692.9 0.1755106	692.9 0.1496411	692.9 0.4082525
693 0.1733928	693 0.1531657	693 0.2963158
693.1 0.1980111	693.1 0.1840168	693.1 0.3303052
693.2 0.1713633	693.2 0.1272161	693.2 0.2896862
693.3 0.1942528	693.3 0.1818764	693.3 0.283062
693.4 0.2007262	693.4 0.1696208	693.4 0.2892718

693.5 0.1932355	693.5 0.1397308	693.5 0.3002123
693.6 0.201523	693.6 0.1272105	693.6 0.2859098
693.7 0.1676707	693.7 0.1599039	693.7 0.2852868
693.8 0.1839574	693.8 0.1254441	693.8 0.271974
693.9 0.212993	693.9 0.1513677	693.9 0.2660187
694 0.2133117	694 0.1404486	694 0.2812136
694.1 0.2000494	694.1 0.1498992	694.1 0.3083694
694.2 0.2097704	694.2 0.1742649	694.2 0.2991648
694.3 0.1968415	694.3 0.1449583	694.3 0.2694699
694.4 0.2186126	694.4 0.1264277	694.4 0.303155
694.5 0.2234478	694.5 0.1023589	694.5 0.2570253
694.6 0.2260197	694.6 0.1471137	694.6 0.3457921
694.7 0.2144266	694.7 0.1238157	694.7 0.3436202
694.8 0.2642421	694.8 0.1122551	694.8 0.2842221
694.9 0.2577398	694.9 0.1111358	694.9 0.2964376
695 0.2526962	695 0.10842	695 0.3467236
695.1 0.2009035	695.1 0.0963939	695.1 0.2800238
695.2 0.167659	695.2 0.1588554	695.2 0.3260463
695.3 0.1622993	695.3 0.120135	695.3 0.3007767
695.4 0.2078131	695.4 0.120131	695.4 0.3281162
695.5 0.2196484	695.5 0.1065953	695.5 0.3503717
695.6 0.2176445	695.6 0.1130263	695.6 0.3504547
695.7 0.2123132	695.7 0.1143812	695.7 0.3097553
695.8 0.2304219	695.8 0.1341941	695.8 0.3728797
695.9 0.2277818	695.9 0.1286107	695.9 0.3398697
696 0.2444737	696 0.1364844	696 0.2925057
696.1 0.2988031	696.1 0.1304624	696.1 0.3355066
696.2 0.2029798	696.2 0.1476517	696.2 0.2786996
696.3 0.173396	696.3 0.1489988	696.3 0.2919034
696.4 0.1870325	696.4 0.1122251	696.4 0.3278184
696.5 0.1877804	696.5 0.1365137	696.5 0.3318354
696.6 0.168412	696.6 0.1369342	696.6 0.3413789
696.7 0.1719338	696.7 0.124319	696.7 0.3634751
696.8 0.1875072	696.8 0.113763	696.8 0.2873666
696.9 0.197946	696.9 0.1199166	696.9 0.332296
697 0.1976269	697 0.1172112	697 0.3720868
697.1 0.1829281	697.1 0.1387995	697.1 0.3697616
697.2 0.1802887	697.2 0.129614	697.2 0.3135492
697.3 0.1651039	697.3 0.1436145	697.3 0.3122065
697.4 0.157132	697.4 0.1334409	697.4 0.3095963
697.5 0.1774586	697.5 0.1519001	697.5 0.3571905
697.6 0.2554067	697.6 0.1589375	697.6 0.3586925
697.7 0.218822	697.7 0.101171	697.7 0.347113
697.8 0.1674659	697.8 0.0932919	697.8 0.3115739
697.9 0.1910386	697.9 0.1095837	697.9 0.358598
698 0.1694467	698 0.1129794	698 0.3388944
698.1 0.1889207	698.1 0.128915	698.1 0.3469001
698.2 0.1934657	698.2 0.1101154	698.2 0.3077462
698.3 0.1801546	698.3 0.1239129	698.3 0.3381304
698.4 0.2117667	698.4 0.1026749	698.4 0.3189653
698.5 0.186586	698.5 0.1318279	698.5 0.339107

698.6	0.1720061	698.6	0.1175917	698.6	0.3244851
698.7	0.1938145	698.7	0.1210676	698.7	0.3032702
698.8	0.1811893	698.8	0.1292954	698.8	0.3350919
698.9	0.1641938	698.9	0.1228422	698.9	0.3002053
699	0.2040679	699	0.1435801	699	0.287477
699.1	0.2221396	699.1	0.1549069	699.1	0.2825335
699.2	0.2205251	699.2	0.1112987	699.2	0.2841287
699.3	0.2201457	699.3	0.1251842	699.3	0.2937479
699.4	0.2253133	699.4	0.1256724	699.4	0.3516189
699.5	0.1958784	699.5	0.1150799	699.5	0.3605359
699.6	0.20602	699.6	0.1297049	699.6	0.2966587
699.7	0.2460437	699.7	0.114268	699.7	0.3162032
699.8	0.1590122	699.8	0.1319474	699.8	0.3211679
699.9	0.1454555	699.9	0.1420842	699.9	0.3008242
700	0.1932744	700	0.1259163	700	0.2860272
700.1	0.179097	700.1	0.1279574	700.1	0.2780017
700.2	0.1590881	700.2	0.1475774	700.2	0.3075107
700.3	0.1911743	700.3	0.1380668	700.3	0.3029617
700.4	0.1889942	700.4	0.1573827	700.4	0.276028
700.5	0.2670293	700.5	0.1260205	700.5	0.2507179
700.6	0.2333282	700.6	0.1133728	700.6	0.3678034
700.7	0.2045966	700.7	0.1359977	700.7	0.3163733
700.8	0.1444227	700.8	0.136507	700.8	0.3481324
700.9	0.1672173	700.9	0.1245495	700.9	0.3368177
701	0.1663685	701	0.1052057	701	0.3930861
701.1	0.1611475	701.1	0.1125657	701.1	0.3366816
701.2	0.15959	701.2	0.1216787	701.2	0.3114598
701.3	0.2738926	701.3	0.1341355	701.3	0.3157411
701.4	0.2369979	701.4	0.131469	701.4	0.4228492
701.5	0.2261626	701.5	0.1316351	701.5	0.3048348
701.6	0.253946	701.6	0.1449975	701.6	0.2880672
701.7	0.2068488	701.7	0.1128674	701.7	0.2970337
701.8	0.1819786	701.8	0.1177624	701.8	0.3071203
701.9	0.2151397	701.9	0.1392123	701.9	0.2851228
702	0.1187462	702	0.1505535	702	0.2862721
702.1	0.1760278	702.1	0.1163949	702.1	0.3502814
702.2	0.1164702	702.2	0.1350041	702.2	0.3310932
702.3	0.1150049	702.3	0.1406893	702.3	0.313244
702.4	0.1416205	702.4	0.1391316	702.4	0.3272673
702.5	0.1599272	702.5	0.1301295	702.5	0.3610097
702.6	0.1474507	702.6	0.1481142	702.6	0.3772348
702.7	0.1805377	702.7	0.138895	702.7	0.4148947
702.8	0.149203	702.8	0.1434939	702.8	0.3805871
702.9	0.1628504	702.9	0.1547968	702.9	0.3584322
703	0.154134	703	0.1329684	703	0.3788675
703.1	0.1277776	703.1	0.1201679	703.1	0.3802723
703.2	0.1130751	703.2	0.1157656	703.2	0.3366168
703.3	0.166126	703.3	0.1286235	703.3	0.3236211
703.4	0.1612284	703.4	0.1197381	703.4	0.3484435
703.5	0.184633	703.5	0.1079667	703.5	0.2958785
703.6	0.2273522	703.6	0.1239409	703.6	0.2677557

703.7 0.1775875	703.7 0.0994949	703.7 0.2875175
703.8 0.1804519	703.8 0.1066353	703.8 0.3688057
703.9 0.1422991	703.9 0.1067578	703.9 0.3471408
704 0.1319669	704 0.1297487	704 0.3441381
704.1 0.1472891	704.1 0.0953733	704.1 0.3578878
704.2 0.2139376	704.2 0.1035329	704.2 0.3319483
704.3 0.169942	704.3 0.1266968	704.3 0.3269034
704.4 0.2376455	704.4 0.1362691	704.4 0.2843773
704.5 0.1929297	704.5 0.1496143	704.5 0.363715
704.6 0.1979365	704.6 0.1561997	704.6 0.3199828
704.7 0.1616039	704.7 0.119766	704.7 0.334815
704.8 0.1692543	704.8 0.1491716	704.8 0.3210406
704.9 0.1537993	704.9 0.1584736	704.9 0.3600522
705 0.180182	705 0.1386072	705 0.3340245
705.1 0.1897771	705.1 0.1411444	705.1 0.3505447
705.2 0.1925689	705.2 0.1386996	705.2 0.3842438
705.3 0.1618833	705.3 0.1382324	705.3 0.3277976
705.4 0.1558374	705.4 0.1607425	705.4 0.3333027
705.5 0.1618128	705.5 0.1042846	705.5 0.3596435
705.6 0.1854795	705.6 0.1201911	705.6 0.2994284
705.7 0.1601097	705.7 0.1406173	705.7 0.3574099
705.8 0.1429103	705.8 0.1350893	705.8 0.3589747
705.9 0.1583831	705.9 0.1437406	705.9 0.3468884
706 0.1918964	706 0.1207572	706 0.3283822
706.1 0.172659	706.1 0.1353461	706.1 0.3700228
706.2 0.2164963	706.2 0.1501299	706.2 0.3067017
706.3 0.1947447	706.3 0.1404484	706.3 0.3020828
706.4 0.1932272	706.4 0.1309817	706.4 0.3226742
706.5 0.2155811	706.5 0.1237178	706.5 0.2657648
706.6 0.2310844	706.6 0.1555673	706.6 0.2991104
706.7 0.1963896	706.7 0.1435776	706.7 0.3261962
706.8 0.2211118	706.8 0.1215907	706.8 0.3662208
706.9 0.2180922	706.9 0.0998817	706.9 0.341793
707 0.2103264	707 0.1148851	707 0.3951901
707.1 0.2126642	707.1 0.1123472	707.1 0.3356991
707.2 0.2207651	707.2 0.1202563	707.2 0.2842777
707.3 0.2440283	707.3 0.1270163	707.3 0.2825839
707.4 0.2257142	707.4 0.1523169	707.4 0.2873865
707.5 0.2422636	707.5 0.1219783	707.5 0.266263
707.6 0.1919895	707.6 0.1141806	707.6 0.2541356
707.7 0.1456697	707.7 0.1191453	707.7 0.2458281
707.8 0.1502523	707.8 0.1298911	707.8 0.2721454
707.9 0.184617	707.9 0.1154755	707.9 0.2412698
708 0.1437791	708 0.1292065	708 0.3089352
708.1 0.1809963	708.1 0.138413	708.1 0.2958289
708.2 0.1534135	708.2 0.1178169	708.2 0.2603558
708.3 0.1391286	708.3 0.1375711	708.3 0.240676
708.4 0.1888683	708.4 0.1197635	708.4 0.2565971
708.5 0.1620903	708.5 0.1112365	708.5 0.2559624
708.6 0.1401799	708.6 0.1179496	708.6 0.2593018
708.7 0.1385954	708.7 0.0947479	708.7 0.2780676

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708.9	0.1497667	708.9	0.1109138	708.9	0.2858204
709	0.1975048	709	0.0934907	709	0.2863791
709.1	0.172893	709.1	0.0968333	709.1	0.2686757
709.2	0.1617708	709.2	0.108169	709.2	0.3419153
709.3	0.1658762	709.3	0.1128556	709.3	0.2674009
709.4	0.158127	709.4	0.1046502	709.4	0.2718872
709.5	0.1614488	709.5	0.1179198	709.5	0.3323231
709.6	0.1720299	709.6	0.1419385	709.6	0.3421675
709.7	0.1888567	709.7	0.1043234	709.7	0.3190731
709.8	0.1202343	709.8	0.1248482	709.8	0.3247746
709.9	0.1343492	709.9	0.1251749	709.9	0.3131137
710	0.1204919	710	0.1287017	710	0.3688078
710.1	0.1178132	710.1	0.1189493	710.1	0.3951
710.2	0.1176958	710.2	0.1051854	710.2	0.2971534
710.3	0.2585167	710.3	0.122147	710.3	0.2563263
710.4	0.2550672	710.4	0.098946	710.4	0.3755342
710.5	0.3692554	710.5	0.105884	710.5	0.3416381
710.6	0.3186917	710.6	0.1095424	710.6	0.2764883
710.7	0.2714529	710.7	0.1432007	710.7	0.3390942
710.8	0.3893079	710.8	0.1341589	710.8	0.3097612
710.9	0.3584398	710.9	0.1255118	710.9	0.2873905
711	0.2467957	711	0.1108064	711	0.2422566
711.1	0.2569977	711.1	0.1152793	711.1	0.2408055
711.2	0.1600113	711.2	0.1165291	711.2	0.2628156
711.3	0.2202472	711.3	0.1361533	711.3	0.3071386
711.4	0.1195759	711.4	0.1310826	711.4	0.2729817
711.5	0.1181027	711.5	0.1252768	711.5	0.3061318
711.6	0.1392565	711.6	0.1029559	711.6	0.2915123
711.7	0.1366785	711.7	0.1227147	711.7	0.3699668
711.8	0.1342009	711.8	0.1194669	711.8	0.3100907
711.9	0.1387348	711.9	0.1302445	711.9	0.3104287
712	0.1378065	712	0.1098667	712	0.2764086
712.1	0.131361	712.1	0.1100656	712.1	0.2703521
712.2	0.1245843	712.2	0.1311861	712.2	0.2865206
712.3	0.1357754	712.3	0.1117937	712.3	0.2695505
712.4	0.1630872	712.4	0.1083328	712.4	0.3090601
712.5	0.1498153	712.5	0.1108576	712.5	0.2498136
712.6	0.136943	712.6	0.1201569	712.6	0.2506579
712.7	0.1461774	712.7	0.1198695	712.7	0.254647
712.8	0.1406131	712.8	0.1312174	712.8	0.3414439
712.9	0.1497565	712.9	0.155262	712.9	0.3188646
713	0.1335446	713	0.1366965	713	0.275117
713.1	0.1367581	713.1	0.1000675	713.1	0.2703722
713.2	0.1194382	713.2	0.125196	713.2	0.3009163
713.3	0.1390814	713.3	0.1248726	713.3	0.2754418
713.4	0.1211217	713.4	0.1279854	713.4	0.30809
713.5	0.1448484	713.5	0.1277012	713.5	0.3411224
713.6	0.1568176	713.6	0.1187238	713.6	0.4152491
713.7	0.1953668	713.7	0.1365449	713.7	0.3079882
713.8	0.1847296	713.8	0.1114451	713.8	0.3838214

713.9 0.1683289	713.9 0.1089303	713.9 0.3352402
714 0.1551825	714 0.1179774	714 0.3803389
714.1 0.2240626	714.1 0.1009505	714.1 0.2998441
714.2 0.1596047	714.2 0.0912476	714.2 0.2598865
714.3 0.1610693	714.3 0.121782	714.3 0.2655065
714.4 0.1670062	714.4 0.1013596	714.4 0.271403
714.5 0.212242	714.5 0.1271677	714.5 0.2374458
714.6 0.25606	714.6 0.1284027	714.6 0.2390064
714.7 0.1857432	714.7 0.1244735	714.7 0.2246652
714.8 0.1695884	714.8 0.1226113	714.8 0.2516592
714.9 0.1940501	714.9 0.1444875	714.9 0.2522793
715 0.1444027	715 0.1208116	715 0.2400499
715.1 0.2217209	715.1 0.1416777	715.1 0.2556425
715.2 0.2086541	715.2 0.134688	715.2 0.2572939
715.3 0.1454329	715.3 0.1330803	715.3 0.2588732
715.4 0.1552441	715.4 0.1226007	715.4 0.2232212
715.5 0.184541	715.5 0.1176374	715.5 0.2782976
715.6 0.187301	715.6 0.1203889	715.6 0.2768863
715.7 0.1914622	715.7 0.1222769	715.7 0.2806455
715.8 0.190516	715.8 0.1241912	715.8 0.3189628
715.9 0.1757013	715.9 0.115296	715.9 0.3499566
716 0.1728642	716 0.1212922	716 0.2496088
716.1 0.1374348	716.1 0.1494422	716.1 0.2489678
716.2 0.141006	716.2 0.1449501	716.2 0.2239305
716.3 0.1909095	716.3 0.112261	716.3 0.2629054
716.4 0.21222	716.4 0.1143001	716.4 0.2868499
716.5 0.2149267	716.5 0.1055485	716.5 0.3189448
716.6 0.1807198	716.6 0.1159422	716.6 0.2754875
716.7 0.1619048	716.7 0.1297675	716.7 0.256301
716.8 0.1669171	716.8 0.1275239	716.8 0.268053
716.9 0.2002945	716.9 0.104223	716.9 0.2432187
717 0.1704168	717 0.1171189	717 0.301103
717.1 0.1216321	717.1 0.1182401	717.1 0.2674643
717.2 0.1161569	717.2 0.1156856	717.2 0.2688773
717.3 0.1681214	717.3 0.1167892	717.3 0.2162825
717.4 0.1897932	717.4 0.1337404	717.4 0.2934515
717.5 0.1909345	717.5 0.1237443	717.5 0.3390346
717.6 0.1695322	717.6 0.1192442	717.6 0.2710879
717.7 0.165911	717.7 0.1052494	717.7 0.3087986
717.8 0.1198292	717.8 0.1356772	717.8 0.2851553
717.9 0.1031594	717.9 0.1278163	717.9 0.2560857
718 0.1132092	718 0.1309259	718 0.2833013
718.1 0.1369778	718.1 0.129039	718.1 0.2773912
718.2 0.125389	718.2 0.1294839	718.2 0.2753557
718.3 0.0843652	718.3 0.131692	718.3 0.2748087
718.4 0.1216896	718.4 0.1412427	718.4 0.2606659
718.5 0.1250017	718.5 0.1196149	718.5 0.2497933
718.6 0.1809243	718.6 0.1392134	718.6 0.2364206
718.7 0.1213783	718.7 0.1345244	718.7 0.2378829
718.8 0.1039577	718.8 0.1182972	718.8 0.2265392
718.9 0.1443671	718.9 0.1340633	718.9 0.2649228

719	0.209795	719	0.1226382	719	0.2636452
719.1	0.2287603	719.1	0.1145973	719.1	0.259583
719.2	0.2209549	719.2	0.1392356	719.2	0.2471149
719.3	0.1354929	719.3	0.1304621	719.3	0.2682163
719.4	0.1214096	719.4	0.1276887	719.4	0.2923358
719.5	0.1105448	719.5	0.147355	719.5	0.2357454
719.6	0.1484441	719.6	0.1368843	719.6	0.2338385
719.7	0.1183686	719.7	0.1326663	719.7	0.2760769
719.8	0.1123886	719.8	0.1323669	719.8	0.2553854
719.9	0.150653	719.9	0.147055	719.9	0.2483956
720	0.1248904	720	0.1375618	720	0.2228619
720.1	0.1580246	720.1	0.1332251	720.1	0.2138838
720.2	0.1188366	720.2	0.1738948	720.2	0.2582722
720.3	0.1035516	720.3	0.1519865	720.3	0.2340829
720.4	0.1701845	720.4	0.1140873	720.4	0.2487575
720.5	0.1262558	720.5	0.1145169	720.5	0.2797355
720.6	0.1350501	720.6	0.1088934	720.6	0.2566104
720.7	0.1130007	720.7	0.1190374	720.7	0.3342925
720.8	0.1305601	720.8	0.1354506	720.8	0.2518256
720.9	0.1206136	720.9	0.1325749	720.9	0.2834063
721	0.1162694	721	0.1053734	721	0.275453
721.1	0.1117932	721.1	0.0928861	721.1	0.2996285
721.2	0.1031268	721.2	0.1069128	721.2	0.2992024
721.3	0.1420009	721.3	0.1174702	721.3	0.2620904
721.4	0.1205092	721.4	0.1099633	721.4	0.244188
721.5	0.1051082	721.5	0.1147898	721.5	0.2388962
721.6	0.1061781	721.6	0.143946	721.6	0.2108016
721.7	0.1020301	721.7	0.1267283	721.7	0.3374681
721.8	0.0977977	721.8	0.1109183	721.8	0.2757459
721.9	0.1538627	721.9	0.1071372	721.9	0.2359948
722	0.1563132	722	0.1048995	722	0.290861
722.1	0.2087055	722.1	0.1086628	722.1	0.2568349
722.2	0.1268794	722.2	0.1270665	722.2	0.2507224
722.3	0.1656386	722.3	0.1184264	722.3	0.258127
722.4	0.150428	722.4	0.0823627	722.4	0.2495857
722.5	0.1321635	722.5	0.115003	722.5	0.2441079
722.6	0.1076158	722.6	0.1213483	722.6	0.266936
722.7	0.1262757	722.7	0.1066233	722.7	0.2840393
722.8	0.1614013	722.8	0.1081164	722.8	0.273277
722.9	0.1500093	722.9	0.1018644	722.9	0.2541803
723	0.1226048	723	0.1191381	723	0.2793556
723.1	0.1389102	723.1	0.1247265	723.1	0.2249862
723.2	0.1118657	723.2	0.1080332	723.2	0.2365493
723.3	0.1081575	723.3	0.1029322	723.3	0.2631071
723.4	0.1569698	723.4	0.0953759	723.4	0.2283303
723.5	0.2018121	723.5	0.0892475	723.5	0.232357
723.6	0.1355466	723.6	0.1049187	723.6	0.1959811
723.7	0.1906533	723.7	0.1151635	723.7	0.225047
723.8	0.1051435	723.8	0.0795911	723.8	0.250341
723.9	0.1210096	723.9	0.1101924	723.9	0.2160907
724	0.1029145	724	0.106454	724	0.2435713

724.1 0.0926971	724.1 0.0840755	724.1 0.2223165
724.2 0.087266	724.2 0.1006402	724.2 0.2963162
724.3 0.1161909	724.3 0.0983113	724.3 0.2984834
724.4 0.0945609	724.4 0.1215284	724.4 0.2783744
724.5 0.1783195	724.5 0.1158191	724.5 0.2414301
724.6 0.1447798	724.6 0.1234236	724.6 0.269376
724.7 0.1281653	724.7 0.1097211	724.7 0.260182
724.8 0.0956556	724.8 0.1098451	724.8 0.3151992
724.9 0.1108513	724.9 0.1026451	724.9 0.3033473
725 0.1203717	725 0.109815	725 0.2618638
725.1 0.1351834	725.1 0.1115618	725.1 0.2354767
725.2 0.1494421	725.2 0.1401035	725.2 0.2488962
725.3 0.1628404	725.3 0.1302825	725.3 0.245343
725.4 0.1658622	725.4 0.1320762	725.4 0.302502
725.5 0.1141989	725.5 0.1403171	725.5 0.3326917
725.6 0.1511928	725.6 0.1860681	725.6 0.3075119
725.7 0.1577403	725.7 0.1247505	725.7 0.2545433
725.8 0.1443784	725.8 0.1503199	725.8 0.2442514
725.9 0.1623973	725.9 0.1325134	725.9 0.2769884
726 0.1617187	726 0.1326414	726 0.3072771
726.1 0.1651334	726.1 0.1275697	726.1 0.296691
726.2 0.1382401	726.2 0.1242743	726.2 0.2763205
726.3 0.1979781	726.3 0.1353435	726.3 0.3017155
726.4 0.1558102	726.4 0.1295034	726.4 0.3302055
726.5 0.1848951	726.5 0.1148011	726.5 0.3525811
726.6 0.1849056	726.6 0.1252456	726.6 0.3353677
726.7 0.0835639	726.7 0.1119825	726.7 0.2339679
726.8 0.1217943	726.8 0.108835	726.8 0.2231573
726.9 0.1093405	726.9 0.1080314	726.9 0.2939672
727 0.1427924	727 0.0950961	727 0.3262282
727.1 0.1609283	727.1 0.0890327	727.1 0.2868758
727.2 0.1097552	727.2 0.0906311	727.2 0.2324825
727.3 0.1321867	727.3 0.074555	727.3 0.2608475
727.4 0.1144118	727.4 0.1270719	727.4 0.3160388
727.5 0.1258124	727.5 0.0919449	727.5 0.2945729
727.6 0.1436196	727.6 0.0927784	727.6 0.2839706
727.7 0.1019718	727.7 0.1179249	727.7 0.2725761
727.8 0.124818	727.8 0.1116296	727.8 0.2664805
727.9 0.1500925	727.9 0.1471749	727.9 0.2871557
728 0.1590745	728 0.1144617	728 0.2316346
728.1 0.122721	728.1 0.1319579	728.1 0.2571226
728.2 0.0834281	728.2 0.1150463	728.2 0.252533
728.3 0.1510356	728.3 0.1130865	728.3 0.2515129
728.4 0.113113	728.4 0.1092706	728.4 0.3127663
728.5 0.0938953	728.5 0.1388546	728.5 0.2967085
728.6 0.1256451	728.6 0.1056357	728.6 0.2322904
728.7 0.1294398	728.7 0.1284914	728.7 0.2954654
728.8 0.1018094	728.8 0.0953034	728.8 0.3052058
728.9 0.1656226	728.9 0.1032106	728.9 0.3381959
729 0.1802213	729 0.0984669	729 0.3884258
729.1 0.1743927	729.1 0.1132013	729.1 0.28034

729.2 0.1343725	729.2 0.1174309	729.2 0.2714306
729.3 0.1693777	729.3 0.1304326	729.3 0.2427298
729.4 0.1609739	729.4 0.1215695	729.4 0.2428765
729.5 0.1608925	729.5 0.1241688	729.5 0.2523253
729.6 0.166724	729.6 0.1486236	729.6 0.3096958
729.7 0.1357698	729.7 0.1110262	729.7 0.275281
729.8 0.1138327	729.8 0.1151295	729.8 0.3954789
729.9 0.1684523	729.9 0.1342127	729.9 0.3015757
730 0.1792397	730 0.1314234	730 0.3139921
730.1 0.1821396	730.1 0.0965284	730.1 0.4136377
730.2 0.1695596	730.2 0.0791604	730.2 0.365649
730.3 0.1639396	730.3 0.127167	730.3 0.3196638
730.4 0.0922573	730.4 0.12209	730.4 0.4637896
730.5 0.1036521	730.5 0.1072235	730.5 0.3823775
730.6 0.1298733	730.6 0.1388378	730.6 0.2903041
730.7 0.1010218	730.7 0.1654825	730.7 0.3095098
730.8 0.1276397	730.8 0.1259189	730.8 0.2892081
730.9 0.1113828	730.9 0.1198242	730.9 0.2982579
731 0.1024094	731 0.0966773	731 0.3058856
731.1 0.1096344	731.1 0.1104181	731.1 0.3860691
731.2 0.2101164	731.2 0.1173154	731.2 0.2949394
731.3 0.1707635	731.3 0.1016903	731.3 0.2373759
731.4 0.1609273	731.4 0.1220041	731.4 0.2453578
731.5 0.133708	731.5 0.1162807	731.5 0.25595
731.6 0.1559811	731.6 0.134224	731.6 0.2536235
731.7 0.1380937	731.7 0.1386322	731.7 0.3054433
731.8 0.1570061	731.8 0.1302521	731.8 0.3421097
731.9 0.1921734	731.9 0.143696	731.9 0.2962638
732 0.1740494	732 0.1460716	732 0.2375102
732.1 0.1868196	732.1 0.1355695	732.1 0.2723365
732.2 0.1826809	732.2 0.1472995	732.2 0.2702749
732.3 0.1553053	732.3 0.1576491	732.3 0.2738564
732.4 0.1798904	732.4 0.1287928	732.4 0.2776955
732.5 0.1081424	732.5 0.1436155	732.5 0.2679324
732.6 0.106423	732.6 0.1570983	732.6 0.249467
732.7 0.1433854	732.7 0.1458841	732.7 0.3226584
732.8 0.1391182	732.8 0.1350213	732.8 0.3599523
732.9 0.1182165	732.9 0.156691	732.9 0.3418317
733 0.1274363	733 0.1161295	733 0.3003303
733.1 0.1737068	733.1 0.1147802	733.1 0.2758071
733.2 0.1937421	733.2 0.1024504	733.2 0.3160612
733.3 0.1492891	733.3 0.1322631	733.3 0.2614026
733.4 0.1989958	733.4 0.1320527	733.4 0.2755611
733.5 0.1653835	733.5 0.1345319	733.5 0.289794
733.6 0.1392247	733.6 0.125157	733.6 0.3282433
733.7 0.1611842	733.7 0.1137509	733.7 0.2758062
733.8 0.1876977	733.8 0.1598802	733.8 0.3126585
733.9 0.1777217	733.9 0.1105919	733.9 0.3006226
734 0.1420305	734 0.1233196	734 0.3507103
734.1 0.1760958	734.1 0.124023	734.1 0.3305245
734.2 0.1184139	734.2 0.1017242	734.2 0.3554414

734.3	0.13599	734.3	0.1228289	734.3	0.3581999
734.4	0.1846486	734.4	0.1070922	734.4	0.3551477
734.5	0.1580642	734.5	0.1128158	734.5	0.3127217
734.6	0.1329997	734.6	0.1148989	734.6	0.2830436
734.7	0.1101837	734.7	0.1314903	734.7	0.2506784
734.8	0.1235567	734.8	0.1188607	734.8	0.2640781
734.9	0.1148462	734.9	0.1023437	734.9	0.2582392
735	0.1246794	735	0.1024429	735	0.3649646
735.1	0.1178965	735.1	0.1152267	735.1	0.3126448
735.2	0.1098586	735.2	0.104244	735.2	0.265335
735.3	0.1057539	735.3	0.116134	735.3	0.2596298
735.4	0.1425553	735.4	0.1019963	735.4	0.2627657
735.5	0.124208	735.5	0.0970772	735.5	0.3087471
735.6	0.1276709	735.6	0.1068835	735.6	0.4342582
735.7	0.116705	735.7	0.1327495	735.7	0.3481304
735.8	0.1051595	735.8	0.116094	735.8	0.2873938
735.9	0.1096222	735.9	0.1027721	735.9	0.3398223
736	0.1281483	736	0.0929405	736	0.272964
736.1	0.1587221	736.1	0.1085929	736.1	0.255479
736.2	0.1469296	736.2	0.0969453	736.2	0.3246163
736.3	0.1120729	736.3	0.1270892	736.3	0.2572593
736.4	0.1046813	736.4	0.1494674	736.4	0.321031
736.5	0.1095855	736.5	0.1017143	736.5	0.3295348
736.6	0.1248086	736.6	0.1014404	736.6	0.3693765
736.7	0.0957316	736.7	0.1305533	736.7	0.2823331
736.8	0.1095883	736.8	0.1169834	736.8	0.3568698
736.9	0.1424981	736.9	0.1066099	736.9	0.3236419
737	0.1251485	737	0.122838	737	0.2981611
737.1	0.1207215	737.1	0.1290608	737.1	0.2902926
737.2	0.1340281	737.2	0.1032214	737.2	0.265159
737.3	0.1818881	737.3	0.1203417	737.3	0.3201782
737.4	0.1353232	737.4	0.1294027	737.4	0.4442936
737.5	0.1512766	737.5	0.1278287	737.5	0.4021245
737.6	0.1480515	737.6	0.1149284	737.6	0.3430237
737.7	0.1825472	737.7	0.1285781	737.7	0.3017128
737.8	0.1120978	737.8	0.1651093	737.8	0.2329837
737.9	0.1158146	737.9	0.1389299	737.9	0.255067
738	0.1142905	738	0.1343821	738	0.2368422
738.1	0.1003149	738.1	0.1092566	738.1	0.276601
738.2	0.0978452	738.2	0.1165714	738.2	0.2392446
738.3	0.1133608	738.3	0.1094881	738.3	0.282701
738.4	0.1280012	738.4	0.1101362	738.4	0.2724333
738.5	0.1444195	738.5	0.1322031	738.5	0.26818
738.6	0.0993672	738.6	0.101584	738.6	0.2970378
738.7	0.1579885	738.7	0.0936013	738.7	0.2801982
738.8	0.1145383	738.8	0.1072267	738.8	0.2362284
738.9	0.0905485	738.9	0.098475	738.9	0.2678388
739	0.1092459	739	0.1001475	739	0.234769
739.1	0.1156243	739.1	0.102748	739.1	0.2312646
739.2	0.1175714	739.2	0.1055823	739.2	0.276971
739.3	0.1582766	739.3	0.1081952	739.3	0.234746

739.4 0.1590315	739.4 0.126215	739.4 0.2346007
739.5 0.1326931	739.5 0.1424351	739.5 0.2195394
739.6 0.1141723	739.6 0.1304276	739.6 0.3374544
739.7 0.1035203	739.7 0.1212015	739.7 0.2479911
739.8 0.1112156	739.8 0.1313533	739.8 0.3115428
739.9 0.1063851	739.9 0.1119847	739.9 0.2379408
740 0.0876974	740 0.1330984	740 0.2716919
740.1 0.0968048	740.1 0.1409246	740.1 0.2538165
740.2 0.0976001	740.2 0.1118393	740.2 0.2517903
740.3 0.1240406	740.3 0.1133002	740.3 0.2203582
740.4 0.1306968	740.4 0.1158217	740.4 0.2984118
740.5 0.1105349	740.5 0.0994587	740.5 0.330768
740.6 0.1023169	740.6 0.1120391	740.6 0.3559582
740.7 0.0939743	740.7 0.148363	740.7 0.3147356
740.8 0.1356259	740.8 0.1141228	740.8 0.3547023
740.9 0.0911937	740.9 0.1269033	740.9 0.2763891
741 0.1753746	741 0.1194727	741 0.2886426
741.1 0.1207536	741.1 0.1182344	741.1 0.3032956
741.2 0.1421527	741.2 0.1267578	741.2 0.2667517
741.3 0.1283395	741.3 0.1272003	741.3 0.2714492
741.4 0.115087	741.4 0.1267261	741.4 0.2554331
741.5 0.1204928	741.5 0.1045304	741.5 0.2508359
741.6 0.1405558	741.6 0.1008048	741.6 0.2397001
741.7 0.1199137	741.7 0.1394339	741.7 0.2520373
741.8 0.1503534	741.8 0.1324974	741.8 0.2540603
741.9 0.1305169	741.9 0.1320379	741.9 0.2437839
742 0.1407993	742 0.1125752	742 0.248202
742.1 0.1528535	742.1 0.1421258	742.1 0.2726812
742.2 0.1160153	742.2 0.1375825	742.2 0.2605534
742.3 0.1297292	742.3 0.1394708	742.3 0.3955466
742.4 0.1131572	742.4 0.1491944	742.4 0.2809831
742.5 0.1458137	742.5 0.1739109	742.5 0.285357
742.6 0.1289379	742.6 0.1345534	742.6 0.2660289
742.7 0.1197354	742.7 0.1165993	742.7 0.353816
742.8 0.1814411	742.8 0.14205	742.8 0.2591448
742.9 0.1627907	742.9 0.1386434	742.9 0.2409713
743 0.1752608	743 0.1364224	743 0.255349
743.1 0.1564154	743.1 0.1353343	743.1 0.2888592
743.2 0.1913259	743.2 0.1420102	743.2 0.2734227
743.3 0.2074575	743.3 0.1260804	743.3 0.2364407
743.4 0.1825041	743.4 0.1419613	743.4 0.2892584
743.5 0.104619	743.5 0.1297998	743.5 0.3131622
743.6 0.1233619	743.6 0.1409562	743.6 0.3465883
743.7 0.1078034	743.7 0.136525	743.7 0.2458644
743.8 0.1094609	743.8 0.1372913	743.8 0.2744817
743.9 0.1340367	743.9 0.1286249	743.9 0.3244418
744 0.1307567	744 0.1511315	744 0.2726181
744.1 0.1477553	744.1 0.1246421	744.1 0.2381489
744.2 0.1109059	744.2 0.1340237	744.2 0.2630695
744.3 0.1263576	744.3 0.1213588	744.3 0.2992275
744.4 0.1327533	744.4 0.1276051	744.4 0.2556038

744.5 0.1247456	744.5 0.1531772	744.5 0.2726018
744.6 0.1300021	744.6 0.1399921	744.6 0.2985239
744.7 0.1036825	744.7 0.1450167	744.7 0.2951474
744.8 0.110067	744.8 0.139487	744.8 0.2976202
744.9 0.1392389	744.9 0.1546974	744.9 0.2996171
745 0.1021019	745 0.1706707	745 0.2855906
745.1 0.1426861	745.1 0.1592148	745.1 0.3417411
745.2 0.1305149	745.2 0.1619719	745.2 0.291319
745.3 0.1159741	745.3 0.1641926	745.3 0.2980093
745.4 0.1346238	745.4 0.1576077	745.4 0.3254336
745.5 0.120832	745.5 0.1616098	745.5 0.3085007
745.6 0.1301676	745.6 0.168124	745.6 0.3131613
745.7 0.1354069	745.7 0.1420977	745.7 0.2850724
745.8 0.1603073	745.8 0.143489	745.8 0.3252575
745.9 0.1711127	745.9 0.1081734	745.9 0.2771942
746 0.1629037	746 0.1373451	746 0.3057073
746.1 0.1842639	746.1 0.1615055	746.1 0.3074301
746.2 0.1521834	746.2 0.1527721	746.2 0.2946147
746.3 0.1819474	746.3 0.1464729	746.3 0.361467
746.4 0.1425136	746.4 0.1563937	746.4 0.3436182
746.5 0.1564154	746.5 0.1329067	746.5 0.3814528
746.6 0.1794889	746.6 0.1434664	746.6 0.3461942
746.7 0.1725185	746.7 0.1327433	746.7 0.3033368
746.8 0.1785057	746.8 0.1431353	746.8 0.2873029
746.9 0.1341041	746.9 0.1324141	746.9 0.3126152
747 0.1949971	747 0.1448449	747 0.3020459
747.1 0.09885	747.1 0.1345448	747.1 0.3110435
747.2 0.0945484	747.2 0.1478302	747.2 0.3014
747.3 0.1074009	747.3 0.1394977	747.3 0.2710625
747.4 0.1321437	747.4 0.111292	747.4 0.2726122
747.5 0.099217	747.5 0.1614973	747.5 0.2927001
747.6 0.1391607	747.6 0.1505465	747.6 0.2733594
747.7 0.0994752	747.7 0.1348344	747.7 0.3023806
747.8 0.100751	747.8 0.158507	747.8 0.3503766
747.9 0.1303505	747.9 0.1461782	747.9 0.3073693
748 0.0980146	748 0.1321118	748 0.2675825
748.1 0.1811008	748.1 0.1540684	748.1 0.3106246
748.2 0.1570994	748.2 0.1403877	748.2 0.3027263
748.3 0.1534156	748.3 0.1254302	748.3 0.3242229
748.4 0.1294455	748.4 0.1516223	748.4 0.2706561
748.5 0.1384373	748.5 0.1436233	748.5 0.2474857
748.6 0.12385	748.6 0.1562381	748.6 0.2641438
748.7 0.1503379	748.7 0.123235	748.7 0.2529603
748.8 0.113955	748.8 0.1278907	748.8 0.2601369
748.9 0.2401738	748.9 0.1301138	748.9 0.2370452
749 0.2004316	749 0.1469755	749 0.2350716
749.1 0.2564318	749.1 0.1315635	749.1 0.2433926
749.2 0.3073321	749.2 0.1381908	749.2 0.2580692
749.3 0.1971023	749.3 0.1377745	749.3 0.2464943
749.4 0.168556	749.4 0.1239791	749.4 0.2747402
749.5 0.2332722	749.5 0.1272389	749.5 0.2405139

749.6	0.177735	749.6	0.115428	749.6	0.3066157
749.7	0.1370546	749.7	0.1238893	749.7	0.2702923
749.8	0.1875999	749.8	0.1358097	749.8	0.331315
749.9	0.227647	749.9	0.110299	749.9	0.3177875
750	0.1461942	750	0.1384497	750	0.317125
750.1	0.1168567	750.1	0.1166468	750.1	0.2604867
750.2	0.1485969	750.2	0.119845	750.2	0.2464565
750.3	0.1393416	750.3	0.115791	750.3	0.255926
750.4	0.1641567	750.4	0.1267272	750.4	0.2468303
750.5	0.1490627	750.5	0.1167799	750.5	0.2731319
750.6	0.1083226	750.6	0.1525585	750.6	0.3528084
750.7	0.1163472	750.7	0.1371807	750.7	0.3583336
750.8	0.116556	750.8	0.1646986	750.8	0.2930126
750.9	0.1285365	750.9	0.1309414	750.9	0.2969282
751	0.1525225	751	0.1449088	751	0.3070845
751.1	0.1090343	751.1	0.1373789	751.1	0.3145192
751.2	0.1901672	751.2	0.1311395	751.2	0.3318615
751.3	0.1568048	751.3	0.1444222	751.3	0.2820031
751.4	0.0980542	751.4	0.1633581	751.4	0.2613292
751.5	0.1481294	751.5	0.1417475	751.5	0.2609592
751.6	0.1578118	751.6	0.1622623	751.6	0.2526443
751.7	0.158283	751.7	0.1523109	751.7	0.2265518
751.8	0.1396449	751.8	0.1539998	751.8	0.2731742
751.9	0.1214487	751.9	0.1517626	751.9	0.3644029
752	0.1654084	752	0.1428914	752	0.248124
752.1	0.1331657	752.1	0.1555684	752.1	0.268685
752.2	0.2611206	752.2	0.1673901	752.2	0.2670031
752.3	0.1704576	752.3	0.1488977	752.3	0.2771453
752.4	0.221742	752.4	0.1319881	752.4	0.2386657
752.5	0.19368	752.5	0.1330791	752.5	0.2697985
752.6	0.2048073	752.6	0.1689949	752.6	0.2120973
752.7	0.1393552	752.7	0.1469269	752.7	0.2559257
752.8	0.1081104	752.8	0.1574493	752.8	0.2252863
752.9	0.1220068	752.9	0.1408873	752.9	0.3311391
753	0.1451541	753	0.1236623	753	0.2469741
753.1	0.1375744	753.1	0.1262784	753.1	0.2438219
753.2	0.1466407	753.2	0.1537905	753.2	0.2630917
753.3	0.1425729	753.3	0.1391657	753.3	0.3292832
753.4	0.1251279	753.4	0.1218231	753.4	0.3112353
753.5	0.1148369	753.5	0.1323754	753.5	0.2476938
753.6	0.1273815	753.6	0.1436439	753.6	0.2585932
753.7	0.1387026	753.7	0.1359043	753.7	0.2857284
753.8	0.1629009	753.8	0.145779	753.8	0.23045
753.9	0.1400746	753.9	0.1346321	753.9	0.2356072
754	0.1461252	754	0.1213066	754	0.238966
754.1	0.1039661	754.1	0.1185112	754.1	0.2238206
754.2	0.1215241	754.2	0.1335015	754.2	0.226456
754.3	0.1486028	754.3	0.1304953	754.3	0.2398654
754.4	0.1537822	754.4	0.1192219	754.4	0.2519473
754.5	0.1328518	754.5	0.1480291	754.5	0.2786447
754.6	0.1729124	754.6	0.1346411	754.6	0.2966268

754.7	0.175483	754.7	0.1305574	754.7	0.2611243
754.8	0.1176068	754.8	0.1164105	754.8	0.2550771
754.9	0.173465	754.9	0.0978574	754.9	0.2909649
755	0.1815746	755	0.1240787	755	0.3138053
755.1	0.158848	755.1	0.1362424	755.1	0.251239
755.2	0.1271428	755.2	0.1334457	755.2	0.233146
755.3	0.1675464	755.3	0.1361648	755.3	0.2863403
755.4	0.1248678	755.4	0.1234335	755.4	0.2479487
755.5	0.1372106	755.5	0.1433697	755.5	0.2969089
755.6	0.1352092	755.6	0.1282488	755.6	0.2974269
755.7	0.1282543	755.7	0.1417045	755.7	0.2244637
755.8	0.1283499	755.8	0.1248021	755.8	0.2078392
755.9	0.1320914	755.9	0.1475263	755.9	0.2473654
756	0.1577948	756	0.1587845	756	0.2284302
756.1	0.1704771	756.1	0.1345999	756.1	0.2470538
756.2	0.1170241	756.2	0.1323227	756.2	0.2363971
756.3	0.1427797	756.3	0.1521666	756.3	0.2187641
756.4	0.1524977	756.4	0.150852	756.4	0.2248331
756.5	0.1136687	756.5	0.1376945	756.5	0.2015556
756.6	0.1432402	756.6	0.1211573	756.6	0.2223412
756.7	0.1579613	756.7	0.1229993	756.7	0.2641609
756.8	0.2035657	756.8	0.1080273	756.8	0.2652663
756.9	0.14014	756.9	0.1318982	756.9	0.3031359
757	0.1890235	757	0.1133832	757	0.2120074
757.1	0.1911311	757.1	0.1192827	757.1	0.2507108
757.2	0.1102219	757.2	0.1295643	757.2	0.3265658
757.3	0.1126711	757.3	0.1055901	757.3	0.3407629
757.4	0.1254808	757.4	0.1371616	757.4	0.3278528
757.5	0.2190971	757.5	0.1142314	757.5	0.2836175
757.6	0.1228878	757.6	0.1305571	757.6	0.4589189
757.7	0.1109067	757.7	0.1233372	757.7	0.2747431
757.8	0.1063502	757.8	0.1210007	757.8	0.2625299
757.9	0.1211822	757.9	0.1072216	757.9	0.3669751
758	0.1463433	758	0.1407306	758	0.2900577
758.1	0.1758936	758.1	0.1117928	758.1	0.3204862
758.2	0.1182615	758.2	0.1237451	758.2	0.2498805
758.3	0.1691997	758.3	0.1571147	758.3	0.2811829
758.4	0.1914407	758.4	0.1313773	758.4	0.2610571
758.5	0.2474878	758.5	0.1116442	758.5	0.2279213
758.6	0.1738273	758.6	0.1289619	758.6	0.2425319
758.7	0.1720327	758.7	0.1162402	758.7	0.2519962
758.8	0.1763688	758.8	0.1086763	758.8	0.2503936
758.9	0.1461864	758.9	0.0949847	758.9	0.2325867
759	0.2005248	759	0.1137973	759	0.2515795
759.1	0.1755778	759.1	0.0872602	759.1	0.2608952
759.2	0.1962306	759.2	0.0848935	759.2	0.2276726
759.3	0.2271808	759.3	0.1177987	759.3	0.3041406
759.4	0.216628	759.4	0.1051685	759.4	0.2976698
759.5	0.1745645	759.5	0.1179583	759.5	0.2473274
759.6	0.1498545	759.6	0.1409654	759.6	0.2999338
759.7	0.2071274	759.7	0.1286756	759.7	0.3119901

759.8 0.1656346	759.8 0.1178609	759.8 0.4241942
759.9 0.1119004	759.9 0.110057	759.9 0.357611
760 0.1443755	760 0.1169923	760 0.2636689
760.1 0.1330962	760.1 0.1103494	760.1 0.2740535
760.2 0.1248625	760.2 0.1273942	760.2 0.2847168
760.3 0.1325014	760.3 0.1140625	760.3 0.3619171
760.4 0.1450484	760.4 0.1335131	760.4 0.3034784
760.5 0.1181045	760.5 0.1311242	760.5 0.3932006
760.6 0.1927249	760.6 0.1337756	760.6 0.265747
760.7 0.1594879	760.7 0.1061406	760.7 0.2581216
760.8 0.161587	760.8 0.1259348	760.8 0.2654952
760.9 0.1180378	760.9 0.1147548	760.9 0.2373571
761 0.1501011	761 0.114128	761 0.2800912
761.1 0.1104799	761.1 0.1282887	761.1 0.2682042
761.2 0.1514118	761.2 0.0965978	761.2 0.37347
761.3 0.1550311	761.3 0.117881	761.3 0.2959084
761.4 0.1545997	761.4 0.1239808	761.4 0.325213
761.5 0.1584334	761.5 0.1301889	761.5 0.2517049
761.6 0.1240102	761.6 0.1380446	761.6 0.254874
761.7 0.1173164	761.7 0.123776	761.7 0.2685782
761.8 0.1604562	761.8 0.1192447	761.8 0.2585275
761.9 0.1124415	761.9 0.1519064	761.9 0.3363357
762 0.1946407	762 0.1459898	762 0.2846322
762.1 0.1367926	762.1 0.1242549	762.1 0.2723208
762.2 0.1358265	762.2 0.1119407	762.2 0.2919796
762.3 0.2254154	762.3 0.1009329	762.3 0.3235632
762.4 0.1259307	762.4 0.1226008	762.4 0.3156337
762.5 0.1475352	762.5 0.134767	762.5 0.3718114
762.6 0.1494528	762.6 0.1088726	762.6 0.3823048
762.7 0.210208	762.7 0.1351796	762.7 0.3364192
762.8 0.2282845	762.8 0.1462067	762.8 0.3926378
762.9 0.2222217	762.9 0.134339	762.9 0.3348447
763 0.1694801	763 0.1001698	763 0.377459
763.1 0.1877845	763.1 0.1012917	763.1 0.3927941
763.2 0.208659	763.2 0.1171813	763.2 0.4221655
763.3 0.1790226	763.3 0.1226778	763.3 0.3412023
763.4 0.1768918	763.4 0.1244034	763.4 0.370216
763.5 0.1378471	763.5 0.1121049	763.5 0.3575551
763.6 0.1852072	763.6 0.1046306	763.6 0.3236858
763.7 0.1440413	763.7 0.1124675	763.7 0.2562316
763.8 0.1623849	763.8 0.1142643	763.8 0.2790274
763.9 0.151448	763.9 0.1211555	763.9 0.2481394
764 0.1960345	764 0.1491248	764 0.3006881
764.1 0.2821624	764.1 0.127629	764.1 0.2521815
764.2 0.3389755	764.2 0.1098306	764.2 0.292991
764.3 0.3027278	764.3 0.1260307	764.3 0.312212
764.4 0.3252544	764.4 0.1401844	764.4 0.2719318
764.5 0.1995894	764.5 0.1363232	764.5 0.3391732
764.6 0.1860056	764.6 0.1530784	764.6 0.3265669
764.7 0.1461191	764.7 0.1109628	764.7 0.2679015
764.8 0.1407751	764.8 0.1137051	764.8 0.268838

764.9 0.1603278	764.9 0.1338837	764.9 0.2638924
765 0.1173236	765 0.1287255	765 0.2925298
765.1 0.1792488	765.1 0.113286	765.1 0.2617894
765.2 0.1426926	765.2 0.1212545	765.2 0.3002506
765.3 0.1690581	765.3 0.1139858	765.3 0.231134
765.4 0.1441246	765.4 0.1290275	765.4 0.2710603
765.5 0.1479258	765.5 0.1227782	765.5 0.3148275
765.6 0.1659202	765.6 0.1168261	765.6 0.2738845
765.7 0.1713167	765.7 0.1192239	765.7 0.2939765
765.8 0.1055448	765.8 0.1165207	765.8 0.3144475
765.9 0.1356651	765.9 0.109646	765.9 0.3025964
766 0.1372203	766 0.1054229	766 0.3161093
766.1 0.1198038	766.1 0.1193575	766.1 0.3477656
766.2 0.1107033	766.2 0.0992412	766.2 0.3696662
766.3 0.0912342	766.3 0.1215619	766.3 0.3124705
766.4 0.113766	766.4 0.120184	766.4 0.3255646
766.5 0.1597373	766.5 0.1339602	766.5 0.3835609
766.6 0.1006991	766.6 0.1225762	766.6 0.4070832
766.7 0.2035125	766.7 0.1626125	766.7 0.3385636
766.8 0.0944458	766.8 0.1498239	766.8 0.3773865
766.9 0.1170338	766.9 0.1356723	766.9 0.2950253
767 0.0913515	767 0.1412044	767 0.2629392
767.1 0.1694469	767.1 0.1262096	767.1 0.2854249
767.2 0.1191669	767.2 0.1192583	767.2 0.2465247
767.3 0.1353311	767.3 0.1331887	767.3 0.2414872
767.4 0.1395362	767.4 0.1337976	767.4 0.2661589
767.5 0.1715314	767.5 0.1394263	767.5 0.2550736
767.6 0.1046889	767.6 0.1131544	767.6 0.2497794
767.7 0.1287964	767.7 0.1260256	767.7 0.287338
767.8 0.1042574	767.8 0.1376447	767.8 0.2815445
767.9 0.1232866	767.9 0.1307914	767.9 0.2474215
768 0.1642109	768 0.1542279	768 0.3056345
768.1 0.1203056	768.1 0.1331465	768.1 0.2440851
768.2 0.1432305	768.2 0.1340278	768.2 0.2587386
768.3 0.0985128	768.3 0.144351	768.3 0.2783094
768.4 0.116529	768.4 0.1369371	768.4 0.233697
768.5 0.1273323	768.5 0.124114	768.5 0.257366
768.6 0.1519276	768.6 0.1270279	768.6 0.2545982
768.7 0.1088176	768.7 0.1317661	768.7 0.2786374
768.8 0.1689084	768.8 0.1234728	768.8 0.3561029
768.9 0.1444898	768.9 0.1257388	768.9 0.302114
769 0.1431354	769 0.1297949	769 0.303033
769.1 0.1373048	769.1 0.119881	769.1 0.2993121
769.2 0.176415	769.2 0.1262263	769.2 0.3133213
769.3 0.1656921	769.3 0.1298577	769.3 0.3387169
769.4 0.1325423	769.4 0.1349384	769.4 0.3799776
769.5 0.0968015	769.5 0.1260046	769.5 0.2809959
769.6 0.1458759	769.6 0.1341933	769.6 0.27337
769.7 0.1558194	769.7 0.1305378	769.7 0.2846065
769.8 0.176575	769.8 0.1282447	769.8 0.2594785
769.9 0.1958412	769.9 0.1368126	769.9 0.2506982

770	0.1786279	770	0.1371948	770	0.2577737
770.1	0.176734	770.1	0.1428976	770.1	0.2249577
770.2	0.1654153	770.2	0.1288822	770.2	0.2304068
770.3	0.1397013	770.3	0.1320426	770.3	0.2363352
770.4	0.1593871	770.4	0.1211672	770.4	0.2332193
770.5	0.1840219	770.5	0.1045372	770.5	0.2365527
770.6	0.1251432	770.6	0.1317083	770.6	0.2694693
770.7	0.1871742	770.7	0.1512336	770.7	0.2394136
770.8	0.1516234	770.8	0.1246254	770.8	0.2227372
770.9	0.1310971	770.9	0.1231717	770.9	0.2701072
771	0.1414862	771	0.1057358	771	0.2423962
771.1	0.1712898	771.1	0.1206358	771.1	0.3164224
771.2	0.1862163	771.2	0.1378219	771.2	0.2669815
771.3	0.14311	771.3	0.0977976	771.3	0.2530809
771.4	0.1195208	771.4	0.1119419	771.4	0.2486998
771.5	0.1183736	771.5	0.1000603	771.5	0.2528354
771.6	0.1388182	771.6	0.1226581	771.6	0.3192624
771.7	0.1618303	771.7	0.0921368	771.7	0.3027564
771.8	0.1175641	771.8	0.1163328	771.8	0.2514952
771.9	0.0908781	771.9	0.1174034	771.9	0.245416
772	0.1314458	772	0.1022014	772	0.3287167
772.1	0.1150272	772.1	0.0890552	772.1	0.2418655
772.2	0.1433746	772.2	0.1089873	772.2	0.2958992
772.3	0.1240198	772.3	0.0955599	772.3	0.2607312
772.4	0.1364425	772.4	0.0881905	772.4	0.3039638
772.5	0.1019349	772.5	0.1124301	772.5	0.3026115
772.6	0.093555	772.6	0.096315	772.6	0.2929548
772.7	0.0969149	772.7	0.097307	772.7	0.2477129
772.8	0.1158021	772.8	0.1043498	772.8	0.2570772
772.9	0.1139105	772.9	0.1116115	772.9	0.2658332
773	0.1758842	773	0.122803	773	0.2830889
773.1	0.1174708	773.1	0.1381924	773.1	0.2675207
773.2	0.140785	773.2	0.1239688	773.2	0.2689085
773.3	0.1081217	773.3	0.1223963	773.3	0.2901175
773.4	0.1335493	773.4	0.1098471	773.4	0.2686434
773.5	0.1352038	773.5	0.1288113	773.5	0.2600704
773.6	0.1053712	773.6	0.1216696	773.6	0.2793192
773.7	0.1044494	773.7	0.1022405	773.7	0.2358684
773.8	0.1287754	773.8	0.102828	773.8	0.2629394
773.9	0.1248735	773.9	0.1751406	773.9	0.2942677
774	0.1292641	774	0.1700507	774	0.2544294
774.1	0.1297287	774.1	0.1300077	774.1	0.3161671
774.2	0.1484286	774.2	0.1008456	774.2	0.3547406
774.3	0.1277786	774.3	0.0976021	774.3	0.3264315
774.4	0.1721744	774.4	0.1005457	774.4	0.2781086
774.5	0.154436	774.5	0.0930611	774.5	0.3085892
774.6	0.1853447	774.6	0.1088614	774.6	0.3158142
774.7	0.1449689	774.7	0.0865693	774.7	0.335113
774.8	0.1555945	774.8	0.08216	774.8	0.3764727
774.9	0.1632257	774.9	0.096984	774.9	0.3085251
775	0.129484	775	0.1092409	775	0.298857

775.1 0.1344496	775.1 0.0867646	775.1 0.2986829
775.2 0.1028716	775.2 0.0943341	775.2 0.3163644
775.3 0.1682781	775.3 0.1070263	775.3 0.2466667
775.4 0.1425608	775.4 0.072444	775.4 0.3154341
775.5 0.1132091	775.5 0.0812911	775.5 0.2300053
775.6 0.1460138	775.6 0.0970651	775.6 0.2893336
775.7 0.112836	775.7 0.0845094	775.7 0.2553836
775.8 0.1665795	775.8 0.0952273	775.8 0.2737468
775.9 0.1973535	775.9 0.1369186	775.9 0.2499242
776 0.1304685	776 0.092417	776 0.3324562
776.1 0.1769493	776.1 0.0967436	776.1 0.2579455
776.2 0.1283187	776.2 0.1055413	776.2 0.2396216
776.3 0.1100678	776.3 0.1008712	776.3 0.2849572
776.4 0.1070444	776.4 0.1335479	776.4 0.2555176
776.5 0.1160043	776.5 0.113735	776.5 0.297713
776.6 0.1275787	776.6 0.115206	776.6 0.264569
776.7 0.1055724	776.7 0.1496271	776.7 0.2420123
776.8 0.1372829	776.8 0.1396756	776.8 0.2364866
776.9 0.1082446	776.9 0.1369365	776.9 0.2642813
777 0.1067818	777 0.1535708	777 0.3027236
777.1 0.1152237	777.1 0.147645	777.1 0.3253911
777.2 0.1165285	777.2 0.1412657	777.2 0.2660486
777.3 0.1293469	777.3 0.1387941	777.3 0.2129979
777.4 0.1298432	777.4 0.1359331	777.4 0.2766702
777.5 0.1003717	777.5 0.1364374	777.5 0.2588694
777.6 0.1071767	777.6 0.1599855	777.6 0.2844889
777.7 0.10762	777.7 0.1338232	777.7 0.2597172
777.8 0.1064958	777.8 0.1513873	777.8 0.252745
777.9 0.106586	777.9 0.1364711	777.9 0.2584357
778 0.1076127	778 0.147054	778 0.3013717
778.1 0.1290662	778.1 0.1573197	778.1 0.364891
778.2 0.1008619	778.2 0.1273305	778.2 0.26728
778.3 0.0892708	778.3 0.1507728	778.3 0.3041455
778.4 0.1145806	778.4 0.170465	778.4 0.2783438
778.5 0.1008609	778.5 0.133595	778.5 0.2543243
778.6 0.1251766	778.6 0.1291027	778.6 0.266844
778.7 0.1142778	778.7 0.1122376	778.7 0.3200698
778.8 0.1297702	778.8 0.1324039	778.8 0.2890422
778.9 0.0984163	778.9 0.1309565	778.9 0.2304015
779 0.1225195	779 0.1246134	779 0.2608218
779.1 0.0948255	779.1 0.1394503	779.1 0.2653762
779.2 0.1058245	779.2 0.1326493	779.2 0.2806044
779.3 0.1284886	779.3 0.1087812	779.3 0.3190362
779.4 0.1403662	779.4 0.1086974	779.4 0.2713928
779.5 0.1091808	779.5 0.1275543	779.5 0.2524531
779.6 0.1260567	779.6 0.0974011	779.6 0.2703409
779.7 0.1690525	779.7 0.1065594	779.7 0.2679597
779.8 0.1937246	779.8 0.1171183	779.8 0.2924618
779.9 0.1228669	779.9 0.113378	779.9 0.313675
780 0.1170494	780 0.1382601	780 0.2685746
780.1 0.1517106	780.1 0.1422642	780.1 0.30892

780.2	0.1564153	780.2	0.1478786	780.2	0.3120531
780.3	0.1021813	780.3	0.1338172	780.3	0.2834426
780.4	0.1103898	780.4	0.1325441	780.4	0.2611366
780.5	0.1425589	780.5	0.1082821	780.5	0.2714739
780.6	0.1100023	780.6	0.1112711	780.6	0.2447993
780.7	0.138543	780.7	0.1066863	780.7	0.2293102
780.8	0.099639	780.8	0.1153281	780.8	0.2877075
780.9	0.1799949	780.9	0.1251448	780.9	0.2690553
781	0.1206394	781	0.1022308	781	0.2580581
781.1	0.1203687	781.1	0.1414544	781.1	0.2754207
781.2	0.1449997	781.2	0.1170159	781.2	0.2521765
781.3	0.1286932	781.3	0.1138142	781.3	0.2878107
781.4	0.1253271	781.4	0.1346801	781.4	0.3059188
781.5	0.1274	781.5	0.1396554	781.5	0.2946711
781.6	0.1200977	781.6	0.1524879	781.6	0.2856981
781.7	0.1229955	781.7	0.1424504	781.7	0.2647488
781.8	0.1585982	781.8	0.1407165	781.8	0.3474932
781.9	0.14598	781.9	0.1528363	781.9	0.3261949
782	0.156149	782	0.1609793	782	0.3224833
782.1	0.1307	782.1	0.1447074	782.1	0.31552
782.2	0.1108956	782.2	0.1491189	782.2	0.3014559
782.3	0.1078696	782.3	0.1431182	782.3	0.2999062
782.4	0.1543328	782.4	0.1511172	782.4	0.2465155
782.5	0.1313912	782.5	0.1561273	782.5	0.2970701
782.6	0.131047	782.6	0.1393028	782.6	0.265931
782.7	0.1329254	782.7	0.1523978	782.7	0.2778812
782.8	0.110915	782.8	0.1418728	782.8	0.3091761
782.9	0.1644395	782.9	0.1246496	782.9	0.2923431
783	0.1003274	783	0.1229122	783	0.2504874
783.1	0.1264992	783.1	0.1200087	783.1	0.2329266
783.2	0.1662649	783.2	0.1537475	783.2	0.3039651
783.3	0.1262826	783.3	0.1407892	783.3	0.2897812
783.4	0.1368587	783.4	0.1428147	783.4	0.2682223
783.5	0.1636854	783.5	0.1658366	783.5	0.2967958
783.6	0.1552136	783.6	0.1292189	783.6	0.2625211
783.7	0.1585295	783.7	0.1563832	783.7	0.3757876
783.8	0.1910277	783.8	0.2012199	783.8	0.2487974
783.9	0.1328919	783.9	0.2020253	783.9	0.3904925
784	0.1351737	784	0.1776119	784	0.4810018
784.1	0.2333474	784.1	0.1545584	784.1	0.4352405
784.2	0.1714334	784.2	0.1411612	784.2	0.49469
784.3	0.0983876	784.3	0.1351543	784.3	0.5170532
784.4	0.1038451	784.4	0.190385	784.4	0.4694446
784.5	0.11542	784.5	0.1489107	784.5	0.4442487
784.6	0.1323623	784.6	0.1496702	784.6	0.3565784
784.7	0.0982856	784.7	0.1483641	784.7	0.3224578
784.8	0.1432666	784.8	0.1629616	784.8	0.2817241
784.9	0.1378813	784.9	0.1532205	784.9	0.2717026
785	0.1382875	785	0.1374546	785	0.2724521
785.1	0.1867553	785.1	0.1462454	785.1	0.2630565
785.2	0.1637934	785.2	0.1247098	785.2	0.2803283

785.3 0.1405783	785.3 0.1568585	785.3 0.3530681
785.4 0.132054	785.4 0.1606457	785.4 0.240403
785.5 0.109849	785.5 0.1460882	785.5 0.3590511
785.6 0.1194536	785.6 0.1432006	785.6 0.2793396
785.7 0.1178633	785.7 0.1679623	785.7 0.3218168
785.8 0.133401	785.8 0.1359259	785.8 0.2542514
785.9 0.1346073	785.9 0.1282271	785.9 0.2998515
786 0.1515859	786 0.1459659	786 0.315496
786.1 0.1378517	786.1 0.1275345	786.1 0.259706
786.2 0.1287277	786.2 0.1369482	786.2 0.2470489
786.3 0.1339088	786.3 0.1575637	786.3 0.24105
786.4 0.1294785	786.4 0.1764352	786.4 0.2723769
786.5 0.1139066	786.5 0.1542429	786.5 0.289024
786.6 0.1252172	786.6 0.1535296	786.6 0.3379903
786.7 0.2301912	786.7 0.1451634	786.7 0.3424921
786.8 0.22075	786.8 0.1410044	786.8 0.3017739
786.9 0.1561534	786.9 0.1554487	786.9 0.3268026
787 0.1874104	787 0.1632346	787 0.3311437
787.1 0.1590579	787.1 0.1342473	787.1 0.225418
787.2 0.2069412	787.2 0.1434995	787.2 0.3034415
787.3 0.2295808	787.3 0.1628554	787.3 0.2981369
787.4 0.2108764	787.4 0.1543345	787.4 0.2976064
787.5 0.2513599	787.5 0.1439996	787.5 0.2868614
787.6 0.1703009	787.6 0.1696764	787.6 0.3859037
787.7 0.1827095	787.7 0.1633963	787.7 0.3112881
787.8 0.1607405	787.8 0.1569043	787.8 0.4213297
787.9 0.2126615	787.9 0.1589525	787.9 0.3868971
788 0.1985901	788 0.1486615	788 0.4774029
788.1 0.1431293	788.1 0.166168	788.1 0.3759313
788.2 0.1379328	788.2 0.1529009	788.2 0.4687794
788.3 0.1515725	788.3 0.1576992	788.3 0.4978119
788.4 0.1690103	788.4 0.1458742	788.4 0.4570759
788.5 0.1484986	788.5 0.1768355	788.5 0.3925974
788.6 0.1687874	788.6 0.1844768	788.6 0.3362384
788.7 0.2036294	788.7 0.1550352	788.7 0.4065571
788.8 0.1871429	788.8 0.2046915	788.8 0.4093987
788.9 0.1675843	788.9 0.1734872	788.9 0.4097219
789 0.158254	789 0.1618745	789 0.4125225
789.1 0.2113652	789.1 0.1591708	789.1 0.3302397
789.2 0.2172248	789.2 0.1915252	789.2 0.3076829
789.3 0.2344353	789.3 0.1680553	789.3 0.3152097
789.4 0.2346373	789.4 0.2039175	789.4 0.3675953
789.5 0.2734459	789.5 0.1727032	789.5 0.3133367
789.6 0.2236847	789.6 0.1793833	789.6 0.3937323
789.7 0.2239806	789.7 0.1748106	789.7 0.479715
789.8 0.2247853	789.8 0.1525522	789.8 0.3460757
789.9 0.2424038	789.9 0.1639333	789.9 0.3821419
790 0.2376605	790 0.1455847	790 0.3313668
790.1 0.2207586	790.1 0.1470766	790.1 0.3244989
790.2 0.2097088	790.2 0.146252	790.2 0.3257188
790.3 0.209987	790.3 0.141868	790.3 0.2440438

790.4 0.2126566	790.4 0.1560315	790.4 0.3511608
790.5 0.2054078	790.5 0.144935	790.5 0.282688
790.6 0.1907365	790.6 0.1619441	790.6 0.2912143
790.7 0.2064385	790.7 0.1804617	790.7 0.2729588
790.8 0.1938648	790.8 0.1508045	790.8 0.2979252
790.9 0.1752342	790.9 0.1678673	790.9 0.3050847
791 0.2376437	791 0.1513853	791 0.3166735
791.1 0.1906926	791.1 0.1619079	791.1 0.2919901
791.2 0.1994631	791.2 0.1639232	791.2 0.3123857
791.3 0.2047197	791.3 0.1382311	791.3 0.2902689
791.4 0.1835285	791.4 0.1686872	791.4 0.2828685
791.5 0.1954984	791.5 0.1469228	791.5 0.2562321
791.6 0.2013047	791.6 0.15007	791.6 0.2434372
791.7 0.2010328	791.7 0.1375372	791.7 0.3145051
791.8 0.201099	791.8 0.146119	791.8 0.3061013
791.9 0.2389392	791.9 0.155691	791.9 0.3136352
792 0.2101746	792 0.1650273	792 0.2498089
792.1 0.2465101	792.1 0.1549614	792.1 0.3841954
792.2 0.2409723	792.2 0.1519171	792.2 0.3271278
792.3 0.2180277	792.3 0.1803473	792.3 0.303691
792.4 0.1861838	792.4 0.1571497	792.4 0.2837487
792.5 0.1722499	792.5 0.1440875	792.5 0.2519361
792.6 0.1870909	792.6 0.1541229	792.6 0.2437931
792.7 0.1887931	792.7 0.1637555	792.7 0.3022062
792.8 0.1450596	792.8 0.1435434	792.8 0.2348568
792.9 0.1519888	792.9 0.1431199	792.9 0.2687381
793 0.1678512	793 0.1382857	793 0.2614125
793.1 0.1466782	793.1 0.1539554	793.1 0.2987096
793.2 0.1380492	793.2 0.1602613	793.2 0.2675105
793.3 0.1613697	793.3 0.1636065	793.3 0.2563182
793.4 0.1924436	793.4 0.1613331	793.4 0.3030181
793.5 0.1848325	793.5 0.1452055	793.5 0.2930804
793.6 0.20576	793.6 0.1413092	793.6 0.2755423
793.7 0.1700356	793.7 0.1519254	793.7 0.2517424
793.8 0.1506342	793.8 0.1166825	793.8 0.2931074
793.9 0.1850857	793.9 0.1378333	793.9 0.2515638
794 0.1963512	794 0.144367	794 0.2897337
794.1 0.1978478	794.1 0.1484921	794.1 0.2897752
794.2 0.2209005	794.2 0.135715	794.2 0.2723084
794.3 0.1803282	794.3 0.1586263	794.3 0.2746104
794.4 0.143241	794.4 0.1205702	794.4 0.2643946
794.5 0.1925137	794.5 0.1717041	794.5 0.2891295
794.6 0.1493653	794.6 0.1346206	794.6 0.2719679
794.7 0.1574133	794.7 0.1211219	794.7 0.3029479
794.8 0.1643336	794.8 0.1438229	794.8 0.2856283
794.9 0.1604074	794.9 0.1551736	794.9 0.2976946
795 0.1535258	795 0.1791077	795 0.3222129
795.1 0.1388422	795.1 0.1456773	795.1 0.3663347
795.2 0.1577801	795.2 0.1511955	795.2 0.3432201
795.3 0.1513343	795.3 0.1252523	795.3 0.2574264
795.4 0.1408515	795.4 0.1434396	795.4 0.2718011

795.5 0.1867192	795.5 0.1479987	795.5 0.2817182
795.6 0.2043451	795.6 0.1494412	795.6 0.2614444
795.7 0.1837258	795.7 0.1751967	795.7 0.2999831
795.8 0.1704649	795.8 0.1366938	795.8 0.2707882
795.9 0.2218422	795.9 0.1748131	795.9 0.2522497
796 0.1947632	796 0.1571056	796 0.2627632
796.1 0.1641823	796.1 0.1625817	796.1 0.3110929
796.2 0.18048	796.2 0.1742252	796.2 0.2810439
796.3 0.1830854	796.3 0.1599908	796.3 0.2491941
796.4 0.2006305	796.4 0.1450666	796.4 0.315251
796.5 0.1973905	796.5 0.1639519	796.5 0.3029394
796.6 0.1789679	796.6 0.1448138	796.6 0.251101
796.7 0.1731234	796.7 0.1646832	796.7 0.2563931
796.8 0.1967038	796.8 0.1685205	796.8 0.2798816
796.9 0.1984893	796.9 0.1451351	796.9 0.2436556
797 0.1976112	797 0.135556	797 0.2530526
797.1 0.206026	797.1 0.1536665	797.1 0.3058439
797.2 0.2800092	797.2 0.1533855	797.2 0.2566481
797.3 0.1912217	797.3 0.1465716	797.3 0.3541013
797.4 0.2229737	797.4 0.1834042	797.4 0.3386603
797.5 0.2128383	797.5 0.1789512	797.5 0.307369
797.6 0.1771725	797.6 0.1635073	797.6 0.3290248
797.7 0.1995061	797.7 0.1346364	797.7 0.4009027
797.8 0.1780123	797.8 0.1474332	797.8 0.3276129
797.9 0.1666518	797.9 0.1468381	797.9 0.3103269
798 0.1689698	798 0.144319	798 0.271511
798.1 0.1814319	798.1 0.1440343	798.1 0.2618143
798.2 0.1622618	798.2 0.1367427	798.2 0.3444981
798.3 0.1897524	798.3 0.1317963	798.3 0.241207
798.4 0.1867723	798.4 0.1550009	798.4 0.2882659
798.5 0.1770357	798.5 0.1315185	798.5 0.273948
798.6 0.1790673	798.6 0.1394681	798.6 0.3409389
798.7 0.214236	798.7 0.1476573	798.7 0.2801432
798.8 0.1912356	798.8 0.1538506	798.8 0.2686219
798.9 0.1805878	798.9 0.1522125	798.9 0.3035871
799 0.1683583	799 0.1441768	799 0.296496
799.1 0.1820762	799.1 0.1298728	799.1 0.2963256
799.2 0.1721823	799.2 0.131918	799.2 0.2763042
799.3 0.1874278	799.3 0.1779694	799.3 0.2701935
799.4 0.2040005	799.4 0.1478704	799.4 0.2616659
799.5 0.1932133	799.5 0.1355673	799.5 0.304388
799.6 0.1592399	799.6 0.1672342	799.6 0.315994
799.7 0.1921168	799.7 0.1555264	799.7 0.3212013
799.8 0.1510194	799.8 0.1781878	799.8 0.2942199
799.9 0.1626044	799.9 0.1571849	799.9 0.3065397
800 0.1554678	800 0.1122227	800 0.3635975
800.1 0.1972157	800.1 0.1563205	800.1 0.340871
800.2 0.1592278	800.2 0.15806	800.2 0.2836708
800.3 0.1870454	800.3 0.1344679	800.3 0.2659495
800.4 0.1561159	800.4 0.1462106	800.4 0.2886942
800.5 0.1944275	800.5 0.1677572	800.5 0.3804979

800.6 0.2081319	800.6 0.1406923	800.6 0.37682
800.7 0.2193024	800.7 0.163983	800.7 0.2701765
800.8 0.1970558	800.8 0.142963	800.8 0.2963773
800.9 0.1366595	800.9 0.1490806	800.9 0.279675
801 0.1592659	801 0.147769	801 0.2964655
801.1 0.1250678	801.1 0.136979	801.1 0.322013
801.2 0.1272753	801.2 0.1347222	801.2 0.2732353
801.3 0.157216	801.3 0.1159789	801.3 0.2784417
801.4 0.2313735	801.4 0.1476763	801.4 0.3118314
801.5 0.1921488	801.5 0.1222024	801.5 0.2555637
801.6 0.1479686	801.6 0.1456529	801.6 0.3126254
801.7 0.1561099	801.7 0.1266936	801.7 0.3076035
801.8 0.1625602	801.8 0.1329683	801.8 0.3014679
801.9 0.1626424	801.9 0.144374	801.9 0.3363817
802 0.1473677	802 0.1203464	802 0.3472266
802.1 0.1580046	802.1 0.1212893	802.1 0.318836
802.2 0.147891	802.2 0.1509664	802.2 0.3294817
802.3 0.1580736	802.3 0.1412586	802.3 0.2925062
802.4 0.1638003	802.4 0.1299966	802.4 0.2441303
802.5 0.1562392	802.5 0.1487654	802.5 0.2590291
802.6 0.1637223	802.6 0.1557419	802.6 0.2782246
802.7 0.1703686	802.7 0.141616	802.7 0.3078382
802.8 0.191604	802.8 0.1247416	802.8 0.263203
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803 0.1436439	803 0.1332919	803 0.2935756
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803.3 0.1489703	803.3 0.1729886	803.3 0.2711368
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803.5 0.1717502	803.5 0.1533844	803.5 0.2837613
803.6 0.1407361	803.6 0.1392942	803.6 0.2680919
803.7 0.1429969	803.7 0.1454508	803.7 0.3078359
803.8 0.152545	803.8 0.1432628	803.8 0.3064861
803.9 0.1551526	803.9 0.1390013	803.9 0.2737512
804 0.1796242	804 0.1649251	804 0.2876597
804.1 0.2020158	804.1 0.1417297	804.1 0.2343581
804.2 0.2006115	804.2 0.1451664	804.2 0.2838733
804.3 0.168497	804.3 0.1654449	804.3 0.3694952
804.4 0.2140831	804.4 0.1702017	804.4 0.2790868
804.5 0.2459771	804.5 0.1252863	804.5 0.3915257
804.6 0.1696229	804.6 0.1351136	804.6 0.3573748
804.7 0.1677669	804.7 0.1247969	804.7 0.3197103
804.8 0.1683742	804.8 0.1188274	804.8 0.3141464
804.9 0.1722461	804.9 0.1141333	804.9 0.2671037
805 0.2077224	805 0.146788	805 0.3082436
805.1 0.2496175	805.1 0.1612519	805.1 0.2518425
805.2 0.2032444	805.2 0.1673596	805.2 0.2479282
805.3 0.2213735	805.3 0.1766212	805.3 0.3180359
805.4 0.2212429	805.4 0.1707965	805.4 0.302825
805.5 0.2071352	805.5 0.1855873	805.5 0.2759486
805.6 0.1965656	805.6 0.1925569	805.6 0.2846927

805.7 0.1748786	805.7 0.1848331	805.7 0.2982145
805.8 0.2128052	805.8 0.1971292	805.8 0.3247962
805.9 0.1459679	805.9 0.1979373	805.9 0.2316462
806 0.1300294	806 0.1833778	806 0.3441709
806.1 0.1708433	806.1 0.1883094	806.1 0.240454
806.2 0.1610464	806.2 0.1771283	806.2 0.296427
806.3 0.1533444	806.3 0.1863234	806.3 0.3255254
806.4 0.1541216	806.4 0.1897647	806.4 0.3049771
806.5 0.1627625	806.5 0.1809875	806.5 0.2797315
806.6 0.1403846	806.6 0.187999	806.6 0.2479367
806.7 0.2069244	806.7 0.1944271	806.7 0.2909537
806.8 0.1901981	806.8 0.1884491	806.8 0.2854573
806.9 0.2065112	806.9 0.1908067	806.9 0.3176466
807 0.1962591	807 0.157073	807 0.2829179
807.1 0.2051117	807.1 0.149451	807.1 0.2519524
807.2 0.2077964	807.2 0.1631885	807.2 0.2894456
807.3 0.1853401	807.3 0.1731012	807.3 0.3026527
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807.5 0.2156415	807.5 0.15604	807.5 0.3167686
807.6 0.2026245	807.6 0.136784	807.6 0.3064639
807.7 0.1565667	807.7 0.174407	807.7 0.2398889
807.8 0.203744	807.8 0.1584287	807.8 0.2752672
807.9 0.2133852	807.9 0.1288785	807.9 0.2544864
808 0.1606458	808 0.1521477	808 0.2744609
808.1 0.1439293	808.1 0.1585188	808.1 0.2887493
808.2 0.1400564	808.2 0.1214315	808.2 0.291922
808.3 0.1862186	808.3 0.1790604	808.3 0.2585246
808.4 0.1884432	808.4 0.1636789	808.4 0.2757475
808.5 0.1373769	808.5 0.1577177	808.5 0.3081885
808.6 0.1777609	808.6 0.1529822	808.6 0.2325421
808.7 0.2111579	808.7 0.1416263	808.7 0.2728496
808.8 0.2168855	808.8 0.162752	808.8 0.2380945
808.9 0.2059117	808.9 0.1675174	808.9 0.3787959
809 0.2364897	809 0.1593134	809 0.3997148
809.1 0.1945656	809.1 0.1480531	809.1 0.3153833
809.2 0.1904824	809.2 0.169512	809.2 0.3014238
809.3 0.1530437	809.3 0.1447133	809.3 0.3100263
809.4 0.1557639	809.4 0.1300138	809.4 0.2505232
809.5 0.1774617	809.5 0.1621402	809.5 0.2660799
809.6 0.1818018	809.6 0.1551015	809.6 0.257861
809.7 0.189192	809.7 0.1476685	809.7 0.2985397
809.8 0.2333957	809.8 0.1532793	809.8 0.2710943
809.9 0.227117	809.9 0.171205	809.9 0.3615954
810 0.2003012	810 0.1356225	810 0.3542897
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810.2 0.1989455	810.2 0.1328319	810.2 0.4650042
810.3 0.2294887	810.3 0.1295511	810.3 0.307911
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810.5 0.2116888	810.5 0.176017	810.5 0.4070409
810.6 0.2090407	810.6 0.1493809	810.6 0.3421102
810.7 0.2003041	810.7 0.1625311	810.7 0.3795834

810.8 0.2001263	810.8 0.15136	810.8 0.3239671
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811 0.2053106	811 0.1352576	811 0.3841698
811.1 0.1836298	811.1 0.1434068	811.1 0.4196155
811.2 0.164814	811.2 0.1765338	811.2 0.3127049
811.3 0.162597	811.3 0.1180361	811.3 0.2559285
811.4 0.1565431	811.4 0.1349176	811.4 0.2468054
811.5 0.1829109	811.5 0.1443232	811.5 0.2987344
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811.7 0.139591	811.7 0.1240907	811.7 0.3909988
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811.9 0.1558984	811.9 0.1264217	811.9 0.3752184
812 0.1759837	812 0.1109678	812 0.2689733
812.1 0.185111	812.1 0.1479758	812.1 0.2607212
812.2 0.1728898	812.2 0.135982	812.2 0.2960389
812.3 0.1849096	812.3 0.1500919	812.3 0.3718513
812.4 0.1700759	812.4 0.1311268	812.4 0.2980317
812.5 0.1860051	812.5 0.0998754	812.5 0.3181093
812.6 0.1942644	812.6 0.1166722	812.6 0.3370043
812.7 0.1936478	812.7 0.1423371	812.7 0.286292
812.8 0.1862147	812.8 0.1644497	812.8 0.3480774
812.9 0.1781436	812.9 0.1661236	812.9 0.3297341
813 0.1626833	813 0.1569731	813 0.2397324
813.1 0.1984467	813.1 0.1685472	813.1 0.3524181
813.2 0.1750777	813.2 0.157313	813.2 0.3153251
813.3 0.1896634	813.3 0.1933588	813.3 0.3151491
813.4 0.204965	813.4 0.1659905	813.4 0.3365676
813.5 0.2072226	813.5 0.1626829	813.5 0.2518919
813.6 0.2533061	813.6 0.1582527	813.6 0.2560815
813.7 0.2028746	813.7 0.148834	813.7 0.2710452
813.8 0.2098091	813.8 0.1361695	813.8 0.2889339
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814 0.2162942	814 0.1482796	814 0.2734899
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814.3 0.2121195	814.3 0.1425477	814.3 0.3297965
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814.5 0.1769644	814.5 0.1605799	814.5 0.2789403
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814.7 0.2022235	814.7 0.1379759	814.7 0.25092
814.8 0.2152433	814.8 0.1241404	814.8 0.2499992
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815 0.2304504	815 0.128067	815 0.368914
815.1 0.1896074	815.1 0.1447698	815.1 0.3540227
815.2 0.180351	815.2 0.1284664	815.2 0.3408213
815.3 0.2056782	815.3 0.1280118	815.3 0.3110434
815.4 0.1947783	815.4 0.1356947	815.4 0.2944388
815.5 0.2637163	815.5 0.1544554	815.5 0.2597235
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816 0.1506616	816 0.1295034	816 0.2433592
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816.7 0.2812901	816.7 0.171677	816.7 0.2447368
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817 0.2423298	817 0.1700277	817 0.2159137
817.1 0.2665845	817.1 0.1625142	817.1 0.3185109
817.2 0.2730587	817.2 0.1548561	817.2 0.27593
817.3 0.2277125	817.3 0.1575077	817.3 0.2713511
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817.5 0.2110307	817.5 0.1697914	817.5 0.2378876
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818 0.209214	818 0.1498123	818 0.2254349
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819 0.2638235	819 0.1617445	819 0.2670814
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819.2 0.277975	819.2 0.1519631	819.2 0.3161346
819.3 0.2627064	819.3 0.1648532	819.3 0.2577823
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822 0.2939363	822 0.1404704	822 0.381736
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823 0.2214396	823 0.1529315	823 0.2666405
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823.9 0.1660702	823.9 0.1816999	823.9 0.2892189
824 0.1598624	824 0.1802455	824 0.2590329
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824.9 0.1498552	824.9 0.1330635	824.9 0.250615
825 0.1964371	825 0.1584213	825 0.3069932
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825.2 0.2053065	825.2 0.1302474	825.2 0.2856922
825.3 0.1886211	825.3 0.1255251	825.3 0.2801389
825.4 0.1764728	825.4 0.134395	825.4 0.2485803
825.5 0.22501	825.5 0.1307202	825.5 0.236256
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825.8 0.1882976	825.8 0.1012028	825.8 0.2649465
825.9 0.2682326	825.9 0.1008952	825.9 0.319978
826 0.2486221	826 0.1172077	826 0.3627076

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826.2 0.277592	826.2 0.1139949	826.2 0.240557
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826.5 0.1984595	826.5 0.15447	826.5 0.4280452
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826.7 0.2532	826.7 0.1688265	826.7 0.2061467
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827 0.3213906	827 0.1248488	827 0.2169467
827.1 0.1630146	827.1 0.139311	827.1 0.2522764
827.2 0.2167197	827.2 0.1686743	827.2 0.2617492
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827.4 0.2337788	827.4 0.1140485	827.4 0.2496878
827.5 0.1769687	827.5 0.1299555	827.5 0.2415182
827.6 0.2543613	827.6 0.1019286	827.6 0.2440355
827.7 0.2095742	827.7 0.1283957	827.7 0.2961997
827.8 0.2083133	827.8 0.1268301	827.8 0.332319
827.9 0.1796454	827.9 0.1429146	827.9 0.328354
828 0.1703231	828 0.14445	828 0.2888689
828.1 0.1407492	828.1 0.164716	828.1 0.3068649
828.2 0.172916	828.2 0.1385958	828.2 0.2682522
828.3 0.1758495	828.3 0.1449002	828.3 0.2767792
828.4 0.126164	828.4 0.1832619	828.4 0.2332732
828.5 0.2052433	828.5 0.1813151	828.5 0.3160306
828.6 0.1584565	828.6 0.1619161	828.6 0.3251761
828.7 0.1644681	828.7 0.1442796	828.7 0.298204
828.8 0.2295773	828.8 0.1522307	828.8 0.3146416
828.9 0.2244586	828.9 0.1556278	828.9 0.2923097
829 0.1479414	829 0.1690301	829 0.3043198
829.1 0.1353848	829.1 0.2122106	829.1 0.2583325
829.2 0.1850806	829.2 0.1898973	829.2 0.2278077
829.3 0.1481897	829.3 0.1366499	829.3 0.2755958
829.4 0.1215838	829.4 0.1428881	829.4 0.2850098
829.5 0.1008329	829.5 0.1126332	829.5 0.3325954
829.6 0.1222188	829.6 0.1411213	829.6 0.3499949
829.7 0.1294469	829.7 0.136363	829.7 0.2629945
829.8 0.118513	829.8 0.1356141	829.8 0.2573355
829.9 0.1290542	829.9 0.1053109	829.9 0.2783975
830 0.1526382	830 0.146567	830 0.2857054
830.1 0.1339694	830.1 0.1284795	830.1 0.2605984
830.2 0.1560759	830.2 0.1259965	830.2 0.2486783
830.3 0.1485046	830.3 0.1396531	830.3 0.2560546
830.4 0.2056668	830.4 0.1623571	830.4 0.2936456
830.5 0.1572719	830.5 0.1071558	830.5 0.2718421
830.6 0.1485534	830.6 0.1477862	830.6 0.2938614
830.7 0.1279871	830.7 0.1392043	830.7 0.2906509
830.8 0.1354996	830.8 0.1591941	830.8 0.3114863
830.9 0.1380576	830.9 0.1314587	830.9 0.3941016
831 0.1199836	831 0.1634904	831 0.3742855
831.1 0.1328035	831.1 0.1612953	831.1 0.2750087

831.2 0.1273489	831.2 0.1626544	831.2 0.2793678
831.3 0.1218361	831.3 0.1134695	831.3 0.3102317
831.4 0.1398221	831.4 0.1162267	831.4 0.345035
831.5 0.1371276	831.5 0.1229838	831.5 0.3893207
831.6 0.103698	831.6 0.1302757	831.6 0.3493462
831.7 0.1540392	831.7 0.1497478	831.7 0.2634913
831.8 0.1458931	831.8 0.1542136	831.8 0.2769709
831.9 0.171146	831.9 0.1516202	831.9 0.2615206
832 0.13277	832 0.1503571	832 0.3286447
832.1 0.2200979	832.1 0.150252	832.1 0.3577425
832.2 0.1410405	832.2 0.1273245	832.2 0.3868855
832.3 0.115836	832.3 0.1531623	832.3 0.3161849
832.4 0.1104901	832.4 0.1554804	832.4 0.3332074
832.5 0.1334681	832.5 0.1625825	832.5 0.3043765
832.6 0.1210149	832.6 0.1394675	832.6 0.2743803
832.7 0.1533782	832.7 0.1411225	832.7 0.2471206
832.8 0.1306622	832.8 0.1321176	832.8 0.2431975
832.9 0.1394689	832.9 0.1454822	832.9 0.2500386
833 0.159218	833 0.1260219	833 0.3106022
833.1 0.1778989	833.1 0.1190748	833.1 0.2909448
833.2 0.1237959	833.2 0.1345205	833.2 0.2911758
833.3 0.2241965	833.3 0.1387804	833.3 0.2932154
833.4 0.2181194	833.4 0.1679376	833.4 0.2746799
833.5 0.219484	833.5 0.1623691	833.5 0.2680878
833.6 0.2209054	833.6 0.1429203	833.6 0.3131694
833.7 0.2087574	833.7 0.1589409	833.7 0.3037265
833.8 0.1970385	833.8 0.1611075	833.8 0.3280845
833.9 0.1565282	833.9 0.1149818	833.9 0.323538
834 0.1653689	834 0.1361057	834 0.3113699
834.1 0.1968096	834.1 0.1325077	834.1 0.2986924
834.2 0.1799701	834.2 0.1147857	834.2 0.311728
834.3 0.2057953	834.3 0.1189847	834.3 0.3898984
834.4 0.2137642	834.4 0.12271	834.4 0.3905659
834.5 0.2685878	834.5 0.1305136	834.5 0.2568517
834.6 0.1718297	834.6 0.136647	834.6 0.2562069
834.7 0.1825822	834.7 0.1427401	834.7 0.3052203
834.8 0.2108259	834.8 0.1434649	834.8 0.2823228
834.9 0.1939791	834.9 0.144836	834.9 0.2745842
835 0.1909363	835 0.1238476	835 0.3365349
835.1 0.1730161	835.1 0.1638352	835.1 0.4139519
835.2 0.1762582	835.2 0.1187664	835.2 0.4977275
835.3 0.1991259	835.3 0.1177505	835.3 0.2907709
835.4 0.1848135	835.4 0.1476414	835.4 0.2998234
835.5 0.1943505	835.5 0.1088253	835.5 0.2661819
835.6 0.2065547	835.6 0.1340738	835.6 0.2644141
835.7 0.2342234	835.7 0.1518272	835.7 0.2298732
835.8 0.1860869	835.8 0.1303804	835.8 0.2773447
835.9 0.1836062	835.9 0.1429798	835.9 0.2707619
836 0.1913839	836 0.1370102	836 0.3035521
836.1 0.1437371	836.1 0.1321619	836.1 0.3211014
836.2 0.142263	836.2 0.1374325	836.2 0.3040593

836.3 0.1938823	836.3 0.1442106	836.3 0.3096683
836.4 0.1579828	836.4 0.1689911	836.4 0.2914518
836.5 0.1527708	836.5 0.1521022	836.5 0.2617075
836.6 0.2014507	836.6 0.1223449	836.6 0.3470596
836.7 0.1883371	836.7 0.1333897	836.7 0.300647
836.8 0.0994317	836.8 0.1350189	836.8 0.2936912
836.9 0.1174958	836.9 0.1305142	836.9 0.4086493
837 0.1924711	837 0.1638391	837 0.2798855
837.1 0.1629602	837.1 0.1665114	837.1 0.2954565
837.2 0.188926	837.2 0.1097429	837.2 0.2682323
837.3 0.1901941	837.3 0.1245151	837.3 0.2645904
837.4 0.1427751	837.4 0.1114972	837.4 0.2931328
837.5 0.1505473	837.5 0.1256102	837.5 0.3201063
837.6 0.1290651	837.6 0.1656818	837.6 0.2964587
837.7 0.124085	837.7 0.1190316	837.7 0.2752863
837.8 0.177378	837.8 0.1176081	837.8 0.2903006
837.9 0.1218362	837.9 0.1190623	837.9 0.3230581
838 0.1074244	838 0.1303117	838 0.2659324
838.1 0.1133007	838.1 0.1185	838.1 0.3257972
838.2 0.1504335	838.2 0.1436125	838.2 0.2896881
838.3 0.1104404	838.3 0.1667225	838.3 0.4180236
838.4 0.1668318	838.4 0.1465808	838.4 0.2759601
838.5 0.097526	838.5 0.1433013	838.5 0.3074632
838.6 0.1220387	838.6 0.1488774	838.6 0.3209487
838.7 0.1208263	838.7 0.156662	838.7 0.317856
838.8 0.1110211	838.8 0.1070825	838.8 0.3109879
838.9 0.1136754	838.9 0.1501371	838.9 0.2752191
839 0.0966325	839 0.1782465	839 0.2405862
839.1 0.141886	839.1 0.1808185	839.1 0.2896881
839.2 0.1311781	839.2 0.1856838	839.2 0.3931214
839.3 0.12188	839.3 0.133374	839.3 0.3399735
839.4 0.1065693	839.4 0.1640341	839.4 0.2583313
839.5 0.1065467	839.5 0.1470243	839.5 0.2949283
839.6 0.1168343	839.6 0.1406137	839.6 0.3787533
839.7 0.1449398	839.7 0.1394513	839.7 0.2995516
839.8 0.0995577	839.8 0.1216251	839.8 0.3142292
839.9 0.1263091	839.9 0.1403105	839.9 0.3370808
840 0.0840414	840 0.1527245	840 0.3366894
840.1 0.1243457	840.1 0.1366451	840.1 0.4347268
840.2 0.1109838	840.2 0.110781	840.2 0.341063
840.3 0.2067797	840.3 0.1203933	840.3 0.3433204
840.4 0.1857832	840.4 0.1349029	840.4 0.3407809
840.5 0.3914407	840.5 0.1417932	840.5 0.3216202
840.6 0.2031254	840.6 0.1463446	840.6 0.3133125
840.7 0.1784506	840.7 0.153884	840.7 0.3423136
840.8 0.0989851	840.8 0.2053085	840.8 0.2921708
840.9 0.1501515	840.9 0.1172854	840.9 0.2954987
841 0.2484896	841 0.1350358	841 0.2799618
841.1 0.221023	841.1 0.1256798	841.1 0.27842
841.2 0.162162	841.2 0.1273921	841.2 0.324577
841.3 0.310888	841.3 0.1390429	841.3 0.3128146

841.4	0.133951	841.4	0.1154625	841.4	0.3742752
841.5	0.1493068	841.5	0.1250539	841.5	0.3165337
841.6	0.1249161	841.6	0.1788965	841.6	0.3471163
841.7	0.1293863	841.7	0.1377867	841.7	0.3926829
841.8	0.1553027	841.8	0.1694937	841.8	0.2784373
841.9	0.2247818	841.9	0.1679445	841.9	0.2922932
842	0.2057314	842	0.1768391	842	0.3163398
842.1	0.1564134	842.1	0.1760817	842.1	0.4246703
842.2	0.107624	842.2	0.149689	842.2	0.3542871
842.3	0.1158879	842.3	0.195156	842.3	0.3111561
842.4	0.125496	842.4	0.1883176	842.4	0.2979299
842.5	0.1319122	842.5	0.1837628	842.5	0.339189
842.6	0.1162804	842.6	0.1573827	842.6	0.2972862
842.7	0.144004	842.7	0.1795616	842.7	0.2762267
842.8	0.1704876	842.8	0.1753735	842.8	0.3013514
842.9	0.1008267	842.9	0.174587	842.9	0.3330307
843	0.1120907	843	0.1626079	843	0.3794806
843.1	0.1350059	843.1	0.1493048	843.1	0.2892632
843.2	0.1350169	843.2	0.1446468	843.2	0.305884
843.3	0.1847948	843.3	0.1489998	843.3	0.2802237
843.4	0.2011942	843.4	0.1563755	843.4	0.3690211
843.5	0.1545647	843.5	0.1382134	843.5	0.3049414
843.6	0.1433086	843.6	0.1546832	843.6	0.3098878
843.7	0.197373	843.7	0.1360084	843.7	0.3172843
843.8	0.1946753	843.8	0.1290137	843.8	0.3197346
843.9	0.2623347	843.9	0.1198363	843.9	0.3216292
844	0.1897249	844	0.1012329	844	0.4036058
844.1	0.1724256	844.1	0.1274461	844.1	0.3743041
844.2	0.1769753	844.2	0.1368114	844.2	0.2875122
844.3	0.1799361	844.3	0.1277797	844.3	0.2988279
844.4	0.1371592	844.4	0.1643303	844.4	0.2875046
844.5	0.118469	844.5	0.1124036	844.5	0.3430395
844.6	0.106507	844.6	0.1210021	844.6	0.2948722
844.7	0.1359046	844.7	0.1215494	844.7	0.3473741
844.8	0.1321653	844.8	0.1587587	844.8	0.3204146
844.9	0.1374299	844.9	0.1518132	844.9	0.2987317
845	0.1100744	845	0.1180409	845	0.3312294
845.1	0.1311968	845.1	0.1317844	845.1	0.3027144
845.2	0.1349631	845.2	0.1620246	845.2	0.3338925
845.3	0.1431431	845.3	0.1585828	845.3	0.3064702
845.4	0.118658	845.4	0.1549095	845.4	0.3179774
845.5	0.1393171	845.5	0.1675079	845.5	0.3980437
845.6	0.1166504	845.6	0.1498148	845.6	0.3167651
845.7	0.1281053	845.7	0.1483016	845.7	0.3438467
845.8	0.1235857	845.8	0.1724325	845.8	0.4281698
845.9	0.1404571	845.9	0.1679802	845.9	0.356318
846	0.1206783	846	0.1919313	846	0.2994092
846.1	0.1114031	846.1	0.1520811	846.1	0.3554725
846.2	0.154687	846.2	0.1239006	846.2	0.3445617
846.3	0.1574645	846.3	0.1299441	846.3	0.3770228
846.4	0.1101098	846.4	0.1262299	846.4	0.3439921

846.5 0.1024369	846.5 0.1478682	846.5 0.3747278
846.6 0.1101394	846.6 0.1071941	846.6 0.3107414
846.7 0.1850757	846.7 0.096323	846.7 0.3309798
846.8 0.1680473	846.8 0.0920958	846.8 0.286764
846.9 0.1554653	846.9 0.1028359	846.9 0.3465511
847 0.1307368	847 0.116489	847 0.3681814
847.1 0.1681661	847.1 0.1404248	847.1 0.333254
847.2 0.1704102	847.2 0.1139656	847.2 0.3151972
847.3 0.2683708	847.3 0.1388565	847.3 0.3353739
847.4 0.2289728	847.4 0.1034541	847.4 0.3886097
847.5 0.1220543	847.5 0.1319644	847.5 0.4265037
847.6 0.1377048	847.6 0.1095167	847.6 0.3286243
847.7 0.116095	847.7 0.1264456	847.7 0.5031043
847.8 0.2080303	847.8 0.1009257	847.8 0.4840753
847.9 0.1875502	847.9 0.1215626	847.9 0.4340827
848 0.207753	848 0.1111526	848 0.3289549
848.1 0.1752366	848.1 0.0865727	848.1 0.4205169
848.2 0.1385893	848.2 0.1179227	848.2 0.5111448
848.3 0.0858194	848.3 0.1303418	848.3 0.4637706
848.4 0.1368925	848.4 0.14435	848.4 0.3690158
848.5 0.1361273	848.5 0.1486422	848.5 0.399655
848.6 0.1417029	848.6 0.1437563	848.6 0.2933793
848.7 0.1097147	848.7 0.1423558	848.7 0.3915156
848.8 0.1202057	848.8 0.1409245	848.8 0.4193486
848.9 0.1483284	848.9 0.1496073	848.9 0.406444
849 0.1407967	849 0.1762318	849 0.3220122
849.1 0.1486002	849.1 0.1541095	849.1 0.3388537
849.2 0.111352	849.2 0.1650353	849.2 0.3073702
849.3 0.1042328	849.3 0.1663397	849.3 0.3751544
849.4 0.1582414	849.4 0.1707352	849.4 0.3774599
849.5 0.2767064	849.5 0.157278	849.5 0.3205561
849.6 0.2320868	849.6 0.1612006	849.6 0.3421891
849.7 0.0925519	849.7 0.2155032	849.7 0.3463399
849.8 0.1873821	849.8 0.1792676	849.8 0.3316113
849.9 0.1617346	849.9 0.1627219	849.9 0.3022502
850 0.1375806	850 0.1656711	850 0.3357938
850.1 0.1222619	850.1 0.1639144	850.1 0.2797374
850.2 0.1342057	850.2 0.1775017	850.2 0.3313271
850.3 0.1106184	850.3 0.1881783	850.3 0.2624237
850.4 0.1103357	850.4 0.1780228	850.4 0.3596055
850.5 0.1204525	850.5 0.1859442	850.5 0.3313469
850.6 0.1283893	850.6 0.1685776	850.6 0.3155152
850.7 0.1266975	850.7 0.1765855	850.7 0.2785876
850.8 0.1186342	850.8 0.167322	850.8 0.392504
850.9 0.1587748	850.9 0.1483924	850.9 0.2548797
851 0.1040944	851 0.187019	851 0.234361
851.1 0.1201094	851.1 0.1742232	851.1 0.272401
851.2 0.1126911	851.2 0.1688962	851.2 0.2632277
851.3 0.1145532	851.3 0.1670042	851.3 0.2744118
851.4 0.1078013	851.4 0.1654798	851.4 0.3124698
851.5 0.1139258	851.5 0.1478833	851.5 0.3952741

851.6	0.1169687	851.6	0.1796949	851.6	0.3826935
851.7	0.104128	851.7	0.1828813	851.7	0.3580579
851.8	0.1107624	851.8	0.1490975	851.8	0.2740595
851.9	0.1320848	851.9	0.1768205	851.9	0.2724312
852	0.1287	852	0.1549728	852	0.2815342
852.1	0.127277	852.1	0.182302	852.1	0.4043973
852.2	0.1290576	852.2	0.1499142	852.2	0.2596964
852.3	0.2486327	852.3	0.1365069	852.3	0.2734258
852.4	0.1431029	852.4	0.1492573	852.4	0.2625362
852.5	0.1520661	852.5	0.1473888	852.5	0.2780103
852.6	0.1730202	852.6	0.1738057	852.6	0.3072704
852.7	0.2015238	852.7	0.1531739	852.7	0.2854552
852.8	0.2165459	852.8	0.1615525	852.8	0.2526906
852.9	0.2880711	852.9	0.1539732	852.9	0.2493451
853	0.1495208	853	0.1377139	853	0.3248591
853.1	0.1315959	853.1	0.1305684	853.1	0.2479264
853.2	0.1326844	853.2	0.1473404	853.2	0.2657056
853.3	0.120935	853.3	0.17144	853.3	0.3223069
853.4	0.1141679	853.4	0.1531858	853.4	0.3645625
853.5	0.1463872	853.5	0.1796048	853.5	0.3202051
853.6	0.1197946	853.6	0.1441776	853.6	0.3135777
853.7	0.1284963	853.7	0.1301553	853.7	0.3025764
853.8	0.0919829	853.8	0.1328864	853.8	0.2768221
853.9	0.0961126	853.9	0.0896489	853.9	0.2852685
854	0.1118778	854	0.122364	854	0.2732284
854.1	0.1233473	854.1	0.1440035	854.1	0.3059837
854.2	0.1072209	854.2	0.1203562	854.2	0.3353697
854.3	0.1416058	854.3	0.1271644	854.3	0.2538848
854.4	0.1105482	854.4	0.1308391	854.4	0.2651626
854.5	0.1400858	854.5	0.1152048	854.5	0.2588127
854.6	0.1237217	854.6	0.1147319	854.6	0.2707118
854.7	0.1147856	854.7	0.1389627	854.7	0.2555952
854.8	0.1013584	854.8	0.1624382	854.8	0.2685882
854.9	0.1177336	854.9	0.1050443	854.9	0.2360786
855	0.1066536	855	0.0916179	855	0.30376
855.1	0.1116554	855.1	0.1084747	855.1	0.2401849
855.2	0.1492347	855.2	0.1347957	855.2	0.2763892
855.3	0.1179897	855.3	0.1075371	855.3	0.2703098
855.4	0.1045898	855.4	0.1107751	855.4	0.2727526
855.5	0.1039342	855.5	0.1497485	855.5	0.2810667
855.6	0.1395256	855.6	0.1496861	855.6	0.2506738
855.7	0.1238952	855.7	0.1345252	855.7	0.2654155
855.8	0.2039538	855.8	0.132349	855.8	0.2619601
855.9	0.1205816	855.9	0.1041023	855.9	0.2455681
856	0.1220819	856	0.1289921	856	0.2881871
856.1	0.1303553	856.1	0.1490181	856.1	0.2865786
856.2	0.1115616	856.2	0.128336	856.2	0.2420381
856.3	0.1056113	856.3	0.1153539	856.3	0.2599421
856.4	0.1267598	856.4	0.145744	856.4	0.2978891
856.5	0.1048288	856.5	0.1120128	856.5	0.3426738
856.6	0.1314831	856.6	0.1196553	856.6	0.258691

856.7 0.1533282	856.7 0.1121694	856.7 0.3091764
856.8 0.1254812	856.8 0.1271552	856.8 0.2827782
856.9 0.1039309	856.9 0.1680469	856.9 0.2523383
857 0.1561839	857 0.1158922	857 0.2826163
857.1 0.1145212	857.1 0.1339487	857.1 0.3469568
857.2 0.1030331	857.2 0.1430427	857.2 0.2863547
857.3 0.1284602	857.3 0.1345404	857.3 0.3187682
857.4 0.1295638	857.4 0.1136105	857.4 0.2943726
857.5 0.1687081	857.5 0.1214298	857.5 0.2810779
857.6 0.1493414	857.6 0.1226078	857.6 0.3287432
857.7 0.1148096	857.7 0.1353078	857.7 0.3066907
857.8 0.1417541	857.8 0.1482626	857.8 0.28923
857.9 0.1464142	857.9 0.1408986	857.9 0.3016804
858 0.1655601	858 0.1299717	858 0.3693779
858.1 0.2640648	858.1 0.1374117	858.1 0.3831245
858.2 0.1786532	858.2 0.1128812	858.2 0.4330735
858.3 0.1823986	858.3 0.1017405	858.3 0.2808295
858.4 0.1579263	858.4 0.112788	858.4 0.263431
858.5 0.1772354	858.5 0.111826	858.5 0.3006339
858.6 0.1818095	858.6 0.1106648	858.6 0.264558
858.7 0.2879663	858.7 0.1076821	858.7 0.3460867
858.8 0.1743388	858.8 0.1235474	858.8 0.3412552
858.9 0.2143908	858.9 0.1208561	858.9 0.4266767
859 0.1960914	859 0.1277925	859 0.4941221
859.1 0.2294593	859.1 0.144271	859.1 0.4471666
859.2 0.1457658	859.2 0.1307465	859.2 0.3876982
859.3 0.1882169	859.3 0.1749347	859.3 0.308752
859.4 0.1970764	859.4 0.1507586	859.4 0.3642533
859.5 0.1593537	859.5 0.1461803	859.5 0.338757
859.6 0.2442788	859.6 0.1612613	859.6 0.3461296
859.7 0.1263822	859.7 0.1731327	859.7 0.3626142
859.8 0.1566751	859.8 0.1505149	859.8 0.3226392
859.9 0.1807674	859.9 0.130345	859.9 0.3218535
860 0.1405551	860 0.1291922	860 0.3566755
860.1 0.1490571	860.1 0.1603315	860.1 0.3275285
860.2 0.1568069	860.2 0.1593852	860.2 0.3643859
860.3 0.126965	860.3 0.1781443	860.3 0.3785526
860.4 0.1556207	860.4 0.1696444	860.4 0.3948054
860.5 0.1257076	860.5 0.2041476	860.5 0.3585595
860.6 0.1347046	860.6 0.180665	860.6 0.3243046
860.7 0.1386249	860.7 0.1651111	860.7 0.366716
860.8 0.1289073	860.8 0.1886565	860.8 0.4081794
860.9 0.133872	860.9 0.1736453	860.9 0.3173598
861 0.1199087	861 0.1868574	861 0.3939031
861.1 0.1246365	861.1 0.1788654	861.1 0.3104349
861.2 0.129841	861.2 0.1498337	861.2 0.3477348
861.3 0.1052494	861.3 0.1856103	861.3 0.3537189
861.4 0.1107455	861.4 0.1730956	861.4 0.2979211
861.5 0.1180501	861.5 0.1944446	861.5 0.3551331
861.6 0.1617211	861.6 0.1824539	861.6 0.3938379
861.7 0.1383524	861.7 0.1986158	861.7 0.390948

861.8 0.1295142	861.8 0.1668803	861.8 0.3256637
861.9 0.1588268	861.9 0.1814358	861.9 0.3377646
862 0.1289699	862 0.1837422	862 0.3428388
862.1 0.1450878	862.1 0.140349	862.1 0.341539
862.2 0.1209387	862.2 0.193514	862.2 0.3610896
862.3 0.1484152	862.3 0.1474935	862.3 0.3732573
862.4 0.1299032	862.4 0.2029947	862.4 0.3573382
862.5 0.11145	862.5 0.1677646	862.5 0.3610944
862.6 0.1628722	862.6 0.1437343	862.6 0.3765188
862.7 0.1005498	862.7 0.1186298	862.7 0.3901724
862.8 0.1317535	862.8 0.136845	862.8 0.3760453
862.9 0.1410381	862.9 0.154382	862.9 0.4074121
863 0.1455256	863 0.1343707	863 0.3957464
863.1 0.181819	863.1 0.1171479	863.1 0.3956613
863.2 0.1615554	863.2 0.1251267	863.2 0.4463176
863.3 0.1167143	863.3 0.1166288	863.3 0.4790017
863.4 0.1021192	863.4 0.1012771	863.4 0.403509
863.5 0.1421894	863.5 0.1311318	863.5 0.3470416
863.6 0.1464192	863.6 0.1332763	863.6 0.3673675
863.7 0.1206618	863.7 0.1445762	863.7 0.3848292
863.8 0.1319653	863.8 0.1415991	863.8 0.3997941
863.9 0.1266782	863.9 0.1147804	863.9 0.3510135
864 0.1325429	864 0.1230988	864 0.3398736
864.1 0.1119929	864.1 0.1207086	864.1 0.35593
864.2 0.110456	864.2 0.1454358	864.2 0.3706162
864.3 0.1102301	864.3 0.1158465	864.3 0.3375342
864.4 0.1085667	864.4 0.1075969	864.4 0.3415713
864.5 0.128998	864.5 0.1182722	864.5 0.3201885
864.6 0.149346	864.6 0.1460371	864.6 0.3335178
864.7 0.2635607	864.7 0.1399498	864.7 0.3141933
864.8 0.2764828	864.8 0.1259776	864.8 0.3448105
864.9 0.2131549	864.9 0.1058729	864.9 0.3552558
865 0.1364209	865 0.1070968	865 0.3626202
865.1 0.1233004	865.1 0.1003629	865.1 0.3658598
865.2 0.1872342	865.2 0.1159706	865.2 0.346021
865.3 0.1637874	865.3 0.1128114	865.3 0.3579265
865.4 0.1452128	865.4 0.1130773	865.4 0.3961549
865.5 0.1492007	865.5 0.1273249	865.5 0.3536049
865.6 0.2174817	865.6 0.1210175	865.6 0.335874
865.7 0.1514215	865.7 0.1160774	865.7 0.3565876
865.8 0.1467078	865.8 0.1326572	865.8 0.3863539
865.9 0.1339824	865.9 0.1091176	865.9 0.3658997
866 0.1551109	866 0.1277949	866 0.3555287
866.1 0.1458062	866.1 0.1078925	866.1 0.3724485
866.2 0.1252474	866.2 0.1155791	866.2 0.3745776
866.3 0.1646012	866.3 0.1263634	866.3 0.3485341
866.4 0.1112429	866.4 0.1142166	866.4 0.3518531
866.5 0.1433577	866.5 0.1283344	866.5 0.3755484
866.6 0.1338892	866.6 0.1040776	866.6 0.3265333
866.7 0.1611583	866.7 0.102518	866.7 0.3388713
866.8 0.1662506	866.8 0.1179148	866.8 0.3329869

866.9 0.1519884	866.9 0.0965944	866.9 0.3369104
867 0.1471015	867 0.1081085	867 0.320658
867.1 0.1505373	867.1 0.1076483	867.1 0.321715
867.2 0.1382553	867.2 0.1070647	867.2 0.3344621
867.3 0.1260989	867.3 0.1046841	867.3 0.3326613
867.4 0.1172248	867.4 0.1249653	867.4 0.3203773
867.5 0.1257927	867.5 0.1467922	867.5 0.3415274
867.6 0.1477091	867.6 0.1297436	867.6 0.3218231
867.7 0.114381	867.7 0.1003164	867.7 0.3259094
867.8 0.1180703	867.8 0.1277996	867.8 0.3247489
867.9 0.1348581	867.9 0.1349532	867.9 0.3163514
868 0.1380568	868 0.1308324	868 0.3322825
868.1 0.1705567	868.1 0.1251847	868.1 0.3391719
868.2 0.1199294	868.2 0.1206931	868.2 0.3313195
868.3 0.1139325	868.3 0.1498888	868.3 0.3435522
868.4 0.1184089	868.4 0.1254352	868.4 0.3319993
868.5 0.092944	868.5 0.1138544	868.5 0.3482518
868.6 0.1620541	868.6 0.1399986	868.6 0.3484839
868.7 0.1528033	868.7 0.1448701	868.7 0.3775533
868.8 0.2384446	868.8 0.1474797	868.8 0.341223
868.9 0.1344416	868.9 0.1240741	868.9 0.3496312
869 0.1770692	869 0.1057621	869 0.3358096
869.1 0.1506286	869.1 0.119086	869.1 0.3695329
869.2 0.1330343	869.2 0.1202028	869.2 0.3486095
869.3 0.200302	869.3 0.1222894	869.3 0.3484514
869.4 0.1308305	869.4 0.101276	869.4 0.3453897
869.5 0.1258084	869.5 0.1195489	869.5 0.3470001
869.6 0.1218699	869.6 0.1016725	869.6 0.378871
869.7 0.1347318	869.7 0.1137304	869.7 0.3629805
869.8 0.1542638	869.8 0.0980796	869.8 0.3484986
869.9 0.1353885	869.9 0.1034323	869.9 0.3141975
870 0.1436375	870 0.1203899	870 0.3044849
870.1 0.15216	870.1 0.1332995	870.1 0.2933364
870.2 0.2069454	870.2 0.1049047	870.2 0.3339407
870.3 0.1144388	870.3 0.1016862	870.3 0.3375165
870.4 0.1329705	870.4 0.0918148	870.4 0.3230385
870.5 0.1321844	870.5 0.0903348	870.5 0.328808
870.6 0.1243515	870.6 0.0910049	870.6 0.3708275
870.7 0.1257897	870.7 0.1128732	870.7 0.3965728
870.8 0.1422955	870.8 0.1006623	870.8 0.3234513
870.9 0.1396422	870.9 0.1113059	870.9 0.3592472
871 0.1630623	871 0.1259027	871 0.384939
871.1 0.1940579	871.1 0.0871111	871.1 0.3515991
871.2 0.1499863	871.2 0.0855214	871.2 0.3351873
871.3 0.2786456	871.3 0.0855453	871.3 0.3345787
871.4 0.1441576	871.4 0.0980154	871.4 0.3343104
871.5 0.1352509	871.5 0.0912285	871.5 0.3375278
871.6 0.1566911	871.6 0.0800782	871.6 0.3111285
871.7 0.1219812	871.7 0.0981795	871.7 0.3214318
871.8 0.1261566	871.8 0.1084011	871.8 0.3366215
871.9 0.1160935	871.9 0.1325287	871.9 0.3413906

872 0.1187572	872 0.1358295	872 0.3265181
872.1 0.1870369	872.1 0.1111139	872.1 0.3263596
872.2 0.1604265	872.2 0.1078506	872.2 0.3216084
872.3 0.2017798	872.3 0.1072442	872.3 0.3439744
872.4 0.1483758	872.4 0.1213185	872.4 0.3168363
872.5 0.1333963	872.5 0.1524339	872.5 0.3136571
872.6 0.1189588	872.6 0.1323968	872.6 0.3185729
872.7 0.2822025	872.7 0.1601102	872.7 0.3138688
872.8 0.216609	872.8 0.1571589	872.8 0.2823622
872.9 0.2464856	872.9 0.1402238	872.9 0.3304794
873 0.1482747	873 0.1340675	873 0.3191037
873.1 0.1280741	873.1 0.1196286	873.1 0.296631
873.2 0.1168063	873.2 0.1418135	873.2 0.3326527
873.3 0.123289	873.3 0.1352857	873.3 0.2915341
873.4 0.1534178	873.4 0.1649842	873.4 0.3211678
873.5 0.1546948	873.5 0.1578162	873.5 0.366625
873.6 0.1747839	873.6 0.1970923	873.6 0.3403819
873.7 0.2954308	873.7 0.1416453	873.7 0.357026
873.8 0.2732981	873.8 0.1346058	873.8 0.3870054
873.9 0.3436649	873.9 0.1730916	873.9 0.4430462
874 0.2728635	874 0.1219353	874 0.3813469
874.1 0.4338383	874.1 0.1322318	874.1 0.3817802
874.2 0.3694125	874.2 0.1308479	874.2 0.3713147
874.3 0.4841124	874.3 0.1125283	874.3 0.3316922
874.4 0.3572325	874.4 0.137075	874.4 0.2980182
874.5 0.4767703	874.5 0.1536576	874.5 0.3208195
874.6 0.4032596	874.6 0.1153141	874.6 0.3198209
874.7 0.3703381	874.7 0.1262355	874.7 0.3583627
874.8 0.3692148	874.8 0.1246717	874.8 0.3480833
874.9 0.2705582	874.9 0.1536767	874.9 0.3611069
875 0.2653657	875 0.1314809	875 0.3689409
875.1 0.2078756	875.1 0.1216882	875.1 0.3252264
875.2 0.1763556	875.2 0.1091432	875.2 0.3321877
875.3 0.1375363	875.3 0.1338222	875.3 0.3775352
875.4 0.1266404	875.4 0.1297589	875.4 0.4196784
875.5 0.165429	875.5 0.1460472	875.5 0.4105491
875.6 0.1907623	875.6 0.1240324	875.6 0.3660816
875.7 0.1138214	875.7 0.1171814	875.7 0.4057456
875.8 0.1921731	875.8 0.1103475	875.8 0.3468866
875.9 0.1514075	875.9 0.1121801	875.9 0.3886965
876 0.1790959	876 0.1485495	876 0.3905099
876.1 0.126495	876.1 0.1239914	876.1 0.4319609
876.2 0.1558327	876.2 0.1443505	876.2 0.382534
876.3 0.1908979	876.3 0.141614	876.3 0.3801278
876.4 0.1734642	876.4 0.1502172	876.4 0.3555343
876.5 0.2656724	876.5 0.1521989	876.5 0.3350374
876.6 0.1403106	876.6 0.1290887	876.6 0.3260319
876.7 0.1228561	876.7 0.1241406	876.7 0.387399
876.8 0.1181888	876.8 0.128985	876.8 0.3281816
876.9 0.1246058	876.9 0.1496252	876.9 0.2784463
877 0.2134122	877 0.1180257	877 0.3117302

877.1 0.1865994	877.1 0.1556472	877.1 0.3318968
877.2 0.136168	877.2 0.1107748	877.2 0.3486925
877.3 0.1332406	877.3 0.1378563	877.3 0.3252416
877.4 0.249892	877.4 0.1411808	877.4 0.2999617
877.5 0.1352185	877.5 0.1175538	877.5 0.3349494
877.6 0.1047651	877.6 0.1164715	877.6 0.3332874
877.7 0.1012328	877.7 0.1186289	877.7 0.3527378
877.8 0.1276371	877.8 0.1351899	877.8 0.3286019
877.9 0.1243365	877.9 0.1075084	877.9 0.3582501
878 0.1423422	878 0.1205144	878 0.3685065
878.1 0.1218449	878.1 0.1248982	878.1 0.3397239
878.2 0.1105647	878.2 0.1205641	878.2 0.3052648
878.3 0.1202578	878.3 0.1238901	878.3 0.319376
878.4 0.0809561	878.4 0.1385102	878.4 0.3384015
878.5 0.1462872	878.5 0.1374117	878.5 0.3104339
878.6 0.1164582	878.6 0.1366871	878.6 0.3065987
878.7 0.1220543	878.7 0.1416065	878.7 0.3490809
878.8 0.2158787	878.8 0.1402715	878.8 0.3584124
878.9 0.157989	878.9 0.1304903	878.9 0.3411185
879 0.1659214	879 0.1535217	879 0.3354551
879.1 0.1487034	879.1 0.103332	879.1 0.3210096
879.2 0.1245328	879.2 0.1110427	879.2 0.3226009
879.3 0.1832289	879.3 0.1227889	879.3 0.3202798
879.4 0.168678	879.4 0.1590654	879.4 0.3459861
879.5 0.1661896	879.5 0.1534678	879.5 0.2993777
879.6 0.1664114	879.6 0.1451937	879.6 0.3313703
879.7 0.237282	879.7 0.1216871	879.7 0.3140379
879.8 0.201591	879.8 0.1149065	879.8 0.3541827
879.9 0.1728496	879.9 0.1125323	879.9 0.3381107
880 0.1604691	880 0.1160853	880 0.3677996
880.1 0.2071341	880.1 0.1150843	880.1 0.3833257
880.2 0.1820965	880.2 0.1453734	880.2 0.3693791
880.3 0.2064198	880.3 0.1692032	880.3 0.3834186
880.4 0.138985	880.4 0.1531645	880.4 0.3566433
880.5 0.1800849	880.5 0.1142461	880.5 0.3794258
880.6 0.1151595	880.6 0.1383446	880.6 0.3989071
880.7 0.1327165	880.7 0.1438186	880.7 0.4069121
880.8 0.1635189	880.8 0.1467631	880.8 0.5094296
880.9 0.1679231	880.9 0.1413038	880.9 0.4340369
881 0.1467146	881 0.1395201	881 0.4368883
881.1 0.1506042	881.1 0.143627	881.1 0.3754791
881.2 0.2174178	881.2 0.1063915	881.2 0.3456473
881.3 0.1776538	881.3 0.1162269	881.3 0.3474167
881.4 0.1576132	881.4 0.1133073	881.4 0.3192294
881.5 0.1300513	881.5 0.0991736	881.5 0.3414812
881.6 0.1397868	881.6 0.0998891	881.6 0.3399913
881.7 0.134263	881.7 0.1023647	881.7 0.3124342
881.8 0.1380542	881.8 0.0900649	881.8 0.3237782
881.9 0.1035372	881.9 0.1285609	881.9 0.3140029
882 0.1301603	882 0.1367074	882 0.3679027
882.1 0.1215671	882.1 0.1236229	882.1 0.3333215

882.2 0.1548649	882.2 0.1129536	882.2 0.3561625
882.3 0.1255515	882.3 0.1318938	882.3 0.3331111
882.4 0.1499178	882.4 0.1184239	882.4 0.3490072
882.5 0.1082224	882.5 0.1332154	882.5 0.3363479
882.6 0.1159655	882.6 0.1151409	882.6 0.3115311
882.7 0.1258797	882.7 0.1006388	882.7 0.3254385
882.8 0.1391979	882.8 0.1089806	882.8 0.324894
882.9 0.1609766	882.9 0.1428718	882.9 0.3043331
883 0.0997764	883 0.1134201	883 0.3426933
883.1 0.163889	883.1 0.0967694	883.1 0.3251207
883.2 0.1179204	883.2 0.1184918	883.2 0.3066526
883.3 0.1465041	883.3 0.1279096	883.3 0.3132415
883.4 0.1232499	883.4 0.1035995	883.4 0.3371523
883.5 0.1180049	883.5 0.1003422	883.5 0.3147387
883.6 0.1590985	883.6 0.112962	883.6 0.3198627
883.7 0.1248769	883.7 0.1122508	883.7 0.3428564
883.8 0.1246661	883.8 0.1224454	883.8 0.3084802
883.9 0.1361511	883.9 0.1357324	883.9 0.3133305
884 0.1415516	884 0.1383339	884 0.3344132
884.1 0.1386711	884.1 0.1025274	884.1 0.3206454
884.2 0.1033183	884.2 0.116262	884.2 0.3157315
884.3 0.1460704	884.3 0.1340044	884.3 0.3303376
884.4 0.1453332	884.4 0.1367254	884.4 0.3179055
884.5 0.1274131	884.5 0.1097951	884.5 0.3217229
884.6 0.1622697	884.6 0.1239897	884.6 0.3383038
884.7 0.157425	884.7 0.1088181	884.7 0.3510518
884.8 0.1287303	884.8 0.1272484	884.8 0.3962289
884.9 0.1213522	884.9 0.130361	884.9 0.3359616
885 0.1564543	885 0.1201147	885 0.3279796
885.1 0.1206404	885.1 0.1103981	885.1 0.340112
885.2 0.0799694	885.2 0.1219352	885.2 0.3718311
885.3 0.0926901	885.3 0.1268713	885.3 0.3562553
885.4 0.1111649	885.4 0.1226849	885.4 0.3564938
885.5 0.1333754	885.5 0.115315	885.5 0.3577822
885.6 0.1466753	885.6 0.1784486	885.6 0.319511
885.7 0.121535	885.7 0.1351688	885.7 0.3353397
885.8 0.1210815	885.8 0.1205943	885.8 0.3218656
885.9 0.1102553	885.9 0.1177338	885.9 0.3214447
886 0.097071	886 0.1246147	886 0.34965
886.1 0.1430067	886.1 0.1282454	886.1 0.3602533
886.2 0.1215862	886.2 0.1175372	886.2 0.3364103
886.3 0.1168513	886.3 0.1332505	886.3 0.308067
886.4 0.113534	886.4 0.1333049	886.4 0.3289268
886.5 0.1160769	886.5 0.1372294	886.5 0.3339589
886.6 0.0862474	886.6 0.1227244	886.6 0.3452838
886.7 0.1154991	886.7 0.1188461	886.7 0.3350077
886.8 0.1285923	886.8 0.1096757	886.8 0.3312939
886.9 0.148261	886.9 0.1341625	886.9 0.333014
887 0.1389962	887 0.136082	887 0.3521471
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887.2 0.0960423	887.2 0.0927807	887.2 0.3319863

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887.5 0.1030114	887.5 0.1051518	887.5 0.3186335
887.6 0.1257086	887.6 0.0921778	887.6 0.3417727
887.7 0.1220038	887.7 0.1018949	887.7 0.3545764
887.8 0.1153837	887.8 0.0823064	887.8 0.3329807
887.9 0.1186114	887.9 0.1142624	887.9 0.3541184
888 0.101478	888 0.0920014	888 0.330979
888.1 0.1060836	888.1 0.097459	888.1 0.3441909
888.2 0.1371038	888.2 0.1047261	888.2 0.3271765
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888.4 0.1442039	888.4 0.0833031	888.4 0.3416077
888.5 0.1064621	888.5 0.1101557	888.5 0.3403164
888.6 0.1291193	888.6 0.0945214	888.6 0.372082
888.7 0.1142748	888.7 0.1338163	888.7 0.3592454
888.8 0.0964237	888.8 0.1342543	888.8 0.3562273
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889 0.1300567	889 0.158669	889 0.3469656
889.1 0.1481565	889.1 0.1588837	889.1 0.3439633
889.2 0.1354091	889.2 0.1365711	889.2 0.3435523
889.3 0.1486581	889.3 0.1827676	889.3 0.3461709
889.4 0.1555059	889.4 0.1499487	889.4 0.3242591
889.5 0.1437104	889.5 0.1295431	889.5 0.3359299
889.6 0.1188969	889.6 0.1329239	889.6 0.3428938
889.7 0.1342373	889.7 0.1284279	889.7 0.3631848
889.8 0.1571721	889.8 0.1471037	889.8 0.3759247
889.9 0.177694	889.9 0.1412839	889.9 0.3534469
890 0.1166731	890 0.1391335	890 0.3806998
890.1 0.1679785	890.1 0.1296989	890.1 0.3316737
890.2 0.1320605	890.2 0.1506774	890.2 0.3456294
890.3 0.1928346	890.3 0.1653283	890.3 0.3312432
890.4 0.2237389	890.4 0.1383145	890.4 0.3596002
890.5 0.0993127	890.5 0.1350364	890.5 0.3332804
890.6 0.1447799	890.6 0.1386311	890.6 0.3448134
890.7 0.139482	890.7 0.1268044	890.7 0.3314486
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890.9 0.1357249	890.9 0.1372626	890.9 0.3501959
891 0.1554246	891 0.1528485	891 0.3295646
891.1 0.0985349	891.1 0.1157475	891.1 0.3422331
891.2 0.1370238	891.2 0.1347202	891.2 0.3173972
891.3 0.1079773	891.3 0.1442971	891.3 0.3534432
891.4 0.169078	891.4 0.1431107	891.4 0.3756429
891.5 0.1781719	891.5 0.1471613	891.5 0.3369204
891.6 0.1685022	891.6 0.1269457	891.6 0.3215577
891.7 0.0826549	891.7 0.1426691	891.7 0.3163385
891.8 0.1453658	891.8 0.1167059	891.8 0.3291714
891.9 0.1284058	891.9 0.1222216	891.9 0.3276008
892 0.1496246	892 0.1501474	892 0.3423076
892.1 0.1139903	892.1 0.1568975	892.1 0.3279202
892.2 0.1130768	892.2 0.1165096	892.2 0.359057
892.3 0.1056702	892.3 0.1309237	892.3 0.3878599

892.4	0.119856	892.4	0.1361155	892.4	0.3032208
892.5	0.141183	892.5	0.1410777	892.5	0.3465492
892.6	0.1733998	892.6	0.1462307	892.6	0.3997579
892.7	0.1849989	892.7	0.1408948	892.7	0.3343043
892.8	0.1401616	892.8	0.1263533	892.8	0.3398454
892.9	0.1186861	892.9	0.1303687	892.9	0.3209963
893	0.1331161	893	0.124743	893	0.3439596
893.1	0.1794788	893.1	0.1352394	893.1	0.3882059
893.2	0.1832573	893.2	0.1345087	893.2	0.3356212
893.3	0.2507704	893.3	0.130461	893.3	0.3401684
893.4	0.2371393	893.4	0.1363782	893.4	0.3280091
893.5	0.1468731	893.5	0.1382482	893.5	0.3069477
893.6	0.1894838	893.6	0.1252461	893.6	0.3191384
893.7	0.2169919	893.7	0.1650496	893.7	0.3054408
893.8	0.1885817	893.8	0.1561821	893.8	0.327421
893.9	0.1542536	893.9	0.1842117	893.9	0.3391995
894	0.1920624	894	0.1855938	894	0.3478044
894.1	0.127181	894.1	0.1812424	894.1	0.3341257
894.2	0.1374037	894.2	0.1841422	894.2	0.3242945
894.3	0.1512966	894.3	0.1655713	894.3	0.3324417
894.4	0.2251978	894.4	0.1837515	894.4	0.3381312
894.5	0.196817	894.5	0.1819209	894.5	0.3357607
894.6	0.203952	894.6	0.1957866	894.6	0.3969001
894.7	0.1790921	894.7	0.1409134	894.7	0.3372822
894.8	0.2251942	894.8	0.1439116	894.8	0.3530675
894.9	0.2063188	894.9	0.1373418	894.9	0.3398956
895	0.1779349	895	0.1536839	895	0.3319106
895.1	0.1787821	895.1	0.1223135	895.1	0.3352713
895.2	0.2237644	895.2	0.1392004	895.2	0.3445497
895.3	0.168108	895.3	0.1272084	895.3	0.3190428
895.4	0.1560164	895.4	0.1490357	895.4	0.3424545
895.5	0.1922654	895.5	0.1579996	895.5	0.3360735
895.6	0.1859412	895.6	0.1576321	895.6	0.3629207
895.7	0.1829276	895.7	0.1665035	895.7	0.3719958
895.8	0.1506121	895.8	0.1110964	895.8	0.3124785
895.9	0.1342948	895.9	0.1829691	895.9	0.3202113
896	0.1269006	896	0.1540851	896	0.3060857
896.1	0.1095514	896.1	0.2091492	896.1	0.3811352
896.2	0.1519432	896.2	0.1544892	896.2	0.4350159
896.3	0.1969292	896.3	0.1825257	896.3	0.4441296
896.4	0.1672199	896.4	0.1785213	896.4	0.4366964
896.5	0.220508	896.5	0.1561239	896.5	0.5038698
896.6	0.1674875	896.6	0.135923	896.6	0.4265103
896.7	0.1532495	896.7	0.1762254	896.7	0.4236955
896.8	0.1428645	896.8	0.1613511	896.8	0.3824395
896.9	0.1218999	896.9	0.1506508	896.9	0.3631015
897	0.1423542	897	0.1608398	897	0.3373775
897.1	0.1170193	897.1	0.1427511	897.1	0.4269028
897.2	0.1487086	897.2	0.1336626	897.2	0.3906264
897.3	0.137597	897.3	0.1231428	897.3	0.3837067
897.4	0.187616	897.4	0.1464242	897.4	0.3559862

897.5 0.2417803	897.5 0.1331196	897.5 0.3556167
897.6 0.2219294	897.6 0.1385325	897.6 0.4457803
897.7 0.2952568	897.7 0.1395421	897.7 0.3173558
897.8 0.1960126	897.8 0.1397922	897.8 0.319369
897.9 0.2346897	897.9 0.1124591	897.9 0.2535323
898 0.1926295	898 0.0831806	898 0.2820469
898.1 0.1305599	898.1 0.083868	898.1 0.2854716
898.2 0.1820818	898.2 0.0785997	898.2 0.3087196
898.3 0.2054979	898.3 0.1218946	898.3 0.3347241
898.4 0.2734577	898.4 0.1109615	898.4 0.4525667
898.5 0.1911887	898.5 0.0983654	898.5 0.4688279
898.6 0.2198688	898.6 0.1022379	898.6 0.4778685
898.7 0.1885784	898.7 0.093485	898.7 0.4557443
898.8 0.1834774	898.8 0.1150068	898.8 0.4218111
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899 0.1423152	899 0.0932866	899 0.3746938
899.1 0.1535145	899.1 0.0980327	899.1 0.3998914
899.2 0.1443207	899.2 0.0885564	899.2 0.3416715
899.3 0.1384974	899.3 0.0913955	899.3 0.4133989
899.4 0.1473378	899.4 0.0853106	899.4 0.3967777
899.5 0.1579462	899.5 0.11351	899.5 0.3975473
899.6 0.1143481	899.6 0.0939821	899.6 0.3666202
899.7 0.1190703	899.7 0.1091082	899.7 0.3885676
899.8 0.1093619	899.8 0.1156066	899.8 0.3964416
899.9 0.1232088	899.9 0.1103862	899.9 0.3739973
900 0.1521514	900 0.1459648	900 0.3748743
900.1 0.1339732	900.1 0.1343445	900.1 0.4060797
900.2 0.1571754	900.2 0.1185051	900.2 0.3316013
900.3 0.1559515	900.3 0.1243068	900.3 0.3109854
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900.6 0.2230154	900.6 0.0978528	900.6 0.2942562
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901 0.1331634	901 0.1122348	901 0.2764284
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901.2 0.1480016	901.2 0.1082651	901.2 0.3331152
901.3 0.1773704	901.3 0.1177485	901.3 0.2844464
901.4 0.1450375	901.4 0.130579	901.4 0.3188175
901.5 0.114087	901.5 0.125299	901.5 0.3077376
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902 0.2050962	902 0.1234336	902 0.2713066
902.1 0.1141155	902.1 0.1370147	902.1 0.2935466
902.2 0.1327508	902.2 0.1407772	902.2 0.291598
902.3 0.1796917	902.3 0.1480291	902.3 0.3072509
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902.6 0.2385067	902.6 0.1374343	902.6 0.3469613
902.7 0.1309604	902.7 0.1648664	902.7 0.3029047
902.8 0.159079	902.8 0.1529965	902.8 0.29616
902.9 0.1404905	902.9 0.130149	902.9 0.2726556
903 0.1459792	903 0.1005349	903 0.3125075
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903.3 0.151484	903.3 0.115894	903.3 0.2791909
903.4 0.1875426	903.4 0.1194106	903.4 0.3068014
903.5 0.1255737	903.5 0.1214862	903.5 0.2800708
903.6 0.1535884	903.6 0.1454494	903.6 0.3014104
903.7 0.1317062	903.7 0.1210853	903.7 0.3144735
903.8 0.1723537	903.8 0.1216755	903.8 0.2788178
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904 0.1711894	904 0.1356325	904 0.2787042
904.1 0.106981	904.1 0.1241144	904.1 0.2960451
904.2 0.1121964	904.2 0.135249	904.2 0.3011362
904.3 0.1478318	904.3 0.1263595	904.3 0.3344035
904.4 0.142382	904.4 0.1235487	904.4 0.2983762
904.5 0.1265589	904.5 0.1721323	904.5 0.3337916
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905 0.1470078	905 0.137732	905 0.3899616
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905.2 0.1229096	905.2 0.1433318	905.2 0.4534121
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906 0.1531322	906 0.1660157	906 0.4821486
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906.2 0.2048291	906.2 0.1331597	906.2 0.3955576
906.3 0.1561877	906.3 0.1270909	906.3 0.4262694
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906.5 0.1726078	906.5 0.1306596	906.5 0.2923254
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906.7 0.1386566	906.7 0.1346685	906.7 0.3252927
906.8 0.1216572	906.8 0.1077879	906.8 0.2639914
906.9 0.1301221	906.9 0.1572932	906.9 0.2889401
907 0.1244278	907 0.1368033	907 0.2888377
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907.2 0.1176297	907.2 0.1285867	907.2 0.2869235
907.3 0.1348477	907.3 0.1116668	907.3 0.285361
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907.5 0.123062	907.5 0.107576	907.5 0.311421
907.6 0.1237476	907.6 0.1296392	907.6 0.2782932

907.7 0.1494085	907.7 0.1219694	907.7 0.2629831
907.8 0.1205499	907.8 0.1143279	907.8 0.2906699
907.9 0.1223637	907.9 0.1376689	907.9 0.3315088
908 0.1275126	908 0.1248577	908 0.2980467
908.1 0.114431	908.1 0.1292641	908.1 0.2768366
908.2 0.1454773	908.2 0.1297324	908.2 0.2678051
908.3 0.1293831	908.3 0.1398101	908.3 0.285714
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909 0.1532838	909 0.1138161	909 0.2674432
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909.2 0.1387548	909.2 0.1527871	909.2 0.292542
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909.4 0.1347468	909.4 0.1456936	909.4 0.2792945
909.5 0.1172129	909.5 0.145006	909.5 0.294676
909.6 0.1831395	909.6 0.1010447	909.6 0.2785046
909.7 0.1057223	909.7 0.098975	909.7 0.2902518
909.8 0.1418884	909.8 0.0964363	909.8 0.3099397
909.9 0.1134007	909.9 0.1083861	909.9 0.3121735
910 0.0940531	910 0.1080604	910 0.3185256
910.1 0.1267163	910.1 0.1052246	910.1 0.2924911
910.2 0.1228238	910.2 0.1325633	910.2 0.3041042
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910.5 0.1445033	910.5 0.1611394	910.5 0.3026541
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910.8 0.1453093	910.8 0.1367136	910.8 0.3319211
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911 0.2182521	911 0.1610907	911 0.3565904
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911.2 0.1716377	911.2 0.1509288	911.2 0.3001367
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911.4 0.1558921	911.4 0.1536455	911.4 0.2818058
911.5 0.2484237	911.5 0.1163353	911.5 0.2920677
911.6 0.2851687	911.6 0.1677399	911.6 0.2832429
911.7 0.2305029	911.7 0.1412771	911.7 0.3264763
911.8 0.1464706	911.8 0.1585972	911.8 0.3041856
911.9 0.1682992	911.9 0.1258451	911.9 0.291007
912 0.1808249	912 0.1335263	912 0.3434922
912.1 0.1837969	912.1 0.1218541	912.1 0.3363562
912.2 0.1641143	912.2 0.1320125	912.2 0.3430389
912.3 0.1619349	912.3 0.1450023	912.3 0.3296043
912.4 0.1608998	912.4 0.1305192	912.4 0.3637456
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912.6 0.1386793	912.6 0.1549538	912.6 0.3512218
912.7 0.1342118	912.7 0.1210295	912.7 0.3420314

912.8 0.1475378	912.8 0.1571053	912.8 0.3246821
912.9 0.1989881	912.9 0.1573094	912.9 0.3324935
913 0.1500123	913 0.1332507	913 0.3292943
913.1 0.131916	913.1 0.1114197	913.1 0.4318446
913.2 0.1394324	913.2 0.1473469	913.2 0.3655841
913.3 0.1240345	913.3 0.1489208	913.3 0.3154162
913.4 0.1065416	913.4 0.1837881	913.4 0.331172
913.5 0.1132493	913.5 0.1305619	913.5 0.3419448
913.6 0.1153256	913.6 0.1425869	913.6 0.3576209
913.7 0.106305	913.7 0.1420922	913.7 0.3093176
913.8 0.1201993	913.8 0.116485	913.8 0.3436751
913.9 0.1206672	913.9 0.146129	913.9 0.3285751
914 0.1353083	914 0.1237113	914 0.304963
914.1 0.1181681	914.1 0.1134004	914.1 0.3283959
914.2 0.1511106	914.2 0.1475266	914.2 0.3105747
914.3 0.1587521	914.3 0.1178684	914.3 0.3182976
914.4 0.2391815	914.4 0.1233246	914.4 0.2927032
914.5 0.1541544	914.5 0.1143069	914.5 0.2951491
914.6 0.1022024	914.6 0.105033	914.6 0.3397447
914.7 0.2211018	914.7 0.1353183	914.7 0.2994402
914.8 0.1572313	914.8 0.1301595	914.8 0.3073174
914.9 0.1402687	914.9 0.113599	914.9 0.2811363
915 0.1599779	915 0.1114222	915 0.3356867
915.1 0.1292049	915.1 0.1267903	915.1 0.323157
915.2 0.1193797	915.2 0.1372533	915.2 0.2937998
915.3 0.1508832	915.3 0.0962687	915.3 0.2935688
915.4 0.1760278	915.4 0.1499703	915.4 0.340311
915.5 0.1544557	915.5 0.1123546	915.5 0.2528392
915.6 0.1579051	915.6 0.1099117	915.6 0.2879176
915.7 0.1853186	915.7 0.111432	915.7 0.3201995
915.8 0.2499711	915.8 0.1254416	915.8 0.2632039
915.9 0.3251422	915.9 0.1238972	915.9 0.2918598
916 0.3111016	916 0.137308	916 0.3508114
916.1 0.243136	916.1 0.1315647	916.1 0.3393899
916.2 0.2891861	916.2 0.1317882	916.2 0.2858377
916.3 0.2076214	916.3 0.1415593	916.3 0.3019845
916.4 0.1225064	916.4 0.1305855	916.4 0.308037
916.5 0.1254026	916.5 0.1245717	916.5 0.3073898
916.6 0.1679195	916.6 0.1428882	916.6 0.3047894
916.7 0.1442557	916.7 0.1189462	916.7 0.2928041
916.8 0.2093551	916.8 0.1390306	916.8 0.2526929
916.9 0.2053864	916.9 0.1449572	916.9 0.2879561
917 0.1315738	917 0.1476837	917 0.3551721
917.1 0.199757	917.1 0.1375818	917.1 0.2337469
917.2 0.1702427	917.2 0.1419172	917.2 0.2367202
917.3 0.1776447	917.3 0.1618626	917.3 0.2367055
917.4 0.1549812	917.4 0.1381122	917.4 0.2828257
917.5 0.1044674	917.5 0.1191193	917.5 0.306471
917.6 0.1240662	917.6 0.1366449	917.6 0.2761954
917.7 0.0972442	917.7 0.1344969	917.7 0.2810771
917.8 0.1108312	917.8 0.1409788	917.8 0.3078884

917.9 0.1432142	917.9 0.1185754	917.9 0.40695
918 0.1340892	918 0.1375026	918 0.3734325
918.1 0.12035	918.1 0.1486699	918.1 0.2877463
918.2 0.2257221	918.2 0.0909267	918.2 0.2811723
918.3 0.185819	918.3 0.1114245	918.3 0.2487451
918.4 0.1458745	918.4 0.131917	918.4 0.2762277
918.5 0.1725369	918.5 0.1287524	918.5 0.2660486
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918.7 0.1343281	918.7 0.1433768	918.7 0.2245249
918.8 0.1040654	918.8 0.1374341	918.8 0.2755568
918.9 0.1302416	918.9 0.1424387	918.9 0.2921036
919 0.1001938	919 0.1240833	919 0.2961398
919.1 0.151567	919.1 0.1145846	919.1 0.3231075
919.2 0.1277536	919.2 0.1083589	919.2 0.3024864
919.3 0.12644	919.3 0.1340881	919.3 0.2675292
919.4 0.1314068	919.4 0.1475428	919.4 0.2679128
919.5 0.1652894	919.5 0.1147829	919.5 0.2433494
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919.8 0.1905114	919.8 0.1423557	919.8 0.3252111
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920 0.11854	920 0.1532278	920 0.2593911
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920.2 0.1211567	920.2 0.1297083	920.2 0.2474558
920.3 0.1708788	920.3 0.1337539	920.3 0.2729025
920.4 0.1085224	920.4 0.1535551	920.4 0.336941
920.5 0.1613309	920.5 0.1479477	920.5 0.2940918
920.6 0.1434889	920.6 0.17544	920.6 0.2884688
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920.8 0.1111479	920.8 0.1328042	920.8 0.2768121
920.9 0.1409744	920.9 0.1171975	920.9 0.2626861
921 0.1064463	921 0.1357846	921 0.2147002
921.1 0.1821012	921.1 0.1555779	921.1 0.2615969
921.2 0.1497229	921.2 0.141999	921.2 0.2293704
921.3 0.1394403	921.3 0.162619	921.3 0.274547
921.4 0.1506186	921.4 0.1526444	921.4 0.2736327
921.5 0.2020448	921.5 0.1493257	921.5 0.2433196
921.6 0.1566198	921.6 0.1240299	921.6 0.299008
921.7 0.1273049	921.7 0.1215338	921.7 0.2417977
921.8 0.1478217	921.8 0.1388537	921.8 0.3741653
921.9 0.1677242	921.9 0.1544784	921.9 0.2923761
922 0.1822466	922 0.1403959	922 0.2695391
922.1 0.1510707	922.1 0.1236826	922.1 0.2619209
922.2 0.1705022	922.2 0.1385847	922.2 0.314679
922.3 0.2193438	922.3 0.1359934	922.3 0.3283385
922.4 0.173894	922.4 0.1208533	922.4 0.3400679
922.5 0.2090779	922.5 0.1220384	922.5 0.3537107
922.6 0.2237515	922.6 0.1401443	922.6 0.2917581
922.7 0.22723	922.7 0.1655109	922.7 0.2562298
922.8 0.2034182	922.8 0.1398699	922.8 0.3478945
922.9 0.1651468	922.9 0.1438244	922.9 0.3648322

923 0.1669067	923 0.147929	923 0.3340106
923.1 0.1361922	923.1 0.1549957	923.1 0.3455696
923.2 0.1446462	923.2 0.1443659	923.2 0.3384358
923.3 0.1712492	923.3 0.1464456	923.3 0.2844287
923.4 0.161692	923.4 0.1703748	923.4 0.2830018
923.5 0.1679484	923.5 0.1641752	923.5 0.3201699
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924 0.1903218	924 0.1573436	924 0.2502012
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924.2 0.2311969	924.2 0.1601929	924.2 0.3161546
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924.5 0.1732316	924.5 0.1715589	924.5 0.3039638
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924.7 0.1902471	924.7 0.1274448	924.7 0.3140876
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925.2 0.2043099	925.2 0.1542566	925.2 0.3115263
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925.7 0.1620821	925.7 0.1399448	925.7 0.2743196
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925.9 0.2217798	925.9 0.1175796	925.9 0.2571993
926 0.1818663	926 0.1388124	926 0.2490556
926.1 0.2337047	926.1 0.1543537	926.1 0.2741189
926.2 0.24658	926.2 0.1544214	926.2 0.2627278
926.3 0.2836591	926.3 0.1684517	926.3 0.263813
926.4 0.2160159	926.4 0.1522216	926.4 0.2609576
926.5 0.178929	926.5 0.1187047	926.5 0.2402984
926.6 0.1720473	926.6 0.1264742	926.6 0.3134338
926.7 0.1715597	926.7 0.1541164	926.7 0.2839713
926.8 0.1844896	926.8 0.1064017	926.8 0.2804733
926.9 0.1673164	926.9 0.1274527	926.9 0.2608492
927 0.1631512	927 0.1221768	927 0.3052184
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927.3 0.2216274	927.3 0.1509012	927.3 0.3505925
927.4 0.2033387	927.4 0.1380084	927.4 0.3160914
927.5 0.2135262	927.5 0.1369454	927.5 0.2847781
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928.3 0.1687193	928.3 0.1223005	928.3 0.2786898
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928.5 0.2604599	928.5 0.1316375	928.5 0.3686413
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929 0.1620024	929 0.1315825	929 0.3142476
929.1 0.1521111	929.1 0.1119855	929.1 0.3709266
929.2 0.2052779	929.2 0.1418427	929.2 0.2726023
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931 0.1574713	931 0.1522715	931 0.2675435
931.1 0.1543957	931.1 0.1645166	931.1 0.2792487
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932 0.2871093	932 0.1283221	932 0.2644938
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933.3 0.1932796	933.3 0.1253965	933.3 0.3436626
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934 0.1846656	934 0.1346617	934 0.348274
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934.2 0.1179771	934.2 0.1366663	934.2 0.4856829
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935 0.1520448	935 0.1259926	935 0.3714589
935.1 0.2003378	935.1 0.117204	935.1 0.4437101
935.2 0.1823758	935.2 0.1573058	935.2 0.338791
935.3 0.2012928	935.3 0.122548	935.3 0.3637953
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936 0.1341205	936 0.1309442	936 0.4038824
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936.2 0.1632588	936.2 0.1247852	936.2 0.4057374
936.3 0.1804981	936.3 0.1370923	936.3 0.4098174
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936.5 0.1688332	936.5 0.1145119	936.5 0.3183804
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937 0.1619244	937 0.1098675	937 0.2588661
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937.2 0.1567268	937.2 0.1272701	937.2 0.330459
937.3 0.1941321	937.3 0.1323818	937.3 0.3434062
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937.5 0.1804946	937.5 0.1497773	937.5 0.2711788
937.6 0.1617599	937.6 0.1565667	937.6 0.3037584
937.7 0.1190835	937.7 0.1440655	937.7 0.2563532
937.8 0.162256	937.8 0.1582625	937.8 0.3207457
937.9 0.1660867	937.9 0.1504505	937.9 0.2766941
938 0.1956263	938 0.1390352	938 0.3053429
938.1 0.1600806	938.1 0.1284062	938.1 0.2485505
938.2 0.1499474	938.2 0.1552889	938.2 0.2557705

938.3 0.1398627	938.3 0.1332254	938.3 0.2872055
938.4 0.135993	938.4 0.1186353	938.4 0.2740909
938.5 0.1329419	938.5 0.1279413	938.5 0.2614096
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938.7 0.1757523	938.7 0.1435239	938.7 0.3038625
938.8 0.1327948	938.8 0.1284798	938.8 0.3706206
938.9 0.1195098	938.9 0.1321594	938.9 0.3558095
939 0.1326329	939 0.1358405	939 0.4077072
939.1 0.1453572	939.1 0.1500464	939.1 0.4398448
939.2 0.206712	939.2 0.1278258	939.2 0.4094957
939.3 0.1447623	939.3 0.1646057	939.3 0.3213208
939.4 0.1369466	939.4 0.1457574	939.4 0.2598323
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939.8 0.2162647	939.8 0.1585627	939.8 0.2356073
939.9 0.195266	939.9 0.1240382	939.9 0.2318827
940 0.1645303	940 0.1396817	940 0.3205943
940.1 0.1741139	940.1 0.1495511	940.1 0.3179624
940.2 0.1506502	940.2 0.1562421	940.2 0.3191074
940.3 0.1974199	940.3 0.1384828	940.3 0.3142283
940.4 0.1701284	940.4 0.1533706	940.4 0.2715888
940.5 0.1499667	940.5 0.1781306	940.5 0.2669253
940.6 0.1577232	940.6 0.1464205	940.6 0.2790108
940.7 0.1414775	940.7 0.1361085	940.7 0.3138702
940.8 0.1666886	940.8 0.1460269	940.8 0.2995269
940.9 0.1338026	940.9 0.1285648	940.9 0.2864038
941 0.1230567	941 0.1525031	941 0.2493415
941.1 0.1560302	941.1 0.1614863	941.1 0.2767529
941.2 0.2044963	941.2 0.1319193	941.2 0.3115058
941.3 0.2132886	941.3 0.1743984	941.3 0.3150543
941.4 0.2020909	941.4 0.2083175	941.4 0.3717257
941.5 0.1559743	941.5 0.2171224	941.5 0.4135257
941.6 0.1716651	941.6 0.1896573	941.6 0.3633291
941.7 0.1626945	941.7 0.1786573	941.7 0.358562
941.8 0.1477564	941.8 0.1717771	941.8 0.3023627
941.9 0.1336755	941.9 0.1568805	941.9 0.2861744
942 0.1520307	942 0.1975253	942 0.3003854
942.1 0.1189258	942.1 0.1554611	942.1 0.3156175
942.2 0.1290504	942.2 0.148993	942.2 0.3113274
942.3 0.1411308	942.3 0.1729039	942.3 0.3272093
942.4 0.1287418	942.4 0.1627809	942.4 0.3521734
942.5 0.1626538	942.5 0.1395269	942.5 0.3310718
942.6 0.1671521	942.6 0.1230504	942.6 0.3557199
942.7 0.2339977	942.7 0.1585119	942.7 0.32006
942.8 0.1527933	942.8 0.1458251	942.8 0.3241708
942.9 0.1693801	942.9 0.1465616	942.9 0.3035117
943 0.158563	943 0.168888	943 0.3204413
943.1 0.1716623	943.1 0.1588729	943.1 0.3147629
943.2 0.1813157	943.2 0.1583597	943.2 0.3635672
943.3 0.1743685	943.3 0.1696923	943.3 0.3120714

943.4 0.1265708	943.4 0.1901035	943.4 0.3279585
943.5 0.1784231	943.5 0.1384883	943.5 0.311249
943.6 0.1767153	943.6 0.1356521	943.6 0.3295801
943.7 0.1360175	943.7 0.1541798	943.7 0.3145224
943.8 0.122773	943.8 0.1562397	943.8 0.2836394
943.9 0.1610183	943.9 0.1553414	943.9 0.2803963
944 0.1544318	944 0.1619071	944 0.3278533
944.1 0.1055954	944.1 0.1320864	944.1 0.3909117
944.2 0.1276208	944.2 0.1440837	944.2 0.3889623
944.3 0.164406	944.3 0.1398458	944.3 0.3599066
944.4 0.1446356	944.4 0.1731864	944.4 0.3325377
944.5 0.153146	944.5 0.165843	944.5 0.2996125
944.6 0.183021	944.6 0.1818037	944.6 0.3414881
944.7 0.1157393	944.7 0.1408686	944.7 0.3500537
944.8 0.1639625	944.8 0.1682296	944.8 0.3700172
944.9 0.2329032	944.9 0.1819485	944.9 0.3370743
945 0.1301675	945 0.1310272	945 0.3250358
945.1 0.1994309	945.1 0.1334109	945.1 0.3186357
945.2 0.1698232	945.2 0.1623628	945.2 0.3465698
945.3 0.2668341	945.3 0.165498	945.3 0.3090157
945.4 0.230412	945.4 0.1252565	945.4 0.295674
945.5 0.1542073	945.5 0.1679196	945.5 0.3779776
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945.7 0.1519483	945.7 0.1600149	945.7 0.3122884
945.8 0.1463985	945.8 0.1824449	945.8 0.3427952
945.9 0.1401594	945.9 0.148557	945.9 0.3424761
946 0.1739779	946 0.1721734	946 0.3434185
946.1 0.1406441	946.1 0.1540747	946.1 0.3147258
946.2 0.1451105	946.2 0.134873	946.2 0.4070794
946.3 0.1465026	946.3 0.1383058	946.3 0.3671237
946.4 0.1613819	946.4 0.1250265	946.4 0.3774777
946.5 0.1667791	946.5 0.1686007	946.5 0.3520093
946.6 0.1682721	946.6 0.1662124	946.6 0.2993648
946.7 0.2282446	946.7 0.1511038	946.7 0.3398518
946.8 0.1422795	946.8 0.1340113	946.8 0.2950439
946.9 0.1820436	946.9 0.132463	946.9 0.2946943
947 0.1289151	947 0.1630295	947 0.2858754
947.1 0.1306366	947.1 0.1370436	947.1 0.3532233
947.2 0.1608823	947.2 0.1303741	947.2 0.2803008
947.3 0.1846502	947.3 0.1223397	947.3 0.3323902
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947.5 0.174198	947.5 0.143282	947.5 0.2901978
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947.8 0.1524132	947.8 0.1247561	947.8 0.2839467
947.9 0.1329983	947.9 0.1191815	947.9 0.2737812
948 0.1308041	948 0.1034983	948 0.3160175
948.1 0.1661642	948.1 0.1176098	948.1 0.3240003
948.2 0.135828	948.2 0.1219833	948.2 0.3297521
948.3 0.1504217	948.3 0.1266829	948.3 0.3707027
948.4 0.136167	948.4 0.1305289	948.4 0.4547969

948.5 0.1270252	948.5 0.1362848	948.5 0.3636469
948.6 0.102666	948.6 0.1260042	948.6 0.3746757
948.7 0.1246594	948.7 0.1158879	948.7 0.3917521
948.8 0.1151393	948.8 0.1324085	948.8 0.4229244
948.9 0.1088973	948.9 0.1375737	948.9 0.3453552
949 0.1043564	949 0.1171866	949 0.3101619
949.1 0.1653869	949.1 0.1257357	949.1 0.3202882
949.2 0.1655127	949.2 0.1663216	949.2 0.3430697
949.3 0.1664972	949.3 0.160604	949.3 0.3810562
949.4 0.13397	949.4 0.1565078	949.4 0.3373964
949.5 0.1436897	949.5 0.1758765	949.5 0.3058465
949.6 0.1474988	949.6 0.1668386	949.6 0.3351775
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949.8 0.1462015	949.8 0.1408499	949.8 0.3377625
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950.2 0.123674	950.2 0.1757523	950.2 0.3335228
950.3 0.1681792	950.3 0.1404992	950.3 0.3791136
950.4 0.1318913	950.4 0.1465529	950.4 0.3277501
950.5 0.1546253	950.5 0.1137288	950.5 0.3685404
950.6 0.2183481	950.6 0.1270353	950.6 0.3614386
950.7 0.1300549	950.7 0.1285287	950.7 0.3848156
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951.2 0.1969253	951.2 0.1185047	951.2 0.3707636
951.3 0.1552904	951.3 0.133747	951.3 0.3399097
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951.5 0.2043288	951.5 0.1006726	951.5 0.3420651
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951.7 0.1702967	951.7 0.0891725	951.7 0.3268609
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952.7 0.1737862	952.7 0.1014695	952.7 0.2971292
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955.2 0.2949389	955.2 0.1317956	955.2 0.2623022
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956.3 0.2738101	956.3 0.175391	956.3 0.2747877
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963.2 0.1931034	963.2 0.1525086	963.2 0.2743737
963.3 0.1772142	963.3 0.1525476	963.3 0.2575327
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965 0.2656528	965 0.1252399	965 0.2806169
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965.8 0.2589944	965.8 0.1199014	965.8 0.4141419
965.9 0.233505	965.9 0.1042353	965.9 0.3427418
966 0.2579305	966 0.1278404	966 0.2874277
966.1 0.2600052	966.1 0.1400863	966.1 0.2974417
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966.4 0.2031927	966.4 0.1244687	966.4 0.3228488
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966.7 0.153888	966.7 0.1177805	966.7 0.3340357
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966.9 0.2115391	966.9 0.1512754	966.9 0.3038483
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967.1 0.2176728	967.1 0.1429142	967.1 0.2795184
967.2 0.2283953	967.2 0.1482754	967.2 0.2503836
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967.4 0.238324	967.4 0.1204436	967.4 0.2911475
967.5 0.1274249	967.5 0.1131414	967.5 0.3243569
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967.8 0.152152	967.8 0.1262783	967.8 0.3031232
967.9 0.1382173	967.9 0.1382402	967.9 0.3034187
968 0.1509622	968 0.1316833	968 0.3170882
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968.2 0.1510259	968.2 0.14717	968.2 0.2843828
968.3 0.1966486	968.3 0.165095	968.3 0.269937
968.4 0.1656233	968.4 0.1333363	968.4 0.3081349
968.5 0.184492	968.5 0.1357187	968.5 0.2887719
968.6 0.1959079	968.6 0.1479674	968.6 0.3093237
968.7 0.2793905	968.7 0.146547	968.7 0.3228817
968.8 0.1842621	968.8 0.1570922	968.8 0.3037363

968.9	0.111945	968.9	0.1379811	968.9	0.2662674
969	0.1466696	969	0.1353718	969	0.2724864
969.1	0.1231848	969.1	0.1449598	969.1	0.2713389
969.2	0.1376639	969.2	0.1403442	969.2	0.2635661
969.3	0.1322775	969.3	0.1095994	969.3	0.2517107
969.4	0.1438209	969.4	0.1305387	969.4	0.3342295
969.5	0.1702892	969.5	0.1403813	969.5	0.3424962
969.6	0.1306577	969.6	0.142009	969.6	0.3555689
969.7	0.1601616	969.7	0.1120472	969.7	0.3167363
969.8	0.1887036	969.8	0.1315425	969.8	0.2818797
969.9	0.1516791	969.9	0.1330986	969.9	0.3053993
970	0.1513156	970	0.1243649	970	0.3197796
970.1	0.1247361	970.1	0.1049916	970.1	0.3928651
970.2	0.1775469	970.2	0.1042569	970.2	0.3758489
970.3	0.2241	970.3	0.1274221	970.3	0.364906
970.4	0.1874742	970.4	0.1314034	970.4	0.3501085
970.5	0.1901956	970.5	0.1237951	970.5	0.3065855
970.6	0.177516	970.6	0.1114455	970.6	0.2527124
970.7	0.1835203	970.7	0.1379594	970.7	0.3182777
970.8	0.2331823	970.8	0.1300931	970.8	0.3297778
970.9	0.1954842	970.9	0.1407838	970.9	0.3988099
971	0.2298625	971	0.1794192	971	0.4066633
971.1	0.2049742	971.1	0.15234	971.1	0.3994898
971.2	0.1704301	971.2	0.1825504	971.2	0.3700619
971.3	0.2347426	971.3	0.1583746	971.3	0.342628
971.4	0.1986527	971.4	0.1360326	971.4	0.361037
971.5	0.160601	971.5	0.1237181	971.5	0.3516848
971.6	0.2012296	971.6	0.1758174	971.6	0.3674565
971.7	0.1445368	971.7	0.1324714	971.7	0.3744558
971.8	0.16152	971.8	0.1563778	971.8	0.3243467
971.9	0.1428862	971.9	0.1532805	971.9	0.3061574
972	0.1759309	972	0.1361786	972	0.2691958
972.1	0.1298718	972.1	0.1156453	972.1	0.3070484
972.2	0.1316382	972.2	0.1152309	972.2	0.3707435
972.3	0.1653292	972.3	0.1171075	972.3	0.2839229
972.4	0.1559329	972.4	0.1199778	972.4	0.2529671
972.5	0.1922848	972.5	0.1305765	972.5	0.2967259
972.6	0.1481284	972.6	0.1269347	972.6	0.230996
972.7	0.198293	972.7	0.1195124	972.7	0.2550975
972.8	0.1736151	972.8	0.1277144	972.8	0.2503688
972.9	0.1420809	972.9	0.1257602	972.9	0.286011
973	0.170424	973	0.1123854	973	0.2990052
973.1	0.1743799	973.1	0.121235	973.1	0.2678589
973.2	0.1598246	973.2	0.1357557	973.2	0.2982849
973.3	0.1287479	973.3	0.1518494	973.3	0.3212109
973.4	0.1726642	973.4	0.1585612	973.4	0.2584807
973.5	0.2062289	973.5	0.1430462	973.5	0.2584013
973.6	0.2139504	973.6	0.1306023	973.6	0.2445842
973.7	0.1832811	973.7	0.1309021	973.7	0.2767805
973.8	0.1736596	973.8	0.1282471	973.8	0.2951964
973.9	0.1607048	973.9	0.1447077	973.9	0.4519339

974 0.1544074	974 0.1152657	974 0.3506632
974.1 0.1332165	974.1 0.1497074	974.1 0.2911239
974.2 0.1303246	974.2 0.1121177	974.2 0.2787231
974.3 0.1149722	974.3 0.1314216	974.3 0.2768191
974.4 0.1713743	974.4 0.1171708	974.4 0.2639889
974.5 0.1466057	974.5 0.1263546	974.5 0.2653984
974.6 0.1046226	974.6 0.1260695	974.6 0.3331867
974.7 0.1353121	974.7 0.1477072	974.7 0.3217336
974.8 0.1243586	974.8 0.1264339	974.8 0.2870603
974.9 0.2006158	974.9 0.1198567	974.9 0.2346236
975 0.1346785	975 0.1175976	975 0.247537
975.1 0.1184329	975.1 0.111951	975.1 0.248886
975.2 0.1503885	975.2 0.1152027	975.2 0.2786631
975.3 0.1137041	975.3 0.1117646	975.3 0.3568457
975.4 0.1147152	975.4 0.1350946	975.4 0.3783528
975.5 0.099603	975.5 0.1578669	975.5 0.282745
975.6 0.1030425	975.6 0.1758798	975.6 0.2466702
975.7 0.1267667	975.7 0.137094	975.7 0.2298976
975.8 0.0957606	975.8 0.1306773	975.8 0.2753336
975.9 0.1185931	975.9 0.1411872	975.9 0.2910287
976 0.1056015	976 0.1639592	976 0.3212017
976.1 0.1153335	976.1 0.1659588	976.1 0.3034787
976.2 0.096717	976.2 0.1542752	976.2 0.3253311
976.3 0.1319976	976.3 0.127069	976.3 0.2927839
976.4 0.1050501	976.4 0.1447645	976.4 0.311567
976.5 0.1327159	976.5 0.144061	976.5 0.249805
976.6 0.1792772	976.6 0.1333164	976.6 0.2244507
976.7 0.1677945	976.7 0.12982	976.7 0.246235
976.8 0.2027928	976.8 0.1454359	976.8 0.2639339
976.9 0.1383528	976.9 0.1636245	976.9 0.2488559
977 0.1388276	977 0.1213452	977 0.2919146
977.1 0.0909744	977.1 0.1464319	977.1 0.2392634
977.2 0.132956	977.2 0.1308962	977.2 0.4684443
977.3 0.1421051	977.3 0.1361023	977.3 0.2692633
977.4 0.1460236	977.4 0.1235217	977.4 0.2601502
977.5 0.1786098	977.5 0.1182132	977.5 0.3515823
977.6 0.1159983	977.6 0.1292926	977.6 0.2614101
977.7 0.1656308	977.7 0.1211184	977.7 0.3774271
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977.9 0.1658685	977.9 0.1482133	977.9 0.2783157
978 0.1100663	978 0.1208358	978 0.2789621
978.1 0.1288463	978.1 0.1620298	978.1 0.2483196
978.2 0.1616413	978.2 0.1678179	978.2 0.2838995
978.3 0.1427549	978.3 0.1257272	978.3 0.3303693
978.4 0.1165392	978.4 0.1262932	978.4 0.2442303
978.5 0.1104654	978.5 0.1449438	978.5 0.2365432
978.6 0.100301	978.6 0.1433322	978.6 0.2994465
978.7 0.1305624	978.7 0.1650411	978.7 0.2653422
978.8 0.1888057	978.8 0.1409276	978.8 0.3009953
978.9 0.1618887	978.9 0.1521024	978.9 0.3014813
979 0.1484592	979 0.1586729	979 0.2569984

979.1 0.1657305	979.1 0.13888	979.1 0.2771768
979.2 0.1995127	979.2 0.1444877	979.2 0.2256375
979.3 0.1850021	979.3 0.1284781	979.3 0.2900719
979.4 0.2227474	979.4 0.1293469	979.4 0.3010595
979.5 0.188546	979.5 0.1816288	979.5 0.2561702
979.6 0.198695	979.6 0.1407712	979.6 0.2408978
979.7 0.2090393	979.7 0.1319981	979.7 0.2373764
979.8 0.1981912	979.8 0.1169439	979.8 0.2463511
979.9 0.1861128	979.9 0.115658	979.9 0.2532803
980 0.229451	980 0.1015229	980 0.297811
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980.3 0.1045368	980.3 0.1232124	980.3 0.5108123
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980.5 0.1394689	980.5 0.1191703	980.5 0.378481
980.6 0.1675003	980.6 0.1079369	980.6 0.4452822
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981 0.2181216	981 0.1169405	981 0.3522936
981.1 0.1958323	981.1 0.110963	981.1 0.3354212
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981.4 0.200829	981.4 0.1240534	981.4 0.309786
981.5 0.1748898	981.5 0.1204747	981.5 0.3282442
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981.8 0.1328246	981.8 0.1141869	981.8 0.383229
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982 0.1373423	982 0.1489009	982 0.3158067
982.1 0.1742739	982.1 0.1540857	982.1 0.2610636
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982.3 0.1662853	982.3 0.1323208	982.3 0.2869886
982.4 0.1398114	982.4 0.1332894	982.4 0.289314
982.5 0.1407511	982.5 0.1279836	982.5 0.4009923
982.6 0.126374	982.6 0.1183992	982.6 0.443875
982.7 0.1293989	982.7 0.1338206	982.7 0.3375647
982.8 0.1315255	982.8 0.1161615	982.8 0.3091702
982.9 0.1653748	982.9 0.1357918	982.9 0.3241469
983 0.1086678	983 0.1117485	983 0.3103178
983.1 0.1327755	983.1 0.1339989	983.1 0.2799645
983.2 0.1355113	983.2 0.1559317	983.2 0.2848673
983.3 0.119607	983.3 0.1559212	983.3 0.2859803
983.4 0.1456674	983.4 0.1213419	983.4 0.4286012
983.5 0.2065744	983.5 0.1014229	983.5 0.4578032
983.6 0.1454245	983.6 0.1167657	983.6 0.2973495
983.7 0.1915876	983.7 0.1385081	983.7 0.3311845
983.8 0.1671465	983.8 0.150386	983.8 0.3512947
983.9 0.1545194	983.9 0.1022518	983.9 0.337366
984 0.1845632	984 0.1132366	984 0.417855
984.1 0.1671655	984.1 0.0987472	984.1 0.3002453

984.2	0.158568	984.2	0.100417	984.2	0.3003826
984.3	0.1286579	984.3	0.0982433	984.3	0.3021337
984.4	0.1421693	984.4	0.1035017	984.4	0.3480249
984.5	0.1637405	984.5	0.1201607	984.5	0.4273764
984.6	0.1371826	984.6	0.1013855	984.6	0.3270634
984.7	0.1465674	984.7	0.1539785	984.7	0.3801135
984.8	0.120997	984.8	0.1465784	984.8	0.4674882
984.9	0.1417813	984.9	0.1075844	984.9	0.3568382
985	0.1916277	985	0.1277198	985	0.2758258
985.1	0.1452397	985.1	0.1377331	985.1	0.3163219
985.2	0.1488052	985.2	0.1307444	985.2	0.3478773
985.3	0.1723546	985.3	0.1201153	985.3	0.3245801
985.4	0.1490038	985.4	0.1193782	985.4	0.2991284
985.5	0.141416	985.5	0.1291023	985.5	0.3700905
985.6	0.1381825	985.6	0.1230989	985.6	0.2977135
985.7	0.1381166	985.7	0.1353002	985.7	0.2928933
985.8	0.1341266	985.8	0.1374864	985.8	0.3725598
985.9	0.1121549	985.9	0.1207579	985.9	0.4503357
986	0.1305928	986	0.131644	986	0.4719811
986.1	0.1741758	986.1	0.132781	986.1	0.4368044
986.2	0.1312995	986.2	0.1465139	986.2	0.4053257
986.3	0.1766694	986.3	0.1322839	986.3	0.3056498
986.4	0.127368	986.4	0.1456558	986.4	0.3269777
986.5	0.1191765	986.5	0.1329789	986.5	0.3180207
986.6	0.1292089	986.6	0.1278498	986.6	0.3730581
986.7	0.1254013	986.7	0.1462689	986.7	0.3056222
986.8	0.0905047	986.8	0.1539756	986.8	0.3771279
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987	0.109648	987	0.1466648	987	0.2876435
987.1	0.1130877	987.1	0.142045	987.1	0.3122684
987.2	0.1402237	987.2	0.1345587	987.2	0.2946537
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987.5	0.1176769	987.5	0.143957	987.5	0.3107455
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987.7	0.119823	987.7	0.124151	987.7	0.2732809
987.8	0.0975833	987.8	0.16565	987.8	0.2889399
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988	0.1301836	988	0.1405268	988	0.2865143
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988.2	0.1067499	988.2	0.1362631	988.2	0.3000878
988.3	0.1542879	988.3	0.1074047	988.3	0.298676
988.4	0.0963758	988.4	0.1054655	988.4	0.3165433
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988.6	0.1222646	988.6	0.1414209	988.6	0.4433362
988.7	0.1091652	988.7	0.1327601	988.7	0.3375013
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991.7 0.1537862	991.7 0.1315915	991.7 0.3381027
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992 0.1415345	992 0.1199627	992 0.3839068
992.1 0.1641783	992.1 0.1500258	992.1 0.3596287
992.2 0.1493171	992.2 0.1672894	992.2 0.3736405
992.3 0.1696902	992.3 0.1422953	992.3 0.3622568
992.4 0.1424012	992.4 0.1371371	992.4 0.3735015
992.5 0.1381189	992.5 0.1412623	992.5 0.3275579
992.6 0.1500211	992.6 0.1457907	992.6 0.3910329
992.7 0.1532264	992.7 0.1118832	992.7 0.4033809
992.8 0.1574711	992.8 0.1351373	992.8 0.3323491
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993 0.1404973	993 0.1368943	993 0.2969056
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993.2 0.1214608	993.2 0.1464034	993.2 0.3078625
993.3 0.1269891	993.3 0.1165992	993.3 0.295163
993.4 0.1387323	993.4 0.1294801	993.4 0.2844821
993.5 0.1556471	993.5 0.1313775	993.5 0.3175437
993.6 0.1728346	993.6 0.1191275	993.6 0.3079406
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994 0.168032	994 0.1165513	994 0.3014462
994.1 0.1535149	994.1 0.1440214	994.1 0.356549
994.2 0.1519801	994.2 0.1421523	994.2 0.3989549
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994.4 0.1958273	994.4 0.1153735	994.4 0.3541833
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994.7 0.1531354	994.7 0.1076718	994.7 0.4920593
994.8 0.1499974	994.8 0.1072583	994.8 0.5283461
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995 0.1748835	995 0.1136001	995 0.4511564
995.1 0.237818	995.1 0.1441174	995.1 0.4631433
995.2 0.2146752	995.2 0.149856	995.2 0.4939381
995.3 0.1082009	995.3 0.1453379	995.3 0.4667607
995.4 0.1350038	995.4 0.1391347	995.4 0.3915195
995.5 0.1110645	995.5 0.1151763	995.5 0.4416769
995.6 0.0987172	995.6 0.1474634	995.6 0.3803144
995.7 0.134051	995.7 0.1442003	995.7 0.2924589
995.8 0.1477735	995.8 0.1535085	995.8 0.3451441
995.9 0.1145733	995.9 0.1160263	995.9 0.2927302
996 0.1310534	996 0.1251091	996 0.3672816
996.1 0.1584985	996.1 0.1312185	996.1 0.3004048
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996.4 0.1108677	996.4 0.1396148	996.4 0.2997821
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996.6 0.1276401	996.6 0.1230004	996.6 0.3133756
996.7 0.1257412	996.7 0.1446017	996.7 0.3010277
996.8 0.1321881	996.8 0.1145135	996.8 0.3027733
996.9 0.1745598	996.9 0.1196285	996.9 0.3299755
997 0.1534775	997 0.1270293	997 0.3065145
997.1 0.1678707	997.1 0.1219382	997.1 0.3533968
997.2 0.1282244	997.2 0.1218511	997.2 0.3257477
997.3 0.2006619	997.3 0.1324415	997.3 0.3124763
997.4 0.1356631	997.4 0.1279895	997.4 0.4082869
997.5 0.1476498	997.5 0.109872	997.5 0.3009991
997.6 0.1183716	997.6 0.0904067	997.6 0.3083796
997.7 0.1021741	997.7 0.1099082	997.7 0.3827745
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length	$\Delta^2 \text{dmol}$	$\Delta^2 \text{dmol}$	$\Delta^2 \text{dmol}$	$\Delta^2 \text{dmol}$	$\Delta^2 \text{dmol}$	$\Delta^2 \text{dmol}$	$\Delta^2 \text{dmol}$
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258	34.799219	106.62943	92.531771	220.24922	97.711979	119.26563	262.66667
257	103.54688	39.68724	65.844531	140.22422	-7.449167	-10.39589	209.44844
256	67.501823	-35.69245	125.60625	73.640365	-18.84563	68.459375	291.73698
255	97.438542	-16.06036	24.786016	147.38411	31.791667	147.11406	223.94271
254	194.44844	39.425521	14.045573	114.41042	80.556771	112.57526	152.11458
253	189.85729	69.13724	29.020573	108.84766	28.413021	129.73359	180.45703
252	205.36875	54.984635	26.920573	120.94453	34.720573	142.45339	162.55443
251	237.26771	73.354948	35.821875	100.92188	-18.91594	110.56771	133.0862
250	165.25964	123.06823	56.322917	134.68281	-42.53568	95.686458	67.929427
249	128.86354	149.85703	27.948698	124.00078	-5.709401	29.918229	40.724479
248	104.81536	144.85885	9.5180208	142.58229	-10.60049	-57.28568	8.5310417
247	77.003906	129.04609	2.9639323	58.871875	-39.1875	-163.5198	10.610052
246	-17.65133	69.555208	13.063203	-5.15763	-22.58688	-190.799	-12.58779
245	-43.23464	-59.25964	6.7759896	-44.4862	-12.77523	-259.8172	-73.99167
244	-112.0122	-125.9245	-116.9005	-91.13385	-21.33401	-289.3724	-130.2984
243	-100.5714	-168.1539	-224.1521	-176.438	-51.91771	-319.5521	-189.2229
242	-110.1167	-229.8185	-274.8203	-275.1875	-77.49922	-413.0547	-222.1938
241	-155.194	-310.9583	-300.1979	-348.6693	-112.7135	-442.4453	-261.138
240	-221.9857	-365.2969	-366.2656	-435.0182	-186.0922	-467.7526	-281.401
239	-288.4141	-442.6667	-400.3698	-497.6745	-305.8828	-506.599	-331.9167
238	-392.1016	-465.388	-414.8542	-580.1198	-359.0234	-578.5755	-370.5286
237	-473.099	-511.5443	-497.0052	-646.9167	-458.7188	-624.3958	-403.3125
236	-644.0729	-557.3672	-525.8099	-671.4323	-551.9115	-678.7917	-505.6458
235	-730.263	-654.2135	-566.4453	-695.6354	-593.3724	-765.401	-493.9375
234	-747.7474	-729.4844	-639.3229	-768.4844	-671.2292	-835.3229	-551.6172
233	-870.237	-802.0313	-682.4219	-882.7708	-802.5443	-876.3333	-672.6406
232	-974.6927	-989.1953	-755.6042	-961.4714	-912.6589	-952.3359	-836.2031
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229	-1458.159	-1485.432	-1423.195	-1389.365	-1440.398	-1471.242	-1299.508
228	-1686.5	-1719.063	-1671.911	-1572.482	-1657.039	-1694.443	-1516.909
227	-1957.56	-2044.32	-1970.448	-1896.354	-1955.703	-1992.112	-1833.516
226	-2366.076	-2437.979	-2323.013	-2218.302	-2284.281	-2387.646	-2161.115
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221	-4908.099	-4934.063	-4686.224	-4733.411	-4618.359	-4723.125	-4561.042
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219	-5996.563	-5918.047	-5617.344	-5805.573	-5785.859	-5662.031	-5572.24
218	-6522.891	-6410.078	-6103.281	-6253.958	-6204.792	-6087.266	-6002.318
217	-6983.073	-6741.406	-6566.823	-6674.115	-6616.589	-6359.661	-6367.943
216	-7362.552	-7075.182	-6918.021	-7011.328	-6961.354	-6581.016	-6654.297
215	-7664.531	-7342.917	-7266.927	-7367.734	-7249.74	-6847.24	-6890.234
214	-7866.198	-7522.604	-7498.828	-7607.057	-7425.938	-6991.146	-7027.292
213	-8054.948	-7721.771	-7688.411	-7785.547	-7575.417	-7104.661	-7152.24
212	-8130.391	-7848.646	-7784.661	-7824.036	-7642.786	-7103.75	-7211.51
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² dmol ⁻	² dmol ⁻	² dmol ⁻	² dmol ⁻	² dmol ⁻	² dmol ⁻	² dmol ⁻	² dmol ⁻
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442.35938	465.70833	435.19531	320.92188	233.30469	484.26563	430.53906	312.51302
313.2526	441.30469	346.42188	459.53906	331.54688	298.11458	403.46875	257.99401
236.56432	345.40365	343.02604	488.35156	294.77344	291.59375	405.09635	140.26432
239.00885	305.36719	384.5625	457.64323	287.28125	277.77344	281.71094	186.6974
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1) of 84.3 (°C)

length	h ² d mol ⁴	h ² d mol ⁴	h ² d mol ⁴	h ² d mol ⁴	h ² d mol ⁴	h ² d mol ⁴	h ² d mol ⁴
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259	-29.9098	-3.156816	-5.334673	29.092041	-9.849653	22.02	-36.21388
258	10.67198	22.15449	-0.340761	22.137755	29.05449	34.461633	-22.15694
257	31.865306	12.079184	8.0534694	13.356184	27.179592	41.378367	-5.995755
256	20.389551	9.1678367	10.600204	3.8542041	17.437327	13.911837	-9.294816
255	4.3547755	6.5257347	7.037102	5.3418571	4.5031224	10.08902	-13.74529
254	10.493714	11.788959	5.4973673	4.8960612	1.068549	6.6739592	-12.17169
253	5.6936122	12.701714	2.0847347	3.9916531	-2.967714	4.929898	-15.19741
252	-2.515265	9.7083061	2.5764898	5.2568367	-12.97463	-7.233224	-18.74435
251	-19.42884	-1.045241	-11.31708	4.8781224	-23.36939	-19.9409	-32.42184
250	-29.79	-8.875755	-16.46537	0.872398	-33.88816	-34.30286	-42.90653
249	-43.18245	-17.49	-37.04592	-17.35551	-39.56367	-49.29388	-60.91531
248	-56.02673	-39.16776	-60.52776	-37.01939	-58.22571	-66.85429	-78.63327
247	-85.30184	-71.90918	-93.73265	-75.10939	-83.68265	-98.48714	-114.7884
246	-135.3061	-116.2188	-138.1808	-131.9686	-131.1229	-153.3563	-170.0882
245	-198.4867	-180.8824	-200.2469	-200.6622	-197.8922	-217.2388	-236.102
244	-274.9857	-255.5204	-282.5429	-292.2347	-282.1592	-298.5796	-325.4184
243	-388.8714	-365.6653	-390.5286	-409.5163	-404.5633	-409.1837	-437.3408
242	-509.9714	-501.3408	-525.1531	-560.0469	-554.149	-554.5306	-581.4612
241	-672.0122	-674.3469	-702.3878	-741.0184	-740.8755	-741.1796	-761.5265
240	-883.1306	-898.1694	-924.3653	-966.2184	-965.4061	-966.9633	-993.4041
239	-1150.571	-1180.435	-1200.057	-1239.924	-1252.61	-1252.255	-1277.947
238	-1481.765	-1518.322	-1528.18	-1569.002	-1587.694	-1596.576	-1617.773
237	-1866.627	-1916.227	-1933.796	-1959.827	-1990.722	-2003.48	-2017.718
236	-2304.816	-2371.837	-2388.429	-2418.429	-2451.551	-2467.735	-2464.143
235	-2818.735	-2891.714	-2920.306	-2942.633	-2975.061	-2987.918	-2986.367
234	-3401.429	-3487.347	-3512.694	-3536.551	-3563.714	-3568.776	-3566.673
233	-4057.102	-4136.612	-4163.286	-4188.551	-4213.653	-4210.633	-4202.51
232	-4759.612	-4828.143	-4849.469	-4892.224	-4909.98	-4895.898	-4882.939
231	-5498.796	-5563.49	-5580.857	-5629.796	-5635.122	-5608.51	-5599.755
230	-6260.694	-6326.143	-6344.816	-6394.327	-6382.49	-6333.184	-6325.918
229	-7029.204	-7097.388	-7113.122	-7164.592	-7141.714	-7067.735	-7050.265
228	-7783.571	-7842.286	-7853.224	-7913.408	-7865.469	-7780.898	-7744.163
227	-8495.082	-8545.429	-8560.143	-8612.837	-8538.163	-8451.551	-8393.429
226	-9133.735	-9181.204	-9182.449	-9226.735	-9127.531	-9031.143	-8964.939
225	-9680.347	-9732.959	-9722.571	-9759.143	-9646.673	-9536.306	-9454.163
224	-10138.65	-10187.45	-10169.61	-10194.35	-10072.12	-9954.041	-9867.694
223	-10505.96	-10543.47	-10528.78	-10536.18	-10431.18	-10288.55	-10183.33
222	-10781.8	-10819.24	-10805.51	-10809.41	-10686.76	-10528.98	-10412.65
221	-10980.78	-10983.18	-10991.08	-10983.31	-10861.24	-10674.04	-10584.45
220	-11092.73	-11088.55	-11084.96	-11066.47	-10954.1	-10758.02	-10668.16
219	-11128.94	-11122.92	-11108.45	-11096.8	-10990.76	-10788.45	-10698.37
218	-11107.31	-11107.08	-11083.71	-11086.08	-10969.37	-10769.59	-10688.2
217	-11057.51	-11062.12	-11038.63	-11036.29	-10924.18	-10732.04	-10657.08
216	-11003.41	-10996.41	-10981.22	-10986.96	-10867.31	-10683.53	-10611.67
215	-10966.78	-10945.98	-10937.24	-10956.55	-10852.86	-10660.39	-10596.33
214	-10947.71	-10921.1	-10933.49	-10959.33	-10839.33	-10686.49	-10619.31
213	-10956.84	-10943.02	-10974.1	-10987.51	-10843.63	-10725.31	-10628.67
212	-10947.39	-10936.71	-10970.33	-10954.63	-10834.33	-10745.04	-10610.04
211	-10854.35	-10891.16	-10935.27	-10871.47	-10810.59	-10734.18	-10517.16

210	-10679.71	-10722.86	-10763.98	-10706.2	-10639.86	-10544.88	-10342.65
209	-10366.57	-10355.53	-10413.92	-10338.27	-10309.57	-10182.84	-9939.551
208	-9759.429	-9773.592	-9808.184	-9753.122	-9664.755	-9596.245	-9316.959
207	-8853.163	-8803.02	-8879.571	-8811.755	-8765.898	-8631.082	-8390
206	-7597.918	-7532.633	-7553.571	-7550.898	-7457.02	-7360.837	-7113.714
205	-5970.061	-5857.755	-5927.531	-5921.857	-5788.673	-5567.878	-5462.408
204	-3882.939	-3678.776	-3846.408	-3748.02	-3577.163	-3413.041	-3303.469
203	-1252.667	-1132.743	-1221.565	-1088.49	-864.1469	-724.7327	-780.8061
202	1786.7796	1977.5408	1909.0184	1993.6612	2173.7347	2289.6122	2126.8776
201	5209.551	5395.5306	5264.6531	5269.8163	5488.4694	5426.8776	5329.5918
200	8660.3878	8663.6939	8964.7347	8748.2041	9098.1633	8679.6939	8496.6531
199	12055.694	12105.837	12251.388	12261.837	12361.327	11885.082	11661.184
198	15014.449	15221.122	15508.857	15312.98	15426.286	14824.429	14770.959
197	17591.122	17748.02	18269.224	17865.449	17951.367	17489.837	17443.673
196	19916.02	20183.408	20837.959	20258.061	20283.367	19772.796	19807.388
195	21503.265	21924.082	22686.939	21855.306	21786.122	21330.408	21478.163
194	21774.286	22543.469	23232.857	22225.714	22147.959	22068.163	22211.633
193	21121.429	22105.918	22718.571	21759.796	21693.878	22095.102	22170.816
192	20201.449	21655.102	21699.388	20235.347	20324.429	21120.408	21682.245
191	19723.878	20172.714	20152.02	19852.082	18932.02	19695.633	19020.918
190	17862.49	20641.837	18858	18857.388	17908.388	16315.041	17375.163

h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol
48.456735	-2.787959	-7.706224	73.627347	20.371429	36.89449	23.552449	26.70898
51.679796	11.513347	7.7121633	-3.335	5.8279184	8.7782041	39.437143	-47.41388
-9.408429	25.8	-3.08902	-9.189429	15.602204	14.350286	14.096857	-14.68304
6.1025714	21.350408	9.0620408	-6.670122	11.728878	19.53749	10.772776	7.103551
-0.239614	12.119306	-2.97298	-6.401184	-4.981898	-2.211041	-9.460122	13.12751
-5.043327	2.9570612	-12.32751	-6.423898	-23.97082	-5.533388	-34.25286	4.7672857
-5.288837	6.1449592	-10.38429	-7.953265	-25.99163	-8.458327	-34.7698	1.5068327
-6.924184	4.430898	-9.400449	-4.772265	-25.11204	-11.31761	-32.98286	-8.876939
-7.377653	-4.400184	-17.83888	-4.669653	-36.25653	-20.89061	-47.54469	-11.15992
-14.86855	-20.77592	-30.95898	-13.74461	-48.46122	-35.05429	-61.19837	-34.6698
-33.47653	-29.7451	-43.81041	-27.84224	-59.61102	-52.5202	-72.67265	-59.98694
-51.7	-50.50429	-65.19592	-50.34531	-77.26551	-72.64837	-97.37694	-88.56388
-71.28245	-78.09347	-90.54184	-76.8898	-102.5088	-95.08265	-116.3622	-118.758
-112.0667	-119.7639	-134.5776	-119.9104	-144.3429	-142.8627	-154.6349	-171.0759
-165.9182	-177.3008	-199.6751	-184.7549	-206.6408	-211.5306	-211.2429	-232.5327
-231.7286	-251.4224	-275.8245	-258.4429	-283.0286	-296.0592	-288.0204	-312.7
-316.6837	-338.1	-379.4143	-362.8469	-390.1612	-400.2224	-396.5531	-417.5306
-436.1143	-458.902	-505.998	-492.6653	-523.8612	-536.3959	-534.649	-555.1837
-585.7898	-608.1633	-663.2102	-651.5061	-681.5694	-699.751	-694.9959	-718.8959
-772.8347	-792.0388	-854.2184	-847.2367	-867.7755	-898.7061	-889.4082	-918.8939
-1003.218	-1027.392	-1087.539	-1087.494	-1102.841	-1138.796	-1126.9	-1162.494
-1289.953	-1310.241	-1374.157	-1379.116	-1401.89	-1434.816	-1429.949	-1451.571
-1624.894	-1648.935	-1710.065	-1725.916	-1743.751	-1772.902	-1780.006	-1793.41
-2029.873	-2052.061	-2105.51	-2127.449	-2139.571	-2167.408	-2177.163	-2196.878
-2487.204	-2502.857	-2554.224	-2572.776	-2588.388	-2613.755	-2627.163	-2653.286
-2997.939	-3020.898	-3058.469	-3075.265	-3093.735	-3101.286	-3134.633	-3158.571
-3576.184	-3590.041	-3617.347	-3634.163	-3646.959	-3651.837	-3678.02	-3708.347
-4201.286	-4212.327	-4225.163	-4237.939	-4248.388	-4251.408	-4261.143	-4299.653
-4866.143	-4865.347	-4868.265	-4875.531	-4880.592	-4874.531	-4880.082	-4912.857
-5551.878	-5542.082	-5542.735	-5539.612	-5539.612	-5518.286	-5523.714	-5555.163
-6250.551	-6237.102	-6239.816	-6217.673	-6205.469	-6174.735	-6183.531	-6204
-6952.796	-6933.265	-6931.612	-6881.49	-6868.429	-6828.102	-6822.245	-6846.204
-7636.204	-7606.735	-7590.98	-7525.469	-7502.612	-7445.694	-7436.633	-7456.939
-8276.408	-8228.163	-8204.571	-8134.184	-8087.959	-8029.388	-8001.796	-8028.163
-8834.286	-8776.98	-8742.837	-8667.306	-8602.224	-8530.347	-8494.245	-8527.143
-9324.796	-9257.469	-9214.449	-9123.98	-9053.694	-8976.367	-8924.857	-8948.49
-9724.735	-9652.327	-9593.388	-9509.694	-9414.245	-9324.735	-9272.224	-9311.735
-10050.59	-9973.51	-9897.673	-9806.633	-9702.327	-9609.061	-9555.49	-9599.51
-10286.76	-10208.69	-10121.31	-10024.98	-9919.776	-9820.816	-9761.857	-9810.367
-10433.65	-10357.33	-10259.84	-10175.33	-10075.16	-9959.041	-9889.571	-9960
-10526.35	-10441.27	-10336.22	-10249.53	-10141.47	-10031.53	-9958.531	-10028.39
-10540.04	-10469.61	-10363.18	-10259.06	-10162.08	-10046.55	-9979.592	-10058.43
-10530.49	-10449.69	-10343.29	-10231.73	-10145.49	-10024.41	-9974.633	-10058.57
-10490.9	-10414.76	-10305.84	-10201.53	-10113.27	-9980	-9951.918	-10041.76
-10446.96	-10371.2	-10266.65	-10155.16	-10089.96	-9940.265	-9930.796	-10019.47
-10432.76	-10345.33	-10258.2	-10132.45	-10087.47	-9955.388	-9933.837	-10035.12
-10452.86	-10335.35	-10252.78	-10156.24	-10106.04	-9999.857	-9961.714	-10066.35
-10489.59	-10375.12	-10272.06	-10203.29	-10137.14	-10057.94	-10003	-10113.08
-10493.57	-10390.96	-10271	-10202.39	-10147.16	-10055.86	-10012.69	-10132.88
-10436.94	-10330.18	-10216.02	-10130.18	-10107.86	-10005.02	-9948.224	-10081.33

-10252.04	-10159.86	-10015.08	-9958.02	-9925.653	-9810.98	-9771.286	-9937.694
-9893.653	-9803.816	-9654.429	-9618	-9562.184	-9427.857	-9417.714	-9537.49
-9289.143	-9207.653	-9054.102	-9017.633	-8961	-8788.633	-8755.857	-8881.347
-8318.551	-8261.245	-8142.51	-8089.959	-8056.633	-7876.49	-7828.592	-7991.306
-7072.388	-7068.592	-6882.51	-6822.306	-6800.265	-6679.449	-6593.204	-6678.959
-5277.918	-5412.776	-5207.286	-5147.041	-5100.571	-5053.224	-4913.286	-5047.143
-3194.367	-3288.735	-3164.592	-3058.592	-3065	-2970.041	-2875.592	-2997.388
-706.6408	-695.2143	-677.9102	-562.6061	-564.8388	-472.6245	-456.0714	-458.102
2210.6122	2117.8367	2108.6531	2426.8776	2238.9592	2362.9592	2453.5102	2412.0204
5488.5918	5336.3878	5207.0816	5499.1837	5239.4694	5332.1633	5416.1224	5434.6735
8760.3265	8645.5306	8396.4898	8649.898	8440.102	8286	8643.4694	8683.6735
11950.551	11529.776	11532.408	11880.49	11438.51	11341.898	11607.163	11805.02
14631.061	14150.367	14549.184	14519.551	14219.49	14066.51	14172.265	14464.122
17055.898	16497.755	17162.878	16902.184	16588.878	16502.163	16470.531	16643.592
19199.122	18594.082	19421.388	19022.367	18769.224	18655.347	18545	18723.918
20654.082	19966.51	21028.98	20476.122	20274.143	20056.367	19951.51	19986.265
21171.837	20314.184	21758.367	20941.633	20983.265	20536.735	20441.429	20232.184
20373.184	20094.694	21411.837	20584.49	20839.796	20477.755	19977.694	19593.061
19790.796	19842.245	20179.449	19856.429	19991.204	19807.694	19358.571	18046.673
20115.02	20246.041	17546.429	20671.633	19281.776	18711.449	20101.531	17815.796
17550.837	18606.184	14920	18633.143	18550.265	16005.143	18412.694	17251.878

-1) of 92 (°C)

length	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol
260	61.1936	11.850473	-35.92647	59.295855	108.23782	17.0048	72.194836
259	-2.96424	84.743273	244.61455	54.138545	40.885964	136.38618	175.82182
258	64.993964	105.42255	68.430545	122.35055	-19.36553	76.997091	56.108582
257	42.5464	77.154182	48.536945	41.456218	15.031855	25.247055	2.3545891
256	60.930836	28.0848	-5.368087	30.593818	6.4613018	7.1335782	-26.64473
255	56.538327	-17.30807	-30.60851	7.1143855	21.006909	-1.152175	-41.53607
254	31.808073	-46.4	-67.59491	8.2809455	4.5172145	-8.781745	-66.24545
253	22.976727	-48.72109	-76.22109	3.1923782	-7.527491	-32.97847	-76.81164
252	2.0981527	-64.32516	-94.94327	4.2777745	-6.04664	-52.91862	-92.94255
251	-21.14647	-78.28145	-68.46567	-15.79993	-13.76015	-60.86371	-86.808
250	-69.30298	-88.50036	-83.48	-10.13425	-38.96495	-91.24655	-115.1156
249	-82.60364	-103.2873	-105.0393	-46.28691	-70.53033	-112.0313	-141.528
248	-132.7251	-137.0073	-130.3469	-94.47855	-112.8189	-172.136	-176.8269
247	-160.1324	-163.1738	-132.9811	-133.2444	-144.9418	-242.3862	-216.7244
246	-188.8742	-198.6662	-167.2916	-186.1767	-209.5127	-307.9775	-258.8749
245	-219.9207	-252.4604	-243.3578	-240.496	-277.5542	-375.512	-327.4662
244	-280.2669	-334.5455	-311.9898	-319.6473	-368.7709	-460.8924	-423.4116
243	-390.888	-451.8364	-435.6785	-436.9789	-514.76	-558.7309	-566.1033
242	-522.1724	-577.1215	-592.5411	-588.6524	-696.2349	-706.6647	-744.3055
241	-688.5964	-739.8473	-781.4982	-773.0909	-889.0545	-894.2255	-937.1709
240	-893.12	-943.3891	-995.4473	-1006.407	-1109.535	-1108.269	-1161.084
239	-1181.905	-1215.44	-1307.884	-1308.662	-1393.76	-1411.527	-1479.316
238	-1524.269	-1548.953	-1621.338	-1647.6	-1714.247	-1732.08	-1832.836
237	-1910.807	-1944.371	-2020.618	-2071.884	-2113.287	-2133.185	-2235.716
236	-2402.109	-2423.585	-2503.433	-2588.924	-2588.56	-2635.069	-2739.985
235	-2978.153	-2985.033	-3046.851	-3177.745	-3163.375	-3206.647	-3287.287
234	-3626.982	-3611.207	-3667.389	-3809.004	-3776.764	-3877.869	-3892.255
233	-4335.571	-4262.196	-4366.735	-4505.542	-4446.015	-4575.484	-4552.953
232	-5104.865	-5015.447	-5103.585	-5267.498	-5184.044	-5335.193	-5276.531
231	-5916.036	-5800.88	-5887.811	-6061.585	-5978.451	-6108.604	-6071.404
230	-6760.465	-6613.658	-6707.513	-6890.771	-6830.604	-6915.564	-6901.898
229	-7651.782	-7487.273	-7562.109	-7770.182	-7703.782	-7740.945	-7757.382
228	-8531.418	-8365.236	-8450.545	-8643.636	-8562.473	-8594.836	-8622.982
227	-9413.236	-9213.6	-9334.909	-9482.982	-9386.691	-9399.055	-9423.564
226	-10216.73	-10068.29	-10165.75	-10292.87	-10183.35	-10185.53	-10199.2
225	-11020.22	-10848.36	-10990.76	-11098.55	-10957.82	-10948.58	-10970.76
224	-11771.27	-11602.04	-11695.93	-11826.84	-11649.02	-11639.27	-11660.73
223	-12458.04	-12269.31	-12373.67	-12508.44	-12320.73	-12303.78	-12287.56
222	-13090.18	-12902.91	-12981.67	-13150.47	-12944.29	-12907.05	-12872.87
221	-13627.05	-13416.29	-13492.58	-13624.29	-13461.89	-13390.18	-13321.09
220	-14042.84	-13862.4	-13938.55	-14026.25	-13851.78	-13820.8	-13669.09
219	-14348.07	-14121.38	-14201.96	-14295.93	-14124.29	-14098.62	-13872.87
218	-14501.09	-14305.96	-14341.16	-14469.38	-14281.82	-14283.27	-14015.64
217	-14546.47	-14319.78	-14370.47	-14498.4	-14308.73	-14288.29	-14065.45
216	-14461.53	-14264.22	-14301.31	-14396.65	-14228.58	-14187.42	-14018.47
215	-14301.02	-14151.35	-14146.55	-14241.31	-14033.16	-14001.24	-13852.29
214	-14059.49	-13913.38	-13954.98	-13998.84	-13779.13	-13747.85	-13595.56
213	-13739.93	-13595.85	-13591.93	-13610.98	-13457.75	-13361.24	-13231.05
212	-13276.15	-13150.18	-13082.69	-13117.24	-12982.25	-12850.11	-12718.11
211	-12671.2	-12457.45	-12398.76	-12445.16	-12298.69	-12158.62	-12081.6

210	-11735.13	-11497.96	-11490.55	-11496.07	-11382.55	-11223.49	-11098.55
209	-10547.78	-10286.62	-10272.73	-10217.53	-10112	-9956.145	-9882.036
208	-8961.891	-8770.836	-8698.036	-8631.855	-8551.636	-8398.036	-8278.545
207	-7132.036	-6982.015	-6809.055	-6737.855	-6710.4	-6551.396	-6411.447
206	-4978.727	-4834.291	-4604.255	-4559.047	-4539.287	-4449.076	-4220.836
205	-2562.88	-2394.945	-2152.24	-2146.298	-2173.404	-2084.924	-1894.865
204	11.891709	223.46182	440.91782	528.59855	518.98109	477.80364	663.13236
203	2806.1455	2969.7527	3212.3345	3387.4691	3330.1091	3228.3418	3409.1418
202	5617.3891	5745.0909	6054.6691	6206.2982	6162.3709	6091.7018	6100.2182
201	8352.7273	8454.1818	8778.9091	8784.2182	8781.7455	8694.9091	8787.7818
200	10755.491	10816.582	11206.836	11055.418	11073.6	11172.727	11116.873
199	12764.073	12826.255	13281.091	13183.491	13076.073	13247.491	13087.127
198	14339.2	14565.455	14852.582	14660.873	14620.436	14892.945	14548.655
197	15608.436	15754.473	16004.873	15725.236	15806.909	16045.891	15729.6
196	16550.691	16664.8	16871.055	16572.727	16733.309	17002.618	16618.4
195	16896.8	16944.218	17234.4	16749.455	16965.527	17286.764	16921.745
194	16569.455	16669.6	16834.255	16296.655	16568.727	16827.418	16427.2
193	15764	15816.873	15931.345	15710.4	16035.2	15843.2	15767.491
192	15040.291	14929.527	15232.945	14601.091	15229.818	14614.036	15078.255
191	14172.582	12922.618	14555.2	14163.055	14517.6	13641.891	14787.2
190	11795.491	12516.291	13157.382	13124.436	12510.4	12437.236	11964.582

h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol
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58.974255	44.186836	62.549018	69.411345	7.3253091	33.904073	49.846473	54.138909
39.013018	39.353018	69.876364	36.912727	-41.79447	-21.50764	5.6833673	28.959418
30.929891	-3.062691	27.785673	-9.781236	-58.9224	-45.33935	-32.80815	26.714473
13.723273	-39.68073	-24.60182	-43.99389	-77.96727	-64.61513	-46.93716	-1.935091
7.3968727	-45.88793	-52.32371	-57.78989	-67.2104	-55.08502	-49.33345	-29.16596
-22.24109	-74.44582	-56.84444	-66.19207	-69.45578	-81.65382	-79.248	-48.68044
-42.03425	-99.76073	-60.90465	-62.8792	-65.78233	-84.35782	-90.88582	-76.35345
-77.78691	-118.0393	-100.8916	-97.52218	-85.19273	-114.7135	-115.6902	-120.9636
-114.6007	-140.2873	-140.896	-121.4756	-105.0145	-146.3971	-128.6982	-163.0756
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-205.3287	-218.0429	-193.9207	-215.8742	-192.104	-277.36	-232.4153	-273.5156
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-576.9513	-551.6444	-581.2596	-609.6778	-641.5767	-719.3833	-684.4865	-679.5825
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-8555.564	-8582.4	-8538.545	-8583.709	-8539.273	-8531.345	-8591.273	-8569.964
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14501.891 14304.727 14620.727 14170.764 13855.273 13838.764 13723.055 13832.218
15763.709 15556.582 15758.618 15480.509 14781.091 15032.509 14994.4 15018.909
16731.709 16514.255 16669.236 16404.873 15589.891 15757.6 15806.255 15962.182
17050.327 16988 17059.636 16848.145 15838.764 16108.218 16274.109 16457.6
16862.618 16798.255 16688.291 16729.236 15344.218 15943.927 16313.382 16215.2
16253.164 16115.418 16038.473 16045.673 14401.164 15770.327 16030.473 15809.455
15733.673 15645.382 14796.291 15250.327 13793.527 14552.8 14993.964 15366.764
14735.273 14382.255 13086.836 14721.6 13129.673 12818.182 13536.727 13415.491
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-1) of 92 (°C)

length	h ² dmol	h ² dmol	h ² dmol	h ² dmol	h ² dmol	h ² dmol	h ² dmol
260	96.354629	80.818009	-26.92335	71.471148	38.717898	100.38087	34.500238
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258	45.510067	29.897075	93.620799	-26.33882	40.382055	25.808497	55.554455
257	22.263911	65.847733	82.289949	-3.126617	49.422559	20.261493	38.714093
256	55.147828	74.907261	63.850269	12.502536	46.045101	18.135938	26.397234
255	54.021877	78.948954	55.313491	23.985376	36.271639	-0.495109	30.059845
254	42.791297	59.458228	57.629597	14.863626	28.710447	-15.35277	16.354788
253	16.92775	47.267755	38.541733	9.001506	11.910629	-31.86501	3.302588
252	2.0105422	51.193722	20.485495	17.017359	-7.838221	-40.28139	-11.37131
251	-23.21746	33.163245	8.3356056	2.6523026	-27.26173	-56.98438	-17.26855
250	-37.95652	18.021996	-13.39291	-25.37175	-51.71806	-57.24318	-40.6892
249	-50.98248	2.6818366	-25.81948	-38.33719	-56.71211	-71.27219	-53.54074
248	-80.77679	-15.33989	-49.69008	-52.62563	-61.15449	-81.74065	-72.50238
247	-107.2832	-52.35614	-78.25301	-86.17549	-102.6355	-103.1627	-109.2387
246	-112.2559	-79.65441	-114.0286	-109.9366	-120.9555	-128.0231	-138.125
245	-139.7166	-125.0273	-150.128	-156.5191	-168.7567	-172.9807	-190.1102
244	-197.7604	-179.958	-217.2139	-221.1573	-226.5857	-243.0624	-261.9055
243	-249.5732	-232.3926	-265.6999	-273.9371	-278.6089	-316.3891	-325.4296
242	-323.6477	-300.0939	-343.5776	-361.858	-357.4116	-400.6024	-404.3595
241	-434.4602	-410.9068	-459.8763	-468.4092	-476.4426	-521.1755	-521.441
240	-553.773	-534.7654	-595.8703	-597.7053	-616.705	-653.1904	-651.8667
239	-711.2437	-687.7021	-753.3053	-738.7445	-772.5269	-808.4456	-819.0631
238	-895.1411	-859.5355	-933.4734	-922.6855	-961.7034	-995.4542	-1006.04
237	-1112.032	-1072.107	-1140.686	-1144.444	-1179.086	-1199.976	-1226.272
236	-1330.323	-1300.551	-1392.355	-1381.476	-1421.413	-1428.095	-1467.969
235	-1581.127	-1567.244	-1667.153	-1651.736	-1676.613	-1695.74	-1741.566
234	-1888.293	-1866.733	-1964.589	-1966.986	-1978.175	-1996.695	-2046.952
233	-2214.89	-2199.219	-2292.521	-2311.24	-2336.656	-2329.593	-2374.62
232	-2567.014	-2542.862	-2633.969	-2681.218	-2692.628	-2689.018	-2733.628
231	-2958.64	-2918.944	-3011.378	-3072.646	-3085.74	-3073.45	-3120.474
230	-3384.555	-3325.511	-3445.094	-3514.486	-3516.174	-3502.481	-3548.506
229	-3845.696	-3771.651	-3892.173	-3965.044	-3966.233	-3939.161	-3978.678
228	-4332.633	-4247.741	-4375	-4453.947	-4451.886	-4410.471	-4446.1
227	-4862.278	-4767.24	-4888.713	-4962.746	-4967.977	-4922.519	-4939.283
226	-5384.314	-5319.475	-5412.532	-5486.129	-5506.222	-5431.595	-5456.603
225	-5957.911	-5897.313	-5974.398	-6028.377	-6024.929	-5954.383	-5987.754
224	-6526.078	-6487.238	-6519.618	-6569.277	-6579.344	-6482.681	-6514.743
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222	-7580.612	-7586.279	-7619.253	-7598.684	-7596.306	-7478.995	-7505.311
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220	-8517.834	-8537.888	-8553.186	-8517.28	-8479.272	-8383.521	-8343.611
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195 12302.949 12252.14 11968.096 12086.319 11895.054 12079.027 11300.571
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190 7091.1145 8719.3643 9177.3542 7645.2917 8527.5048 6307.5063 7076.1731

h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol	h^2 dmol
40.603599	64.173668	72.36208	33.092581	55.324984	85.838618	39.671053	-4.165782
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45.810875	-22.37441	44.073399	38.461755	32.661541	13.448795	76.553979	40.116915
26.770133	9.3998494	28.372464	62.340679	0.0911596	32.135344	35.071615	26.212587
35.749168	29.301918	47.894737	53.773779	-5.342462	46.148145	34.363586	36.679653
45.178741	32.686628	33.208624	41.345117	-15.47682	37.963459	40.150999	40.400682
45.835843	31.584971	9.9081325	19.477608	-15.77798	29.401355	21.230144	24.056397
28.687896	23.38792	-10.48375	13.057189	-12.89628	15.210526	-2.684694	7.4846623
17.261652	16.423272	-29.49838	-12.52469	-26.69987	10.230699	-27.77885	-10.54998
12.715877	7.3775761	-50.97376	-38.08033	-36.07177	-16.61834	-43.35249	-25.15532
-5.912532	-18.73114	-70.20529	-67.94586	-61.99826	-46.56309	-67.03828	-45.65908
-21.31765	-41.49255	-92.69816	-103.9684	-79.56523	-68.34456	-90.33212	-71.1212
-46.24009	-66.11525	-113.408	-127.9284	-112.0533	-93.99295	-120.8263	-96.88729
-102.7917	-103.2193	-155.8854	-165.8022	-143.8281	-144.958	-174.5755	-148.6735
-139.9893	-142.6292	-178.4238	-199.3259	-190.2667	-189.4614	-215.8414	-187.4283
-193.7338	-201.7712	-226.8746	-255.7835	-259.5621	-257.6062	-282.9471	-245.6048
-251.3178	-282.1504	-291.5068	-325.6468	-339.1713	-340.8188	-359.9536	-324.5347
-312.0815	-346.4981	-358.2808	-391.9372	-412.2384	-417.1053	-430.2235	-399.6829
-397.3763	-437.2662	-453.7849	-501.5813	-517.3748	-509.0877	-542.4937	-519.4198
-518.9204	-562.611	-578.3608	-623.7516	-643.857	-643.0921	-673.0501	-660.2647
-653.2934	-700.6103	-716.6336	-751.0542	-774.9564	-776.7121	-824.9247	-817.6641
-808.7112	-867.0854	-886.1446	-919.9152	-947.2575	-953.6263	-1005.334	-993.4884
-1005.089	-1075.392	-1088.019	-1132.582	-1156.955	-1159.29	-1219.578	-1220.383
-1227.608	-1306.091	-1308.117	-1360.479	-1378.836	-1382.966	-1447.289	-1451.494
-1475.242	-1556.908	-1560.982	-1615.06	-1630.434	-1629.974	-1696.667	-1714.696
-1744.059	-1827.544	-1838.408	-1887.548	-1897.63	-1900.476	-1972.059	-2000.079
-2056.797	-2135.372	-2132.419	-2186.149	-2199.762	-2219.027	-2274.54	-2308.707
-2399.806	-2456.745	-2474.667	-2522.618	-2515.726	-2565.31	-2616.642	-2650.995
-2747.987	-2825.012	-2832.744	-2860.043	-2877.731	-2924.889	-2961.466	-2999.366
-3123.799	-3208.549	-3220.783	-3240.825	-3250.765	-3293.667	-3332.372	-3393.167
-3528.424	-3617.07	-3627.842	-3667.347	-3652.271	-3683.973	-3725.563	-3793.956
-3963.419	-4047.479	-4066.027	-4113.824	-4077.124	-4089.41	-4154.685	-4197.289
-4427.037	-4522.154	-4527.386	-4582.197	-4542.486	-4516.051	-4588.935	-4638.713
-4921.33	-5037.532	-5021.837	-5058.537	-5020.926	-5002.338	-5055.327	-5100.587
-5436.588	-5527.108	-5515.694	-5548.272	-5491.003	-5488.229	-5533.529	-5555.881
-5963.261	-6057.506	-6034.837	-6056.833	-6001.189	-5988.546	-6039.077	-6028.654
-6498.692	-6596.465	-6550.254	-6582.356	-6493.263	-6489.497	-6542.565	-6522.67
-7015.06	-7095.157	-7054.613	-7068.286	-6967.7	-6952.283	-7015.893	-6977.291
-7501.665	-7552.315	-7525.563	-7523.423	-7428.622	-7414.553	-7467.977	-7398.462
-7947.091	-7984.504	-7954.978	-7943.247	-7842.7	-7851.974	-7875.317	-7797.717
-8319.713	-8367.232	-8333.148	-8298.232	-8205.493	-8214.093	-8219.8	-8153.496
-8621.433	-8644.578	-8650.404	-8568.405	-8490.132	-8471.465	-8491.321	-8421.925
-8829.146	-8865.052	-8882.094	-8747.582	-8681.555	-8640.813	-8652.188	-8626.189
-8938.491	-8958.624	-8996.79	-8853.242	-8776.355	-8685.717	-8703.036	-8724.477
-8986.327	-8990.211	-9035.51	-8894.856	-8795.101	-8682.15	-8707.078	-8710.328
-8924.778	-8939.482	-8963.776	-8805.128	-8704.7	-8574.231	-8609.187	-8591.986
-8763.435	-8745.561	-8783.172	-8600.151	-8513.99	-8348.684	-8353.757	-8399.374
-8448.518	-8471.504	-8487.318	-8300.016	-8186.192	-8068.881	-8049.58	-8048.629
-8000.634	-8022.154	-8030.239	-7836.16	-7734.979	-7586.16	-7555.049	-7564.957
-7389.862	-7428.147	-7378.448	-7262.682	-7133.244	-6974.358	-6935.875	-6993.381

-6599.992 -6622.146 -6553.702 -6506.539 -6358.632 -6202.877 -6135.701 -6192.058
-5652.346 -5657.221 -5587.865 -5534.916 -5379.478 -5297.479 -5199.627 -5191.741
-4442.811 -4454.542 -4371.195 -4394.103 -4247.305 -4222.099 -4044.348 -4061.509
-3123.811 -3140.437 -3032.637 -3128.614 -2939.795 -2958.937 -2729.015 -2786.553
-1651.91 -1685.249 -1481.638 -1644.051 -1469.927 -1480.893 -1335.487 -1312.659
-46.59956 24.72741 147.2523 -14.05739 51.925729 87.132213 246.90591 183.97511
1585.2172 1758.4694 1890.4328 1684.9992 1654.2208 1695.4146 1882.6688 1793.6747
3351.8469 3487.2939 3533.6002 3449.1955 3388.1896 3371.766 3534.2264 3401.7755
5093.215 5333.2276 5156.5076 5033.3307 5031.5869 5006.0241 5123.2958 4982.0466
6686.6677 6992.7077 6679.7321 6576.6487 6567.7315 6442.5729 6665.8212 6350.6658
8088.9743 8420.1411 7958.6636 7948.4781 7929.6132 7717.026 7968.2942 7477.9249
9279.2882 9509.3136 9173.3513 8943.7619 9046.5679 8723.0105 9021.4014 8520.8862
10223.486 10274.731 10114.379 9604.8668 9788.8792 9706.6424 9812.1433 9223.3672
10839.727 10868.778 10745.006 10245.086 10535.946 10185.399 10239.418 9751.0701
11238.824 11160.51 11074.865 10558.022 10936.906 10426.839 10476.776 10062.341
11245.363 11025.563 11160.075 10436.985 10978.242 10392.438 10380.984 9999.0488
10798.787 10560.796 10989.418 10176.76 10558.299 10043.992 9878.5273 9658.2911
10142.161 9691.5425 10340.203 9896.124 10135.265 9507.649 9050.2933 9266.051
9396.7977 9470.1966 9345.3155 9584.0996 9565.8291 8601.4585 8327.5602 8646.9166
8068.1674 9241.8754 7901.4347 10055.683 9445.6642 6300.6103 7564.1646 7722.1782
7057.3478 7222.416 7022.2733 6560.241 5694 6609.1867 6970.6325 5512.2067

-1) of 92 (°C)

(nm) of A1e(280nm)	A339 after	(nm) of A339	(nm) of Bce(280nm)	B42 after	(nm) of B42
220	10.603	220	9.833	220	13.2
221	10.824	221	10.148	221	12.661
222	11.207	222	10.638	222	12.219
223	11.688	223	11.325	223	11.98
224	12.183	224	12.069	224	11.68
225	12.919	225	13.132	225	11.513
226	13.097	226	13.66	226	11.179
227	12.7	227	13.423	227	10.76
228	12.026	228	12.81	228	10.286
229	11.286	229	12.064	229	9.786
230	10.472	230	11.208	230	9.244
231	9.535	231	10.208	231	8.594
232	8.578	232	9.189	232	7.883
233	7.527	233	8.084	233	7.041
234	6.366	234	6.866	234	6.043
235	5.349	235	5.79	235	5.112
236	4.522	236	4.909	236	4.319
237	3.812	237	4.156	237	3.605
238	3.203	238	3.513	238	2.977
239	2.649	239	2.921	239	2.39
240	2.24	240	2.483	240	1.957
241	1.97	241	2.192	241	1.673
242	1.762	242	1.965	242	1.46
243	1.577	243	1.766	243	1.276
244	1.408	244	1.588	244	1.118
245	1.292	245	1.461	245	1.009
246	1.205	246	1.364	246	0.927
247	1.128	247	1.28	247	0.86
248	1.066	248	1.215	248	0.809
249	1.028	249	1.171	249	0.777
250	1.008	250	1.15	250	0.76
251	0.992	251	1.133	251	0.748
252	0.99	252	1.124	252	0.742
253	0.994	253	1.126	253	0.748
254	1.013	254	1.144	254	0.772
255	1.04	255	1.17	255	0.793
256	1.075	256	1.204	256	0.819
257	1.109	257	1.245	257	0.853
258	1.145	258	1.28	258	0.883
259	1.174	259	1.309	259	0.91
260	1.202	260	1.338	260	0.939
261	1.229	261	1.366	261	0.967
262	1.254	262	1.394	262	0.991
263	1.284	263	1.425	263	1.028
264	1.321	264	1.464	264	1.076
265	1.375	265	1.516	265	1.136
266	1.419	266	1.563	266	1.199
267	1.451	267	1.6	267	1.251
268	1.476	268	1.628	268	1.299
269	1.497	269	1.649	269	1.339

270	1.515	270	1.667	270	1.376	270	1.425
271	1.528	271	1.682	271	1.411	271	1.461
272	1.537	272	1.693	272	1.442	272	1.492
273	1.547	273	1.701	273	1.474	273	1.523
274	1.554	274	1.708	274	1.501	274	1.55
275	1.565	275	1.718	275	1.527	275	1.577
276	1.574	276	1.731	276	1.55	276	1.602
277	1.586	277	1.74	277	1.569	277	1.619
278	1.592	278	1.745	278	1.578	278	1.623
279	1.592	279	1.744	279	1.572	279	1.616
280	1.583	280	1.732	280	1.557	280	1.6
281	1.563	281	1.711	281	1.531	281	1.575
282	1.534	282	1.679	282	1.492	282	1.536
283	1.501	283	1.641	283	1.445	283	1.488
284	1.471	284	1.605	284	1.394	284	1.433
285	1.438	285	1.571	285	1.337	285	1.374
286	1.402	286	1.534	286	1.269	286	1.303
287	1.362	287	1.488	287	1.182	287	1.214
288	1.312	288	1.434	288	1.089	288	1.117
289	1.257	289	1.374	289	0.994	289	1.017
290	1.191	290	1.301	290	0.893	290	0.913
291	1.1	291	1.204	291	0.783	291	0.8
292	0.996	292	1.091	292	0.672	292	0.686
293	0.887	293	0.969	293	0.573	293	0.585
294	0.771	294	0.843	294	0.482	294	0.493
295	0.66	295	0.721	295	0.403	295	0.412
296	0.566	296	0.617	296	0.336	296	0.344
297	0.484	297	0.528	297	0.288	297	0.296
298	0.416	298	0.452	298	0.246	298	0.255
299	0.357	299	0.387	299	0.213	299	0.219
300	0.306	300	0.332	300	0.186	300	0.193
301	0.263	301	0.282	301	0.162	301	0.167
302	0.221	302	0.237	302	0.143	302	0.147
303	0.18	303	0.199	303	0.124	303	0.129
304	0.145	304	0.163	304	0.107	304	0.115
305	0.119	305	0.137	305	0.094	305	0.099
306	0.098	306	0.114	306	0.083	306	0.084
307	0.08	307	0.092	307	0.074	307	0.077
308	0.066	308	0.075	308	0.064	308	0.063
309	0.055	309	0.065	309	0.055	309	0.056
310	0.051	310	0.059	310	0.049	310	0.047
311	0.045	311	0.05	311	0.047	311	0.042
312	0.039	312	0.042	312	0.045	312	0.039
313	0.034	313	0.037	313	0.04	313	0.036
314	0.031	314	0.033	314	0.035	314	0.033
315	0.027	315	0.031	315	0.033	315	0.028
316	0.025	316	0.032	316	0.032	316	0.029
317	0.02	317	0.03	317	0.029	317	0.027
318	0.015	318	0.023	318	0.027	318	0.026
319	0.016	319	0.023	319	0.022	319	0.023
320	0.019	320	0.024	320	0.018	320	0.022

321	0.014	321	0.02	321	0.016	321	0.02
322	0.012	322	0.018	322	0.011	322	0.013
323	0.008	323	0.016	323	0.011	323	0.013
324	0.002	324	0.01	324	0.009	324	0.01
325	0.002	325	0.008	325	0.009	325	0.01
326	0.002	326	0.009	326	0.01	326	0.012
327	0.001	327	0.009	327	0.007	327	0.01
328	0	328	0.012	328	0.008	328	0.007
329	0.002	329	0.013	329	0.01	329	0.007
330	0	330	0.013	330	0.01	330	0.009
331	0.003	331	0.013	331	0.006	331	0.005
332	0	332	0.012	332	0.006	332	0.002
333	-0.001	333	0.009	333	0.001	333	-0.001
334	0	334	0.009	334	-0.001	334	-0.003
335	0	335	0.006	335	0.002	335	-0.001
336	-0.003	336	0.001	336	-0.003	336	-0.002
337	-0.002	337	-0.002	337	-0.004	337	-0.005
338	-0.001	338	-0.001	338	-0.003	338	-0.004
339	0	339	-0.001	339	-0.001	339	-0.002
340	0	340	0	340	0	340	0
341	0.001	341	-0.004	341	-0.002	341	-0.003
342	0.001	342	-0.004	342	-0.004	342	-0.008
343	-0.001	343	-0.011	343	-0.004	343	-0.012
344	-0.001	344	-0.008	344	-0.006	344	-0.015
345	-0.001	345	-0.009	345	-0.007	345	-0.016
346	-0.001	346	-0.007	346	-0.008	346	-0.022
347	-0.003	347	-0.011	347	-0.015	347	-0.027
348	-0.002	348	-0.01	348	-0.017	348	-0.03
349	-0.003	349	-0.008	349	-0.019	349	-0.031
350	-0.006	350	-0.012	350	-0.019	350	-0.03

(nm) of C352 before 121 (°C) treatment		(nm) of C352 after 121 (°C) treatment	
220	12.471	220	12.376
221	11.804	221	11.746
222	11.271	222	11.224
223	10.825	223	10.784
224	10.384	224	10.354
225	10.042	225	10.03
226	9.65	226	9.6
227	9.209	227	9.158
228	8.766	228	8.719
229	8.31	229	8.266
230	7.85	230	7.805
231	7.307	231	7.262
232	6.71	232	6.669
233	6.023	233	5.983
234	5.172	234	5.139
235	4.329	235	4.303
236	3.623	236	3.591
237	3	237	2.969
238	2.461	238	2.429
239	1.953	239	1.923
240	1.559	240	1.532
241	1.304	241	1.277
242	1.122	242	1.092
243	0.97	243	0.942
244	0.843	244	0.82
245	0.752	245	0.729
246	0.684	246	0.663
247	0.634	247	0.613
248	0.596	248	0.575
249	0.574	249	0.554
250	0.561	250	0.545
251	0.556	251	0.54
252	0.553	252	0.537
253	0.562	253	0.546
254	0.584	254	0.567
255	0.607	255	0.591
256	0.632	256	0.618
257	0.666	257	0.65
258	0.697	258	0.683
259	0.723	259	0.708
260	0.748	260	0.734
261	0.772	261	0.76
262	0.795	262	0.783
263	0.825	263	0.812
264	0.865	264	0.854
265	0.913	265	0.904
266	0.965	266	0.958
267	1.01	267	1.002
268	1.048	268	1.042
269	1.082	269	1.075

270	1.116	270	1.111
271	1.146	271	1.141
272	1.176	272	1.168
273	1.206	273	1.197
274	1.234	274	1.222
275	1.256	275	1.247
276	1.283	276	1.271
277	1.306	277	1.291
278	1.313	278	1.298
279	1.308	279	1.295
280	1.295	280	1.284
281	1.276	281	1.265
282	1.248	282	1.235
283	1.212	283	1.198
284	1.168	284	1.154
285	1.119	285	1.106
286	1.066	286	1.051
287	0.998	287	0.984
288	0.92	288	0.908
289	0.839	289	0.83
290	0.755	290	0.75
291	0.664	291	0.659
292	0.573	292	0.571
293	0.492	293	0.49
294	0.42	294	0.418
295	0.357	295	0.353
296	0.303	296	0.297
297	0.261	297	0.255
298	0.227	298	0.219
299	0.197	299	0.191
300	0.173	300	0.165
301	0.151	301	0.143
302	0.133	302	0.123
303	0.116	303	0.107
304	0.104	304	0.093
305	0.093	305	0.084
306	0.084	306	0.075
307	0.078	307	0.067
308	0.071	308	0.061
309	0.064	309	0.055
310	0.055	310	0.047
311	0.048	311	0.041
312	0.043	312	0.037
313	0.039	313	0.031
314	0.036	314	0.03
315	0.034	315	0.028
316	0.03	316	0.026
317	0.03	317	0.026
318	0.03	318	0.025
319	0.032	319	0.029
320	0.028	320	0.027

321	0.026	321	0.024
322	0.02	322	0.02
323	0.016	323	0.017
324	0.015	324	0.016
325	0.014	325	0.015
326	0.013	326	0.015
327	0.012	327	0.011
328	0.012	328	0.013
329	0.013	329	0.014
330	0.014	330	0.015
331	0.016	331	0.013
332	0.013	332	0.012
333	0.011	333	0.011
334	0.008	334	0.007
335	0.007	335	0.006
336	0.006	336	0.003
337	0.005	337	0.003
338	0.004	338	0.002
339	0	339	0.002
340	0	340	0
341	-0.001	341	0
342	-0.002	342	-0.001
343	-0.002	343	-0.001
344	-0.005	344	-0.002
345	-0.003	345	-0.002
346	-0.004	346	-0.003
347	-0.002	347	-0.003
348	-0.004	348	-0.004
349	-0.005	349	-0.006
350	-0.005	350	-0.009

A339 after 0	39 after 2A	339 after 39	after 1A	339 after 39	after 1B	42 after 2B	42 after 2A
-0.013552	-470.8614	-4.17302	-419.8754	-5.389328	-604.3099	-12.65315	-431.0524
0.0896256	-468.7266	-3.983814	-420.0271	-5.274267	-603.9324	-12.45663	-434.14
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3.5582523	-27.06096	-2.136961	-115.8028	-5.930026	-224.7795	-7.478612	-137.3871
3.4887888	-22.24041	-2.03702	-115.9306	-5.756327	-223.4735	-7.518129	-135.6421
3.6249936	-20.72703	-1.896338	-117.3819	-5.803704	-221.0156	-7.461864	-132.5632
3.5531037	-20.10628	-1.845324	-119.2999	-5.743731	-217.286	-7.805528	-124.5042
3.6425672	-19.14701	-1.68404	-116.8752	-5.88018	-213.246	-7.540149	-120.6862
3.7910163	-17.82157	-1.847008	-114.6376	-6.054549	-210.0463	-7.987725	-114.5577
3.7728825	-13.15368	-1.704649	-112.1441	-6.004022	-207.6194	-7.559961	-114.2056
3.7014303	-8.214831	-1.963572	-107.959	-6.099583	-204.9286	-7.448682	-113.0564
3.7088127	-2.920994	-1.91358	-106.2245	-6.022612	-203.0313	-7.477724	-109.1024
3.634179	4.5204463	-1.770331	-105.4383	-6.207145	-200.061	-7.782913	-102.477
3.5886085	4.0940666	-1.52405	-106.5169	-6.227342	-197.4395	-7.798255	-102.2973
3.8654234	1.5788854	-1.543504	-106.4567	-6.119336	-194.2947	-7.743378	-99.45742
4.042044	-2.685071	-1.689781	-103.1903	-6.097185	-191.8801	-7.518532	-99.46989
4.3076806	-7.426329	-1.697097	-99.36754	-5.832417	-191.1492	-7.274965	-101.16477
4.4520226	-8.181683	-1.655913	-95.94209	-5.96469	-190.1616	-7.120515	-108.5977
4.585436	-6.554102	-1.738973	-93.21211	-5.857281	-188.058	-7.013701	-111.2391
4.592848	-3.867307	-1.660379	-92.51783	-5.894583	-185.8519	-6.869387	-111.9208
4.7261767	-4.610232	-1.574104	-93.72291	-5.928689	-183.4793	-6.68024	-112.545
5.007357	-7.522774	-1.384714	-94.23813	-5.836167	-182.2009	-6.484995	-110.5491
5.1079373	-7.723627	-1.333711	-94.27097	-5.841141	-179.5957	-6.596807	-109.1595
5.1656013	-7.617035	-1.259296	-92.90824	-5.697514	-177.0825	-6.507945	-110.4217
5.0784326	-5.007945	-1.207077	-90.48006	-5.869863	-174.7656	-6.242053	-113.3467
5.104834	-2.16217	-1.134053	-88.58041	-5.753902	-173.2265	-6.126035	-113.7407
5.0757565	0.2105661	-1.286804	-86.46742	-5.765051	-169.1759	-5.835062	-110.4097
5.2218246	0.3532217	-1.533528	-83.03037	-5.889415	-166.6091	-6.188361	-106.8271
5.3514338	-2.57978	-1.38709	-79.77106	-5.824518	-166.5447	-5.852926	-105.3893
5.5934615	-3.830716	-1.350127	-77.24345	-5.633216	-165.3132	-5.892458	-102.8028
5.7094026	-4.698645	-1.317554	-76.68767	-5.756105	-162.5436	-5.714978	-109.2439
5.5688877	-3.21941	-1.197657	-75.50731	-5.608763	-159.8878	-5.568153	-106.0769
5.6862106	1.5281109	-1.103919	-74.94119	-5.714672	-155.9996	-5.75065	-99.20482
5.8298364	2.9929893	-1.074938	-74.19379	-5.766273	-153.2051	-6.033453	-91.00775
5.9187393	1.5997155	-0.862801	-73.07422	-5.798313	-150.0608	-6.426737	-79.77953
5.9914937	-0.833993	-0.972999	-71.46711	-5.793016	-148.65111	-6.425189	-72.81819
6.225289	-5.067512	-0.884302	-70.23354	-5.693154	-148.6133	-6.41987	-68.49235
6.31045	-5.312989	-0.717979	-70.49651	-5.686914	-146.2877	-6.183386	-69.13428
6.504086	-5.64513	-0.744834	-70.76666	-5.649437	-143.4253	-5.943777	-77.4381
6.480917	-4.037694	-0.53069	-70.5835	-5.613759	-140.6356	-5.570049	-79.39052
6.362197	0.8656787	-0.649518	-68.94012	-5.868795	-136.2925	-5.702019	-80.48033

6.5431223	4.2050548	-0.696863	-64.53394	-5.748875	-134.7334	-5.401042	-83.61561
6.4399595	7.7030163	-0.744558	-61.09344	-5.518551	-134.6944	-5.227322	-82.93661
6.6543813	8.820804	-0.593497	-59.18446	-5.602029	-134.7826	-5.383643	-84.41775
6.7676973	5.996668	-0.685278	-57.66583	-5.572337	-134.0913	-5.256319	-79.26427
6.792968	7.001667	-0.679988	-56.62063	-5.478768	-132.4773	-5.623309	-71.62732
7.035232	5.4236045	-0.613305	-55.8827	-5.276114	-129.284	-5.589756	-67.58738
7.193937	-0.209587	-0.614767	-54.43816	-5.481534	-123.9087	-5.454135	-69.41015
7.372215	-4.57927	-0.509239	-52.48096	-5.652302	-120.4414	-5.146335	-76.95492
7.486977	-7.956928	-0.538808	-50.0595	-5.714568	-118.4475	-4.662611	-85.28834
7.711239	-6.841561	-0.509514	-47.99157	-5.652799	-118.19	-4.079214	-91.28352
7.832434	-4.760494	-0.348244	-47.566	-5.410891	-118.9008	-3.80143	-95.40569
7.88531	-2.692531	-0.250585	-47.55823	-5.360112	-118.847	-4.112553	-95.32955
7.742554	3.1630921	-0.408178	-47.07866	-5.385466	-116.5717	-4.026268	-88.66599
7.8239627	4.3410096	-0.100906	-47.00266	-5.471822	-111.8667	-4.409361	-74.37931
8.135729	3.1011784	-0.246102	-45.3959	-5.457093	-107.2649	-4.648316	-64.69353
8.021442	5.8244066	-0.060314	-43.14706	-5.421519	-104.356	-4.548502	-62.92009
7.955607	8.082436	-0.13303	-40.0448	-5.613051	-101.448	-4.356649	-61.66327
8.079219	8.43801	-0.192069	-34.78764	-5.649944	-99.24631	-4.134715	-62.99035
8.268995	5.688941	-0.312316	-31.26336	-5.589081	-97.07201	-3.997868	-68.77428
8.46894	3.3809338	-0.344677	-30.54832	-5.625385	-95.00137	-3.820687	-78.29005
8.56008	3.2274892	-0.091987	-31.24263	-5.411577	-93.14196	-3.479999	-84.29787
8.701967	0.3718739	0.0645617	-32.42202	-5.358985	-91.83239	-3.188944	-85.17365
8.983024	-0.291184	0.1269651	-32.22132	-5.349728	-93.70874	-3.336377	-82.43601
8.825275	6.673275	0.1639418	-29.05361	-5.120755	-95.64246	-3.239422	-74.41052
8.643787	16.46225	0.0707381	-27.05978	-5.030284	-94.54739	-3.580348	-64.75144
8.653558	20.255272	0.0867644	-23.44355	-4.944685	-91.79963	-3.899636	-51.81686
8.883708	15.385627	0.0796696	-20.78695	-5.07554	-88.83532	-4.067205	-46.79383
8.986585	12.775756	-0.035792	-17.95025	-5.004901	-85.95538	-3.760679	-49.8152
9.041672	12.799203	0.1092388	-15.79383	-5.104452	-84.93955	-3.71856	-51.07776
9.217629	10.934023	0.2660219	-14.73444	-4.863953	-83.61559	-3.374862	-55.49397
9.4934435	6.581826	0.1454339	-12.94143	-4.979935	-82.4372	-3.370598	-57.30361
9.550443	6.3953514	0.2138609	-12.160141	-4.965768	-81.24428	-3.361727	-57.56953
9.633252	7.9244857	0.2576339	-12.91258	-5.006331	-76.94711	-3.068542	-57.3882
9.636371	9.672799	0.5266277	-13.42833	-4.93913	-74.09981	-3.092661	-55.82416
9.797492	11.35317	0.5059757	-12.87209	-4.864965	-70.24483	-3.011008	-61.6357
9.647449	15.428915	0.3651124	-10.172211	-4.878706	-68.25884	-2.609445	-67.78613
9.669707	19.33445	0.2968701	-6.83908	-4.784415	-70.44631	-2.483321	-65.11989
9.91512	19.193945	0.2880594	-2.128181	-4.581722	-73.03249	-2.532488	-62.2445
10.099724	17.053307	0.1321645	2.9622355	-4.350754	-74.07597	-2.398905	-59.8015
10.319908	11.967134	0.0963016	5.7204595	-4.208479	-74.8357	-2.120036	-61.15311
10.508335	5.1666846	0.3855032	3.940092	-4.301413	-73.74264	-2.052906	-60.92309
10.659659	3.8720758	0.5261533	1.4950367	-4.264926	-72.51172	-2.221888	-57.53952
10.704365	7.0231733	0.7718537	-0.840764	-4.23959	-67.93577	-2.322815	-54.51413
10.724403	10.470782	0.8008208	-3.107836	-4.319263	-64.44976	-2.593941	-44.70508
10.740466	13.337782	1.1126797	-5.599721	-4.442855	-61.90188	-2.688532	-38.22543
10.685054	14.840347	1.2179626	-7.292147	-4.379505	-59.91065	-2.327225	-36.16173
10.771039	16.610596	1.3560104	-7.136679	-4.372076	-56.19167	-2.402834	-35.85736
11.010198	13.23208	1.5699939	-7.970336	-4.382681	-54.0434	-2.152434	-38.87845
11.112682	8.400957	1.8907756	-12.10362	-4.390362	-51.37764	-1.89061	-44.76483
11.412622	6.3270082	1.8128113	-11.09408	-4.235915	-51.37353	-1.732222	-46.98976
11.480921	7.2181025	1.7252547	-6.324123	-4.196444	-49.26547	-1.483491	-50.24106

11.629271	5.855393	1.5649277	-0.991643	-4.132239	-47.41174	-1.46456	-47.16434
11.734114	4.134399	1.7130759	2.1451564	-4.258276	-44.56525	-1.418744	-49.37877
11.843338	4.1139846	1.6643841	5.97298	-4.164173	-42.61424	-1.271565	-51.26776
11.948002	7.0096216	1.5461125	8.900099	-4.279608	-39.79339	-0.988066	-48.55352
11.849568	10.595222	1.6463382	7.490098	-4.174551	-38.46574	-1.124636	-44.45972
12.022072	11.475268	1.88464	4.32921	-4.062557	-37.06862	-1.534163	-37.50968
12.015447	13.230949	2.100208	0.7777026	-4.076311	-37.32147	-1.23821	-35.16874
12.088424	17.462738	2.2997248	-2.380168	-4.063159	-34.80921	-1.326021	-31.41519
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12.429288	12.516316	2.6490383	-5.011175	-4.063587	-32.90962	-1.656578	-17.02156
12.457586	12.228538	2.6992967	-2.678717	-3.751962	-34.61835	-1.705322	-13.87861
12.480907	15.87028	2.7707188	-2.210707	-3.632659	-33.99442	-1.705246	-11.63829
12.477629	20.19987	2.6879406	-0.565017	-3.772525	-31.04883	-1.5246	-9.485082
12.403321	22.915989	2.8713653	0.6601247	-3.91856	-27.59692	-1.585433	-5.418905
12.348904	25.799976	3.0593288	1.6667387	-3.874241	-24.42938	-1.256872	-14.42677
12.592544	25.356705	2.9356446	4.358523	-4.018052	-18.90939	-0.857319	-18.55526
12.723588	21.216993	2.7741685	8.863418	-3.906807	-15.36592	-0.835427	-18.37043
13.041743	17.963732	2.7353036	13.320117	-3.940373	-12.06758	-0.429192	-22.97947
13.240507	15.244535	2.7112126	15.918086	-3.760524	-13.62883	-0.395099	-29.32737
13.363684	9.854334	2.9251535	16.605818	-3.615986	-15.5051	-0.345739	-33.6101
13.746586	1.9503444	2.973108	15.898161	-3.418041	-15.26381	0.4392184	-34.99535
13.99387	-3.842633	3.1613362	13.691304	-3.540377	-14.51899	0.0217968	-28.92967
14.122671	-5.833391	3.3987818	12.981649	-3.42264	-13.14562	-0.243481	-22.94011
14.271004	-6.877282	3.2078571	13.646523	-3.506797	-9.083286	-0.19923	-19.22085
14.245468	-3.898884	3.462059	14.74523	-3.501109	-6.977516	-0.103886	-17.31371
14.179932	4.52294	3.5247254	15.575138	-3.608035	-3.181176	-0.118193	-14.36198
14.080671	11.614487	3.738654	15.961143	-3.504944	-3.222252	-0.057153	-14.50995
14.030601	14.557643	3.6306868	15.752069	-3.33414	-3.2623	-0.35977	-12.16622
14.213631	10.971493	3.8557389	13.889076	-3.214238	-2.414082	0.1696075	-14.57978
14.299786	9.492943	4.0672765	13.11145	-3.421851	0.7702242	0.360429	-14.97388
14.454192	10.507047	4.077657	12.264527	-3.334318	3.1206276	0.3182086	-13.14776
14.494972	13.21313	4.237487	13.061459	-3.242743	4.066592	0.6517951	-16.98034
14.512732	12.679033	4.2590036	16.026125	-3.03854	2.9769886	0.7593402	-23.00717
14.737946	12.614479	4.0356836	20.08835	-2.828331	2.5630655	0.9575203	-22.22067
14.794983	12.013702	3.9985793	24.2288	-2.632785	-1.387583	0.9747527	-19.93408
14.821754	14.561667	3.8962255	27.515146	-2.464402	-3.257564	1.1095542	-16.40632
14.946872	13.209024	3.9404142	27.305065	-2.462572	-3.657858	1.2148913	-19.00336
15.274566	10.919555	4.148813	26.29729	-2.420013	0.7305849	1.1353211	-21.94416
15.364631	9.11248	4.3640203	22.696793	-2.440819	3.8393226	1.5104166	-19.1725
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15.683254	22.552238	5.007216	18.698925	-2.043901	7.83611	1.7780595	-12.61898
15.575118	25.636263	5.298963	17.854836	-1.880094	6.4335775	1.484656	-5.225507
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15.88973	20.96036	5.734394	16.214376	-1.40372	-0.128994	1.2451054	9.523481
16.098433	14.571197	5.732277	17.559387	-1.367459	0.2850394	1.3257289	9.909822
16.383453	11.375902	5.7195387	19.95469	-1.355881	4.135989	1.49136	7.4677877
16.529556	10.648513	5.660807	22.018183	-1.576744	10.594376	1.6128858	5.5066743

16.5819	10.956289	5.722331	23.348095	-1.64825	15.886608	2.2166572	-3.902344
16.60647	12.538301	5.813117	24.455719	-1.813872	20.878408	2.367198	-4.490507
16.760353	13.021785	5.8732824	25.342892	-1.753246	22.580643	2.4000936	-3.233998
16.85242	12.33445	5.783866	27.58321	-1.767392	22.809639	2.1283038	1.8298461
17.0725	9.531414	5.8142753	30.510826	-1.64029	23.720852	2.2315571	4.9013443
16.983759	12.157034	5.71325	33.63136	-1.49242	24.357944	2.0187922	11.839716
17.175064	13.332073	5.904406	34.564877	-1.567884	25.846416	1.8341773	22.979855
17.21456	15.811572	6.0043187	33.88059	-1.398354	25.00967	1.8422881	25.259613
17.145546	16.323532	5.9600663	33.04033	-1.102469	22.502073	2.094124	21.35482
17.397629	12.499249	6.198922	32.7722	-1.049022	22.262806	2.3536072	19.463041
17.761131	7.616689	6.2229795	33.522995	-1.1129515	25.119621	2.6034214	10.85329
17.81505	5.344988	6.4674525	33.31888	-1.094545	28.331383	2.9224286	3.8136117
17.847242	6.458046	6.642493	29.034473	-0.977646	30.669838	3.3890038	-4.846432
18.047682	7.382141	7.0386415	23.669916	-1.093733	32.800972	3.225801	-5.840706
18.155596	5.080675	7.327456	18.769125	-1.122565	36.928192	3.0619214	2.715511
18.137762	8.180538	7.623376	15.783132	-1.270942	39.259407	3.2692676	9.394362
18.183638	9.412484	7.5825424	17.296158	-1.074367	39.178585	3.0098927	14.366292
18.265642	9.09719	7.485246	24.50722	-0.979389	41.46379	3.242965	13.26647
18.29782	10.941818	6.9755154	33.331936	-1.146198	44.828785	3.6836276	7.0650005
18.432175	10.796421	6.8757105	40.81915	-0.944409	42.731503	3.9043026	2.4120436
18.715355	9.493985	6.7990217	45.75671	-0.709063	38.869526	4.216048	-2.447919
18.884983	3.4905927	6.5644026	49.6612	-0.540501	37.11189	4.4169745	-6.508812
19.281572	-4.466725	6.6965795	53.715702	-0.394627	37.325424	4.4149575	-4.76621
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79.675545 38.961403 69.061226 34.68652 61.103577 41.942894 64.469505 38.644623
79.832115 39.75598 69.300674 32.551174 61.183727 41.756767 64.66847 39.68806
79.79884 42.42485 69.36723 32.46409 61.523502 37.943184 64.98115 36.481705
79.78988 48.294044 69.512634 33.284184 61.588543 35.642612 65.06005 33.55641
79.72805 52.464363 69.427704 36.864048 61.975014 31.276928 65.12353 32.77478
79.790115 56.197563 69.19772 42.656578 62.119965 26.55135 65.20412 35.684654
80.00229 54.157906 69.07693 49.15617 62.618576 22.045752 65.183075 42.482407
80.23424 49.263214 68.963455 53.275013 62.78647 19.476564 65.02149 45.644413
80.40403 45.17149 69.12923 53.878635 62.90773 20.413712 65.2791 46.331745
80.51936 44.919994 69.27742 51.260952 62.667965 23.083723 65.17388 46.682545
80.4119 46.980896 69.570175 48.07147 62.6786 26.60192 65.38009 41.06157
80.615524 50.150036 69.61667 48.110607 62.410805 33.262726 65.82387 38.13051
80.545 54.46875 69.66282 50.209076 62.4633 38.358482 65.830605 32.042103
80.5008 57.55086 69.693375 52.13892 62.39189 43.881702 66.43061 32.276386
80.79104 53.10889 69.73264 51.682205 62.034992 50.830597 66.28361 33.88
81.09259 44.033386 69.98541 46.72167 62.050495 54.35218 66.31522 37.697693
81.34431 39.861897 70.427216 41.42069 62.243202 54.365856 66.159584 43.203568
81.41449 37.981056 70.7678 35.058537 62.50098 50.428154 65.78198 49.757664
81.45706 39.29499 71.102036 28.648802 62.69292 46.087906 65.87027 51.876205
81.40892 46.23326 71.38382 27.756796 63.017525 42.411648 66.280334 51.637596
81.27309 54.29533 71.11788 32.711716 63.233856 38.775448 66.43933 48.833553
81.1895 60.381172 71.06138 37.41097 63.305294 38.91887 66.53556 47.911335
81.33294 59.393288 71.1542 39.351955 63.2578 40.196228 66.75842 40.67011
81.51664 54.95617 71.171364 39.78681 63.436245 39.14708 66.89134 38.92836
81.69903 51.299763 71.24732 40.15095 63.64725 37.64677 66.8036 39.035934

81.95343	47.8521	71.24493	40.51304	63.74784	36.61109	67.091576	40.49438
82.18498	46.21475	71.37124	38.86484	63.96843	35.587856	67.3378	37.879173
82.20286	46.95754	71.6357	38.145706	63.86762	36.634453	67.36839	39.204327
82.10371	47.740887	71.591255	40.048714	64.07338	36.80138	67.42834	39.650055
82.331245	48.912716	71.679855	39.59743	64.12581	38.943	67.46835	40.41243
82.461716	51.700874	71.91064	37.801212	64.25022	37.675182	67.808945	35.248657
82.49613	53.46113	72.12429	35.480675	64.45332	33.773243	67.80335	31.772148
82.282104	58.85591	72.34073	33.84109	64.623436	33.277863	68.2186	29.41599
82.33089	64.78577	72.41198	33.620476	64.76484	34.072918	68.12061	34.315655
82.440056	65.72214	72.6008	33.7275	64.97757	30.29151	67.9993	39.3537
82.44671	65.52173	72.73906	31.055807	65.04898	27.36848	67.87495	46.444565
82.74783	61.66595	72.994705	28.742342	65.27906	27.29677	67.665115	51.893772
82.92423	61.03102	73.17016	25.750154	65.39932	29.43646	67.67792	53.192055
82.86826	62.735226	73.305885	23.167826	65.323845	30.097214	68.059906	47.347702
83.03811	61.522606	73.56261	20.803488	65.27821	35.462883	68.32893	40.965054
82.931526	66.64639	73.50927	24.0452	65.09795	43.529545	68.75506	35.47986
82.931984	68.00516	73.324486	30.901073	64.93306	47.914494	68.823654	34.264355
83.19056	64.70931	73.04876	37.355812	65.13352	47.97759	68.92202	31.596132
83.17359	63.295547	73.188385	40.245327	65.17375	47.344616	69.16593	27.92888
83.39962	63.019707	73.209236	42.615932	65.402824	45.647263	69.4228	29.198658
83.49969	65.4013	73.14007	44.392567	65.70384	40.29721	69.64032	27.163216
83.581184	66.84219	73.35329	41.5874	65.949486	36.772636	69.65496	28.96721
83.68105	68.55187	73.726654	38.264954	66.0275	38.766705	69.51751	38.132725
83.65353	72.061356	73.856026	38.8429	65.93581	41.007427	69.21493	44.3997
83.72315	69.47076	73.76784	39.06608	66.03531	43.05964	69.44393	46.505398
83.91773	68.59543	73.99204	36.561245	65.88041	46.372765	69.23154	48.667236
84.0148	70.23025	74.09636	35.55219	65.92564	49.640446	69.381516	50.058025
83.9318	74.28151	74.24877	34.967304	65.95962	50.34345	69.248116	56.01883
84.09233	72.32051	74.48437	34.16468	66.139084	47.96358	69.39588	59.998665
84.15665	72.906456	74.59549	31.041925	66.39702	45.916626	69.05187	62.462307
84.232704	74.966324	74.803825	30.613682	66.540115	45.131237	68.94334	67.39754
84.324196	74.97994	74.774185	32.344154	66.60406	44.868866	69.23965	63.56109
84.49188	76.90247	74.93944	33.011898	66.66758	44.61684	69.57341	56.91972
84.40231	81.803734	74.92918	34.63171	66.83593	43.336605	70.10927	48.98626
84.41002	82.97454	74.74037	40.392483	67.01579	41.069504	70.385925	46.29943
84.64816	83.78845	74.45092	46.719	67.166794	36.907093	70.34017	45.708374
84.68552	80.956375	74.48663	50.46236	67.63108	31.112345	70.45186	40.678383
84.78117	85.38835	74.54345	52.124004	67.86378	27.43174	70.3496	44.865005
84.797646	84.76503	74.57631	53.803173	67.796486	29.904076	70.71791	48.120537
84.87679	85.830635	74.62398	53.877872	67.67018	37.11886	70.86936	49.467033
84.89871	90.394424	74.840256	50.664032	67.451035	45.429977	70.54341	55.313717
85.10994	89.35372	75.151505	47.191853	67.35732	51.614864	70.39079	58.48706
85.10338	83.93419	75.21048	45.25816	67.305336	55.24656	70.38126	60.174225
85.40567	83.65481	75.41983	45.472996	67.19599	56.61841	70.80791	54.392803
85.45417	84.42619	75.46262	44.55032	67.386475	56.453148	71.31939	43.825768
85.463425	85.16813	75.71355	44.750362	67.58977	55.380394	71.7338	38.971676
85.52086	83.451546	75.65983	48.02683	67.76847	54.91393	72.003136	26.4136
85.592834	89.32097	75.501884	52.27883	67.88437	51.020355	72.50499	16.975952
85.490425	95.48219	75.48642	55.095985	68.18756	46.08955	72.240524	18.456638
85.556366	94.35573	75.45331	57.65585	68.77544	38.808002	72.18133	29.76129
85.7025	92.75843	75.569405	59.391838	69.050735	32.55295	72.204216	35.242336

85.8221	93.403755	75.67226	58.5048	69.26283	29.614807	72.26679	38.972706
85.86551	97.059395	76.06999	53.04661	69.18288	31.568703	72.78158	42.32232
85.95116	96.60634	76.319016	45.354897	69.026054	38.23451	72.138695	44.214226
85.973465	98.46277	76.84817	38.77221	68.8045	46.482334	72.33365	43.976475
85.9719	105.46288	77.26786	32.20198	68.92601	50.597126	72.35383	43.93196
85.94051	110.16758	77.467316	27.634613	68.92169	50.702564	72.4375	47.590805
86.109764	106.19082	77.72958	24.752707	69.13494	47.03068	72.18587	55.97451
86.43163	101.00836	77.930336	22.810926	69.2592	43.994267	72.3257	55.987617
86.67824	95.51654	78.01856	22.399475	69.43526	40.86988	72.44293	51.912975
86.769646	94.30359	78.08235	24.588657	69.56968	42.191074	72.88883	46.956
86.721756	95.38394	78.09696	27.185553	69.49359	44.995033	73.047905	37.702644
86.78396	100.93508	77.83349	31.256186	69.6729	45.575035	73.6921	25.11958
86.736244	107.94302	77.84392	35.635704	69.700096	45.738377	74.468925	17.250843
86.71935	111.91899	77.69669	40.33503	70.09185	40.888004	74.421844	16.980022
86.92407	109.98042	77.703224	41.48711	70.29489	40.06043	73.97263	23.437891
86.98545	107.70201	77.8368	40.917244	70.20923	42.74248	73.72609	30.828228
87.18993	104.26773	77.99171	40.46791	70.212746	45.25146	73.783844	36.945972
87.35755	102.72656	77.97393	41.484222	70.13858	49.89744	73.96866	38.974194
87.30558	106.56723	78.21506	41.689907	70.01624	53.242523	74.17366	34.51068
87.199684	113.08389	78.12734	43.781986	70.07639	55.55071	74.44817	30.486637
87.34101	117.19896	78.01901	47.147743	70.100555	57.205208	74.63807	30.400501
87.21338	118.87001	78.20104	49.14958	70.19339	53.992096	74.46599	34.718235
87.30527	116.67587	78.27611	48.73212	70.49672	52.602695	73.96857	46.54551
87.505104	116.20367	78.36542	48.264614	70.45725	51.916943	73.93616	52.562294
87.80404	113.61737	78.446915	46.007877	70.69566	52.347176	74.28468	50.804443
87.86344	110.91477	78.99124	40.545963	70.74242	52.738293	74.400894	50.68483
88.0299	109.92495	79.18312	36.620647	70.819565	54.28114	74.5861	52.421288
88.21314	111.31054	79.406845	35.204483	70.8344	54.624393	74.43255	51.69802
88.16589	110.80998	79.61999	35.691925	71.016335	54.3122	74.75225	44.077164
88.424644	109.20149	79.479324	37.58536	71.26961	55.32968	75.15194	40.50542
88.57957	105.07877	79.500725	40.802593	71.30303	53.684998	74.998436	44.54575
88.74889	103.47316	79.37744	46.640553	71.29378	52.49432	74.9565	47.20472
88.9659	100.02084	79.13872	51.555492	71.600655	49.12918	75.154305	44.07816
88.994865	100.47322	79.26994	52.55957	71.76444	45.832394	74.98663	49.10441
89.070694	98.61116	79.10367	54.211494	72.02021	42.53277	75.586296	47.667244
89.18009	98.773445	79.40608	52.097443	72.28146	36.976227	75.883736	39.592255
89.40917	98.967155	79.59432	49.749737	72.55024	32.892197	75.74549	37.84952
89.440994	99.27711	79.7661	48.94545	72.82162	29.56636	76.17921	33.538506
89.48615	97.887184	80.13273	45.8033	73.20414	25.76948	76.10853	32.012966
89.66773	96.23076	80.43422	40.976753	73.29729	24.437967	76.23787	37.38606
89.82029	94.889435	80.64037	37.526115	73.41176	25.06312	76.01909	43.66358
89.93208	95.36524	80.7847	36.074673	73.232315	30.50955	75.84018	47.625195
90.057396	95.3383	80.75876	37.085327	73.06652	37.2779	76.03002	46.139004
90.019485	100.29005	80.75903	40.31781	72.821396	44.45152	76.15168	42.773056
89.90539	105.87862	80.65832	44.92046	72.70814	49.697098	76.44741	45.96122
89.971504	112.70056	80.56807	49.75189	72.85127	48.44419	76.537704	39.33001
89.93168	119.46169	80.62793	50.29219	73.311386	43.223644	76.85934	35.295197
89.76731	122.43658	80.78825	47.53188	73.394	38.37116	76.7289	35.56124
89.82586	121.91639	81.050545	45.810684	73.84945	32.436577	76.84709	40.98818
89.948364	120.93762	80.99653	44.44931	74.139595	28.413414	76.94263	43.17011
90.23513	119.6889	81.30338	44.25368	74.269104	26.548746	77.190575	44.987514

90.24706	120.28685	81.316956	46.020504	74.34876	29.091597	77.2821	43.645844
90.31178	118.15688	81.55771	43.964645	74.23379	31.662252	77.40825	40.144756
90.58346	114.51179	81.67068	42.95532	74.45464	33.94402	77.611206	38.545845
90.822784	113.50044	81.66485	44.19777	74.40637	34.529163	77.77681	36.104584
90.97388	112.39534	81.66365	46.63084	74.404884	38.821503	77.852196	36.0869
91.04309	110.4655	81.71043	47.824654	74.349754	41.46321	77.68928	43.77406
91.10603	112.24715	81.73667	50.269653	74.39998	43.66435	77.43277	48.93994
91.22725	110.67213	81.82258	52.31175	74.450386	44.20498	77.397255	53.36865
91.1231	114.88715	81.81502	52.04239	74.515366	44.267273	77.64491	53.232933
91.08457	121.87453	81.88057	51.066933	74.725624	41.49053	78.02468	51.099346
91.30478	124.37309	81.951614	53.09549	74.92758	40.928284	77.71665	55.28708
91.23708	129.72025	82.02194	54.77559	74.99285	41.45567	77.83078	60.27508
91.158	134.08745	82.14568	54.34755	74.79305	45.39357	77.76973	61.825268
91.26553	133.9934	82.28748	51.240765	74.88273	46.863873	77.96297	58.835785
91.43439	133.9623	82.50366	50.107014	75.08951	45.827904	78.410515	46.5414
91.49232	131.26364	82.70265	47.820145	75.16785	44.263706	79.02771	35.608734
91.54979	131.79036	82.850464	46.424477	75.403114	40.99807	79.24964	30.357428
91.55508	132.95767	82.82095	48.984985	75.90125	36.737362	79.548195	27.855427
91.771736	132.71777	82.74383	51.802933	75.90346	35.383354	79.53748	31.540121
91.83023	133.19745	82.80719	54.55393	76.00467	35.154873	78.8827	46.963245
91.99031	131.07288	82.71423	59.97354	76.163925	35.041233	78.57002	58.01757
92.16379	126.3857	82.69814	64.08041	76.18086	34.155304	78.504486	59.42187
92.3711	126.62851	82.65711	67.508934	76.41634	34.068172	79.05696	56.31546
92.41554	129.60922	82.53414	69.46571	76.445175	38.086403	79.37676	49.532314
92.35341	133.88562	82.770744	69.52514	76.249466	40.62424	79.70359	43.940117
92.3707	138.62433	82.86586	68.09694	76.41855	40.509533	80.03447	37.38556
92.21746	144.09354	83.016624	65.2796	76.40723	41.258564	80.019455	36.434174
92.234406	148.66452	83.11783	63.347298	76.57025	39.99181	79.91297	39.906116
92.20583	151.52571	83.336	64.07878	76.75551	35.5815	79.823906	46.219852
92.09969	153.20955	83.306114	65.12244	77.04108	32.853527	79.76907	50.947372
92.31712	154.90158	83.3619	66.615	77.26257	30.869331	79.7844	60.01808
92.44211	153.96678	83.51365	65.87867	77.16971	35.14434	79.54058	62.56163
92.401436	154.68814	83.71717	64.39963	77.07349	41.034946	80.112854	60.824234
92.609924	154.3878	83.829956	62.561226	77.02241	46.300354	79.961945	61.984398
92.87528	151.38583	83.95376	62.631588	76.65298	54.73903	79.93785	60.463924
92.940025	150.08061	84.0345	62.71949	76.58482	57.23229	80.530785	51.65999
92.979355	150.7431	84.26579	62.45798	76.96017	53.488567	80.503006	51.651947
93.09845	152.03503	84.42691	62.892227	77.27287	47.61954	80.35272	55.035538
93.22989	151.86247	84.33767	65.04523	77.7151	40.946953	80.45659	58.929855
93.28516	152.83357	84.27426	68.13214	77.79643	38.487312	80.52001	59.55163
93.07547	159.39752	84.10949	73.316536	77.94298	39.867844	80.390045	58.681927
93.23611	164.79462	84.19096	76.5951	77.82637	43.778538	80.782875	62.884274
93.32386	166.26553	84.11482	79.666565	77.73189	48.09313	80.50845	62.420727
93.34016	164.5141	84.2009	80.184326	77.966385	45.196495	80.706406	55.365685
93.58453	162.16785	84.42257	77.21161	78.22787	40.57912	81.04821	52.68804
93.75596	160.8011	84.406204	75.39947	78.54036	36.13229	81.37535	51.851917
93.8568	161.46759	84.46522	77.64587	78.68346	35.469254	81.779045	49.561825
93.80399	160.90195	84.33309	84.32167	78.60593	38.66386	81.70115	47.97226
93.96935	166.94589	84.13348	92.07434	78.52949	43.48213	81.878395	49.66677
93.63804	173.02783	84.16682	93.24786	78.366684	48.288486	81.52594	61.913723
93.67322	179.69547	84.35215	90.112755	78.44693	50.46119	81.39008	70.47106

93.88449	181.85258	84.796936	83.80094	78.593735	47.346123	81.275154	69.99189
93.97107	182.73169	85.04069	77.1672	78.94928	42.08053	81.63142	66.04025
93.97084	181.87173	85.408424	71.31834	79.09579	37.911415	81.91036	60.481426
94.10372	184.34508	85.7921	66.322815	79.34357	38.585064	82.1978	53.54718
94.04546	186.54875	85.849335	68.7713	79.21916	42.925365	82.65309	49.149754
94.17173	180.98975	85.698494	74.193756	79.08906	50.827454	82.840355	45.77877
94.855064	160.44887	85.71221	76.11874	79.01106	55.333702	82.614044	52.282158
95.65476	132.47958	85.75881	77.70706	78.8048	57.895947	82.37728	56.296017
96.76501	97.57128	85.742584	78.07857	78.99184	55.092213	82.63142	50.35998
97.76248	62.997913	85.92531	78.54402	79.40363	51.524544	83.19921	46.794865
98.58825	35.091385	85.952156	77.70525	79.678276	47.885838	83.30405	46.73576
99.02319	25.545557	86.23882	76.259026	79.75645	48.098072	83.20108	44.776787
98.914825	29.412691	86.16638	78.94369	79.62749	52.194016	82.926094	52.17869
98.85206	34.169163	86.21971	79.57584	79.56602	57.952374	83.13344	56.895683
98.95448	40.297195	86.398895	78.29469	79.54522	58.810596	83.10017	62.097446
98.99532	44.918938	86.59817	76.85549	79.9124	56.333298	83.03621	64.29493
98.75092	47.360435	86.737144	75.91713	80.13054	52.658184	83.63179	56.532986
99.0115	45.588757	86.74125	76.23451	80.30217	50.708885	83.743996	54.010387
99.112274	45.251335	86.803734	77.29767	80.38878	48.592434	83.33189	54.871178
99.10048	45.79198	86.83166	77.70492	80.658264	46.491207	83.792114	55.090786
99.17947	47.05298	86.92035	78.08443	80.88241	44.791943	83.62673	62.01064
99.35228	49.331886	87.11728	77.28204	81.14749	42.92034	83.856346	62.41569
99.40552	53.53602	87.320145	76.06768	81.22668	40.63522	83.868614	63.449585
99.50712	54.449085	87.46317	77.62961	81.394875	39.35878	83.96332	68.179375
99.53657	52.277534	87.24718	81.196045	81.23097	42.89172	83.800995	68.84034
99.6422	50.75034	87.272316	83.63521	80.96218	50.049156	84.274895	63.60451
99.74992	52.850517	87.41855	82.66603	80.90173	58.37701	84.398994	59.604202
99.77944	55.20009	87.44372	81.397194	80.68703	64.09618	84.38917	60.459507
99.76581	58.966663	87.66763	81.30439	80.80777	64.21249	84.379745	63.264637
99.747375	62.8632	87.66173	83.81932	81.10773	59.71621	84.63189	61.032284
99.7413	68.25328	87.68906	84.54709	81.38978	55.185223	84.39653	64.16301
99.77857	71.186615	87.70331	86.959694	81.49607	53.532463	84.630714	64.71141
99.80209	71.48402	87.793015	88.20147	81.58697	56.039623	85.03418	62.42797
99.87557	71.31049	87.86269	88.428085	81.49093	59.564373	85.394066	54.443264
100.00626	69.842094	88.03772	85.77898	81.47657	63.221268	85.25501	46.838623
100.24072	68.464	88.12359	85.49955	81.395966	66.01867	85.64234	41.675144
100.38447	68.60011	88.153244	87.892654	81.56813	63.700886	85.9163	36.826885
100.50677	69.22904	87.96419	92.52395	81.959145	58.040756	86.394646	33.700405
100.61252	70.853645	88.08631	95.2363	82.12781	55.57489	86.544106	33.144367
100.63426	70.34948	88.09398	97.518295	82.27536	54.213963	86.52864	36.13087
100.62086	71.131546	88.01932	96.520485	82.44481	53.61256	86.83699	38.940845
100.81573	69.290825	88.28256	96.21959	82.5368	52.664875	86.55469	40.95644
101.02581	67.880394	88.4341	95.930885	82.74083	52.99627	86.64746	42.380108
101.06889	68.16919	88.3779	98.12901	82.72939	52.80343	86.75403	43.95056
101.2508	65.30472	88.39692	102.22875	82.753555	54.452156	86.52636	46.57063
101.45869	60.27924	88.26339	107.28076	82.89893	56.450306	86.55557	54.945263
101.62065	58.126633	88.154655	112.06696	82.80394	59.010643	86.193405	63.27899
101.83432	53.880295	88.11688	115.6135	83.02091	59.0202	85.95168	67.160835
101.883	56.657097	88.26032	113.79704	82.9709	60.597935	86.13733	70.84613
101.74199	61.027737	88.46147	111.84631	82.93524	65.01413	86.395676	68.98843
101.6415	66.841576	88.58894	110.75481	82.83034	70.761444	86.191475	69.78361

101.69648	72.26141	88.75098	109.19981	82.70821	75.5183	86.53099	66.61403
101.79594	74.43313	88.95845	106.91147	82.56334	80.12518	86.553	62.310356
101.85278	75.53479	89.12158	104.52948	82.42408	83.64498	86.761246	67.560684
101.92601	74.7254	89.35367	101.18297	82.5816	83.57401	86.69551	71.21302
102.11459	70.430695	89.68484	98.024956	82.823715	79.429825	87.0491	64.53819
102.36655	66.472855	89.9082	96.424576	83.076515	76.202644	87.1066	66.17811
102.58461	61.60507	89.706955	97.98725	83.20587	74.10289	86.93066	66.96762
102.68463	61.06409	89.8733	100.29079	83.52675	70.278885	87.27036	68.557686
102.85511	62.33878	89.87483	103.91081	84.041595	64.19305	87.276825	68.92433
102.72002	66.44267	89.85735	106.46679	84.15965	59.4189	87.31895	73.54821
102.79245	68.32137	89.82174	108.36023	84.34635	59.46265	86.6414	86.56993
102.85045	69.05155	89.915565	107.82041	84.280174	59.307606	86.918434	88.91791
103.0532	70.292595	89.86896	106.64367	84.73832	54.134956	86.9899	88.737526
103.008	69.07827	90.07879	107.34733	84.95637	51.5237	87.274925	82.71658
103.39502	64.72531	90.25603	105.94399	85.01512	50.56008	87.812904	74.158394
103.27834	64.382385	90.39725	104.33975	85.30688	46.61984	88.34641	64.05248
103.39072	67.674286	90.47483	106.05196	85.57396	43.74938	88.442665	60.60666
103.43488	70.75148	90.399796	106.44239	85.47698	46.713577	88.36416	64.92199
103.4401	73.340385	90.64335	105.2336	85.256516	53.75133	88.22235	71.13518
103.47699	76.88164	90.80865	103.08318	84.94539	62.181976	88.44516	76.229355
103.48903	82.60164	91.068726	103.09963	84.9791	67.14222	88.03878	83.36552
103.31378	88.86048	91.07515	103.56166	84.776825	73.50213	88.123344	83.072945
103.40606	88.9822	91.25962	102.90926	84.82738	76.63953	88.40883	77.59831
103.70791	89.355865	91.254105	104.83202	85.02365	75.50486	88.602356	74.88119
103.65055	92.935936	91.12137	108.86601	85.26442	69.62123	88.77208	71.19493
103.74297	91.68454	91.25051	110.22513	85.55211	64.83586	88.73649	74.78475
103.91769	90.51158	91.265274	110.96505	85.73447	62.02983	88.83756	77.641624
103.97727	90.364914	91.27966	111.82791	85.91105	61.25972	88.875015	82.6855
104.11831	89.55427	91.30992	115.45141	86.03314	62.526714	88.51614	89.79892
104.18597	89.454735	91.450645	114.94157	85.90807	65.11045	88.97835	93.88365
104.2768	89.76868	91.425705	114.76304	85.85914	70.440025	89.251114	91.0332
104.2624	93.19466	91.6253	116.41964	85.91175	73.877365	89.156906	87.69044
104.32371	98.87383	91.851265	115.86348	85.959076	72.604294	89.53882	79.04537
104.4134	103.97849	91.94701	112.70252	86.048225	74.08177	89.60363	72.89802
104.15752	111.69619	91.87808	113.06242	85.88847	78.58007	90.24383	64.359146
104.05298	118.71236	92.03714	111.96619	86.07419	79.470215	90.42171	60.70878
104.24748	117.52198	92.201706	112.20699	85.97214	79.841484	90.120834	65.80344
104.45022	112.73447	92.4326	110.382	86.0918	80.34018	90.38128	66.125275
104.67872	108.93335	92.43978	110.46224	86.25406	81.57008	90.78621	64.07861
104.69613	104.70577	92.58471	112.59519	86.45065	80.072	90.52785	66.77738
104.90371	101.01646	92.58123	112.25821	86.72392	78.472626	90.62111	66.50496
105.06101	100.64008	92.74319	111.40279	86.74874	77.98825	90.58812	68.05415
105.08797	101.77039	92.7625	114.71983	86.82548	78.59121	90.92272	65.03163
105.24309	104.357	92.77464	116.2695	86.848366	78.03188	90.97689	69.575226
105.23895	105.01217	92.72166	118.75326	86.98474	77.41638	90.63073	74.065
105.26437	105.97747	92.78324	122.49258	87.19918	77.60448	90.87087	74.4351
105.37339	106.73863	92.74859	123.72874	87.196144	76.973274	90.63783	76.3748
105.69102	104.18499	92.775055	124.17442	87.25188	77.61704	90.53757	85.82761
105.80795	99.16849	92.79703	123.31186	87.18	80.790504	90.56346	88.69523
106.16167	94.74186	93.09046	121.62722	87.34647	82.51196	90.487755	90.684395
106.34991	90.68365	93.12835	122.25405	87.30738	81.339035	91.013664	82.76868

106.29641	95.90656	93.16308	125.24938	87.45119	81.36997	91.211815	75.98753
106.04994	105.36704	93.09223	127.42362	87.53056	82.49731	91.47928	76.65982
105.9889	112.15663	93.14177	130.52245	87.541725	83.29139	91.59207	76.362495
105.98832	116.19475	93.102844	133.10089	87.52657	84.72271	91.53729	81.08771
106.09554	115.61385	93.07748	135.42615	87.71608	87.765045	91.75037	85.35258
106.33024	109.6175	93.13185	137.24774	87.754585	91.78591	91.307785	86.00529
106.48338	103.91921	93.3503	135.92642	87.60244	94.55929	91.7235	82.23375
106.67503	100.2741	93.410614	134.37875	87.649086	92.35806	91.98467	74.40476
106.78355	104.08136	93.41899	134.43674	88.09936	87.022316	92.662415	66.14194
106.83479	107.80238	93.76716	131.38948	88.420494	81.18074	92.46863	68.58749
106.91528	109.15302	93.82456	132.09525	88.78673	74.475876	92.40851	72.63191
106.92173	112.09963	93.840614	134.90898	89.01843	70.941765	92.53325	78.98388
106.95958	114.37446	93.86949	137.81425	89.31316	68.462524	92.37196	80.17445
107.05899	114.31275	93.762115	141.29903	89.46301	66.45076	92.58085	79.79946
107.1825	113.15862	93.76444	142.93283	89.24979	70.12786	92.87823	80.4158
107.28584	112.36297	93.97651	141.67442	89.319046	74.57509	92.80062	80.49967
107.4531	112.06496	94.22665	138.40903	89.21497	77.82939	92.79609	79.79485
107.47387	112.24302	94.363716	135.23892	89.07443	82.20818	92.581924	87.89621
107.51205	111.66763	94.26063	139.31796	89.24437	84.42873	92.482635	96.47875
107.62717	115.12212	94.23391	144.40764	89.20406	87.30822	92.55224	98.59687
107.51292	119.35743	94.2209	147.44438	89.33675	86.89965	92.76076	95.99067
107.54356	124.9158	94.111855	151.5765	89.412834	86.80715	93.3244	88.34482
107.57478	129.7636	94.23467	151.4768	89.31606	89.294304	93.41361	83.98882
107.56026	130.72595	94.52242	145.27267	89.22155	93.84286	93.67435	78.976265
107.56316	132.94685	94.99718	139.85237	89.292725	97.18203	93.75473	79.64999
107.79807	135.20728	95.104256	134.66135	89.35261	98.67455	93.476654	89.667564
107.87126	134.58914	95.238686	135.54013	89.316895	98.1305	93.385025	93.8156
107.92965	134.25537	95.18192	138.99556	89.3916	96.06581	93.71743	94.50349
107.99501	131.41321	95.06538	144.78874	89.87435	92.42028	93.636925	97.75748
108.1301	132.65901	94.81738	152.21204	90.00031	89.21979	93.86477	98.776276
108.16499	134.63301	94.67109	156.08807	90.20377	87.559586	93.58194	101.92844
108.26772	131.70241	94.8194	159.721	90.43434	88.18171	93.56875	104.28621
108.39891	131.63382	94.614716	165.01762	90.32441	89.92337	93.65638	105.30304
108.46715	130.41988	94.748604	165.0755	90.40731	92.386955	93.858154	105.98248
108.69134	130.02437	94.90742	162.84976	90.33216	94.5735	93.90385	105.17352
108.91018	128.33456	95.12537	160.6809	90.40595	96.31506	93.957184	103.85481
108.99473	130.11632	95.18205	161.45517	90.22876	98.639275	94.1478	101.50483
108.9151	137.05858	95.293884	160.66968	90.39212	100.31463	94.83253	88.82804
108.8658	143.44727	95.49372	159.41019	90.46658	103.33457	94.85811	81.33368
108.90556	147.1468	95.447525	160.19208	90.39538	105.31336	95.17559	76.86272
108.8386	148.31184	95.45935	163.40996	90.52371	106.18895	95.62352	72.125275
108.91012	147.38687	95.476295	165.45341	90.78401	105.61776	95.67571	72.80286
108.98145	145.01538	95.41399	168.23422	91.03148	101.69306	95.66403	80.44133
109.34983	143.37173	95.4931	169.93715	91.1994	99.717575	95.111435	91.960526
109.44068	146.28218	95.53047	171.3775	91.166504	98.86575	95.33399	95.37994
109.33688	147.74017	95.763145	169.92314	91.38374	96.74661	95.10452	93.56901
109.4409	148.46684	95.974236	164.51118	91.384155	97.20851	95.25504	96.34504
109.54001	150.89334	96.30042	159.19714	91.46602	99.225235	95.561195	95.85728
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109.60514	150.89838	96.737236	158.65503	91.34752	105.31052	95.85646	91.21123
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109.74932 158.69765 96.42646 168.95312 91.30031 112.36466 96.19458 91.167114
109.81955 161.97545 96.297615 173.67403 91.30849 115.47091 96.07136 95.141014
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110.36822 158.26811 96.88455 167.64795 91.837875 113.9913 96.16045 98.0766
110.41372 159.29091 96.86094 173.42146 92.02902 112.50976 96.42334 98.044846
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110.5697 165.13916 96.59039 185.89647 92.12566 117.23229 96.73294 97.73447
110.48532 170.01619 96.74351 186.50883 92.01747 121.53182 97.26361 93.60006
110.32864 177.26735 96.86697 183.90549 92.05294 123.97104 97.032 91.01208
110.43653 178.16577 97.077965 181.92169 92.12213 122.51383 97.24655 93.831276
110.63261 175.36763 97.192154 181.57689 92.47948 118.85978 97.03771 98.97015
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111.03129 165.72293 97.591705 176.79582 92.75304 117.60899 96.999695 108.7991
111.2161 164.99353 97.82741 175.13655 92.80861 119.557 97.04159 112.3091
111.22434 167.79546 97.82196 176.86511 92.832886 121.32512 96.93457 115.2366
111.06786 173.8003 97.760704 179.40305 92.91604 120.82652 96.93182 113.91748
111.13348 179.27359 97.797806 182.22935 93.12939 119.51368 97.27385 108.99048
111.07798 182.3274 97.88545 184.57005 93.32449 114.74584 97.54135 102.37338
111.04759 185.30894 97.83303 186.6245 93.66642 111.58542 98.174164 99.10189
111.11622 186.27374 97.90537 187.0715 93.62663 111.61309 98.01134 98.937225
111.13283 189.80794 98.19743 183.26268 93.7428 113.96951 98.06486 101.25713
111.34184 189.11772 98.37687 181.83502 93.521164 118.7964 98.29632 99.3642
111.58815 186.75005 98.422676 183.0302 93.51255 122.07388 98.223854 100.69585
111.63225 185.53798 98.36464 185.62991 93.55745 124.40524 98.32178 99.72223
111.79573 185.1598 98.27297 189.9679 93.41428 127.43126 98.486496 101.5123
111.57632 192.09143 98.21538 192.44783 93.601616 128.75435 98.55268 101.77103
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116.32409 70.946335 102.93276 114.21868 94.78595 129.92801 99.4871 113.56489
116.28254 69.963615 103.10397 114.58832 94.93513 131.95001 99.62405 117.58861
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116.82343 64.12488 103.45505 109.5894 94.7082 142.69052 99.33542 130.44536
116.9435 62.146385 103.6847 107.0119 94.84943 139.83388 99.47874 128.6721
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117.11181 64.45777 103.66135 114.32593 95.34669 133.23315 100.15585 118.74635
117.28989 59.64009 103.50398 118.51298 95.59039 132.47278 100.20021 114.05309

117.34209 61.92228 103.55575 116.6609 95.63413 133.29303 100.57651 105.85672
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117.50097 67.74728 104.20888 114.84625 95.59683 140.69989 100.74719 108.86924
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511.7421 -0.504869 501.26193 7.2267723 493.83386 0.0822337 497.59967 -9.909792

511.76624	1.5497054	501.2193	10.885061	493.92657	1.2398281	497.69666	-5.528612
511.8759	4.7646556	501.1666	14.252644	494.07925	-0.952173	497.4599	0.4473982
511.92792	6.7271814	501.20245	14.175387	494.36243	-4.566223	497.3672	11.075293
511.851	8.259393	501.554	11.800478	494.5449	-11.74189	497.00742	15.130977
511.9851	12.605061	501.62692	10.240289	494.93668	-16.82631	497.09525	15.020818
511.77194	17.78645	501.80188	7.503582	495.13055	-17.90856	497.50525	8.617869
511.98816	17.700129	501.99786	8.108487	494.96686	-11.66362	497.8629	0.9792349
512.29193	11.922009	501.94534	9.888775	494.87766	-8.299823	497.98587	-4.105925
512.6013	5.791661	502.1081	7.85469	495.08527	-9.361206	498.7003	-12.62658
512.68024	-0.4354	502.4199	7.045499	495.39847	-12.28645	498.8848	-16.19569
513.0581	-4.537205	502.3853	6.566224	495.5199	-13.95861	498.67044	-8.649394
513.0357	-4.335402	502.59796	4.13389	495.47675	-10.7773	498.2967	-4.174025
512.9761	2.4964743	502.88434	0.8348227	495.34247	-4.77909	498.8771	-4.75306
512.9562	9.277126	503.06342	-0.854073	495.1417	0.9551106	498.9712	-8.695907
512.9529	11.003226	503.1676	2.6223702	494.9353	9.538087	499.0247	-9.737942
513.1151	10.578382	502.87268	6.8870697	494.7181	15.556646	498.85345	-6.007515
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513.3125	7.0916915	503.1187	5.6528573	495.0547	14.415855	498.9833	-0.65005
513.43744	8.077175	503.3635	4.1145377	495.39084	9.979436	498.84955	8.967135
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514.1341	-1.460488	503.52002	6.725874	496.6625	-10.3484	499.17554	14.050814
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514.3601	3.2875466	504.1514	4.8265586	497.2671	-18.74384	499.59964	8.62774
514.52155	0.8869528	504.14087	6.5615716	497.3446	-17.44938	499.6777	9.088977
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530.7441	-7.744284	519.9114	7.04252	512.4071	1.2169237	515.826	5.759779
530.885	-13.44347	520.2274	5.200532	512.50714	3.3781877	515.806	3.836387
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531.0008	-7.314064	520.523	3.331344	512.9456	-0.958599	516.7327	-8.805216
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531.27734	-7.118551	521.2065	-4.936667	513.47394	-10.2068	516.7436	-9.130816
531.4306	-8.260736	521.32294	-5.359896	513.35187	-3.213254	516.86584	-9.151443
531.5154	-5.15544	521.49255	-7.832412	513.28894	1.8702449	516.7477	-8.971128
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531.25574	1.7838016	521.38007	-1.690505	513.36646	3.282221	517.3322	-7.153138
531.4399	0.9005293	521.2748	4.6468844	513.51306	3.3613508	517.4166	-8.280993
531.6993	-1.147315	521.10333	9.515216	513.6444	0.6227493	517.4448	-3.239505
531.74896	-4.074988	521.1079	11.764614	514.00793	-5.070048	516.76666	1.3911936
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532.1591	-4.192903	521.41437	8.145991	514.51685	-9.239038	517.7262	1.2190205
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532.39886	-1.153676	521.92993	1.849681	514.5252	-6.49284	517.7043	6.3619933
532.57605	-6.573227	522.1069	0.811586	514.49567	-2.93754	517.7038	4.9744782
532.53784	-3.210567	522.3082	0.542108	514.51154	-2.736401	517.8349	6.6490917
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537.81476	-6.995011	527.5076	2.0737162	519.3699	7.852679	522.9105	5.312725
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548.6912	5.8601446	538.7403	0.6464655	530.8721	2.9908226	534.50885	-2.903396
548.83466	4.7262692	538.62195	4.242319	531.1079	-0.173103	534.23773	-0.101814
548.9367	0.8657379	538.4643	9.04531	531.2241	-3.252485	534.7121	-0.026241
549.1253	-0.366698	538.5822	11.297069	531.5827	-7.642191	534.32294	0.9880716
549.1547	2.4937723	538.7079	11.240707	531.67883	-7.396342	534.7844	-2.754084
549.29877	3.2209227	538.97345	7.481832	531.625	-5.252988	534.97687	-1.797094
549.43616	3.2265615	539.2641	2.2626483	531.6526	-2.854214	534.5921	5.5327644
549.4851	2.0200822	539.30505	1.8252387	531.8215	-6.630824	534.3794	17.233055
549.73663	-2.652321	539.4317	2.325081	532.16437	-11.22643	534.34644	20.185284
549.9051	-5.549967	539.36566	6.273677	532.3734	-11.37836	534.5771	21.119263
550.0104	-6.333017	539.2406	11.157722	532.41003	-9.316381	534.65094	16.944231
550.0891	-6.206536	539.26935	13.071464	532.47174	-11.06503	534.6722	21.632887
550.0893	-4.708136	539.3692	12.004633	532.5536	-10.58624	534.8452	22.611115
550.2174	-3.293344	539.67267	7.9017806	532.5564	-8.409806	535.2382	17.840895
550.46844	-3.421254	540.1877	0.2014673	532.53595	-7.555296	535.0062	13.861934
550.46967	-5.568488	540.4584	-6.741787	532.8322	-10.30458	535.41144	8.441838
550.6783	-7.291548	540.89294	-13.89816	533.07715	-12.63383	535.9185	-2.271467
550.703	-5.070007	541.1221	-16.68195	532.8993	-8.166578	536.2759	-5.416365
550.68036	-4.488917	541.03577	-14.4878	532.6545	-2.540241	536.6127	-9.064824
550.8336	-3.198034	541.12616	-9.694068	532.8501	-2.951653	536.15076	1.4163123
550.8544	1.0367728	540.9393	-4.393807	533.1079	-5.235438	536.35077	1.8703346
550.8025	3.4145103	540.61945	5.1163716	533.1799	-4.631084	536.3379	3.0965602
551.1237	1.4553934	540.4458	11.780213	533.17456	-4.50304	536.3204	1.0997185
551.2756	-5.568739	540.53015	15.018403	533.4079	-3.592315	536.7166	-3.771457
551.5023	-10.44784	540.5099	14.846995	533.569	-5.756114	537.0352	-8.836697
551.7143	-12.01771	540.7583	11.814505	533.58923	-3.301328	537.1223	-8.644375
551.6679	-8.388838	540.8327	10.469794	533.54407	-3.613856	537.26874	-7.146906
551.4843	-0.849244	540.9279	9.725681	533.97546	-7.421759	536.82196	-1.603124
551.3682	6.6474924	541.32135	5.699256	534.21423	-11.72232	537.31555	-5.466122
551.2705	10.385513	541.4951	4.0431843	534.3684	-14.54579	537.379	-2.604506
551.56116	9.858652	541.5979	2.1055658	534.6265	-16.60199	537.3826	0.3716923
551.77185	7.6424007	541.8001	1.5990802	534.5433	-13.97392	537.5203	-1.794227
551.87134	6.4854355	541.8435	0.9062976	534.633	-12.62753	537.52875	2.1575475
552.1115	1.0133624	542.07996	-0.773054	534.7831	-11.68798	537.57263	3.3647797
552.2615	0.5949485	542.05725	0.630925	535.05457	-16.78835	537.4831	3.5269105
552.1968	0.0240419	541.9623	3.0297577	535.1564	-18.56586	537.79517	0.8986119
552.408	0.8134998	542.175	2.77698	535.2785	-16.35495	537.76886	-3.358403
552.6036	-0.82903	542.2335	2.322218	535.14374	-12.00071	538.2045	-2.401173

552.8676	-5.922319	542.28217	4.6125917	535.219	-10.0608	538.4308	-3.018006
553.1086	-11.10542	542.1891	8.45819	535.0047	-6.474956	538.5655	-6.492781
553.2197	-10.88025	542.26294	9.613904	534.98425	-2.197164	538.01025	0.6184844
553.3073	-9.077089	542.3927	7.810229	534.956	-1.862371	538.2167	4.2417865
553.2381	-6.777193	542.77466	5.175156	535.4593	-5.537886	538.1197	11.072933
553.1758	-1.8141174	542.9857	2.1954408	535.63983	-7.705356	538.3497	9.505512
553.1626	5.0332136	543.3704	-1.579188	535.67224	-7.319706	538.57776	3.790207
553.16943	7.1979914	543.3753	-1.913345	535.7711	-5.24606	538.7597	0.8577106
553.315	4.384076	543.2262	3.1358588	535.93365	-8.629946	538.96704	-4.795377
553.5081	1.3356278	543.15485	6.5399485	536.1267	-12.75782	539.1369	-10.16767
553.67615	0.6918582	543.17505	5.7174134	536.4028	-15.48558	539.539	-10.44878
553.7267	1.1105708	543.28033	5.185176	536.693	-16.9113	539.42206	-8.903966
553.947	-3.293619	543.6234	2.1727586	536.6911	-17.3376	539.5077	-4.465125
554.1345	-8.511392	543.85297	-0.070412	536.87274	-17.88	539.4534	-2.277701
554.30804	-11.14328	543.9826	-0.242481	536.68964	-12.4616	539.52374	-0.74147
554.2743	-9.5473	543.8346	3.3965652	536.42285	-5.470132	539.6131	1.3451315
554.5683	-9.610399	543.84143	6.4209013	536.36865	-2.961571	539.33704	7.098635
554.6034	-10.11839	543.90765	5.6234436	536.6651	-4.655411	539.22156	10.280626
554.6625	-9.652268	544.1316	4.67086	536.74695	-8.07244	539.2259	12.111641
554.8383	-10.23274	544.3488	2.409353	537.04474	-8.854157	539.7275	5.766036
554.91296	-8.437683	544.6249	-1.808466	536.95374	-6.630361	540.2988	-2.111568
554.8886	-6.468053	544.8268	-2.313942	537.10626	-5.51793	540.3748	-3.266064
554.92346	-0.65575	544.9767	-3.808858	537.1214	-5.176886	540.5987	-9.136742
554.8585	5.6365066	545.0688	-3.065521	537.11005	-5.138801	541.2068	-14.18935
555.0346	6.4312277	545.0005	-2.084297	537.3809	-6.439585	541.01025	-12.22478
555.065	2.3066936	544.92303	0.1063585	537.5887	-9.394791	540.9629	-15.56875
555.3648	-1.998673	544.9986	0.5042798	537.7209	-9.436228	541.511	-18.82437
555.509	-8.998099	545.38574	-1.529158	537.72595	-7.554266	541.5655	-17.09551
555.8254	-7.945616	545.4173	-0.727247	537.67847	-4.505206	541.4064	-11.48404
555.7599	-5.605395	545.321	1.5635046	537.69586	-1.146855	541.2502	-5.120447
555.6309	-2.551135	545.4768	1.1182773	537.7626	-0.770164	541.1224	-2.129355
555.80707	-0.622134	545.42944	3.7804732	537.7933	0.6029426	541.46436	-0.046792
555.9336	-0.153539	545.5508	4.2090178	537.7242	2.8842409	541.23004	3.6116986
555.8734	-0.069262	545.70074	0.2493786	537.8279	4.718293	541.3138	0.2612884
556.07574	-2.795105	546.12714	-3.646315	537.76624	7.996179	541.7042	-1.070414
556.30505	-5.069967	546.3696	-8.480817	537.782	10.800593	541.7562	0.1741237
556.25116	-2.799434	546.65234	-10.7539	537.94995	7.4012513	541.52216	-2.620198
556.31573	0.7860939	546.7974	-13.19025	538.2314	5.247996	542.26385	-6.63412
556.4657	1.1947994	546.88306	-12.41257	538.2633	3.5234032	542.50653	-6.058856
556.5018	2.3832986	546.8223	-9.137232	538.612	0.7930913	542.3142	-7.301538
556.4787	4.9074144	546.8735	-8.762188	538.7143	-2.296566	542.33826	-7.741597
556.6234	2.9518194	546.906	-6.820765	538.9944	-4.069702	542.1741	-5.903504
556.9251	-1.923128	546.77637	-0.72757	539.10596	-3.955145	542.3092	0.6969572
557.04956	-6.586454	546.64307	2.516755	539.2875	-4.968881	542.5346	4.3118105
557.35535	-11.98697	546.68524	5.5089602	539.46985	-10.014	542.4367	6.1256633
557.35925	-8.024109	546.815	3.6464937	539.80444	-14.2953	542.40125	7.7477946
557.4695	-7.162513	547.10236	2.1854541	540.15466	-19.07492	542.45624	11.145214
557.4907	-4.584656	547.185	-1.201961	540.5182	-25.00772	542.8053	8.250571
557.4966	-1.565649	547.51965	-3.221978	540.6465	-28.14409	542.87787	3.8332038
557.5909	-4.804257	547.4592	-0.901697	540.69696	-26.65927	543.0478	2.941634
557.8628	-7.642685	547.26904	5.0894384	540.648	-19.43994	542.6427	5.2756577

558.0048	-7.811734	547.1057	11.152108	540.24646	-9.273132	543.0807	5.3216743
558.1592	-11.45626	547.0131	16.401804	539.9731	-2.591954	543.69574	-2.743822
557.98785	-7.710679	547.1094	15.718145	540.2792	-2.516048	543.6912	-5.412104
558.2246	-5.796491	547.38043	12.108872	540.5313	-8.910312	543.7001	-2.312574
558.26544	-6.473764	547.83704	3.8657506	540.8426	-15.81012	543.7755	-4.014921
558.344	-1.900377	548.2213	-2.028827	541.16156	-21.83445	543.9774	-6.981851
558.45	1.4420077	548.4541	-5.974678	541.4879	-24.61299	544.0275	-11.00709
558.44006	1.9560192	548.31555	-2.526201	541.35126	-19.85652	544.3823	-10.14971
558.52795	-0.997734	548.24994	2.8498793	541.1375	-11.20651	544.246	-9.147518
558.82007	-8.574122	548.0188	9.168737	540.9473	-4.31974	544.5784	-10.14079
559.109	-15.43539	548.02905	12.308433	540.7058	1.46619	544.45996	-7.150609
559.34216	-20.5117	547.9771	17.340612	540.7259	4.4032907	544.5242	-4.031289
559.5602	-21.07914	548.0041	19.602324	540.8229	4.627777	544.7756	-2.31531
559.34143	-14.63745	548.0798	18.588444	540.9424	3.2408805	544.65906	-4.989775
559.1448	-3.67876	548.31836	15.252553	541.1603	1.1059419	544.8774	-7.89002
559.12146	4.925687	548.4596	13.821506	541.33887	-0.185657	545.24896	-14.54305
559.1148	9.932969	548.68524	11.277244	541.6369	-4.045714	545.51355	-18.55076
559.02185	10.663538	548.9697	8.141865	541.6551	-4.962566	545.2473	-15.6167
559.25287	10.010966	549.0805	5.3556194	541.8261	-5.363633	545.4017	-10.15331
559.22205	13.462846	549.0994	7.6037517	542.04877	-7.142878	545.27606	-2.463226
559.32007	16.788622	549.38666	8.883406	542.0741	-7.877631	545.01746	3.0484097
559.4992	14.588964	549.2925	9.629964	542.04266	-4.508988	544.967	3.9997563
559.56836	12.110358	549.3993	10.363316	541.99023	-0.044749	545.2544	2.9506996
559.7937	8.0167675	549.4326	11.287722	542.03534	5.943036	545.9712	-5.921705
559.98016	3.6643631	549.5719	10.23418	541.9689	7.2109666	546.14325	-10.79838
560.2338	-2.010083	549.84045	7.040454	541.948	9.021045	545.9728	-6.530893
560.501	-5.205878	550.0051	5.098071	542.35565	2.7171307	545.8296	1.6868858
560.58185	-2.925872	550.2111	4.280882	542.7132	-6.492598	545.6926	6.0740156
560.5875	-0.120877	550.1726	4.495372	543.19354	-14.92041	545.6143	4.776768
560.58765	1.2495952	550.48517	4.591449	543.4673	-18.07085	546.0006	2.7293472
560.7924	1.820416	550.56696	0.5845038	543.42377	-15.70722	546.27673	-0.784377
560.9315	0.4380413	550.893	-5.388706	543.43	-11.01975	546.7418	-4.915125
560.93555	0.9756411	551.29877	-11.82759	543.3366	-5.904114	546.611	-8.281339
561.0322	2.986234	551.4968	-14.12438	543.05945	0.1636564	546.81323	-7.055203
560.8646	5.6692057	551.63464	-13.29596	543.0647	1.0966136	546.7929	-6.447103
561.0036	4.6615205	551.48584	-9.222538	543.354	-0.895094	546.9867	-11.69432
561.3664	4.0120993	551.31976	-1.436215	543.5892	-6.524404	547.3602	-11.39708
561.3674	3.5099273	551.0826	5.9583335	543.88544	-8.803099	547.40204	-10.408
561.5307	1.4944475	550.9425	11.04544	543.75336	-5.69091	547.42505	-12.49869
561.69684	-2.415007	550.83374	15.640312	543.7916	-2.258835	547.7459	-11.46697
561.84247	-5.868941	550.78	19.775753	543.9291	0.8770216	547.3546	-6.744815
561.9865	-5.004811	550.5631	24.243198	543.7027	4.046524	547.48566	-2.263372
562.0734	-3.629773	550.8695	21.459625	543.9348	3.3369715	547.47034	1.5582683
562.1202	-3.937667	551.4509	12.853202	544.2501	-1.300393	547.1968	0.509137
562.11957	-1.539949	551.944	3.5504255	544.4308	-9.494991	547.6421	0.3339039
562.07086	1.171662	552.3458	-2.855792	544.8836	-14.181184	547.61224	1.2294723
562.23975	2.2303233	552.3591	-5.898289	544.999	-13.81256	547.9412	-3.5876
562.3958	2.312501	552.5289	-3.949627	544.9745	-12.50733	548.0904	-4.414832
562.5463	-0.095133	552.33527	0.8174902	545.17334	-12.52148	547.88727	0.8331001
562.88324	-3.558747	552.1596	6.5014844	545.1807	-10.8133	547.71295	8.58255
562.9717	-5.48317	552.1431	8.924737	545.2476	-10.20851	547.7907	9.8949795

562.8773	-2.011838	552.25366	8.216482	545.3293	-10.54797	547.93445	6.146853
562.7912	3.1641033	552.4753	5.963012	545.60266	-10.84956	548.6826	-5.067576
562.70056	9.250773	552.7419	4.756795	545.4812	-8.709876	548.65247	-7.247052
562.7277	15.172013	552.8992	2.1500163	545.26666	-5.240295	548.9453	-12.38117
562.91406	12.132335	553.1205	-0.121177	545.5821	-5.268796	549.08417	-10.09621
563.199	3.4708762	553.24274	-0.405976	545.8873	-11.19344	548.7466	-0.537272
563.73486	-6.066658	553.20575	2.1595433	546.24524	-17.22417	548.59	6.677807
563.6922	-7.066908	552.96246	7.422931	546.54236	-21.17875	548.8111	3.695432
563.7771	-3.330077	552.9343	12.467216	546.64655	-22.6636	549.49774	-0.909729
563.6113	3.7176156	553.0278	13.898735	546.61755	-18.99928	549.5452	-7.660252
563.6267	10.994527	553.1742	14.002911	546.44116	-12.09343	549.8048	-11.23537
563.6438	10.261175	553.4882	11.127985	546.1691	-2.372653	549.91815	-12.10853
563.99664	2.9874952	553.6039	6.51046	545.97614	3.164802	549.88837	-7.57292
564.07465	-2.095304	553.9029	2.9284968	546.0064	5.6157594	550.03796	-10.93665
564.58704	-8.14568	554.1549	1.5312005	545.9642	7.3588333	550.27155	-13.73418
564.6995	-10.80082	554.1536	1.6432298	546.0051	8.718658	550.20435	-11.43894
564.7711	-11.63452	554.1849	-0.346926	546.1741	7.779017	550.1226	-6.747783
564.731	-8.019696	554.5764	-2.007345	546.4553	3.0286467	550.3536	-7.501591
564.8019	-4.800616	554.65137	-1.402093	546.7322	-2.435749	550.359	-11.87124
565.0309	-5.736899	554.5076	2.030754	546.95	-4.924361	550.7011	-14.8374
564.9347	-1.773452	554.5023	7.461983	547.1866	-7.043797	550.875	-17.80715
564.69666	10.463803	554.26025	12.954014	547.21735	-4.723378	551.6137	-30.98113
564.6744	15.108241	554.0787	17.58117	547.2757	-2.137671	551.4244	-31.19203
564.7464	15.532572	554.2131	19.370275	547.2614	-1.666967	551.59326	-27.28468
565.06177	11.187648	554.1303	18.61132	547.60895	-6.620728	551.21826	-17.72611
565.3655	6.15056	554.4773	17.63624	547.90967	-13.96945	551.1329	-11.80185
565.4076	3.7315142	554.7017	14.767472	548.1265	-17.37923	551.3565	-5.89097
565.6026	0.4682419	554.7513	12.357041	548.13586	-15.24576	550.94617	2.203993
565.8872	-7.821343	554.8989	11.938925	548.29266	-14.2329	550.70325	8.083762
565.9404	-7.287767	555.10803	10.716692	548.2047	-10.31614	550.6016	8.608467
565.9149	-4.205649	555.2493	8.810186	548.345	-8.898425	551.0209	9.774763
565.98816	1.2440592	555.60236	6.092518	548.4583	-9.662649	551.09174	8.492279
565.85376	4.4526587	555.72363	4.36626	548.6019	-11.7551	551.11304	11.217601
565.84143	7.755704	555.88043	3.9003496	548.4998	-8.904921	551.47125	8.608979
565.80145	11.816352	556.012	1.3617952	548.4215	-1.439985	551.55585	-4.019102
565.9981	12.736206	556.22485	0.6065036	548.28436	3.6828482	552.21014	-10.7378
566.2894	4.5217905	556.1691	2.8509183	548.4211	2.4646685	552.4724	-17.47714
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586.43854	-0.283795	576.4595	-3.865421	568.4951	-0.126667	572.0232	4.1824017
586.55206	0.9090086	576.79315	-9.293839	568.36444	4.4830413	571.6867	2.7752721

B42 after 12	after 12	B42 after 12	after 15	C352 after 12	52 after 20	C352 after 12	52 after 15
0.0694204	-375.762	-7.943633	-393.1053	-4.793979	-331.9527	-12.64341	-372.0626
0.0538598	-376.1012	-8.037314	-396.3055	-4.684534	-333.2726	-12.81523	-374.4708
-0.022188	-376.7384	-8.080179	-399.1863	-4.723736	-334.5103	-12.7909	-376.6408
-0.243763	-377.6736	-8.143393	-401.7477	-4.815181	-335.6658	-12.9788	-378.5726
-0.129969	-378.9067	-8.154199	-403.9895	-4.794246	-336.7393	-12.93145	-380.2662
-0.293796	-380.7023	-8.061223	-405.5225	-4.713771	-337.4348	-12.92787	-381.1194
-0.087495	-382.8673	-8.139683	-407.5057	-4.765315	-338.6123	-12.86457	-384.0014
-0.253884	-384.1521	-8.172653	-409.0336	-4.923703	-339.1582	-12.99916	-384.8402
-0.129672	-385.7593	-8.128755	-410.9287	-4.793419	-339.8834	-12.82459	-385.9574
-0.108142	-386.7242	-8.236116	-412.439	-4.770067	-340.5924	-12.62379	-388.1436
-0.2126	-386.8135	-8.232235	-413.6562	-4.76939	-340.607	-13.03645	-387.4801
-0.203727	-386.9002	-8.149982	-413.9827	-4.83848	-339.7453	-12.8868	-387.6437
-0.226582	-386.364	-8.122071	-413.7202	-5.00721	-338.8139	-13.06807	-387.7011
-0.288324	-385.8758	-8.129722	-412.2052	-4.939778	-337.5622	-13.05469	-386.0505
-0.247491	-385.0565	-8.292453	-412.2125	-5.001723	-335.8107	-12.97394	-385.0845
-0.37371	-384.277	-8.368967	-411.73178	-5.004304	-334.7114	-13.26867	-384.1519
-0.405025	-383.6678	-8.276771	-411.5622	-4.98294	-334.5495	-13.38633	-382.9815
-0.299525	-383.187	-8.316616	-411.1497	-4.858714	-334.5169	-13.21711	-382.7184
-0.365772	-382.4016	-8.225617	-410.8954	-5.013591	-333.4724	-13.11366	-381.41
-0.438164	-382.9142	-8.182536	-408.9644	-4.922067	-332.3186	-13.44767	-379.7447
-0.44631	-381.7708	-8.263656	-406.5432	-4.909926	-331.1249	-13.34128	-378.7194
-0.263099	-380.6879	-8.284789	-404.521	-4.9967	-329.6714	-13.28167	-377.0663
-0.444951	-378.886	-8.264342	-403.426	-4.979818	-327.9478	-13.42655	-376.984
-0.43952	-377.3662	-8.269777	-401.9319	-4.864711	-326.2633	-12.95446	-378.5534
-0.354853	-375.9881	-8.394425	-401.1029	-4.984979	-324.7152	-13.05876	-377.2539
-0.583781	-373.7051	-8.410418	-399.3841	-4.981941	-322.4874	-13.05307	-377.584
-0.480022	-372.0673	-8.500864	-396.935	-4.921547	-320.251	-13.07275	-377.2947
-0.448517	-370.945	-8.429754	-394.3666	-4.986676	-319.0533	-13.34876	-374.7716
-0.453983	-368.786	-8.328612	-392.1709	-5.046356	-318.3944	-13.65344	-371.7591
-0.490077	-366.9988	-8.483892	-390.7989	-4.846294	-318.5407	-13.41201	-369.9803
-0.502234	-364.4965	-8.502293	-389.5214	-4.759796	-318.3174	-13.56366	-369.5807
-0.655101	-362.0285	-8.306632	-389.491	-4.83314	-317.7805	-12.87328	-368.2153
-0.628677	-361.0007	-8.072484	-388.7787	-4.798185	-316.4513	-13.49525	-365.3292
-0.721205	-358.7413	-8.23781	-388.0446	-4.744635	-313.6461	-13.42548	-364.8123
-0.535273	-357.9179	-8.324012	-386.3493	-4.820139	-311.3966	-13.54852	-363.8607
-0.724463	-357.3935	-8.204817	-384.7448	-4.666672	-309.4951	-13.25853	-361.6378
-0.496476	-357.4642	-8.206643	-383.3111	-4.853934	-306.9197	-13.44087	-359.3629
-0.441886	-356.4213	-8.285092	-380.7162	-4.871024	-304.6747	-13.81622	-357.1315
-0.556799	-354.5011	-8.298759	-377.6986	-4.905575	-302.6805	-13.36626	-355.8852
-0.379966	-352.6728	-8.226122	-374.1285	-4.85231	-300.4963	-13.551151	-353.0854
-0.392105	-350.8296	-8.536819	-369.6031	-4.865009	-298.1401	-13.92623	-350.2685
-0.511679	-347.33	-8.352598	-365.9872	-4.923027	-295.0131	-13.85846	-348.4442
-0.565933	-344.5481	-8.485909	-363.5852	-4.898051	-292.4299	-13.59401	-346.6547
-0.4518	-341.495	-8.351938	-361.7528	-4.930135	-289.656	-13.62834	-344.5157
-0.579949	-338.6843	-8.289836	-360.0255	-4.98119	-286.4731	-13.9363	-343.2484
-0.635156	-335.6275	-8.518366	-358.7471	-5.048082	-283.5713	-13.64145	-341.0929
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-0.530583	-311.4726	-8.234414	-334.721	-4.608706	-270.5439	-14.21442	-317.4275
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-0.316736	-255.7573	-8.190805	-258.9938	-4.10215	-213.1434	-13.69533	-266.707
-0.192477	-255.3702	-8.070421	-256.2682	-3.976857	-211.4679	-13.78908	-264.9045
-0.010437	-255.7482	-8.178756	-253.3875	-3.975215	-210.6702	-13.96351	-263.7743
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0.3472005	-213.9053	-7.56656	-210.4237	-3.165251	-178.5513	-14.0766	-220.8788
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0.6652634	-198.3513	-7.447247	-186.0581	-3.033544	-156.605	-14.64217	-196.579
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0.5494219	-190.4883	-7.320313	-180.4533	-2.920426	-154.0447	-14.35875	-193.6072
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0.6274492	-176.3493	-7.454789	-165.9769	-2.76491	-141.3582	-14.39497	-179.075
0.660326	-174.9002	-7.460177	-161.328	-2.890151	-139.9087	-14.2517	-178.0894
0.6327729	-172.9906	-7.498376	-158.5666	-2.90211	-138.1907	-14.18725	-177.2643
0.6853771	-171.0884	-7.535172	-155.745	-2.623706	-137.3206	-14.13154	-176.7092
0.532638	-168.0078	-7.564623	-152.6083	-2.714322	-135.7843	-14.27872	-173.482
0.5502825	-164.4	-7.633928	-149.4089	-2.624171	-133.7678	-14.1071	-173.1667
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0.5108873	-160.091	-7.512441	-146.9159	-2.38669	-133.8876	-14.55587	-170.3338
0.5709922	-158.9628	-7.421781	-147.27	-2.246179	-134.4167	-14.2959	-169.1202
0.5849179	-158.387	-7.40627	-147.71013	-2.368161	-132.2044	-14.20205	-167.6789
0.6658345	-157.747	-7.100052	-147.4533	-2.363331	-129.5988	-14.04065	-167.7637
0.823122	-157.14	-7.064395	-145.8465	-2.205094	-127.1778	-13.93337	-168.4463
0.8475318	-156.1225	-7.110959	-143.0584	-2.21935	-124.3715	-14.00047	-167.4248
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0.8881278	-155.702	-7.167308	-134.6806	-2.293963	-119.848	-13.74732	-166.3587
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1.0108527	-147.1621	-6.98634	-130.8963	-1.982172	-117.3993	-13.83555	-159.5881
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0.8986687	-139.3716	-6.896823	-127.9164	-1.936463	-114.6357	-14.18171	-151.2398
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0.8725305	-132.6889	-6.8704	-122.3614	-1.840621	-111.91381	-13.90883	-147.8395
0.8982503	-130.8817	-6.790871	-118.6985	-1.767686	-110.7759	-13.74247	-148.6147
0.9789165	-130.3903	-6.879447	-115.0561	-1.875582	-109.9108	-13.87653	-149.3072
1.0741612	-129.5964	-7.044368	-111.026	-1.638139	-108.3589	-13.6651	-148.9262
1.0734355	-128.8119	-7.000896	-108.4267	-1.761868	-104.8594	-13.43953	-148.2433
1.070898	-126.3591	-6.953103	-106.1442	-1.717694	-101.6463	-13.60592	-146.3961
1.0598677	-123.0104	-6.97822	-105.147	-1.666006	-100.4719	-13.79398	-145.0641
0.8930385	-119.6318	-6.858017	-105.9563	-1.682313	-99.90979	-13.78435	-142.7131
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1.079429	-116.8325	-6.916024	-98.72145	-1.715638	-95.44303	-13.91625	-135.7092
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1.2789254	-116.9113	-6.942025	-92.39094	-1.628452	-92.32385	-14.05587	-129.7848
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1.1071322	-104.9516	-6.844465	-83.82359	-1.405774	-83.58377	-13.39646	-129.7853
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1.411573	-92.79238	-6.583051	-64.08069	-1.222004	-70.25663	-13.09078	-119.4914
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1.6662334	-79.06609	-6.164076	-52.82743	-0.745926	-62.18526	-13.38081	-102.101
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2.935032	-49.33567	-5.083603	-16.34502	0.8357049	-41.69837	-12.16228	-73.41628
3.152028	-48.91913	-4.969916	-12.95569	0.5733725	-33.96234	-12.171831	-73.96757
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2.9868836	-42.3598	-5.100884	-10.02198	0.6354295	-28.21905	-12.01478	-76.64903
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93.603455	34.64276	87.00082	51.79925	88.932495	103.27217	76.04078	28.788502
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93.93943	31.062527	86.79572	54.155136	89.23264	101.17941	76.380875	29.565926
94.11994	30.260225	86.82373	55.95425	89.54913	98.94045	76.477264	30.233932
94.37656	27.545856	86.94883	55.875496	89.54872	98.532845	76.45883	33.778564
94.462715	26.233614	86.84781	58.582966	89.54288	100.32472	76.130516	40.828377
94.47989	26.279148	86.85439	61.961548	89.46574	104.06979	75.68861	47.566063
94.39688	29.976639	86.87059	63.57702	89.30944	107.64399	75.89405	50.720016
94.38976	32.882114	87.19669	59.9474	89.426155	109.08787	75.97682	50.580185
94.41168	36.404194	87.4228	53.800037	89.60688	109.77473	76.169754	50.76453
94.20059	42.35332	87.92519	46.012665	89.51939	110.62133	75.66242	52.687202
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530.47125	-2.208827	523.9156	-0.793229	528.18066	12.435843	514.19727	-21.96105
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530.6716	1.8295556	524.30023	1.2033404	529.0481	-0.011813	513.61743	-5.678969
530.63477	4.450086	524.23486	2.9171896	529.212	-1.255019	513.52454	-1.530906
530.31976	10.547704	524.399	4.929278	529.2165	0.3140092	513.4106	-2.380322
530.1642	16.543644	524.47095	4.3214593	529.327	0.8525593	513.7558	-7.048381
530.0009	20.197582	524.68945	2.438948	529.3926	0.8939446	514.384	-11.62429
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530.07477	21.44976	524.98755	-3.047447	529.44257	4.609903	515.09503	-19.69615
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551.3463	-0.29286	545.06616	-3.361672	549.5843	7.11293	534.6273	-8.561525
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555.02155	-0.700105	548.71185	-2.550119	553.0411	6.9744697	538.8139	-16.98064
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556.14105	-10.17068	549.3375	-1.275819	553.32684	17.065113	539.59125	-20.56408
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556.53394	-7.848054	549.8545	-2.422851	553.91986	15.530738	539.68317	-11.55775
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556.4789	-0.861459	550.3521	-6.528215	553.97107	20.052227	539.524	-8.684309
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556.7608	-1.101267	550.5103	-4.309733	554.19037	20.529785	539.9737	-11.14538
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556.74207	2.4098797	550.72797	-3.693924	554.04004	24.813766	540.59296	-15.89554
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556.703	6.5581045	550.9525	-5.080998	554.36145	25.594753	540.8012	-18.41091
556.7123	8.814801	550.8127	-2.458657	554.50836	24.928299	540.7686	-19.25164
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566.9776	-2.907679	560.5143	-1.909309	564.952	8.1463785	550.33716	-16.14212
566.91724	0.8731557	560.57446	-0.334891	565.0673	9.411098	550.2418	-12.60332
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566.9845	3.844234	560.9279	-2.564747	565.19977	10.721707	550.0932	-6.277789
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567.0091	7.2566934	561.3793	-9.077907	565.106	13.785812	550.15454	-7.604552
567.1005	8.800535	561.5098	-8.311189	565.1722	15.069057	550.5614	-9.768171
567.0761	9.216095	561.50085	-5.205008	565.2109	17.150503	550.88464	-11.52923
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567.99133	-0.737778	561.5026	2.5200706	565.36835	22.0874	552.32623	-28.30109
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568.4627	2.0694747	562.6913	-15.841117	566.58673	7.4921727	551.86597	-14.89871
568.48193	1.0479326	562.71094	-12.16055	566.409	11.322891	552.0237	-13.60045
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568.941	-5.438756	562.7397	-6.277505	566.4885	16.48291	552.7097	-20.35949
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569.0726	-0.355545	562.89197	-4.948618	566.6829	17.086712	552.9572	-21.60378
569.2108	-0.826672	562.9233	-2.729761	566.7368	18.62875	552.9059	-19.48514
569.3552	-2.701129	562.70825	3.3467815	566.7011	20.859924	552.89233	-19.56558
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569.61005	-5.329832	562.68243	8.850261	566.80884	23.951193	553.20544	-21.04414
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569.66534	-1.394194	563.08606	6.604653	567.55853	16.125977	553.3721	-15.1614
569.7631	1.5482424	563.3283	2.7802513	567.66376	12.609868	553.4404	-14.01564
569.56195	4.1675897	563.4373	0.292905	567.9434	10.335394	553.59827	-16.63346
569.67737	4.9446244	563.66077	-2.9499	568.03906	8.896175	553.72107	-18.65151
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571.8431 0.7371274 565.85187 -7.870223 569.617 13.841496 555.93005 -22.65577
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C352 after 150 (°C) treatment	52 after 150 (°C) treatment

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360.03824	433.20044	520.28448	415.77057	410.91632	693.07745	311.9736	353.63556
376.44669	379.53915	486.59296	394.83038	430.24515	614.80872	366.39865	505.01874
400.50171	455.7215	538.12982	357.7478	345.25653	771.36035	423.5405	396.37366
383.44263	424.78558	242.74739	370.57782	384.78485	554.20721	413.41928	423.8244
290.73615	463.91135	525.65894	310.73151	379.79791	628.24359	355.99127	436.68546
357.47687	382.23697	579.38013	365.52515	448.8436	523.23273	366.17557	433.79022
322.00009	447.43796	583.96973	459.09708	430.06183	445.77869	431.24026	390.30811
361.8082	436.12494	374.72836	417.11453	420.9725	598.16492	385.25571	431.24545
400.84961	435.16434	598.82941	388.87869	407.65375	496.06216	347.18726	416.98526
364.59503	374.39029	499.49286	381.45441	404.83008	500.30347	334.04761	396.88687
333.32587	320.70319	499.87256	380.93201	448.20996	547.8374	427.65118	415.74408
347.29645	404.7435	581.81256	315.85599	429.51773	334.85791	360.7934	365.59338
348.19193	397.34549	301.94971	369.50272	404.6701	505.97427	361.36188	406.29773
351.63916	409.27054	589.30212	425.63098	388.44629	518.27917	366.1842	502.6358
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396.67889	396.28015	510.4017	431.63495	431.71698	338.52039
265.96536	464.72952	567.29517	449.82547	626.19202	358.97339
388.50839	397.18597	551.828	437.16074	458.39136	436.31479
289.79099	235.49971	575.84161	352.66693	612.81702	442.32056
338.79559	407.76025	576.74414	411.40027	508.30389	399.78873
341.23062	455.29379	523.04138	498.98425		319.09454
381.18115	397.21344	558.08704	307.98523		338.16666
319.16898	452.41788	546.77161	443.84137		369.4939
342.08865	470.35922	570.99042	356.82596		367.34262
405.25049	515.08118	469.70126	477.08759		346.6947
367.0712	423.66357	555.61188	441.73212		309.94556
383.34537	456.78717	525.99579	422.97702		416.31186
382.84686	425.9978	499.7243	446.6434		413.30017
410.60965	409.88959	578.63312	464.80734		346.00897
337.78241	419.42578	552.19965	408.44769		362.27673
365.96628	439.39145	666.77094	411.66425		280.30765
410.052	381.39761	480.92648	433.37955		521.13916
412.5791	331.57184	512.15063	451.35794		324.14423
316.68082	416.89713	537.02246	426.79993		383.45187
396.66061	418.02005	596.49762	428.03168		381.25186
301.73877	429.91766	564.77429	431.69989		366.09726
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371.83813	462.43854	559.6142	456.27164		353.76642
358.07574	294.53427	570.98761	408.72937		306.73248
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327.28625	444.85773	445.84473	404.53571		304.12177
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394.53058
543.31329
541.62335
564.78607
425.69894
478.74139
512.26819
588.83875
498.44919
428.53299
678.65002
590.98083
543.68689
445.30917
417.67029
579.6853
567.78546
641.23334
475.54178
584.77881
605.17242
607.66888
485.13992
465.62518
567.79865
378.36383
380.8811
345.78036
461.33145
529.34875
594.27515

637.81049
553.76306
466.33307
577.19812
576.39301
505.25696
581.54803
592.85681
606.10229
552.73523
540.43634
460.15536
644.69727
536.49506
530.85596
626.0116
540.52606
552.86407
470.10205
511.20782
464.3999
490.62595
426.07339

ain (%) of	Modulus (b	dulus (Pa	in (%) of	Modulus (Pd	dulus (Pa	in (%) of	Modulus (I
0.158456	108.526	6.30995	0.158528	467.164	69.2018	0.158582	192.244
0.251036	110.826	17.6923	0.251258	444.605	79.5063	0.250813	193.537
0.397335	192.486	8.19164	0.398248	426.376	88.4907	0.397635	212.007
0.62996	252.284	9.18406	0.631762	393.878	81.2457	0.630305	228.166
1.00266	137.943	11.0224	1.00241	331.162	79.6817	1.00013	221.236
1.58464	139.344	8.51521	1.58643	309.257	76.1465	1.58672	194.244
2.51322	112.456	9.21881	2.51357	288.392	77.0294	2.51311	178.274
3.9824	96.4386	9.00425	3.98255	277.521	74.9666	3.98088	177.117
6.31037	84.6258	8.42637	6.31339	259.286	74.9025	6.31184	166.044
10.0025	68.061	8.19722	10.0048	242.54	75.1352	10.003	155.007
15.8503	58.4342	7.05983	15.8585	222.168	75.4763	15.8507	148.148
25.1209	48.8239	6.29525	25.1348	202.659	74.506	25.1208	143.672
39.8125	41.147	4.78546	39.8352	186.433	70.5148	39.816	138.201
63.0952	35.8752	3.24836	63.1269	173.592	66.1093	63.1045	132.862
100	31.6235	1.23339	100.062	157.665	62.1578	100.012	128.487

Modulus (Pa) of B42

53.8291

58.2364

60.5112

63.4037

62.7184

57.2336

58.6132

56.8133

56.0435

55.4897

54.7321

53.9021

52.3703

50.283

47.8091

) of I27 in	Pa) of I27	) of I27 in	Pa) of I27	of A339 in	Pa) of A339	of A339 in	Pa) of A339
26.405	54.8839	93.527	5155.71	26.398	108.144	93.553	143.966
27.5	54.2051	92.462	5511.49	27.488	109.132	92.488	144.814
28.6	55.0085	91.436	5810.61	28.554	109.411	91.406	146.73
29.583	53.7277	90.388	6088.45	29.601	110.051	90.415	146.645
30.676	57.9711	89.354	6329.35	30.603	109.862	89.375	146.278
31.694	57.529	88.324	6520.65	31.677	115.942	88.307	146.692
32.715	59.3363	87.25	6700.03	32.706	114.536	87.267	147.122
33.802	59.8793	86.229	6816.85	33.724	114.173	86.289	145.767
34.779	59.3599	85.24	6904.81	34.81	113.727	85.196	145.381
35.791	59.4905	84.18	7012.19	35.812	114.32	84.187	146.09
36.886	57.6928	83.113	7126.27	36.87	114.612	83.183	144.986
37.889	59.2246	82.141	7230.89	37.901	116.508	82.088	146.051
38.932	58.5927	81.064	7325.88	38.933	115.577	81.094	146.19
39.987	59.5249	80.023	7405.27	39.913	117.083	80.002	147.043
40.997	57.0538	78.956	7451.6	41	118.613	79.014	148.055
42.077	57.4456	77.919	7442.63	42.017	118.521	78.001	147.262
43.095	58.6385	76.912	7397.5	43.099	119.785	76.924	148.169
44.135	57.1157	75.849	7380.14	44.119	119.775	75.886	148.521
45.202	56.0905	74.844	7380.63	45.113	119.76	74.881	150.483
46.164	57.7169	73.816	7405.93	46.197	119.017	73.814	152.079
47.195	56.8455	72.786	7335.4	47.222	120.831	72.794	152.404
48.283	57.1873	71.763	7289.66	48.266	122.084	71.719	153.512
49.291	56.5674	70.711	7249.97	49.313	122.366	70.704	157.125
50.292	58.0127	69.666	7219.42	50.349	123.244	69.701	159.898
51.369	58.6437	68.641	7197.04	51.339	126.382	68.662	162.133
52.388	57.1543	67.58	7184.33	52.429	126.517	67.615	167.084
53.42	57.6878	66.535	7170.96	53.434	127.571	66.592	169.316
54.48	58.2274	65.537	7158.19	54.454	127.198	65.522	172.474
55.505	58.8083	64.518	7136.57	55.503	129.577	64.497	178.184
56.516	58.5014	63.447	7127.28	56.529	129.302	63.493	181.249
57.58	59.7755	62.415	7112.63	57.606	131.949	62.464	186.439
58.621	59.2312	61.451	7092.94	58.614	131.956	61.408	192.847
59.655	60.616	60.359	7087.46	59.636	133.615	60.386	199.423
60.67	60.8788	59.347	7089.11	60.717	135.131	59.313	207.092
61.684	61.9259	58.28	7081.97	61.699	136.202	58.336	213.588
62.77	62.1896	57.285	7051.05	62.733	139.055	57.279	220.178
63.787	63.4078	56.272	7034.94	63.817	140.522	56.24	223.457
64.83	65.2626	55.162	7030.36	64.822	142.351	55.211	232.111
65.895	66.1489	54.157	7032.89	65.885	141.023	54.131	235.253
66.869	68.8581	53.137	7039.5	66.878	142.456	53.105	241.956
67.908	69.0564	52.074	7046.08	67.907	146.531	52.109	246.498
68.981	69.9606	51.06	7053.27	69.006	147.031	51.035	249.216
69.994	72.6604	50.049	7062.96	70.013	147.804	50.019	252.343
71.046	75.1763	48.97	7075.01	71.021	147.522	48.973	255.378
72.094	77.7749	47.959	7090.5	72.118	151.37	47.932	259.794
73.084	79.0178	46.93	7108.44	73.115	152.419	46.924	262.124
74.194	82.7421	45.89	7120.66	74.13	154.143	45.906	262.948
75.164	85.8932	44.86	7136.52	75.212	154.015	44.835	264.313
76.2	88.3608	43.8	7154.56	76.234	155.822	43.811	266.471
77.279	92.4247	42.802	7163.91	77.275	157.495	42.78	266.211

78.29	96.2143	41.803	7173.23	78.285	156.44	41.732	268.312
79.367	102.202	40.757	7180.97	79.323	159.702	40.715	270.83
80.367	109.024	39.705	7197.02	80.374	161.837	39.667	270.458
81.395	118.107	38.682	7214.82	81.395	162.373	38.641	271.755
82.465	134.748	37.663	7234.12	82.388	163.506	37.639	271.788
83.455	158.028	36.609	7250.02	83.474	167.008	36.609	272.021
84.477	197.419	35.563	7268.57	84.508	167.163	35.59	273.31
85.529	267.615	34.518	7268.22	85.537	168.808	34.6	274.321
86.542	381.221	33.496	7271.66	86.594	171.167	33.546	276.804
87.589	565.756	32.482	7282.7	87.581	171.19	32.592	277.955
88.662	809.52	31.399	7292.82	88.622	172.871	31.88	277.323
89.69	1141.31	30.38	7305.68	89.663	174.859	31.924	278.905
90.668	1557.77	29.363	7321.42	90.681	178.176	33.126	276.563
91.748	1985.04	28.303	7334.68	91.774	176.037	34.427	278.209
92.771	2426.31	27.277	7349.97	92.782	179.239	35.298	278.74
93.831	2933.2	26.251	7364.66	93.802	181.415	35.911	275.972
94.867	3483.6	25.207	7379.16	94.889	181.949	36.425	278.342
95.031	4027.79	24.908	7390.01	95.062	180.991		

of B42 in Pa)	of B42)	of B42 in Pa)	of B42	in cooling process
26.424	229.398	93.549	219.007	
27.505	230.919	92.438	223.29	
28.612	232.761	91.43	221.669	
29.592	233.083	90.419	222.811	
30.633	234.013	89.314	222.153	
31.703	233.603	88.328	222.28	
32.709	233.34	87.251	220.275	
33.776	234.209	86.227	216.72	
34.816	233.144	85.233	213.089	
35.818	233.373	84.134	211.565	
36.899	233.32	83.143	211.219	
37.914	231.979	82.096	207.051	
38.945	234.17	81.045	205.153	
39.985	233.467	80.05	205.393	
41.004	233.768	79.038	203.226	
42.021	233.983	77.954	202.774	
43.103	233.401	76.949	201.661	
44.097	233.896	75.877	202.423	
45.188	234.761	74.817	200.292	
46.176	234.179	73.837	200.233	
47.189	234.598	72.726	200.425	
48.308	234.875	71.729	199.954	
49.302	236.073	70.721	199.82	
50.295	235.909	69.673	200.726	
51.412	236.107	68.637	200.6	
52.382	237.244	67.574	200.926	
53.428	238.189	66.557	201.327	
54.49	239.412	65.522	201.836	
55.49	240.356	64.512	203.907	
56.504	241.61	63.46	207.031	
57.578	242.648	62.44	209.502	
58.617	243.978	61.374	213.102	
59.668	244.953	60.361	218.95	
60.678	246.583	59.323	216.248	
61.708	247.657	58.268	215.089	
62.772	249.45	57.288	214.593	
63.796	251.535	56.236	216.297	
64.8	250.768	55.173	217.589	
65.868	253.219	54.148	219.878	
66.884	254.938	53.077	222.355	
67.96	255.478	52.086	223.322	
68.989	257.675	51.05	225.171	
70.042	259.201	49.981	227.053	
71.022	260.467	48.974	228.84	
72.063	261.368	47.97	230.181	
73.08	263.273	46.884	230.513	
74.125	263.818	45.89	232.808	
75.187	264.451	44.787	232.865	
76.183	265.744	43.771	233.857	
77.228	267.741	42.799	233.746	

78.292	268.955	41.756	233.375
79.291	271.231	40.684	234.876
80.391	269.366	39.667	234.721
81.372	269.009	38.606	234.873
82.445	268.897	37.611	234.904
83.465	270.993	36.582	235.138
84.475	271.94	35.513	234.639
85.525	272.674	34.492	236.003
86.566	274.207	33.454	235.713
87.592	276.968	32.401	234.701
88.662	279.072	31.392	236.924
89.699	279.794	30.318	237.624
90.703	282.032	29.321	237.601
91.756	283.76	28.285	238.451
92.775	287.613	27.222	237.909
93.791	291.885	26.204	238.472
94.865	293.607	25.203	239.353
94.991	298.205	24.8	239.562

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MODEL	1										
ATOM	1	N	LYS	A	1	-17.109	10.133	11.383	1.00	83.44	N
ATOM	2	CA	LYS	A	1	-15.898	9.328	11.516	1.00	83.44	C
ATOM	3	C	LYS	A	1	-15.078	9.359	10.227	1.00	83.44	C
ATOM	4	CB	LYS	A	1	-16.250	7.887	11.883	1.00	83.44	C
ATOM	5	O	LYS	A	1	-15.594	9.070	9.148	1.00	83.44	O
ATOM	6	CG	LYS	A	1	-16.859	7.730	13.266	1.00	83.44	C
ATOM	7	CD	LYS	A	1	-17.109	6.266	13.602	1.00	83.44	C
ATOM	8	CE	LYS	A	1	-17.766	6.109	14.969	1.00	83.44	C
ATOM	9	NZ	LYS	A	1	-18.000	4.676	15.312	1.00	83.44	N
ATOM	10	N	LYS	A	2	-14.094	10.273	10.211	1.00	87.50	N
ATOM	11	CA	LYS	A	2	-13.227	10.438	9.047	1.00	87.50	C
ATOM	12	C	LYS	A	2	-11.922	9.664	9.219	1.00	87.50	C
ATOM	13	CB	LYS	A	2	-12.930	11.922	8.805	1.00	87.50	C
ATOM	14	O	LYS	A	2	-11.383	9.578	10.320	1.00	87.50	O
ATOM	15	CG	LYS	A	2	-14.156	12.750	8.453	1.00	87.50	C
ATOM	16	CD	LYS	A	2	-13.789	14.203	8.188	1.00	87.50	C
ATOM	17	CE	LYS	A	2	-15.016	15.031	7.820	1.00	87.50	C
ATOM	18	NZ	LYS	A	2	-14.680	16.469	7.660	1.00	87.50	N
ATOM	19	N	ALA	A	3	-11.523	8.914	8.250	1.00	91.50	N
ATOM	20	CA	ALA	A	3	-10.219	8.258	8.188	1.00	91.50	C
ATOM	21	C	ALA	A	3	-9.266	9.008	7.262	1.00	91.50	C
ATOM	22	CB	ALA	A	3	-10.375	6.812	7.715	1.00	91.50	C
ATOM	23	O	ALA	A	3	-9.703	9.758	6.387	1.00	91.50	O
ATOM	24	N	LYS	A	4	-8.055	9.047	7.664	1.00	93.88	N
ATOM	25	CA	LYS	A	4	-7.035	9.703	6.848	1.00	93.88	C
ATOM	26	C	LYS	A	4	-6.145	8.672	6.152	1.00	93.88	C
ATOM	27	CB	LYS	A	4	-6.180	10.641	7.703	1.00	93.88	C
ATOM	28	O	LYS	A	4	-5.633	7.754	6.793	1.00	93.88	O
ATOM	29	CG	LYS	A	4	-6.926	11.867	8.211	1.00	93.88	C
ATOM	30	CD	LYS	A	4	-6.000	12.812	8.961	1.00	93.88	C
ATOM	31	CE	LYS	A	4	-6.750	14.016	9.508	1.00	93.88	C
ATOM	32	NZ	LYS	A	4	-5.867	14.898	10.328	1.00	93.88	N
ATOM	33	N	LEU	A	5	-6.031	8.789	4.840	1.00	95.00	N
ATOM	34	CA	LEU	A	5	-5.172	7.914	4.051	1.00	95.00	C
ATOM	35	C	LEU	A	5	-4.117	8.719	3.301	1.00	95.00	C
ATOM	36	CB	LEU	A	5	-6.004	7.094	3.064	1.00	95.00	C
ATOM	37	O	LEU	A	5	-4.449	9.617	2.521	1.00	95.00	O
ATOM	38	CG	LEU	A	5	-5.227	6.223	2.080	1.00	95.00	C
ATOM	39	CD1	LEU	A	5	-4.461	5.133	2.828	1.00	95.00	C
ATOM	40	CD2	LEU	A	5	-6.164	5.609	1.048	1.00	95.00	C
ATOM	41	N	LYS	A	6	-2.889	8.492	3.605	1.00	95.06	N
ATOM	42	CA	LYS	A	6	-1.762	9.156	2.953	1.00	95.06	C
ATOM	43	C	LYS	A	6	-0.934	8.156	2.143			

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ATOM	53	CB	ILE A	7	-0.842	6.988	-1.129	1.00	95.12	C
ATOM	54	O	ILE A	7	0.914	9.453	-1.278	1.00	95.12	O
ATOM	55	CG1	ILE A	7	-1.979	6.156	-0.521	1.00	95.12	C
ATOM	56	CG2	ILE A	7	0.022	6.133	-2.061	1.00	95.12	C
ATOM	57	CD1	ILE A	7	-3.029	5.715	-1.529	1.00	95.12	C
ATOM	58	N	LYS A	8	2.326	8.047	-0.285	1.00	95.06	N
ATOM	59	CA	LYS A	8	3.512	8.711	-0.812	1.00	95.06	C
ATOM	60	C	LYS A	8	4.344	7.766	-1.669	1.00	95.06	C
ATOM	61	CB	LYS A	8	4.363	9.273	0.328	1.00	95.06	C
ATOM	62	O	LYS A	8	4.773	6.711	-1.196	1.00	95.06	O
ATOM	63	CG	LYS A	8	5.488	10.188	-0.131	1.00	95.06	C
ATOM	64	CD	LYS A	8	6.234	10.797	1.051	1.00	95.06	C
ATOM	65	CE	LYS A	8	7.367	11.703	0.592	1.00	95.06	C
ATOM	66	NZ	LYS A	8	8.102	12.305	1.748	1.00	95.06	N
ATOM	67	N	LYS A	9	4.469	8.141	-2.895	1.00	93.75	N
ATOM	68	CA	LYS A	9	5.258	7.344	-3.832	1.00	93.75	C
ATOM	69	C	LYS A	9	6.504	8.094	-4.281	1.00	93.75	C
ATOM	70	CB	LYS A	9	4.414	6.953	-5.047	1.00	93.75	C
ATOM	71	O	LYS A	9	6.414	9.234	-4.746	1.00	93.75	O
ATOM	72	CG	LYS A	9	5.109	5.996	-6.004	1.00	93.75	C
ATOM	73	CD	LYS A	9	4.203	5.613	-7.168	1.00	93.75	C
ATOM	74	CE	LYS A	9	4.914	4.688	-8.148	1.00	93.75	C
ATOM	75	NZ	LYS A	9	4.047	4.340	-9.312	1.00	93.75	N
ATOM	76	N	THR A	10	7.621	7.492	-4.098	1.00	94.56	N
ATOM	77	CA	THR A	10	8.898	8.062	-4.496	1.00	94.56	C
ATOM	78	C	THR A	10	9.578	7.191	-5.547	1.00	94.56	C
ATOM	79	CB	THR A	10	9.836	8.242	-3.287	1.00	94.56	C
ATOM	80	O	THR A	10	9.812	6.004	-5.320	1.00	94.56	O
ATOM	81	CG2	THR A	10	11.133	8.938	-3.689	1.00	94.56	C
ATOM	82	OG1	THR A	10	9.172	9.031	-2.289	1.00	94.56	O
ATOM	83	N	ILE A	11	9.867	7.816	-6.637	1.00	92.38	N
ATOM	84	CA	ILE A	11	10.500	7.082	-7.727	1.00	92.38	C
ATOM	85	C	ILE A	11	11.945	7.539	-7.883	1.00	92.38	C
ATOM	86	CB	ILE A	11	9.734	7.266	-9.055	1.00	92.38	C
ATOM	87	O	ILE A	11	12.211	8.703	-8.211	1.00	92.38	O
ATOM	88	CG1	ILE A	11	8.273	6.816	-8.898	1.00	92.38	C
ATOM	89	CG2	ILE A	11	10.422	6.500	-10.188	1.00	92.38	C
ATOM	90	CD1	ILE A	11	7.383	7.191	-10.070	1.00	92.38	C
ATOM	91	N	GLY A	12	12.820	6.629	-7.500	1.00	90.81	N
ATOM	92	CA	GLY A	12	14.234	6.867	-7.723	1.00	90.81	C
ATOM	93	C	GLY A	12	14.750	6.254	-9.016	1.00	90.81	C
ATOM	94	O	GLY A	12	13.969	5.715	-9.805	1.00	90.81	O
ATOM	95	N	LYS A	13	16.031	6.480	-9.281	1.00	89.38	N
ATOM	96	CA	LYS A	13	16.641	5.941	-10.492	1.00	89.38	C
ATOM	97	C	LYS A	13	16.516	4.418	-10.539	1.00	89.38	C
ATOM	98	CB	LYS A	13	18.109	6.348	-10.586	1.00	89.38	C
ATOM	99	O	LYS A	13	16.156	3.852	-11.578	1.00	89.38	O
ATOM	100	CG	LYS A	13	18.766	5.977	-11.906	1.00	89.38	C
ATOM	101	CD	LYS A	13	20.203	6.469	-11.969	1.00	89.38	C
ATOM	102	CE	LYS A	13	20.875	6.082	-13.281	1.00	89.38	C
ATOM	103	NZ	LYS A	13	22.312	6.504	-13.320	1.00	89.38	N
ATOM	104	N	THR A	14	16.719	3.752	-9.453	1.00	91.56	N
ATOM	105	CA	THR A	14	16.688	2.295	-9.430	1.00	91.56	C

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ATOM	106	C	THR	A	14	15.781	1.800	-8.297	1.00	91.56	C
ATOM	107	CB	THR	A	14	18.094	1.699	-9.258	1.00	91.56	C
ATOM	108	O	THR	A	14	15.773	0.608	-7.980	1.00	91.56	O
ATOM	109	CG2	THR	A	14	18.969	2.018	-10.469	1.00	91.56	C
ATOM	110	OG1	THR	A	14	18.703	2.246	-8.086	1.00	91.56	O
ATOM	111	N	THR	A	15	15.094	2.742	-7.758	1.00	93.12	N
ATOM	112	CA	THR	A	15	14.289	2.357	-6.602	1.00	93.12	C
ATOM	113	C	THR	A	15	12.914	3.023	-6.648	1.00	93.12	C
ATOM	114	CB	THR	A	15	15.000	2.727	-5.285	1.00	93.12	C
ATOM	115	O	THR	A	15	12.797	4.172	-7.078	1.00	93.12	O
ATOM	116	CG2	THR	A	15	14.227	2.193	-4.082	1.00	93.12	C
ATOM	117	OG1	THR	A	15	16.312	2.164	-5.281	1.00	93.12	O
ATOM	118	N	VAL	A	16	11.891	2.287	-6.238	1.00	94.19	N
ATOM	119	CA	VAL	A	16	10.539	2.809	-6.047	1.00	94.19	C
ATOM	120	C	VAL	A	16	10.109	2.609	-4.598	1.00	94.19	C
ATOM	121	CB	VAL	A	16	9.531	2.129	-7.000	1.00	94.19	C
ATOM	122	O	VAL	A	16	10.164	1.493	-4.074	1.00	94.19	O
ATOM	123	CG1	VAL	A	16	8.109	2.615	-6.719	1.00	94.19	C
ATOM	124	CG2	VAL	A	16	9.914	2.396	-8.461	1.00	94.19	C
ATOM	125	N	LYS	A	17	9.852	3.719	-3.951	1.00	95.44	N
ATOM	126	CA	LYS	A	17	9.383	3.666	-2.568	1.00	95.44	C
ATOM	127	C	LYS	A	17	7.922	4.078	-2.465	1.00	95.44	C
ATOM	128	CB	LYS	A	17	10.250	4.566	-1.679	1.00	95.44	C
ATOM	129	O	LYS	A	17	7.516	5.102	-3.020	1.00	95.44	O
ATOM	130	CG	LYS	A	17	11.680	4.086	-1.521	1.00	95.44	C
ATOM	131	CD	LYS	A	17	12.461	4.973	-0.562	1.00	95.44	C
ATOM	132	CE	LYS	A	17	13.914	4.527	-0.444	1.00	95.44	C
ATOM	133	NZ	LYS	A	17	14.688	5.402	0.489	1.00	95.44	N
ATOM	134	N	LEU	A	18	7.098	3.236	-1.820	1.00	95.88	N
ATOM	135	CA	LEU	A	18	5.688	3.510	-1.578	1.00	95.88	C
ATOM	136	C	LEU	A	18	5.379	3.500	-0.084	1.00	95.88	C
ATOM	137	CB	LEU	A	18	4.809	2.480	-2.299	1.00	95.88	C
ATOM	138	O	LEU	A	18	5.688	2.529	0.611	1.00	95.88	O
ATOM	139	CG	LEU	A	18	3.299	2.631	-2.115	1.00	95.88	C
ATOM	140	CD1	LEU	A	18	2.801	3.883	-2.828	1.00	95.88	C
ATOM	141	CD2	LEU	A	18	2.572	1.392	-2.627	1.00	95.88	C
ATOM	142	N	GLU	A	19	4.930	4.594	0.357	1.00	95.31	N
ATOM	143	CA	GLU	A	19	4.516	4.723	1.752	1.00	95.31	C
ATOM	144	C	GLU	A	19	3.012	4.941	1.862	1.00	95.31	C
ATOM	145	CB	GLU	A	19	5.270	5.867	2.432	1.00	95.31	C
ATOM	146	O	GLU	A	19	2.473	5.887	1.282	1.00	95.31	O
ATOM	147	CG	GLU	A	19	6.770	5.648	2.531	1.00	95.31	C
ATOM	148	CD	GLU	A	19	7.520	6.852	3.074	1.00	95.31	C
ATOM	149	OE1	GLU	A	19	7.598	7.012	4.312	1.00	95.31	O
ATOM	150	OE2	GLU	A	19	8.031	7.645	2.254	1.00	95.31	O
ATOM	151	N	ILE	A	20	2.328	4.086	2.576	1.00	95.38	N
ATOM	152	CA	ILE	A	20	0.890	4.188	2.801	1.00	95.38	C
ATOM	153	C	ILE	A	20	0.607	4.266	4.301	1.00	95.38	C
ATOM	154	CB	ILE	A	20	0.131	2.998	2.172	1.00	95.38	C
ATOM	155	O	ILE	A	20	1.001	3.377	5.059	1.00	95.38	O
ATOM	156	CG1	ILE	A	20	0.447	2.895	0.676	1.00	95.38	C
ATOM	157	CG2	ILE	A	20	-1.376	3.135	2.406	1.00	95.38	C
ATOM	158	CD1	ILE	A	20	-0.060	1.615	0.024	1.00	95.38	C

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ATOM	159	N	GLU A 21	0.022	5.309	4.660	1.00	95.06	N
ATOM	160	CA	GLU A 21	-0.347	5.523	6.059	1.00	95.06	C
ATOM	161	C	GLU A 21	-1.830	5.859	6.191	1.00	95.06	C
ATOM	162	CB	GLU A 21	0.503	6.637	6.676	1.00	95.06	C
ATOM	163	O	GLU A 21	-2.334	6.746	5.504	1.00	95.06	O
ATOM	164	CG	GLU A 21	0.252	6.848	8.156	1.00	95.06	C
ATOM	165	CD	GLU A 21	1.103	7.957	8.758	1.00	95.06	C
ATOM	166	OE1	GLU A 21	0.744	9.148	8.602	1.00	95.06	O
ATOM	167	OE2	GLU A 21	2.135	7.637	9.391	1.00	95.06	O
ATOM	168	N	ALA A 22	-2.498	5.059	6.992	1.00	94.56	N
ATOM	169	CA	ALA A 22	-3.914	5.301	7.258	1.00	94.56	C
ATOM	170	C	ALA A 22	-4.176	5.418	8.758	1.00	94.56	C
ATOM	171	CB	ALA A 22	-4.770	4.191	6.656	1.00	94.56	C
ATOM	172	O	ALA A 22	-3.641	4.641	9.555	1.00	94.56	O
ATOM	173	N	LYS A 23	-4.930	6.398	9.133	1.00	94.00	N
ATOM	174	CA	LYS A 23	-5.367	6.621	10.508	1.00	94.00	C
ATOM	175	C	LYS A 23	-6.887	6.594	10.609	1.00	94.00	C
ATOM	176	CB	LYS A 23	-4.828	7.953	11.031	1.00	94.00	C
ATOM	177	O	LYS A 23	-7.578	7.324	9.891	1.00	94.00	O
ATOM	178	CG	LYS A 23	-3.312	8.000	11.156	1.00	94.00	C
ATOM	179	CD	LYS A 23	-2.844	9.328	11.742	1.00	94.00	C
ATOM	180	CE	LYS A 23	-1.326	9.383	11.859	1.00	94.00	C
ATOM	181	NZ	LYS A 23	-0.859	10.688	12.406	1.00	94.00	N
ATOM	182	N	PHE A 24	-7.371	5.723	11.539	1.00	92.19	N
ATOM	183	CA	PHE A 24	-8.812	5.535	11.664	1.00	92.19	C
ATOM	184	C	PHE A 24	-9.344	6.234	12.914	1.00	92.19	C
ATOM	185	CB	PHE A 24	-9.156	4.043	11.719	1.00	92.19	C
ATOM	186	O	PHE A 24	-8.578	6.547	13.828	1.00	92.19	O
ATOM	187	CG	PHE A 24	-8.805	3.295	10.461	1.00	92.19	C
ATOM	188	CD1	PHE A 24	-9.703	3.217	9.406	1.00	92.19	C
ATOM	189	CD2	PHE A 24	-7.570	2.668	10.336	1.00	92.19	C
ATOM	190	CE1	PHE A 24	-9.383	2.525	8.242	1.00	92.19	C
ATOM	191	CE2	PHE A 24	-7.242	1.975	9.172	1.00	92.19	C
ATOM	192	CZ	PHE A 24	-8.148	1.903	8.125	1.00	92.19	C
ATOM	193	N	PRO A 25	-10.609	6.512	12.992	1.00	89.12	N
ATOM	194	CA	PRO A 25	-11.203	7.246	14.109	1.00	89.12	C
ATOM	195	C	PRO A 25	-11.148	6.469	15.422	1.00	89.12	C
ATOM	196	CB	PRO A 25	-12.656	7.453	13.664	1.00	89.12	C
ATOM	197	O	PRO A 25	-11.266	7.059	16.500	1.00	89.12	O
ATOM	198	CG	PRO A 25	-12.875	6.418	12.602	1.00	89.12	C
ATOM	199	CD	PRO A 25	-11.562	6.129	11.938	1.00	89.12	C
ATOM	200	N	ASN A 26	-10.977	5.203	15.312	1.00	89.00	N
ATOM	201	CA	ASN A 26	-10.914	4.379	16.516	1.00	89.00	C
ATOM	202	C	ASN A 26	-9.539	4.430	17.172	1.00	89.00	C
ATOM	203	CB	ASN A 26	-11.297	2.930	16.188	1.00	89.00	C
ATOM	204	O	ASN A 26	-9.312	3.807	18.203	1.00	89.00	O
ATOM	205	CG	ASN A 26	-10.297	2.262	15.258	1.00	89.00	C
ATOM	206	ND2	ASN A 26	-10.422	0.951	15.102	1.00	89.00	N
ATOM	207	OD1	ASN A 26	-9.422	2.920	14.695	1.00	89.00	O
ATOM	208	N	GLY A 27	-8.562	5.215	16.562	1.00	89.50	N
ATOM	209	CA	GLY A 27	-7.215	5.328	17.094	1.00	89.50	C
ATOM	210	C	GLY A 27	-6.230	4.371	16.453	1.00	89.50	C
ATOM	211	O	GLY A 27	-5.027	4.445	16.703	1.00	89.50	O

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ATOM	212	N	LYS	A	28	-6.711	3.479	15.594	1.00	92.50	N
ATOM	213	CA	LYS	A	28	-5.848	2.506	14.930	1.00	92.50	C
ATOM	214	C	LYS	A	28	-5.184	3.111	13.695	1.00	92.50	C
ATOM	215	CB	LYS	A	28	-6.641	1.259	14.539	1.00	92.50	C
ATOM	216	O	LYS	A	28	-5.715	4.051	13.094	1.00	92.50	O
ATOM	217	CG	LYS	A	28	-7.133	0.443	15.727	1.00	92.50	C
ATOM	218	CD	LYS	A	28	-7.832	-0.833	15.273	1.00	92.50	C
ATOM	219	CE	LYS	A	28	-8.336	-1.644	16.453	1.00	92.50	C
ATOM	220	NZ	LYS	A	28	-9.023	-2.895	16.016	1.00	92.50	N
ATOM	221	N	LYS	A	29	-4.027	2.596	13.422	1.00	93.94	N
ATOM	222	CA	LYS	A	29	-3.291	3.125	12.281	1.00	93.94	C
ATOM	223	C	LYS	A	29	-2.621	2.004	11.492	1.00	93.94	C
ATOM	224	CB	LYS	A	29	-2.246	4.145	12.734	1.00	93.94	C
ATOM	225	O	LYS	A	29	-2.275	0.963	12.055	1.00	93.94	O
ATOM	226	CG	LYS	A	29	-1.128	3.547	13.578	1.00	93.94	C
ATOM	227	CD	LYS	A	29	-0.115	4.605	14.000	1.00	93.94	C
ATOM	228	CE	LYS	A	29	1.006	4.008	14.836	1.00	93.94	C
ATOM	229	NZ	LYS	A	29	1.977	5.051	15.289	1.00	93.94	N
ATOM	230	N	ILE	A	30	-2.541	2.254	10.133	1.00	94.50	N
ATOM	231	CA	ILE	A	30	-1.838	1.351	9.234	1.00	94.50	C
ATOM	232	C	ILE	A	30	-0.697	2.096	8.539	1.00	94.50	C
ATOM	233	CB	ILE	A	30	-2.795	0.745	8.180	1.00	94.50	C
ATOM	234	O	ILE	A	30	-0.904	3.168	7.969	1.00	94.50	O
ATOM	235	CG1	ILE	A	30	-3.891	-0.078	8.867	1.00	94.50	C
ATOM	236	CG2	ILE	A	30	-2.020	-0.109	7.172	1.00	94.50	C
ATOM	237	CD1	ILE	A	30	-4.977	-0.573	7.926	1.00	94.50	C
ATOM	238	N	LYS	A	31	0.468	1.531	8.734	1.00	95.06	N
ATOM	239	CA	LYS	A	31	1.631	2.090	8.055	1.00	95.06	C
ATOM	240	C	LYS	A	31	2.357	1.020	7.242	1.00	95.06	C
ATOM	241	CB	LYS	A	31	2.590	2.729	9.055	1.00	95.06	C
ATOM	242	O	LYS	A	31	2.852	0.038	7.805	1.00	95.06	O
ATOM	243	CG	LYS	A	31	3.703	3.545	8.422	1.00	95.06	C
ATOM	244	CD	LYS	A	31	4.562	4.238	9.469	1.00	95.06	C
ATOM	245	CE	LYS	A	31	5.648	5.090	8.828	1.00	95.06	C
ATOM	246	NZ	LYS	A	31	6.492	5.773	9.852	1.00	95.06	N
ATOM	247	N	VAL	A	32	2.383	1.247	5.926	1.00	95.69	N
ATOM	248	CA	VAL	A	32	3.047	0.296	5.043	1.00	95.69	C
ATOM	249	C	VAL	A	32	4.125	1.011	4.230	1.00	95.69	C
ATOM	250	CB	VAL	A	32	2.041	-0.401	4.102	1.00	95.69	C
ATOM	251	O	VAL	A	32	3.842	1.997	3.547	1.00	95.69	O
ATOM	252	CG1	VAL	A	32	2.758	-1.387	3.180	1.00	95.69	C
ATOM	253	CG2	VAL	A	32	0.957	-1.111	4.906	1.00	95.69	C
ATOM	254	N	ASN	A	33	5.344	0.542	4.387	1.00	95.81	N
ATOM	255	CA	ASN	A	33	6.461	1.061	3.605	1.00	95.81	C
ATOM	256	C	ASN	A	33	7.016	0.007	2.650	1.00	95.81	C
ATOM	257	CB	ASN	A	33	7.570	1.573	4.527	1.00	95.81	C
ATOM	258	O	ASN	A	33	7.512	-1.034	3.086	1.00	95.81	O
ATOM	259	CG	ASN	A	33	7.121	2.740	5.387	1.00	95.81	C
ATOM	260	ND2	ASN	A	33	6.934	2.488	6.676	1.00	95.81	N
ATOM	261	OD1	ASN	A	33	6.941	3.855	4.895	1.00	95.81	O
ATOM	262	N	LEU	A	34	6.828	0.335	1.351	1.00	96.19	N
ATOM	263	CA	LEU	A	34	7.352	-0.585	0.346	1.00	96.19	C
ATOM	264	C	LEU	A	34	8.547	0.025	-0.380	1.00	96.19	C

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ATOM	265	CB	LEU A 34	6.258	-0.954	-0.663	1.00	96.19	C
ATOM	266	O	LEU A 34	8.469	1.158	-0.860	1.00	96.19	O
ATOM	267	CG	LEU A 34	6.707	-1.768	-1.878	1.00	96.19	C
ATOM	268	CD1	LEU A 34	7.027	-3.201	-1.467	1.00	96.19	C
ATOM	269	CD2	LEU A 34	5.633	-1.745	-2.963	1.00	96.19	C
ATOM	270	N	THR A 35	9.594	-0.737	-0.365	1.00	95.56	N
ATOM	271	CA	THR A 35	10.766	-0.382	-1.156	1.00	95.56	C
ATOM	272	C	THR A 35	11.047	-1.444	-2.215	1.00	95.56	C
ATOM	273	CB	THR A 35	12.008	-0.201	-0.264	1.00	95.56	C
ATOM	274	O	THR A 35	11.266	-2.611	-1.886	1.00	95.56	O
ATOM	275	CG2	THR A 35	13.219	0.218	-1.088	1.00	95.56	C
ATOM	276	OG1	THR A 35	11.742	0.807	0.719	1.00	95.56	O
ATOM	277	N	VAL A 36	10.969	-1.008	-3.471	1.00	95.44	N
ATOM	278	CA	VAL A 36	11.250	-1.946	-4.551	1.00	95.44	C
ATOM	279	C	VAL A 36	12.516	-1.524	-5.285	1.00	95.44	C
ATOM	280	CB	VAL A 36	10.062	-2.041	-5.543	1.00	95.44	C
ATOM	281	O	VAL A 36	12.586	-0.424	-5.840	1.00	95.44	O
ATOM	282	CG1	VAL A 36	10.297	-3.168	-6.547	1.00	95.44	C
ATOM	283	CG2	VAL A 36	8.750	-2.250	-4.789	1.00	95.44	C
ATOM	284	N	LYS A 37	13.477	-2.355	-5.320	1.00	94.50	N
ATOM	285	CA	LYS A 37	14.734	-2.100	-6.008	1.00	94.50	C
ATOM	286	C	LYS A 37	14.844	-2.922	-7.289	1.00	94.50	C
ATOM	287	CB	LYS A 37	15.922	-2.408	-5.086	1.00	94.50	C
ATOM	288	O	LYS A 37	14.359	-4.055	-7.344	1.00	94.50	O
ATOM	289	CG	LYS A 37	15.992	-1.522	-3.852	1.00	94.50	C
ATOM	290	CD	LYS A 37	17.203	-1.858	-2.992	1.00	94.50	C
ATOM	291	CE	LYS A 37	17.250	-1.014	-1.727	1.00	94.50	C
ATOM	292	NZ	LYS A 37	18.453	-1.318	-0.896	1.00	94.50	N
ATOM	293	N	VAL A 38	15.453	-2.266	-8.281	1.00	93.62	N
ATOM	294	CA	VAL A 38	15.656	-2.939	-9.562	1.00	93.62	C
ATOM	295	C	VAL A 38	16.906	-3.811	-9.500	1.00	93.62	C
ATOM	296	CB	VAL A 38	15.766	-1.930	-10.727	1.00	93.62	C
ATOM	297	O	VAL A 38	17.953	-3.365	-9.023	1.00	93.62	O
ATOM	298	CG1	VAL A 38	16.078	-2.648	-12.039	1.00	93.62	C
ATOM	299	CG2	VAL A 38	14.484	-1.114	-10.852	1.00	93.62	C
ATOM	300	N	GLY A 39	16.891	-5.176	-9.875	1.00	91.50	N
ATOM	301	CA	GLY A 39	18.016	-6.094	-9.883	1.00	91.50	C
ATOM	302	C	GLY A 39	17.703	-7.445	-9.273	1.00	91.50	C
ATOM	303	O	GLY A 39	18.594	-8.234	-8.984	1.00	91.50	O
ATOM	304	N	GLY A 40	16.359	-7.758	-9.367	1.00	91.56	N
ATOM	305	CA	GLY A 40	16.000	-8.930	-8.578	1.00	91.56	C
ATOM	306	C	GLY A 40	15.141	-9.914	-9.344	1.00	91.56	C
ATOM	307	O	GLY A 40	15.430	-10.242	-10.492	1.00	91.56	O
ATOM	308	N	VAL A 41	14.195	-10.438	-8.664	1.00	93.44	N
ATOM	309	CA	VAL A 41	13.352	-11.539	-9.094	1.00	93.44	C
ATOM	310	C	VAL A 41	12.305	-11.031	-10.086	1.00	93.44	C
ATOM	311	CB	VAL A 41	12.656	-12.234	-7.898	1.00	93.44	C
ATOM	312	O	VAL A 41	12.250	-9.836	-10.383	1.00	93.44	O
ATOM	313	CG1	VAL A 41	13.695	-12.859	-6.965	1.00	93.44	C
ATOM	314	CG2	VAL A 41	11.789	-11.234	-7.137	1.00	93.44	C
ATOM	315	N	SER A 42	11.562	-11.930	-10.641	1.00	94.25	N
ATOM	316	CA	SER A 42	10.492	-11.617	-11.578	1.00	94.25	C
ATOM	317	C	SER A 42	9.312	-10.953	-10.875	1.00	94.25	C

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ATOM	318	CB	SER A 42	10.023	-12.883	-12.297	1.00	94.25	C
ATOM	319	O	SER A 42	9.172	-11.062	-9.656	1.00	94.25	O
ATOM	320	OG	SER A 42	11.086	-13.477	-13.023	1.00	94.25	O
ATOM	321	N	LEU A 43	8.477	-10.234	-11.586	1.00	93.94	N
ATOM	322	CA	LEU A 43	7.273	-9.555	-11.117	1.00	93.94	C
ATOM	323	C	LEU A 43	6.375	-10.516	-10.352	1.00	93.94	C
ATOM	324	CB	LEU A 43	6.508	-8.953	-12.297	1.00	93.94	C
ATOM	325	O	LEU A 43	5.883	-10.180	-9.273	1.00	93.94	O
ATOM	326	CG	LEU A 43	5.148	-8.328	-11.977	1.00	93.94	C
ATOM	327	CD1	LEU A 43	5.324	-7.133	-11.047	1.00	93.94	C
ATOM	328	CD2	LEU A 43	4.434	-7.914	-13.258	1.00	93.94	C
ATOM	329	N	GLU A 44	6.250	-11.680	-10.898	1.00	94.19	N
ATOM	330	CA	GLU A 44	5.355	-12.680	-10.312	1.00	94.19	C
ATOM	331	C	GLU A 44	5.793	-13.039	-8.898	1.00	94.19	C
ATOM	332	CB	GLU A 44	5.305	-13.930	-11.188	1.00	94.19	C
ATOM	333	O	GLU A 44	4.965	-13.141	-7.992	1.00	94.19	O
ATOM	334	CG	GLU A 44	4.582	-13.727	-12.508	1.00	94.19	C
ATOM	335	CD	GLU A 44	4.543	-14.977	-13.375	1.00	94.19	C
ATOM	336	OE1	GLU A 44	3.531	-15.719	-13.328	1.00	94.19	O
ATOM	337	OE2	GLU A 44	5.531	-15.227	-14.094	1.00	94.19	O
ATOM	338	N	GLU A 45	7.090	-13.320	-8.703	1.00	94.12	N
ATOM	339	CA	GLU A 45	7.613	-13.680	-7.387	1.00	94.12	C
ATOM	340	C	GLU A 45	7.418	-12.539	-6.387	1.00	94.12	C
ATOM	341	CB	GLU A 45	9.094	-14.047	-7.477	1.00	94.12	C
ATOM	342	O	GLU A 45	7.035	-12.773	-5.238	1.00	94.12	O
ATOM	343	CG	GLU A 45	9.352	-15.383	-8.164	1.00	94.12	C
ATOM	344	CD	GLU A 45	10.750	-15.922	-7.906	1.00	94.12	C
ATOM	345	OE1	GLU A 45	10.898	-16.859	-7.094	1.00	94.12	O
ATOM	346	OE2	GLU A 45	11.711	-15.406	-8.523	1.00	94.12	O
ATOM	347	N	ALA A 46	7.688	-11.344	-6.938	1.00	94.06	N
ATOM	348	CA	ALA A 46	7.492	-10.156	-6.109	1.00	94.06	C
ATOM	349	C	ALA A 46	6.027	-10.000	-5.703	1.00	94.06	C
ATOM	350	CB	ALA A 46	7.969	-8.906	-6.848	1.00	94.06	C
ATOM	351	O	ALA A 46	5.723	-9.703	-4.547	1.00	94.06	O
ATOM	352	N	LEU A 47	5.051	-10.242	-6.590	1.00	94.81	N
ATOM	353	CA	LEU A 47	3.621	-10.117	-6.332	1.00	94.81	C
ATOM	354	C	LEU A 47	3.162	-11.156	-5.309	1.00	94.81	C
ATOM	355	CB	LEU A 47	2.826	-10.281	-7.629	1.00	94.81	C
ATOM	356	O	LEU A 47	2.283	-10.875	-4.488	1.00	94.81	O
ATOM	357	CG	LEU A 47	2.982	-9.172	-8.664	1.00	94.81	C
ATOM	358	CD1	LEU A 47	2.127	-9.469	-9.898	1.00	94.81	C
ATOM	359	CD2	LEU A 47	2.613	-7.820	-8.062	1.00	94.81	C
ATOM	360	N	LYS A 48	3.750	-12.328	-5.367	1.00	94.25	N
ATOM	361	CA	LYS A 48	3.416	-13.359	-4.387	1.00	94.25	C
ATOM	362	C	LYS A 48	3.766	-12.906	-2.973	1.00	94.25	C
ATOM	363	CB	LYS A 48	4.141	-14.664	-4.715	1.00	94.25	C
ATOM	364	O	LYS A 48	2.998	-13.133	-2.035	1.00	94.25	O
ATOM	365	CG	LYS A 48	3.555	-15.422	-5.895	1.00	94.25	C
ATOM	366	CD	LYS A 48	4.273	-16.750	-6.125	1.00	94.25	C
ATOM	367	CE	LYS A 48	3.713	-17.484	-7.336	1.00	94.25	C
ATOM	368	NZ	LYS A 48	4.461	-18.750	-7.605	1.00	94.25	N
ATOM	369	N	GLU A 49	4.949	-12.273	-2.844	1.00	93.44	N
ATOM	370	CA	GLU A 49	5.367	-11.758	-1.545	1.00	93.44	C

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ATOM	371	C	GLU A 49	4.422	-10.664	-1.057	1.00	93.44	C
ATOM	372	CB	GLU A 49	6.801	-11.219	-1.615	1.00	93.44	C
ATOM	373	O	GLU A 49	4.066	-10.625	0.123	1.00	93.44	O
ATOM	374	CG	GLU A 49	7.852	-12.297	-1.803	1.00	93.44	C
ATOM	375	CD	GLU A 49	7.938	-13.266	-0.629	1.00	93.44	C
ATOM	376	OE1	GLU A 49	7.520	-14.438	-0.772	1.00	93.44	O
ATOM	377	OE2	GLU A 49	8.430	-12.844	0.443	1.00	93.44	O
ATOM	378	N	VAL A 50	4.055	-9.805	-1.987	1.00	93.38	N
ATOM	379	CA	VAL A 50	3.123	-8.727	-1.670	1.00	93.38	C
ATOM	380	C	VAL A 50	1.799	-9.312	-1.185	1.00	93.38	C
ATOM	381	CB	VAL A 50	2.883	-7.805	-2.889	1.00	93.38	C
ATOM	382	O	VAL A 50	1.246	-8.867	-0.177	1.00	93.38	O
ATOM	383	CG1	VAL A 50	1.734	-6.836	-2.615	1.00	93.38	C
ATOM	384	CG2	VAL A 50	4.160	-7.043	-3.238	1.00	93.38	C
ATOM	385	N	ASP A 51	1.277	-10.336	-1.811	1.00	94.38	N
ATOM	386	CA	ASP A 51	0.024	-10.977	-1.419	1.00	94.38	C
ATOM	387	C	ASP A 51	0.110	-11.531	0.001	1.00	94.38	C
ATOM	388	CB	ASP A 51	-0.338	-12.094	-2.400	1.00	94.38	C
ATOM	389	O	ASP A 51	-0.838	-11.414	0.779	1.00	94.38	O
ATOM	390	CG	ASP A 51	-0.950	-11.578	-3.689	1.00	94.38	C
ATOM	391	OD1	ASP A 51	-1.696	-10.570	-3.650	1.00	94.38	O
ATOM	392	OD2	ASP A 51	-0.684	-12.172	-4.754	1.00	94.38	O
ATOM	393	N	LYS A 52	1.239	-12.141	0.311	1.00	93.69	N
ATOM	394	CA	LYS A 52	1.437	-12.688	1.649	1.00	93.69	C
ATOM	395	C	LYS A 52	1.388	-11.594	2.707	1.00	93.69	C
ATOM	396	CB	LYS A 52	2.768	-13.438	1.732	1.00	93.69	C
ATOM	397	O	LYS A 52	0.765	-11.758	3.756	1.00	93.69	O
ATOM	398	CG	LYS A 52	2.781	-14.766	0.985	1.00	93.69	C
ATOM	399	CD	LYS A 52	4.113	-15.484	1.149	1.00	93.69	C
ATOM	400	CE	LYS A 52	4.145	-16.781	0.360	1.00	93.69	C
ATOM	401	NZ	LYS A 52	5.469	-17.469	0.466	1.00	93.69	N
ATOM	402	N	GLU A 53	2.010	-10.477	2.322	1.00	93.56	N
ATOM	403	CA	GLU A 53	2.049	-9.352	3.256	1.00	93.56	C
ATOM	404	C	GLU A 53	0.668	-8.727	3.424	1.00	93.56	C
ATOM	405	CB	GLU A 53	3.053	-8.297	2.787	1.00	93.56	C
ATOM	406	O	GLU A 53	0.279	-8.359	4.535	1.00	93.56	O
ATOM	407	CG	GLU A 53	4.496	-8.781	2.775	1.00	93.56	C
ATOM	408	CD	GLU A 53	5.020	-9.141	4.156	1.00	93.56	C
ATOM	409	OE1	GLU A 53	5.113	-10.352	4.477	1.00	93.56	O
ATOM	410	OE2	GLU A 53	5.336	-8.211	4.930	1.00	93.56	O
ATOM	411	N	ILE A 54	-0.129	-8.547	2.367	1.00	93.00	N
ATOM	412	CA	ILE A 54	-1.465	-7.961	2.379	1.00	93.00	C
ATOM	413	C	ILE A 54	-2.379	-8.781	3.289	1.00	93.00	C
ATOM	414	CB	ILE A 54	-2.061	-7.875	0.956	1.00	93.00	C
ATOM	415	O	ILE A 54	-3.170	-8.219	4.051	1.00	93.00	O
ATOM	416	CG1	ILE A 54	-1.276	-6.871	0.107	1.00	93.00	C
ATOM	417	CG2	ILE A 54	-3.545	-7.508	1.012	1.00	93.00	C
ATOM	418	CD1	ILE A 54	-1.275	-5.453	0.669	1.00	93.00	C
ATOM	419	N	GLU A 55	-2.271	-10.062	3.209	1.00	93.38	N
ATOM	420	CA	GLU A 55	-3.084	-10.930	4.062	1.00	93.38	C
ATOM	421	C	GLU A 55	-2.783	-10.680	5.539	1.00	93.38	C
ATOM	422	CB	GLU A 55	-2.854	-12.398	3.717	1.00	93.38	C
ATOM	423	O	GLU A 55	-3.695	-10.641	6.367	1.00	93.38	O

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ATOM	424	CG	GLU A 55	-3.455	-12.820	2.383	1.00	93.38	C
ATOM	425	CD	GLU A 55	-4.977	-12.805	2.381	1.00	93.38	C
ATOM	426	OE1	GLU A 55	-5.574	-11.953	1.684	1.00	93.38	O
ATOM	427	OE2	GLU A 55	-5.574	-13.656	3.082	1.00	93.38	O
ATOM	428	N	LYS A 56	-1.523	-10.562	5.828	1.00	93.38	N
ATOM	429	CA	LYS A 56	-1.120	-10.289	7.203	1.00	93.38	C
ATOM	430	C	LYS A 56	-1.647	-8.930	7.668	1.00	93.38	C
ATOM	431	CB	LYS A 56	0.403	-10.328	7.336	1.00	93.38	C
ATOM	432	O	LYS A 56	-2.129	-8.797	8.797	1.00	93.38	O
ATOM	433	CG	LYS A 56	1.000	-11.719	7.176	1.00	93.38	C
ATOM	434	CD	LYS A 56	2.512	-11.703	7.363	1.00	93.38	C
ATOM	435	CE	LYS A 56	3.119	-13.078	7.117	1.00	93.38	C
ATOM	436	NZ	LYS A 56	4.602	-13.062	7.297	1.00	93.38	N
ATOM	437	N	ILE A 57	-1.605	-7.914	6.812	1.00	92.69	N
ATOM	438	CA	ILE A 57	-2.074	-6.566	7.113	1.00	92.69	C
ATOM	439	C	ILE A 57	-3.570	-6.598	7.418	1.00	92.69	C
ATOM	440	CB	ILE A 57	-1.781	-5.590	5.953	1.00	92.69	C
ATOM	441	O	ILE A 57	-4.027	-5.988	8.391	1.00	92.69	O
ATOM	442	CG1	ILE A 57	-0.270	-5.418	5.770	1.00	92.69	C
ATOM	443	CG2	ILE A 57	-2.463	-4.242	6.195	1.00	92.69	C
ATOM	444	CD1	ILE A 57	0.122	-4.738	4.461	1.00	92.69	C
ATOM	445	N	LYS A 58	-4.316	-7.312	6.664	1.00	91.44	N
ATOM	446	CA	LYS A 58	-5.758	-7.441	6.855	1.00	91.44	C
ATOM	447	C	LYS A 58	-6.078	-8.008	8.234	1.00	91.44	C
ATOM	448	CB	LYS A 58	-6.371	-8.328	5.773	1.00	91.44	C
ATOM	449	O	LYS A 58	-6.965	-7.504	8.930	1.00	91.44	O
ATOM	450	CG	LYS A 58	-7.895	-8.344	5.770	1.00	91.44	C
ATOM	451	CD	LYS A 58	-8.445	-9.156	4.605	1.00	91.44	C
ATOM	452	CE	LYS A 58	-9.961	-9.250	4.652	1.00	91.44	C
ATOM	453	NZ	LYS A 58	-10.500	-10.109	3.561	1.00	91.44	N
ATOM	454	N	LYS A 59	-5.398	-8.992	8.648	1.00	92.38	N
ATOM	455	CA	LYS A 59	-5.641	-9.656	9.922	1.00	92.38	C
ATOM	456	C	LYS A 59	-5.137	-8.812	11.094	1.00	92.38	C
ATOM	457	CB	LYS A 59	-4.969	-11.031	9.945	1.00	92.38	C
ATOM	458	O	LYS A 59	-5.812	-8.695	12.117	1.00	92.38	O
ATOM	459	CG	LYS A 59	-5.625	-12.055	9.031	1.00	92.38	C
ATOM	460	CD	LYS A 59	-4.934	-13.414	9.125	1.00	92.38	C
ATOM	461	CE	LYS A 59	-5.559	-14.422	8.172	1.00	92.38	C
ATOM	462	NZ	LYS A 59	-4.844	-15.734	8.211	1.00	92.38	N
ATOM	463	N	ASP A 60	-4.012	-8.180	10.867	1.00	93.88	N
ATOM	464	CA	ASP A 60	-3.342	-7.469	11.945	1.00	93.88	C
ATOM	465	C	ASP A 60	-4.094	-6.191	12.312	1.00	93.88	C
ATOM	466	CB	ASP A 60	-1.899	-7.133	11.555	1.00	93.88	C
ATOM	467	O	ASP A 60	-4.137	-5.801	13.484	1.00	93.88	O
ATOM	468	CG	ASP A 60	-0.965	-8.328	11.664	1.00	93.88	C
ATOM	469	OD1	ASP A 60	-1.407	-9.414	12.102	1.00	93.88	O
ATOM	470	OD2	ASP A 60	0.226	-8.180	11.312	1.00	93.88	O
ATOM	471	N	ILE A 61	-4.711	-5.535	11.289	1.00	89.94	N
ATOM	472	CA	ILE A 61	-5.383	-4.266	11.555	1.00	89.94	C
ATOM	473	C	ILE A 61	-6.586	-4.496	12.469	1.00	89.94	C
ATOM	474	CB	ILE A 61	-5.828	-3.586	10.242	1.00	89.94	C
ATOM	475	O	ILE A 61	-6.961	-3.613	13.234	1.00	89.94	O
ATOM	476	CG1	ILE A 61	-6.395	-2.189	10.523	1.00	89.94	C

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ATOM	477	CG2 ILE A 61	-6.859	-4.449	9.508	1.00	89.94	C
ATOM	478	CD1 ILE A 61	-5.402	-1.250	11.203	1.00	89.94	C
ATOM	479	N LYS A 62	-7.102	-5.609	12.461	1.00	88.00	N
ATOM	480	CA LYS A 62	-8.227	-5.945	13.328	1.00	88.00	C
ATOM	481	C LYS A 62	-7.777	-6.145	14.766	1.00	88.00	C
ATOM	482	CB LYS A 62	-8.938	-7.203	12.820	1.00	88.00	C
ATOM	483	O LYS A 62	-8.570	-6.012	15.703	1.00	88.00	O
ATOM	484	CG LYS A 62	-9.641	-7.023	11.484	1.00	88.00	C
ATOM	485	CD LYS A 62	-10.391	-8.281	11.070	1.00	88.00	C
ATOM	486	CE LYS A 62	-11.078	-8.109	9.727	1.00	88.00	C
ATOM	487	NZ LYS A 62	-11.844	-9.328	9.328	1.00	88.00	N
ATOM	488	N LYS A 63	-6.480	-6.461	14.883	1.00	91.06	N
ATOM	489	CA LYS A 63	-5.926	-6.730	16.203	1.00	91.06	C
ATOM	490	C LYS A 63	-5.363	-5.461	16.844	1.00	91.06	C
ATOM	491	CB LYS A 63	-4.840	-7.805	16.125	1.00	91.06	C
ATOM	492	O LYS A 63	-5.340	-5.328	18.062	1.00	91.06	O
ATOM	493	CG LYS A 63	-5.344	-9.164	15.672	1.00	91.06	C
ATOM	494	CD LYS A 63	-4.227	-10.195	15.656	1.00	91.06	C
ATOM	495	CE LYS A 63	-4.730	-11.562	15.203	1.00	91.06	C
ATOM	496	NZ LYS A 63	-3.635	-12.578	15.172	1.00	91.06	N
ATOM	497	N GLY A 64	-5.012	-4.562	15.961	1.00	92.06	N
ATOM	498	CA GLY A 64	-4.391	-3.336	16.438	1.00	92.06	C
ATOM	499	C GLY A 64	-3.631	-2.592	15.352	1.00	92.06	C
ATOM	500	O GLY A 64	-3.938	-2.729	14.164	1.00	92.06	O
ATOM	501	N ASP A 65	-2.711	-1.724	15.836	1.00	93.69	N
ATOM	502	CA ASP A 65	-1.854	-0.938	14.953	1.00	93.69	C
ATOM	503	C ASP A 65	-0.948	-1.843	14.117	1.00	93.69	C
ATOM	504	CB ASP A 65	-1.010	0.048	15.758	1.00	93.69	C
ATOM	505	O ASP A 65	-0.377	-2.805	14.633	1.00	93.69	O
ATOM	506	CG ASP A 65	-1.849	1.021	16.578	1.00	93.69	C
ATOM	507	OD1 ASP A 65	-2.238	2.080	16.031	1.00	93.69	O
ATOM	508	OD2 ASP A 65	-2.119	0.724	17.750	1.00	93.69	O
ATOM	509	N VAL A 66	-0.883	-1.457	12.867	1.00	93.31	N
ATOM	510	CA VAL A 66	-0.092	-2.283	11.961	1.00	93.31	C
ATOM	511	C VAL A 66	0.973	-1.429	11.281	1.00	93.31	C
ATOM	512	CB VAL A 66	-0.980	-2.975	10.906	1.00	93.31	C
ATOM	513	O VAL A 66	0.700	-0.301	10.859	1.00	93.31	O
ATOM	514	CG1 VAL A 66	-0.127	-3.775	9.922	1.00	93.31	C
ATOM	515	CG2 VAL A 66	-2.012	-3.875	11.578	1.00	93.31	C
ATOM	516	N GLU A 67	2.195	-1.947	11.336	1.00	94.69	N
ATOM	517	CA GLU A 67	3.312	-1.349	10.609	1.00	94.69	C
ATOM	518	C GLU A 67	4.125	-2.410	9.875	1.00	94.69	C
ATOM	519	CB GLU A 67	4.215	-0.563	11.570	1.00	94.69	C
ATOM	520	O GLU A 67	4.668	-3.326	10.500	1.00	94.69	O
ATOM	521	CG GLU A 67	5.316	0.221	10.867	1.00	94.69	C
ATOM	522	CD GLU A 67	6.195	1.006	11.828	1.00	94.69	C
ATOM	523	OE1 GLU A 67	7.121	0.413	12.430	1.00	94.69	O
ATOM	524	OE2 GLU A 67	5.957	2.225	11.984	1.00	94.69	O
ATOM	525	N TYR A 68	4.148	-2.186	8.469	1.00	94.06	N
ATOM	526	CA TYR A 68	4.883	-3.146	7.656	1.00	94.06	C
ATOM	527	C TYR A 68	5.938	-2.449	6.809	1.00	94.06	C
ATOM	528	CB TYR A 68	3.926	-3.934	6.758	1.00	94.06	C
ATOM	529	O TYR A 68	5.672	-1.403	6.211	1.00	94.06	O

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ATOM	530	CG TYR A 68	3.170	-5.020	7.484	1.00	94.06	C
ATOM	531	CD1 TYR A 68	3.650	-6.328	7.512	1.00	94.06	C
ATOM	532	CD2 TYR A 68	1.974	-4.742	8.133	1.00	94.06	C
ATOM	533	CE1 TYR A 68	2.955	-7.336	8.180	1.00	94.06	C
ATOM	534	CE2 TYR A 68	1.271	-5.742	8.805	1.00	94.06	C
ATOM	535	OH TYR A 68	1.078	-8.023	9.477	1.00	94.06	O
ATOM	536	CZ TYR A 68	1.770	-7.031	8.820	1.00	94.06	C
ATOM	537	N ASP A 69	7.129	-2.986	6.879	1.00	94.75	N
ATOM	538	CA ASP A 69	8.219	-2.578	6.000	1.00	94.75	C
ATOM	539	C ASP A 69	8.562	-3.684	5.004	1.00	94.75	C
ATOM	540	CB ASP A 69	9.461	-2.203	6.816	1.00	94.75	C
ATOM	541	O ASP A 69	9.078	-4.734	5.387	1.00	94.75	O
ATOM	542	CG ASP A 69	10.531	-1.511	5.988	1.00	94.75	C
ATOM	543	OD1 ASP A 69	11.492	-2.178	5.559	1.00	94.75	O
ATOM	544	OD2 ASP A 69	10.406	-0.286	5.770	1.00	94.75	O
ATOM	545	N ILE A 70	8.195	-3.369	3.789	1.00	93.69	N
ATOM	546	CA ILE A 70	8.359	-4.395	2.764	1.00	93.69	C
ATOM	547	C ILE A 70	9.461	-3.977	1.793	1.00	93.69	C
ATOM	548	CB ILE A 70	7.039	-4.648	2.000	1.00	93.69	C
ATOM	549	O ILE A 70	9.422	-2.879	1.235	1.00	93.69	O
ATOM	550	CG1 ILE A 70	5.914	-5.000	2.980	1.00	93.69	C
ATOM	551	CG2 ILE A 70	7.227	-5.758	0.959	1.00	93.69	C
ATOM	552	CD1 ILE A 70	4.523	-4.941	2.371	1.00	93.69	C
ATOM	553	N GLU A 71	10.414	-4.867	1.660	1.00	94.31	N
ATOM	554	CA GLU A 71	11.500	-4.660	0.707	1.00	94.31	C
ATOM	555	C GLU A 71	11.539	-5.773	-0.335	1.00	94.31	C
ATOM	556	CB GLU A 71	12.844	-4.570	1.433	1.00	94.31	C
ATOM	557	O GLU A 71	11.648	-6.949	0.013	1.00	94.31	O
ATOM	558	CG GLU A 71	13.992	-4.094	0.551	1.00	94.31	C
ATOM	559	CD GLU A 71	15.266	-3.822	1.324	1.00	94.31	C
ATOM	560	OE1 GLU A 71	16.031	-4.777	1.590	1.00	94.31	O
ATOM	561	OE2 GLU A 71	15.516	-2.643	1.668	1.00	94.31	O
ATOM	562	N LEU A 72	11.406	-5.293	-1.595	1.00	95.12	N
ATOM	563	CA LEU A 72	11.422	-6.270	-2.680	1.00	95.12	C
ATOM	564	C LEU A 72	12.406	-5.855	-3.766	1.00	95.12	C
ATOM	565	CB LEU A 72	10.023	-6.426	-3.279	1.00	95.12	C
ATOM	566	O LEU A 72	12.781	-4.684	-3.859	1.00	95.12	O
ATOM	567	CG LEU A 72	8.922	-6.883	-2.322	1.00	95.12	C
ATOM	568	CD1 LEU A 72	7.551	-6.742	-2.980	1.00	95.12	C
ATOM	569	CD2 LEU A 72	9.156	-8.320	-1.878	1.00	95.12	C
ATOM	570	N THR A 73	12.914	-6.898	-4.480	1.00	95.31	N
ATOM	571	CA THR A 73	13.758	-6.652	-5.648	1.00	95.31	C
ATOM	572	C THR A 73	13.117	-7.223	-6.910	1.00	95.31	C
ATOM	573	CB THR A 73	15.156	-7.262	-5.461	1.00	95.31	C
ATOM	574	O THR A 73	12.562	-8.328	-6.887	1.00	95.31	O
ATOM	575	CG2 THR A 73	15.898	-6.594	-4.305	1.00	95.31	C
ATOM	576	OG1 THR A 73	15.031	-8.664	-5.191	1.00	95.31	O
ATOM	577	N VAL A 74	13.031	-6.340	-8.062	1.00	96.00	N
ATOM	578	CA VAL A 74	12.422	-6.785	-9.312	1.00	96.00	C
ATOM	579	C VAL A 74	13.383	-6.551	-10.469	1.00	96.00	C
ATOM	580	CB VAL A 74	11.078	-6.059	-9.578	1.00	96.00	C
ATOM	581	O VAL A 74	14.430	-5.910	-10.297	1.00	96.00	O
ATOM	582	CG1 VAL A 74	10.047	-6.426	-8.516	1.00	96.00	C

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ATOM	583	CG2 VAL A 74	11.297	-4.547	-9.625	1.00	96.00	C
ATOM	584	N LYS A 75	13.062	-7.074	-11.617	1.00	94.12	N
ATOM	585	CA LYS A 75	13.984	-7.102	-12.750	1.00	94.12	C
ATOM	586	C LYS A 75	14.062	-5.734	-13.430	1.00	94.12	C
ATOM	587	CB LYS A 75	13.562	-8.164	-13.758	1.00	94.12	C
ATOM	588	O LYS A 75	15.102	-5.367	-13.977	1.00	94.12	O
ATOM	589	CG LYS A 75	13.836	-9.594	-13.312	1.00	94.12	C
ATOM	590	CD LYS A 75	13.555	-10.594	-14.422	1.00	94.12	C
ATOM	591	CE LYS A 75	13.820	-12.023	-13.969	1.00	94.12	C
ATOM	592	NZ LYS A 75	13.664	-13.000	-15.094	1.00	94.12	N
ATOM	593	N SER A 76	13.016	-5.074	-13.305	1.00	94.25	N
ATOM	594	CA SER A 76	12.969	-3.826	-14.062	1.00	94.25	C
ATOM	595	C SER A 76	12.180	-2.758	-13.312	1.00	94.25	C
ATOM	596	CB SER A 76	12.359	-4.055	-15.445	1.00	94.25	C
ATOM	597	O SER A 76	11.406	-3.070	-12.406	1.00	94.25	O
ATOM	598	OG SER A 76	11.000	-4.445	-15.328	1.00	94.25	O
ATOM	599	N MET A 77	12.430	-1.511	-13.680	1.00	93.19	N
ATOM	600	CA MET A 77	11.695	-0.377	-13.125	1.00	93.19	C
ATOM	601	C MET A 77	10.203	-0.503	-13.398	1.00	93.19	C
ATOM	602	CB MET A 77	12.227	0.939	-13.695	1.00	93.19	C
ATOM	603	O MET A 77	9.375	-0.183	-12.539	1.00	93.19	O
ATOM	604	CG MET A 77	11.594	2.176	-13.078	1.00	93.19	C
ATOM	605	SD MET A 77	11.906	2.295	-11.273	1.00	93.19	S
ATOM	606	CE MET A 77	12.641	3.949	-11.180	1.00	93.19	C
ATOM	607	N GLU A 78	9.883	-0.913	-14.570	1.00	92.94	N
ATOM	608	CA GLU A 78	8.477	-1.134	-14.914	1.00	92.94	C
ATOM	609	C GLU A 78	7.820	-2.107	-13.945	1.00	92.94	C
ATOM	610	CB GLU A 78	8.352	-1.654	-16.344	1.00	92.94	C
ATOM	611	O GLU A 78	6.691	-1.883	-13.500	1.00	92.94	O
ATOM	612	CG GLU A 78	6.918	-1.753	-16.844	1.00	92.94	C
ATOM	613	CD GLU A 78	6.809	-2.252	-18.281	1.00	92.94	C
ATOM	614	OE1 GLU A 78	6.816	-3.486	-18.484	1.00	92.94	O
ATOM	615	OE2 GLU A 78	6.715	-1.403	-19.188	1.00	92.94	O
ATOM	616	N ASP A 79	8.531	-3.186	-13.664	1.00	95.19	N
ATOM	617	CA ASP A 79	8.023	-4.172	-12.719	1.00	95.19	C
ATOM	618	C ASP A 79	7.902	-3.578	-11.312	1.00	95.19	C
ATOM	619	CB ASP A 79	8.930	-5.406	-12.688	1.00	95.19	C
ATOM	620	O ASP A 79	6.949	-3.867	-10.594	1.00	95.19	O
ATOM	621	CG ASP A 79	8.812	-6.254	-13.938	1.00	95.19	C
ATOM	622	OD1 ASP A 79	7.855	-6.062	-14.719	1.00	95.19	O
ATOM	623	OD2 ASP A 79	9.680	-7.129	-14.148	1.00	95.19	O
ATOM	624	N ALA A 80	8.953	-2.824	-10.984	1.00	94.88	N
ATOM	625	CA ALA A 80	8.922	-2.148	-9.695	1.00	94.88	C
ATOM	626	C ALA A 80	7.676	-1.276	-9.555	1.00	94.88	C
ATOM	627	CB ALA A 80	10.180	-1.305	-9.500	1.00	94.88	C
ATOM	628	O ALA A 80	7.008	-1.292	-8.523	1.00	94.88	O
ATOM	629	N LEU A 81	7.301	-0.509	-10.609	1.00	94.62	N
ATOM	630	CA LEU A 81	6.129	0.358	-10.617	1.00	94.62	C
ATOM	631	C LEU A 81	4.844	-0.460	-10.500	1.00	94.62	C
ATOM	632	CB LEU A 81	6.094	1.203	-11.891	1.00	94.62	C
ATOM	633	O LEU A 81	3.924	-0.081	-9.773	1.00	94.62	O
ATOM	634	CG LEU A 81	7.176	2.277	-12.023	1.00	94.62	C
ATOM	635	CD1 LEU A 81	7.172	2.871	-13.422	1.00	94.62	C

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ATOM	636	CD2 LEU A 81	6.973	3.369	-10.977	1.00	94.62	C
ATOM	637	N LYS A 82	4.809	-1.568	-11.227	1.00	94.94	N
ATOM	638	CA LYS A 82	3.639	-2.441	-11.180	1.00	94.94	C
ATOM	639	C LYS A 82	3.445	-3.033	-9.789	1.00	94.94	C
ATOM	640	CB LYS A 82	3.768	-3.562	-12.211	1.00	94.94	C
ATOM	641	O LYS A 82	2.316	-3.139	-9.305	1.00	94.94	O
ATOM	642	CG LYS A 82	3.600	-3.102	-13.656	1.00	94.94	C
ATOM	643	CD LYS A 82	3.697	-4.270	-14.625	1.00	94.94	C
ATOM	644	CE LYS A 82	3.555	-3.805	-16.078	1.00	94.94	C
ATOM	645	NZ LYS A 82	3.723	-4.934	-17.031	1.00	94.94	N
ATOM	646	N VAL A 83	4.562	-3.475	-9.156	1.00	95.06	N
ATOM	647	CA VAL A 83	4.496	-4.047	-7.816	1.00	95.06	C
ATOM	648	C VAL A 83	3.990	-2.992	-6.832	1.00	95.06	C
ATOM	649	CB VAL A 83	5.867	-4.586	-7.359	1.00	95.06	C
ATOM	650	O VAL A 83	3.111	-3.270	-6.016	1.00	95.06	O
ATOM	651	CG1 VAL A 83	5.836	-4.957	-5.879	1.00	95.06	C
ATOM	652	CG2 VAL A 83	6.273	-5.793	-8.211	1.00	95.06	C
ATOM	653	N ALA A 84	4.566	-1.803	-6.910	1.00	94.56	N
ATOM	654	CA ALA A 84	4.148	-0.708	-6.039	1.00	94.56	C
ATOM	655	C ALA A 84	2.668	-0.395	-6.223	1.00	94.56	C
ATOM	656	CB ALA A 84	4.992	0.537	-6.305	1.00	94.56	C
ATOM	657	O ALA A 84	1.938	-0.216	-5.246	1.00	94.56	O
ATOM	658	N GLU A 85	2.188	-0.296	-7.453	1.00	93.50	N
ATOM	659	CA GLU A 85	0.787	-0.028	-7.762	1.00	93.50	C
ATOM	660	C GLU A 85	-0.116	-1.146	-7.246	1.00	93.50	C
ATOM	661	CB GLU A 85	0.594	0.153	-9.266	1.00	93.50	C
ATOM	662	O GLU A 85	-1.194	-0.882	-6.711	1.00	93.50	O
ATOM	663	CG GLU A 85	1.151	1.462	-9.805	1.00	93.50	C
ATOM	664	CD GLU A 85	0.868	1.671	-11.289	1.00	93.50	C
ATOM	665	OE1 GLU A 85	-0.098	2.393	-11.625	1.00	93.50	O
ATOM	666	OE2 GLU A 85	1.617	1.107	-12.117	1.00	93.50	O
ATOM	667	N TYR A 86	0.396	-2.291	-7.488	1.00	95.31	N
ATOM	668	CA TYR A 86	-0.361	-3.451	-7.027	1.00	95.31	C
ATOM	669	C TYR A 86	-0.567	-3.404	-5.520	1.00	95.31	C
ATOM	670	CB TYR A 86	0.354	-4.746	-7.418	1.00	95.31	C
ATOM	671	O TYR A 86	-1.683	-3.605	-5.031	1.00	95.31	O
ATOM	672	CG TYR A 86	-0.419	-5.996	-7.066	1.00	95.31	C
ATOM	673	CD1 TYR A 86	-0.097	-6.742	-5.934	1.00	95.31	C
ATOM	674	CD2 TYR A 86	-1.471	-6.434	-7.863	1.00	95.31	C
ATOM	675	CE1 TYR A 86	-0.805	-7.895	-5.605	1.00	95.31	C
ATOM	676	CE2 TYR A 86	-2.186	-7.582	-7.547	1.00	95.31	C
ATOM	677	OH TYR A 86	-2.551	-9.445	-6.098	1.00	95.31	O
ATOM	678	CZ TYR A 86	-1.846	-8.305	-6.418	1.00	95.31	C
ATOM	679	N LEU A 87	0.537	-3.221	-4.738	1.00	94.62	N
ATOM	680	CA LEU A 87	0.458	-3.121	-3.283	1.00	94.62	C
ATOM	681	C LEU A 87	-0.444	-1.965	-2.865	1.00	94.62	C
ATOM	682	CB LEU A 87	1.854	-2.938	-2.684	1.00	94.62	C
ATOM	683	O LEU A 87	-1.273	-2.113	-1.965	1.00	94.62	O
ATOM	684	CG LEU A 87	1.931	-2.848	-1.158	1.00	94.62	C
ATOM	685	CD1 LEU A 87	1.780	-4.234	-0.538	1.00	94.62	C
ATOM	686	CD2 LEU A 87	3.242	-2.201	-0.724	1.00	94.62	C
ATOM	687	N GLU A 88	-0.330	-0.788	-3.525	1.00	93.50	N
ATOM	688	CA GLU A 88	-1.143	0.387	-3.225	1.00	93.50	C

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ATOM	689	C	GLU A 88	-2.631	0.069	-3.326	1.00	93.50	C
ATOM	690	CB	GLU A 88	-0.786	1.542	-4.164	1.00	93.50	C
ATOM	691	O	GLU A 88	-3.404	0.388	-2.420	1.00	93.50	O
ATOM	692	CG	GLU A 88	-1.621	2.795	-3.943	1.00	93.50	C
ATOM	693	CD	GLU A 88	-1.341	3.891	-4.961	1.00	93.50	C
ATOM	694	OE1	GLU A 88	-2.254	4.242	-5.742	1.00	93.50	O
ATOM	695	OE2	GLU A 88	-0.198	4.402	-4.977	1.00	93.50	O
ATOM	696	N	LYS A 89	-3.061	-0.585	-4.422	1.00	94.38	N
ATOM	697	CA	LYS A 89	-4.469	-0.901	-4.648	1.00	94.38	C
ATOM	698	C	LYS A 89	-4.984	-1.889	-3.605	1.00	94.38	C
ATOM	699	CB	LYS A 89	-4.672	-1.468	-6.055	1.00	94.38	C
ATOM	700	O	LYS A 89	-6.090	-1.727	-3.084	1.00	94.38	O
ATOM	701	CG	LYS A 89	-4.551	-0.433	-7.164	1.00	94.38	C
ATOM	702	CD	LYS A 89	-4.836	-1.041	-8.531	1.00	94.38	C
ATOM	703	CE	LYS A 89	-4.715	-0.006	-9.641	1.00	94.38	C
ATOM	704	NZ	LYS A 89	-4.965	-0.604	-10.984	1.00	94.38	N
ATOM	705	N	LYS A 90	-4.137	-2.816	-3.309	1.00	94.38	N
ATOM	706	CA	LYS A 90	-4.570	-3.840	-2.361	1.00	94.38	C
ATOM	707	C	LYS A 90	-4.676	-3.271	-0.948	1.00	94.38	C
ATOM	708	CB	LYS A 90	-3.605	-5.027	-2.375	1.00	94.38	C
ATOM	709	O	LYS A 90	-5.629	-3.568	-0.225	1.00	94.38	O
ATOM	710	CG	LYS A 90	-3.674	-5.863	-3.645	1.00	94.38	C
ATOM	711	CD	LYS A 90	-4.930	-6.727	-3.678	1.00	94.38	C
ATOM	712	CE	LYS A 90	-4.906	-7.707	-4.844	1.00	94.38	C
ATOM	713	NZ	LYS A 90	-6.129	-8.570	-4.867	1.00	94.38	N
ATOM	714	N	VAL A 91	-3.654	-2.592	-0.550	1.00	94.31	N
ATOM	715	CA	VAL A 91	-3.666	-1.985	0.776	1.00	94.31	C
ATOM	716	C	VAL A 91	-4.828	-0.999	0.883	1.00	94.31	C
ATOM	717	CB	VAL A 91	-2.332	-1.272	1.086	1.00	94.31	C
ATOM	718	O	VAL A 91	-5.508	-0.941	1.909	1.00	94.31	O
ATOM	719	CG1	VAL A 91	-2.439	-0.461	2.377	1.00	94.31	C
ATOM	720	CG2	VAL A 91	-1.194	-2.289	1.184	1.00	94.31	C
ATOM	721	N	GLU A 92	-5.082	-0.220	-0.135	1.00	93.31	N
ATOM	722	CA	GLU A 92	-6.199	0.719	-0.167	1.00	93.31	C
ATOM	723	C	GLU A 92	-7.531	0.003	0.052	1.00	93.31	C
ATOM	724	CB	GLU A 92	-6.223	1.480	-1.495	1.00	93.31	C
ATOM	725	O	GLU A 92	-8.391	0.495	0.782	1.00	93.31	O
ATOM	726	CG	GLU A 92	-7.203	2.646	-1.518	1.00	93.31	C
ATOM	727	CD	GLU A 92	-7.125	3.469	-2.793	1.00	93.31	C
ATOM	728	OE1	GLU A 92	-7.770	3.094	-3.799	1.00	93.31	O
ATOM	729	OE2	GLU A 92	-6.414	4.496	-2.789	1.00	93.31	O
ATOM	730	N	LYS A 93	-7.656	-1.079	-0.619	1.00	94.19	N
ATOM	731	CA	LYS A 93	-8.875	-1.868	-0.455	1.00	94.19	C
ATOM	732	C	LYS A 93	-9.039	-2.334	0.989	1.00	94.19	C
ATOM	733	CB	LYS A 93	-8.859	-3.074	-1.396	1.00	94.19	C
ATOM	734	O	LYS A 93	-10.141	-2.314	1.533	1.00	94.19	O
ATOM	735	CG	LYS A 93	-9.195	-2.732	-2.842	1.00	94.19	C
ATOM	736	CD	LYS A 93	-9.312	-3.986	-3.699	1.00	94.19	C
ATOM	737	CE	LYS A 93	-9.617	-3.645	-5.152	1.00	94.19	C
ATOM	738	NZ	LYS A 93	-9.711	-4.867	-6.000	1.00	94.19	N
ATOM	739	N	VAL A 94	-7.961	-2.830	1.579	1.00	93.62	N
ATOM	740	CA	VAL A 94	-7.984	-3.266	2.971	1.00	93.62	C
ATOM	741	C	VAL A 94	-8.398	-2.104	3.869	1.00	93.62	C

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ATOM	742	CB	VAL	A	94	-6.609	-3.814	3.416	1.00	93.62	C
ATOM	743	O	VAL	A	94	-9.250	-2.268	4.754	1.00	93.62	O
ATOM	744	CG1	VAL	A	94	-6.602	-4.102	4.918	1.00	93.62	C
ATOM	745	CG2	VAL	A	94	-6.258	-5.074	2.627	1.00	93.62	C
ATOM	746	N	ILE	A	95	-7.887	-0.925	3.666	1.00	93.25	N
ATOM	747	CA	ILE	A	95	-8.172	0.267	4.457	1.00	93.25	C
ATOM	748	C	ILE	A	95	-9.633	0.664	4.277	1.00	93.25	C
ATOM	749	CB	ILE	A	95	-7.246	1.440	4.066	1.00	93.25	C
ATOM	750	O	ILE	A	95	-10.328	0.962	5.254	1.00	93.25	O
ATOM	751	CG1	ILE	A	95	-5.801	1.136	4.469	1.00	93.25	C
ATOM	752	CG2	ILE	A	95	-7.730	2.744	4.707	1.00	93.25	C
ATOM	753	CD1	ILE	A	95	-4.770	2.045	3.814	1.00	93.25	C
ATOM	754	N	GLU	A	96	-10.102	0.666	3.055	1.00	92.88	N
ATOM	755	CA	GLU	A	96	-11.484	1.015	2.760	1.00	92.88	C
ATOM	756	C	GLU	A	96	-12.453	0.055	3.445	1.00	92.88	C
ATOM	757	CB	GLU	A	96	-11.727	1.018	1.249	1.00	92.88	C
ATOM	758	O	GLU	A	96	-13.469	0.481	4.000	1.00	92.88	O
ATOM	759	CG	GLU	A	96	-11.062	2.174	0.520	1.00	92.88	C
ATOM	760	CD	GLU	A	96	-11.383	2.213	-0.966	1.00	92.88	C
ATOM	761	OE1	GLU	A	96	-11.672	3.309	-1.494	1.00	92.88	O
ATOM	762	OE2	GLU	A	96	-11.336	1.138	-1.606	1.00	92.88	O
ATOM	763	N	GLU	A	97	-12.117	-1.215	3.316	1.00	93.50	N
ATOM	764	CA	GLU	A	97	-12.969	-2.227	3.938	1.00	93.50	C
ATOM	765	C	GLU	A	97	-13.000	-2.068	5.453	1.00	93.50	C
ATOM	766	CB	GLU	A	97	-12.492	-3.633	3.564	1.00	93.50	C
ATOM	767	O	GLU	A	97	-14.062	-2.158	6.074	1.00	93.50	O
ATOM	768	CG	GLU	A	97	-12.742	-4.000	2.109	1.00	93.50	C
ATOM	769	CD	GLU	A	97	-12.508	-5.477	1.815	1.00	93.50	C
ATOM	770	OE1	GLU	A	97	-13.469	-6.172	1.413	1.00	93.50	O
ATOM	771	OE2	GLU	A	97	-11.359	-5.938	1.990	1.00	93.50	O
ATOM	772	N	TYR	A	98	-11.812	-1.882	5.957	1.00	93.00	N
ATOM	773	CA	TYR	A	98	-11.727	-1.678	7.398	1.00	93.00	C
ATOM	774	C	TYR	A	98	-12.469	-0.415	7.820	1.00	93.00	C
ATOM	775	CB	TYR	A	98	-10.258	-1.594	7.840	1.00	93.00	C
ATOM	776	O	TYR	A	98	-13.172	-0.409	8.828	1.00	93.00	O
ATOM	777	CG	TYR	A	98	-10.086	-1.460	9.336	1.00	93.00	C
ATOM	778	CD1	TYR	A	98	-9.516	-0.314	9.891	1.00	93.00	C
ATOM	779	CD2	TYR	A	98	-10.477	-2.480	10.195	1.00	93.00	C
ATOM	780	CE1	TYR	A	98	-9.352	-0.187	11.266	1.00	93.00	C
ATOM	781	CE2	TYR	A	98	-10.320	-2.363	11.570	1.00	93.00	C
ATOM	782	OH	TYR	A	98	-9.594	-1.096	13.453	1.00	93.00	O
ATOM	783	CZ	TYR	A	98	-9.750	-1.216	12.094	1.00	93.00	C
ATOM	784	N	ALA	A	99	-12.336	0.698	7.086	1.00	92.19	N
ATOM	785	CA	ALA	A	99	-13.016	1.961	7.352	1.00	92.19	C
ATOM	786	C	ALA	A	99	-14.531	1.780	7.332	1.00	92.19	C
ATOM	787	CB	ALA	A	99	-12.594	3.020	6.336	1.00	92.19	C
ATOM	788	O	ALA	A	99	-15.242	2.314	8.188	1.00	92.19	O
ATOM	789	N	LYS	A	100	-15.016	1.059	6.359	1.00	91.38	N
ATOM	790	CA	LYS	A	100	-16.453	0.765	6.266	1.00	91.38	C
ATOM	791	C	LYS	A	100	-16.922	-0.005	7.492	1.00	91.38	C
ATOM	792	CB	LYS	A	100	-16.750	-0.030	4.996	1.00	91.38	C
ATOM	793	O	LYS	A	100	-18.016	0.247	8.000	1.00	91.38	O
ATOM	794	CG	LYS	A	100	-16.688	0.796	3.719	1.00	91.38	C

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ATOM	795	CD	LYS A 100	-17.062	-0.035	2.498	1.00	91.38	C
ATOM	796	CE	LYS A 100	-16.953	0.781	1.215	1.00	91.38	C
ATOM	797	NZ	LYS A 100	-17.281	-0.043	0.009	1.00	91.38	N
ATOM	798	N	GLU A 101	-16.141	-0.936	7.961	1.00	91.75	N
ATOM	799	CA	GLU A 101	-16.484	-1.726	9.141	1.00	91.75	C
ATOM	800	C	GLU A 101	-16.609	-0.844	10.383	1.00	91.75	C
ATOM	801	CB	GLU A 101	-15.438	-2.820	9.383	1.00	91.75	C
ATOM	802	O	GLU A 101	-17.438	-1.110	11.258	1.00	91.75	O
ATOM	803	CG	GLU A 101	-15.477	-3.938	8.344	1.00	91.75	C
ATOM	804	CD	GLU A 101	-14.539	-5.094	8.680	1.00	91.75	C
ATOM	805	OE1	GLU A 101	-15.000	-6.082	9.297	1.00	91.75	O
ATOM	806	OE2	GLU A 101	-13.344	-5.004	8.328	1.00	91.75	O
ATOM	807	N	LEU A 102	-15.812	0.228	10.391	1.00	90.69	N
ATOM	808	CA	LEU A 102	-15.812	1.133	11.531	1.00	90.69	C
ATOM	809	C	LEU A 102	-16.906	2.186	11.391	1.00	90.69	C
ATOM	810	CB	LEU A 102	-14.453	1.813	11.688	1.00	90.69	C
ATOM	811	O	LEU A 102	-17.156	2.957	12.320	1.00	90.69	O
ATOM	812	CG	LEU A 102	-13.281	0.906	12.062	1.00	90.69	C
ATOM	813	CD1	LEU A 102	-11.984	1.706	12.102	1.00	90.69	C
ATOM	814	CD2	LEU A 102	-13.539	0.229	13.406	1.00	90.69	C
ATOM	815	N	GLY A 103	-17.500	2.230	10.297	1.00	90.25	N
ATOM	816	CA	GLY A 103	-18.547	3.221	10.062	1.00	90.25	C
ATOM	817	C	GLY A 103	-18.000	4.566	9.625	1.00	90.25	C
ATOM	818	O	GLY A 103	-18.562	5.609	9.953	1.00	90.25	O
ATOM	819	N	VAL A 104	-16.734	4.504	9.125	1.00	91.50	N
ATOM	820	CA	VAL A 104	-16.125	5.715	8.602	1.00	91.50	C
ATOM	821	C	VAL A 104	-16.859	6.172	7.340	1.00	91.50	C
ATOM	822	CB	VAL A 104	-14.625	5.496	8.289	1.00	91.50	C
ATOM	823	O	VAL A 104	-17.062	5.383	6.414	1.00	91.50	O
ATOM	824	CG1	VAL A 104	-14.031	6.719	7.586	1.00	91.50	C
ATOM	825	CG2	VAL A 104	-13.852	5.195	9.578	1.00	91.50	C
ATOM	826	N	GLU A 105	-17.328	7.410	7.305	1.00	88.12	N
ATOM	827	CA	GLU A 105	-18.156	7.980	6.238	1.00	88.12	C
ATOM	828	C	GLU A 105	-17.281	8.625	5.164	1.00	88.12	C
ATOM	829	CB	GLU A 105	-19.141	9.008	6.805	1.00	88.12	C
ATOM	830	O	GLU A 105	-17.625	8.609	3.982	1.00	88.12	O
ATOM	831	CG	GLU A 105	-20.188	8.406	7.734	1.00	88.12	C
ATOM	832	CD	GLU A 105	-21.203	9.422	8.211	1.00	88.12	C
ATOM	833	OE1	GLU A 105	-22.344	9.430	7.688	1.00	88.12	O
ATOM	834	OE2	GLU A 105	-20.875	10.219	9.117	1.00	88.12	O
ATOM	835	N	GLU A 106	-16.156	9.039	5.555	1.00	90.00	N
ATOM	836	CA	GLU A 106	-15.258	9.727	4.629	1.00	90.00	C
ATOM	837	C	GLU A 106	-13.797	9.344	4.887	1.00	90.00	C
ATOM	838	CB	GLU A 106	-15.430	11.242	4.738	1.00	90.00	C
ATOM	839	O	GLU A 106	-13.375	9.234	6.035	1.00	90.00	O
ATOM	840	CG	GLU A 106	-14.664	12.031	3.684	1.00	90.00	C
ATOM	841	CD	GLU A 106	-14.930	13.523	3.736	1.00	90.00	C
ATOM	842	OE1	GLU A 106	-14.320	14.219	4.582	1.00	90.00	O
ATOM	843	OE2	GLU A 106	-15.758	14.008	2.932	1.00	90.00	O
ATOM	844	N	ILE A 107	-13.102	9.039	3.824	1.00	90.94	N
ATOM	845	CA	ILE A 107	-11.664	8.820	3.926	1.00	90.94	C
ATOM	846	C	ILE A 107	-10.914	9.930	3.191	1.00	90.94	C
ATOM	847	CB	ILE A 107	-11.258	7.441	3.357	1.00	90.94	C

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ATOM	848	O	ILE A 107	-11.070	10.102	1.979	1.00	90.94	O
ATOM	849	CG1	ILE A 107	-12.016	6.324	4.082	1.00	90.94	C
ATOM	850	CG2	ILE A 107	-9.742	7.234	3.461	1.00	90.94	C
ATOM	851	CD1	ILE A 107	-11.812	4.941	3.473	1.00	90.94	C
ATOM	852	N	GLU A 108	-10.234	10.789	3.938	1.00	92.75	N
ATOM	853	CA	GLU A 108	-9.383	11.820	3.338	1.00	92.75	C
ATOM	854	C	GLU A 108	-8.133	11.211	2.715	1.00	92.75	C
ATOM	855	CB	GLU A 108	-8.992	12.867	4.383	1.00	92.75	C
ATOM	856	O	GLU A 108	-7.285	10.664	3.422	1.00	92.75	O
ATOM	857	CG	GLU A 108	-8.352	14.117	3.789	1.00	92.75	C
ATOM	858	CD	GLU A 108	-8.039	15.180	4.828	1.00	92.75	C
ATOM	859	OE1	GLU A 108	-6.961	15.109	5.465	1.00	92.75	O
ATOM	860	OE2	GLU A 108	-8.875	16.094	5.004	1.00	92.75	O
ATOM	861	N	LYS A 109	-8.047	11.336	1.410	1.00	92.06	N
ATOM	862	CA	LYS A 109	-6.941	10.703	0.687	1.00	92.06	C
ATOM	863	C	LYS A 109	-5.938	11.750	0.203	1.00	92.06	C
ATOM	864	CB	LYS A 109	-7.469	9.898	-0.498	1.00	92.06	C
ATOM	865	O	LYS A 109	-6.316	12.734	-0.437	1.00	92.06	O
ATOM	866	CG	LYS A 109	-8.312	8.695	-0.100	1.00	92.06	C
ATOM	867	CD	LYS A 109	-8.781	7.910	-1.320	1.00	92.06	C
ATOM	868	CE	LYS A 109	-9.695	6.758	-0.928	1.00	92.06	C
ATOM	869	NZ	LYS A 109	-10.148	5.977	-2.119	1.00	92.06	N
ATOM	870	N	GLU A 110	-4.715	11.594	0.579	1.00	93.88	N
ATOM	871	CA	GLU A 110	-3.613	12.438	0.129	1.00	93.88	C
ATOM	872	C	GLU A 110	-2.564	11.625	-0.623	1.00	93.88	C
ATOM	873	CB	GLU A 110	-2.967	13.156	1.316	1.00	93.88	C
ATOM	874	O	GLU A 110	-2.037	10.641	-0.094	1.00	93.88	O
ATOM	875	CG	GLU A 110	-1.981	14.242	0.914	1.00	93.88	C
ATOM	876	CD	GLU A 110	-1.437	15.031	2.098	1.00	93.88	C
ATOM	877	OE1	GLU A 110	-0.488	14.547	2.758	1.00	93.88	O
ATOM	878	OE2	GLU A 110	-1.962	16.125	2.365	1.00	93.88	O
ATOM	879	N	LYS A 111	-2.373	11.961	-1.862	1.00	92.44	N
ATOM	880	CA	LYS A 111	-1.393	11.250	-2.684	1.00	92.44	C
ATOM	881	C	LYS A 111	-0.273	12.188	-3.127	1.00	92.44	C
ATOM	882	CB	LYS A 111	-2.066	10.625	-3.906	1.00	92.44	C
ATOM	883	O	LYS A 111	-0.533	13.305	-3.584	1.00	92.44	O
ATOM	884	CG	LYS A 111	-2.951	9.430	-3.582	1.00	92.44	C
ATOM	885	CD	LYS A 111	-3.514	8.797	-4.848	1.00	92.44	C
ATOM	886	CE	LYS A 111	-4.457	7.645	-4.520	1.00	92.44	C
ATOM	887	NZ	LYS A 111	-5.008	7.012	-5.754	1.00	92.44	N
ATOM	888	N	GLU A 112	0.864	11.812	-2.861	1.00	93.62	N
ATOM	889	CA	GLU A 112	2.045	12.578	-3.250	1.00	93.62	C
ATOM	890	C	GLU A 112	3.020	11.727	-4.051	1.00	93.62	C
ATOM	891	CB	GLU A 112	2.744	13.156	-2.016	1.00	93.62	C
ATOM	892	O	GLU A 112	3.338	10.602	-3.656	1.00	93.62	O
ATOM	893	CG	GLU A 112	3.881	14.117	-2.342	1.00	93.62	C
ATOM	894	CD	GLU A 112	4.535	14.711	-1.105	1.00	93.62	C
ATOM	895	OE1	GLU A 112	5.414	14.055	-0.506	1.00	93.62	O
ATOM	896	OE2	GLU A 112	4.164	15.844	-0.733	1.00	93.62	O
ATOM	897	N	VAL A 113	3.418	12.172	-5.160	1.00	89.31	N
ATOM	898	CA	VAL A 113	4.410	11.484	-5.984	1.00	89.31	C
ATOM	899	C	VAL A 113	5.680	12.328	-6.070	1.00	89.31	C
ATOM	900	CB	VAL A 113	3.865	11.195	-7.402	1.00	89.31	C

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ATOM	901	O	VAL A 113	5.633	13.492	-6.465	1.00	89.31	O
ATOM	902	CG1	VAL A 113	4.910	10.461	-8.242	1.00	89.31	C
ATOM	903	CG2	VAL A 113	2.574	10.383	-7.320	1.00	89.31	C
ATOM	904	N	ILE A 114	6.750	11.695	-5.613	1.00	87.94	N
ATOM	905	CA	ILE A 114	8.047	12.367	-5.625	1.00	87.94	C
ATOM	906	C	ILE A 114	8.953	11.719	-6.664	1.00	87.94	C
ATOM	907	CB	ILE A 114	8.711	12.336	-4.230	1.00	87.94	C
ATOM	908	O	ILE A 114	9.227	10.523	-6.598	1.00	87.94	O
ATOM	909	CG1	ILE A 114	7.781	12.938	-3.176	1.00	87.94	C
ATOM	910	CG2	ILE A 114	10.062	13.062	-4.258	1.00	87.94	C
ATOM	911	CD1	ILE A 114	8.211	12.664	-1.741	1.00	87.94	C
ATOM	912	N	GLU A 115	9.203	12.438	-7.699	1.00	81.38	N
ATOM	913	CA	GLU A 115	10.125	11.930	-8.711	1.00	81.38	C
ATOM	914	C	GLU A 115	11.562	12.375	-8.422	1.00	81.38	C
ATOM	915	CB	GLU A 115	9.703	12.398	-10.109	1.00	81.38	C
ATOM	916	O	GLU A 115	11.820	13.555	-8.195	1.00	81.38	O
ATOM	917	CG	GLU A 115	8.359	11.852	-10.555	1.00	81.38	C
ATOM	918	CD	GLU A 115	8.047	12.141	-12.016	1.00	81.38	C
ATOM	919	OE1	GLU A 115	8.188	11.227	-12.859	1.00	81.38	O
ATOM	920	OE2	GLU A 115	7.660	13.297	-12.312	1.00	81.38	O
TER									
ENDMDL									
MODEL 1									
ATOM	1	N	ALA A 1	15.906	-6.941	-2.838	1.00	89.56	N
ATOM	2	CA	ALA A 1	15.625	-5.652	-3.469	1.00	89.56	C
ATOM	3	C	ALA A 1	15.164	-4.625	-2.438	1.00	89.56	C
ATOM	4	CB	ALA A 1	14.562	-5.816	-4.559	1.00	89.56	C
ATOM	5	O	ALA A 1	14.625	-4.988	-1.389	1.00	89.56	O
ATOM	6	N	LYS A 2	15.648	-3.449	-2.555	1.00	92.12	N
ATOM	7	CA	LYS A 2	15.172	-2.340	-1.735	1.00	92.12	C
ATOM	8	C	LYS A 2	13.648	-2.211	-1.822	1.00	92.12	C
ATOM	9	CB	LYS A 2	15.836	-1.029	-2.162	1.00	92.12	C
ATOM	10	O	LYS A 2	13.078	-2.244	-2.916	1.00	92.12	O
ATOM	11	CG	LYS A 2	15.375	0.184	-1.367	1.00	92.12	C
ATOM	12	CD	LYS A 2	16.000	1.467	-1.891	1.00	92.12	C
ATOM	13	CE	LYS A 2	15.555	2.682	-1.090	1.00	92.12	C
ATOM	14	NZ	LYS A 2	15.383	3.885	-1.957	1.00	92.12	N
ATOM	15	N	THR A 3	13.000	-2.016	-0.602	1.00	95.94	N
ATOM	16	CA	THR A 3	11.547	-1.916	-0.583	1.00	95.94	C
ATOM	17	C	THR A 3	11.102	-0.708	0.235	1.00	95.94	C
ATOM	18	CB	THR A 3	10.906	-3.193	-0.008	1.00	95.94	C
ATOM	19	O	THR A 3	11.766	-0.317	1.193	1.00	95.94	O
ATOM	20	CG2	THR A 3	11.234	-4.406	-0.872	1.00	95.94	C
ATOM	21	OG1	THR A 3	11.406	-3.416	1.317	1.00	95.94	O
ATOM	22	N	ALA A 4	10.070	-0.120	-0.223	1.00	96.50	N
ATOM	23	CA	ALA A 4	9.336	0.917	0.504	1.00	96.50	C
ATOM	24	C	ALA A 4	7.863	0.557	0.640	1.00	96.50	C
ATOM	25	CB	ALA A 4	9.492	2.266	-0.197	1.00	96.50	C
ATOM	26	O	ALA A 4	7.180	0.323	-0.360	1.00	96.50	O
ATOM	27	N	THR A 5	7.379	0.577	1.897	1.00	97.94	N
ATOM	28	CA	THR A 5	6.012	0.139	2.150	1.00	97.94	C
ATOM	29	C	THR A 5	5.250	1.181	2.965	1.00	97.94	C
ATOM	30	CB	THR A 5	5.984	-1.213	2.887	1.00	97.94	C

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ATOM	31	O	THR	A	5	5.754	1.666	3.982	1.00	97.94	O
ATOM	32	CG2	THR	A	5	4.555	-1.687	3.115	1.00	97.94	C
ATOM	33	OG1	THR	A	5	6.680	-2.191	2.104	1.00	97.94	O
ATOM	34	N	TYR	A	6	4.125	1.558	2.477	1.00	97.88	N
ATOM	35	CA	TYR	A	6	3.193	2.410	3.209	1.00	97.88	C
ATOM	36	C	TYR	A	6	1.902	1.664	3.520	1.00	97.88	C
ATOM	37	CB	TYR	A	6	2.885	3.680	2.410	1.00	97.88	C
ATOM	38	O	TYR	A	6	1.266	1.108	2.621	1.00	97.88	O
ATOM	39	CG	TYR	A	6	2.018	4.668	3.152	1.00	97.88	C
ATOM	40	CD1	TYR	A	6	0.629	4.625	3.041	1.00	97.88	C
ATOM	41	CD2	TYR	A	6	2.584	5.645	3.965	1.00	97.88	C
ATOM	42	CE1	TYR	A	6	-0.173	5.535	3.723	1.00	97.88	C
ATOM	43	CE2	TYR	A	6	1.792	6.559	4.648	1.00	97.88	C
ATOM	44	OH	TYR	A	6	-0.374	7.398	5.199	1.00	97.88	O
ATOM	45	CZ	TYR	A	6	0.416	6.496	4.523	1.00	97.88	C
ATOM	46	N	THR	A	7	1.533	1.686	4.832	1.00	98.19	N
ATOM	47	CA	THR	A	7	0.302	1.028	5.254	1.00	98.19	C
ATOM	48	C	THR	A	7	-0.644	2.025	5.914	1.00	98.19	C
ATOM	49	CB	THR	A	7	0.594	-0.129	6.227	1.00	98.19	C
ATOM	50	O	THR	A	7	-0.257	2.732	6.848	1.00	98.19	O
ATOM	51	CG2	THR	A	7	-0.691	-0.842	6.633	1.00	98.19	C
ATOM	52	OG1	THR	A	7	1.469	-1.070	5.594	1.00	98.19	O
ATOM	53	N	PHE	A	8	-1.871	2.086	5.363	1.00	97.12	N
ATOM	54	CA	PHE	A	8	-2.928	2.938	5.895	1.00	97.12	C
ATOM	55	C	PHE	A	8	-4.086	2.098	6.422	1.00	97.12	C
ATOM	56	CB	PHE	A	8	-3.428	3.910	4.824	1.00	97.12	C
ATOM	57	O	PHE	A	8	-4.590	1.216	5.723	1.00	97.12	O
ATOM	58	CG	PHE	A	8	-4.492	4.855	5.312	1.00	97.12	C
ATOM	59	CD1	PHE	A	8	-5.836	4.605	5.051	1.00	97.12	C
ATOM	60	CD2	PHE	A	8	-4.152	5.992	6.031	1.00	97.12	C
ATOM	61	CE1	PHE	A	8	-6.824	5.480	5.504	1.00	97.12	C
ATOM	62	CE2	PHE	A	8	-5.133	6.871	6.484	1.00	97.12	C
ATOM	63	CZ	PHE	A	8	-6.465	6.613	6.219	1.00	97.12	C
ATOM	64	N	ARG	A	9	-4.449	2.438	7.676	1.00	97.44	N
ATOM	65	CA	ARG	A	9	-5.559	1.720	8.297	1.00	97.44	C
ATOM	66	C	ARG	A	9	-6.660	2.680	8.727	1.00	97.44	C
ATOM	67	CB	ARG	A	9	-5.070	0.912	9.500	1.00	97.44	C
ATOM	68	O	ARG	A	9	-6.391	3.703	9.359	1.00	97.44	O
ATOM	69	CG	ARG	A	9	-4.039	-0.153	9.156	1.00	97.44	C
ATOM	70	CD	ARG	A	9	-3.549	-0.889	10.391	1.00	97.44	C
ATOM	71	NE	ARG	A	9	-2.582	-1.929	10.055	1.00	97.44	N
ATOM	72	NH1	ARG	A	9	-1.096	-1.385	11.734	1.00	97.44	N
ATOM	73	NH2	ARG	A	9	-0.632	-3.115	10.305	1.00	97.44	N
ATOM	74	CZ	ARG	A	9	-1.438	-2.141	10.695	1.00	97.44	C
ATOM	75	N	VAL	A	10	-7.883	2.295	8.297	1.00	94.88	N
ATOM	76	CA	VAL	A	10	-9.000	3.143	8.703	1.00	94.88	C
ATOM	77	C	VAL	A	10	-10.156	2.273	9.188	1.00	94.88	C
ATOM	78	CB	VAL	A	10	-9.469	4.059	7.551	1.00	94.88	C
ATOM	79	O	VAL	A	10	-10.438	1.224	8.609	1.00	94.88	O
ATOM	80	CG1	VAL	A	10	-9.891	3.229	6.340	1.00	94.88	C
ATOM	81	CG2	VAL	A	10	-10.617	4.953	8.016	1.00	94.88	C
ATOM	82	N	ASP	A	11	-10.672	2.721	10.289	1.00	94.69	N
ATOM	83	CA	ASP	A	11	-11.836	2.045	10.852	1.00	94.69	C

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ATOM	84	C	ASP	A	11	-13.016	2.092	9.883	1.00	94.69	C
ATOM	85	CB	ASP	A	11	-12.234	2.674	12.188	1.00	94.69	C
ATOM	86	O	ASP	A	11	-13.289	3.131	9.273	1.00	94.69	O
ATOM	87	CG	ASP	A	11	-13.234	1.838	12.961	1.00	94.69	C
ATOM	88	OD1	ASP	A	11	-14.453	1.958	12.719	1.00	94.69	O
ATOM	89	OD2	ASP	A	11	-12.797	1.054	13.836	1.00	94.69	O
ATOM	90	N	VAL	A	12	-13.758	0.956	9.695	1.00	93.81	N
ATOM	91	CA	VAL	A	12	-14.828	0.855	8.703	1.00	93.81	C
ATOM	92	C	VAL	A	12	-16.031	1.676	9.148	1.00	93.81	C
ATOM	93	CB	VAL	A	12	-15.242	-0.614	8.461	1.00	93.81	C
ATOM	94	O	VAL	A	12	-16.922	1.975	8.344	1.00	93.81	O
ATOM	95	CG1	VAL	A	12	-14.086	-1.405	7.840	1.00	93.81	C
ATOM	96	CG2	VAL	A	12	-15.695	-1.261	9.766	1.00	93.81	C
ATOM	97	N	ARG	A	13	-16.047	1.966	10.438	1.00	91.25	N
ATOM	98	CA	ARG	A	13	-17.188	2.738	10.945	1.00	91.25	C
ATOM	99	C	ARG	A	13	-16.938	4.234	10.789	1.00	91.25	C
ATOM	100	CB	ARG	A	13	-17.453	2.398	12.414	1.00	91.25	C
ATOM	101	O	ARG	A	13	-17.766	5.051	11.180	1.00	91.25	O
ATOM	102	CG	ARG	A	13	-17.891	0.963	12.641	1.00	91.25	C
ATOM	103	CD	ARG	A	13	-18.281	0.717	14.094	1.00	91.25	C
ATOM	104	NE	ARG	A	13	-17.125	0.821	14.984	1.00	91.25	N
ATOM	105	NH1	ARG	A	13	-18.297	0.338	16.906	1.00	91.25	N
ATOM	106	NH2	ARG	A	13	-16.047	0.758	17.016	1.00	91.25	N
ATOM	107	CZ	ARG	A	13	-17.156	0.639	16.297	1.00	91.25	C
ATOM	108	N	HIS	A	14	-15.727	4.625	10.250	1.00	91.69	N
ATOM	109	CA	HIS	A	14	-15.445	6.035	9.992	1.00	91.69	C
ATOM	110	C	HIS	A	14	-16.484	6.637	9.039	1.00	91.69	C
ATOM	111	CB	HIS	A	14	-14.039	6.203	9.414	1.00	91.69	C
ATOM	112	O	HIS	A	14	-16.781	6.055	8.000	1.00	91.69	O
ATOM	113	CG	HIS	A	14	-13.516	7.602	9.523	1.00	91.69	C
ATOM	114	CD2	HIS	A	14	-12.578	8.133	10.336	1.00	91.69	C
ATOM	115	ND1	HIS	A	14	-13.961	8.633	8.727	1.00	91.69	N
ATOM	116	CE1	HIS	A	14	-13.320	9.742	9.047	1.00	91.69	C
ATOM	117	NE2	HIS	A	14	-12.477	9.469	10.023	1.00	91.69	N
ATOM	118	N	PRO	A	15	-17.156	7.820	9.391	1.00	90.00	N
ATOM	119	CA	PRO	A	15	-18.219	8.406	8.570	1.00	90.00	C
ATOM	120	C	PRO	A	15	-17.766	8.758	7.156	1.00	90.00	C
ATOM	121	CB	PRO	A	15	-18.609	9.664	9.344	1.00	90.00	C
ATOM	122	O	PRO	A	15	-18.562	8.742	6.219	1.00	90.00	O
ATOM	123	CG	PRO	A	15	-17.438	9.961	10.211	1.00	90.00	C
ATOM	124	CD	PRO	A	15	-16.766	8.664	10.555	1.00	90.00	C
ATOM	125	N	ASP	A	16	-16.438	9.039	7.043	1.00	92.81	N
ATOM	126	CA	ASP	A	16	-15.875	9.391	5.742	1.00	92.81	C
ATOM	127	C	ASP	A	16	-14.859	8.344	5.285	1.00	92.81	C
ATOM	128	CB	ASP	A	16	-15.219	10.766	5.789	1.00	92.81	C
ATOM	129	O	ASP	A	16	-13.789	8.688	4.781	1.00	92.81	O
ATOM	130	CG	ASP	A	16	-16.203	11.883	6.102	1.00	92.81	C
ATOM	131	OD1	ASP	A	16	-17.344	11.859	5.578	1.00	92.81	O
ATOM	132	OD2	ASP	A	16	-15.844	12.797	6.871	1.00	92.81	O
ATOM	133	N	LEU	A	17	-15.273	7.070	5.441	1.00	93.50	N
ATOM	134	CA	LEU	A	17	-14.367	5.949	5.230	1.00	93.50	C
ATOM	135	C	LEU	A	17	-13.758	6.004	3.834	1.00	93.50	C
ATOM	136	CB	LEU	A	17	-15.102	4.621	5.426	1.00	93.50	C

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ATOM	137	O	LEU A 17	-12.531	5.934	3.686	1.00	93.50	O
ATOM	138	CG	LEU A 17	-14.320	3.355	5.070	1.00	93.50	C
ATOM	139	CD1	LEU A 17	-13.156	3.162	6.035	1.00	93.50	C
ATOM	140	CD2	LEU A 17	-15.242	2.139	5.078	1.00	93.50	C
ATOM	141	N	GLU A 18	-14.602	6.047	2.850	1.00	92.69	N
ATOM	142	CA	GLU A 18	-14.148	6.023	1.464	1.00	92.69	C
ATOM	143	C	GLU A 18	-13.172	7.168	1.184	1.00	92.69	C
ATOM	144	CB	GLU A 18	-15.336	6.098	0.504	1.00	92.69	C
ATOM	145	O	GLU A 18	-12.117	6.961	0.584	1.00	92.69	O
ATOM	146	CG	GLU A 18	-14.953	5.973	-0.963	1.00	92.69	C
ATOM	147	CD	GLU A 18	-16.156	5.949	-1.897	1.00	92.69	C
ATOM	148	OE1	GLU A 18	-16.062	6.539	-3.000	1.00	92.69	O
ATOM	149	OE2	GLU A 18	-17.172	5.344	-1.524	1.00	92.69	O
ATOM	150	N	GLU A 19	-13.508	8.352	1.596	1.00	94.75	N
ATOM	151	CA	GLU A 19	-12.656	9.516	1.384	1.00	94.75	C
ATOM	152	C	GLU A 19	-11.305	9.352	2.074	1.00	94.75	C
ATOM	153	CB	GLU A 19	-13.352	10.781	1.889	1.00	94.75	C
ATOM	154	O	GLU A 19	-10.258	9.625	1.480	1.00	94.75	O
ATOM	155	CG	GLU A 19	-12.570	12.062	1.606	1.00	94.75	C
ATOM	156	CD	GLU A 19	-13.266	13.312	2.127	1.00	94.75	C
ATOM	157	OE1	GLU A 19	-13.141	13.617	3.334	1.00	94.75	O
ATOM	158	OE2	GLU A 19	-13.945	13.992	1.321	1.00	94.75	O
ATOM	159	N	LYS A 20	-11.320	8.906	3.367	1.00	95.38	N
ATOM	160	CA	LYS A 20	-10.078	8.711	4.109	1.00	95.38	C
ATOM	161	C	LYS A 20	-9.227	7.613	3.479	1.00	95.38	C
ATOM	162	CB	LYS A 20	-10.375	8.367	5.570	1.00	95.38	C
ATOM	163	O	LYS A 20	-7.996	7.734	3.414	1.00	95.38	O
ATOM	164	CG	LYS A 20	-10.977	9.516	6.367	1.00	95.38	C
ATOM	165	CD	LYS A 20	-10.055	10.727	6.379	1.00	95.38	C
ATOM	166	CE	LYS A 20	-10.680	11.898	7.137	1.00	95.38	C
ATOM	167	NZ	LYS A 20	-9.844	13.125	7.039	1.00	95.38	N
ATOM	168	N	ALA A 21	-9.891	6.590	3.043	1.00	94.62	N
ATOM	169	CA	ALA A 21	-9.172	5.496	2.389	1.00	94.62	C
ATOM	170	C	ALA A 21	-8.484	5.977	1.115	1.00	94.62	C
ATOM	171	CB	ALA A 21	-10.133	4.348	2.074	1.00	94.62	C
ATOM	172	O	ALA A 21	-7.324	5.648	0.870	1.00	94.62	O
ATOM	173	N	LEU A 22	-9.148	6.758	0.328	1.00	95.56	N
ATOM	174	CA	LEU A 22	-8.562	7.289	-0.900	1.00	95.56	C
ATOM	175	C	LEU A 22	-7.402	8.227	-0.590	1.00	95.56	C
ATOM	176	CB	LEU A 22	-9.625	8.031	-1.718	1.00	95.56	C
ATOM	177	O	LEU A 22	-6.391	8.227	-1.298	1.00	95.56	O
ATOM	178	CG	LEU A 22	-10.695	7.160	-2.389	1.00	95.56	C
ATOM	179	CD1	LEU A 22	-11.781	8.031	-3.002	1.00	95.56	C
ATOM	180	CD2	LEU A 22	-10.062	6.262	-3.449	1.00	95.56	C
ATOM	181	N	GLU A 23	-7.582	9.031	0.428	1.00	95.88	N
ATOM	182	CA	GLU A 23	-6.492	9.891	0.869	1.00	95.88	C
ATOM	183	C	GLU A 23	-5.277	9.070	1.294	1.00	95.88	C
ATOM	184	CB	GLU A 23	-6.945	10.789	2.021	1.00	95.88	C
ATOM	185	O	GLU A 23	-4.141	9.430	0.978	1.00	95.88	O
ATOM	186	CG	GLU A 23	-7.930	11.875	1.604	1.00	95.88	C
ATOM	187	CD	GLU A 23	-8.305	12.812	2.740	1.00	95.88	C
ATOM	188	OE1	GLU A 23	-8.609	14.000	2.471	1.00	95.88	O
ATOM	189	OE2	GLU A 23	-8.289	12.359	3.906	1.00	95.88	O

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ATOM	190	N	GLY A 24	-5.605	8.016	2.053	1.00	95.50	N
ATOM	191	CA	GLY A 24	-4.535	7.121	2.461	1.00	95.50	C
ATOM	192	C	GLY A 24	-3.795	6.504	1.289	1.00	95.50	C
ATOM	193	O	GLY A 24	-2.566	6.410	1.304	1.00	95.50	O
ATOM	194	N	LEU A 25	-4.516	6.098	0.348	1.00	96.12	N
ATOM	195	CA	LEU A 25	-3.916	5.539	-0.859	1.00	96.12	C
ATOM	196	C	LEU A 25	-3.049	6.574	-1.566	1.00	96.12	C
ATOM	197	CB	LEU A 25	-5.004	5.031	-1.811	1.00	96.12	C
ATOM	198	O	LEU A 25	-1.922	6.273	-1.968	1.00	96.12	O
ATOM	199	CG	LEU A 25	-4.520	4.391	-3.111	1.00	96.12	C
ATOM	200	CD1	LEU A 25	-3.625	3.189	-2.811	1.00	96.12	C
ATOM	201	CD2	LEU A 25	-5.703	3.977	-3.979	1.00	96.12	C
ATOM	202	N	LYS A 26	-3.566	7.789	-1.723	1.00	97.00	N
ATOM	203	CA	LYS A 26	-2.803	8.875	-2.332	1.00	97.00	C
ATOM	204	C	LYS A 26	-1.502	9.125	-1.572	1.00	97.00	C
ATOM	205	CB	LYS A 26	-3.635	10.156	-2.381	1.00	97.00	C
ATOM	206	O	LYS A 26	-0.437	9.250	-2.180	1.00	97.00	O
ATOM	207	CG	LYS A 26	-2.961	11.305	-3.121	1.00	97.00	C
ATOM	208	CD	LYS A 26	-3.857	12.531	-3.180	1.00	97.00	C
ATOM	209	CE	LYS A 26	-3.160	13.703	-3.859	1.00	97.00	C
ATOM	210	NZ	LYS A 26	-3.984	14.945	-3.805	1.00	97.00	N
ATOM	211	N	LYS A 27	-1.532	9.195	-0.297	1.00	96.88	N
ATOM	212	CA	LYS A 27	-0.352	9.398	0.537	1.00	96.88	C
ATOM	213	C	LYS A 27	0.638	8.250	0.385	1.00	96.88	C
ATOM	214	CB	LYS A 27	-0.751	9.555	2.004	1.00	96.88	C
ATOM	215	O	LYS A 27	1.852	8.469	0.352	1.00	96.88	O
ATOM	216	CG	LYS A 27	-1.439	10.875	2.320	1.00	96.88	C
ATOM	217	CD	LYS A 27	-1.835	10.961	3.787	1.00	96.88	C
ATOM	218	CE	LYS A 27	-2.551	12.273	4.098	1.00	96.88	C
ATOM	219	NZ	LYS A 27	-3.021	12.320	5.516	1.00	96.88	N
ATOM	220	N	GLY A 28	0.079	7.016	0.302	1.00	96.94	N
ATOM	221	CA	GLY A 28	0.931	5.852	0.103	1.00	96.94	C
ATOM	222	C	GLY A 28	1.748	5.922	-1.173	1.00	96.94	C
ATOM	223	O	GLY A 28	2.955	5.672	-1.157	1.00	96.94	O
ATOM	224	N	PHE A 29	1.123	6.367	-2.262	1.00	97.00	N
ATOM	225	CA	PHE A 29	1.836	6.508	-3.525	1.00	97.00	C
ATOM	226	C	PHE A 29	2.832	7.660	-3.461	1.00	97.00	C
ATOM	227	CB	PHE A 29	0.851	6.734	-4.680	1.00	97.00	C
ATOM	228	O	PHE A 29	3.955	7.547	-3.955	1.00	97.00	O
ATOM	229	CG	PHE A 29	0.342	5.457	-5.297	1.00	97.00	C
ATOM	230	CD1	PHE A 29	1.152	4.707	-6.141	1.00	97.00	C
ATOM	231	CD2	PHE A 29	-0.947	5.012	-5.035	1.00	97.00	C
ATOM	232	CE1	PHE A 29	0.684	3.527	-6.715	1.00	97.00	C
ATOM	233	CE2	PHE A 29	-1.422	3.834	-5.605	1.00	97.00	C
ATOM	234	CZ	PHE A 29	-0.605	3.094	-6.445	1.00	97.00	C
ATOM	235	N	ASP A 30	2.400	8.758	-2.842	1.00	97.19	N
ATOM	236	CA	ASP A 30	3.320	9.875	-2.693	1.00	97.19	C
ATOM	237	C	ASP A 30	4.570	9.469	-1.918	1.00	97.19	C
ATOM	238	CB	ASP A 30	2.629	11.047	-1.992	1.00	97.19	C
ATOM	239	O	ASP A 30	5.680	9.891	-2.246	1.00	97.19	O
ATOM	240	CG	ASP A 30	1.635	11.773	-2.885	1.00	97.19	C
ATOM	241	OD1	ASP A 30	1.719	11.641	-4.125	1.00	97.19	O
ATOM	242	OD2	ASP A 30	0.760	12.484	-2.344	1.00	97.19	O

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ATOM	243	N	PHE	A	31	4.363	8.641	-0.978	1.00	97.06	N
ATOM	244	CA	PHE	A	31	5.477	8.172	-0.166	1.00	97.06	C
ATOM	245	C	PHE	A	31	6.422	7.309	-0.994	1.00	97.06	C
ATOM	246	CB	PHE	A	31	4.965	7.379	1.042	1.00	97.06	C
ATOM	247	O	PHE	A	31	7.633	7.547	-1.014	1.00	97.06	O
ATOM	248	CG	PHE	A	31	6.043	6.617	1.766	1.00	97.06	C
ATOM	249	CD1	PHE	A	31	6.121	5.230	1.663	1.00	97.06	C
ATOM	250	CD2	PHE	A	31	6.977	7.281	2.549	1.00	97.06	C
ATOM	251	CE1	PHE	A	31	7.117	4.523	2.332	1.00	97.06	C
ATOM	252	CE2	PHE	A	31	7.973	6.582	3.221	1.00	97.06	C
ATOM	253	CZ	PHE	A	31	8.039	5.199	3.113	1.00	97.06	C
ATOM	254	N	VAL	A	32	5.848	6.293	-1.700	1.00	95.56	N
ATOM	255	CA	VAL	A	32	6.742	5.395	-2.426	1.00	95.56	C
ATOM	256	C	VAL	A	32	7.414	6.152	-3.570	1.00	95.56	C
ATOM	257	CB	VAL	A	32	5.988	4.160	-2.971	1.00	95.56	C
ATOM	258	O	VAL	A	32	8.547	5.840	-3.947	1.00	95.56	O
ATOM	259	CG1	VAL	A	32	5.453	3.307	-1.823	1.00	95.56	C
ATOM	260	CG2	VAL	A	32	4.855	4.594	-3.895	1.00	95.56	C
ATOM	261	N	ILE	A	33	6.762	7.102	-4.141	1.00	96.44	N
ATOM	262	CA	ILE	A	33	7.355	7.945	-5.172	1.00	96.44	C
ATOM	263	C	ILE	A	33	8.531	8.727	-4.586	1.00	96.44	C
ATOM	264	CB	ILE	A	33	6.312	8.914	-5.777	1.00	96.44	C
ATOM	265	O	ILE	A	33	9.578	8.844	-5.223	1.00	96.44	O
ATOM	266	CG1	ILE	A	33	5.266	8.141	-6.582	1.00	96.44	C
ATOM	267	CG2	ILE	A	33	7.000	9.969	-6.648	1.00	96.44	C
ATOM	268	CD1	ILE	A	33	4.047	8.961	-6.969	1.00	96.44	C
ATOM	269	N	SER	A	34	8.375	9.219	-3.373	1.00	95.81	N
ATOM	270	CA	SER	A	34	9.430	10.008	-2.736	1.00	95.81	C
ATOM	271	C	SER	A	34	10.656	9.148	-2.436	1.00	95.81	C
ATOM	272	CB	SER	A	34	8.906	10.641	-1.446	1.00	95.81	C
ATOM	273	O	SER	A	34	11.750	9.680	-2.236	1.00	95.81	O
ATOM	274	OG	SER	A	34	8.820	9.680	-0.410	1.00	95.81	O
ATOM	275	N	GLN	A	35	10.461	7.855	-2.408	1.00	94.00	N
ATOM	276	CA	GLN	A	35	11.562	6.945	-2.111	1.00	94.00	C
ATOM	277	C	GLN	A	35	12.344	6.598	-3.375	1.00	94.00	C
ATOM	278	CB	GLN	A	35	11.039	5.668	-1.448	1.00	94.00	C
ATOM	279	O	GLN	A	35	13.461	6.086	-3.299	1.00	94.00	O
ATOM	280	CG	GLN	A	35	10.359	5.906	-0.107	1.00	94.00	C
ATOM	281	CD	GLN	A	35	11.234	6.672	0.867	1.00	94.00	C
ATOM	282	NE2	GLN	A	35	10.750	7.824	1.319	1.00	94.00	N
ATOM	283	OE1	GLN	A	35	12.336	6.234	1.210	1.00	94.00	O
ATOM	284	N	ALA	A	36	11.719	6.840	-4.547	1.00	91.06	N
ATOM	285	CA	ALA	A	36	12.391	6.590	-5.820	1.00	91.06	C
ATOM	286	C	ALA	A	36	13.422	7.668	-6.117	1.00	91.06	C
ATOM	287	CB	ALA	A	36	11.367	6.508	-6.953	1.00	91.06	C
ATOM	288	O	ALA	A	36	13.141	8.859	-5.980	1.00	91.06	O
ATOM	289	N	LYS	A	37	14.695	7.352	-6.453	1.00	88.56	N
ATOM	290	CA	LYS	A	37	15.766	8.312	-6.703	1.00	88.56	C
ATOM	291	C	LYS	A	37	15.805	8.719	-8.172	1.00	88.56	C
ATOM	292	CB	LYS	A	37	17.125	7.742	-6.281	1.00	88.56	C
ATOM	293	O	LYS	A	37	16.109	9.867	-8.500	1.00	88.56	O
ATOM	294	CG	LYS	A	37	17.250	7.492	-4.785	1.00	88.56	C
ATOM	295	CD	LYS	A	37	18.625	6.980	-4.422	1.00	88.56	C

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ATOM	296	CE	LYS	A	37	18.766	6.719	-2.928	1.00	88.56	C
ATOM	297	NZ	LYS	A	37	20.125	6.266	-2.557	1.00	88.56	N
ATOM	298	N	ASP	A	38	15.367	7.738	-8.992	1.00	92.56	N
ATOM	299	CA	ASP	A	38	15.430	7.949	-10.430	1.00	92.56	C
ATOM	300	C	ASP	A	38	14.211	8.727	-10.930	1.00	92.56	C
ATOM	301	CB	ASP	A	38	15.539	6.613	-11.164	1.00	92.56	C
ATOM	302	O	ASP	A	38	13.070	8.320	-10.680	1.00	92.56	O
ATOM	303	CG	ASP	A	38	15.805	6.773	-12.656	1.00	92.56	C
ATOM	304	OD1	ASP	A	38	15.320	7.750	-13.258	1.00	92.56	O
ATOM	305	OD2	ASP	A	38	16.516	5.910	-13.219	1.00	92.56	O
ATOM	306	N	PRO	A	39	14.430	9.805	-11.672	1.00	95.06	N
ATOM	307	CA	PRO	A	39	13.320	10.633	-12.172	1.00	95.06	C
ATOM	308	C	PRO	A	39	12.391	9.859	-13.109	1.00	95.06	C
ATOM	309	CB	PRO	A	39	14.031	11.766	-12.914	1.00	95.06	C
ATOM	310	O	PRO	A	39	11.188	10.102	-13.117	1.00	95.06	O
ATOM	311	CG	PRO	A	39	15.391	11.828	-12.297	1.00	95.06	C
ATOM	312	CD	PRO	A	39	15.773	10.453	-11.828	1.00	95.06	C
ATOM	313	N	GLU	A	40	12.945	8.992	-13.945	1.00	95.44	N
ATOM	314	CA	GLU	A	40	12.133	8.180	-14.844	1.00	95.44	C
ATOM	315	C	GLU	A	40	11.211	7.246	-14.070	1.00	95.44	C
ATOM	316	CB	GLU	A	40	13.023	7.375	-15.797	1.00	95.44	C
ATOM	317	O	GLU	A	40	10.070	7.016	-14.469	1.00	95.44	O
ATOM	318	CG	GLU	A	40	13.750	8.227	-16.828	1.00	95.44	C
ATOM	319	CD	GLU	A	40	14.609	7.406	-17.781	1.00	95.44	C
ATOM	320	OE1	GLU	A	40	14.195	7.203	-18.938	1.00	95.44	O
ATOM	321	OE2	GLU	A	40	15.703	6.965	-17.359	1.00	95.44	O
ATOM	322	N	VAL	A	41	11.766	6.699	-12.922	1.00	94.94	N
ATOM	323	CA	VAL	A	41	10.953	5.852	-12.055	1.00	94.94	C
ATOM	324	C	VAL	A	41	9.836	6.676	-11.430	1.00	94.94	C
ATOM	325	CB	VAL	A	41	11.812	5.184	-10.953	1.00	94.94	C
ATOM	326	O	VAL	A	41	8.680	6.250	-11.398	1.00	94.94	O
ATOM	327	CG1	VAL	A	41	10.922	4.445	-9.953	1.00	94.94	C
ATOM	328	CG2	VAL	A	41	12.828	4.234	-11.578	1.00	94.94	C
ATOM	329	N	LYS	A	42	10.148	7.852	-11.008	1.00	95.81	N
ATOM	330	CA	LYS	A	42	9.156	8.734	-10.398	1.00	95.81	C
ATOM	331	C	LYS	A	42	8.047	9.078	-11.383	1.00	95.81	C
ATOM	332	CB	LYS	A	42	9.820	10.016	-9.883	1.00	95.81	C
ATOM	333	O	LYS	A	42	6.867	9.078	-11.023	1.00	95.81	O
ATOM	334	CG	LYS	A	42	10.688	9.805	-8.648	1.00	95.81	C
ATOM	335	CD	LYS	A	42	11.234	11.125	-8.125	1.00	95.81	C
ATOM	336	CE	LYS	A	42	12.086	10.922	-6.875	1.00	95.81	C
ATOM	337	NZ	LYS	A	42	12.586	12.227	-6.328	1.00	95.81	N
ATOM	338	N	ALA	A	43	8.414	9.383	-12.594	1.00	96.69	N
ATOM	339	CA	ALA	A	43	7.438	9.711	-13.625	1.00	96.69	C
ATOM	340	C	ALA	A	43	6.500	8.539	-13.883	1.00	96.69	C
ATOM	341	CB	ALA	A	43	8.148	10.117	-14.914	1.00	96.69	C
ATOM	342	O	ALA	A	43	5.285	8.719	-14.000	1.00	96.69	O
ATOM	343	N	TRP	A	44	7.082	7.422	-13.992	1.00	96.25	N
ATOM	344	CA	TRP	A	44	6.281	6.219	-14.203	1.00	96.25	C
ATOM	345	C	TRP	A	44	5.320	5.988	-13.039	1.00	96.25	C
ATOM	346	CB	TRP	A	44	7.184	4.996	-14.383	1.00	96.25	C
ATOM	347	O	TRP	A	44	4.145	5.688	-13.250	1.00	96.25	O
ATOM	348	CG	TRP	A	44	6.438	3.711	-14.586	1.00	96.25	C

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ATOM	349	CD1 TRP A 44	5.852	3.268	-15.734	1.00	96.25	C
ATOM	350	CD2 TRP A 44	6.191	2.707	-13.594	1.00	96.25	C
ATOM	351	CE2 TRP A 44	5.449	1.680	-14.219	1.00	96.25	C
ATOM	352	CE3 TRP A 44	6.523	2.574	-12.242	1.00	96.25	C
ATOM	353	NE1 TRP A 44	5.258	2.047	-15.523	1.00	96.25	N
ATOM	354	CH2 TRP A 44	5.375	0.429	-12.211	1.00	96.25	C
ATOM	355	CZ2 TRP A 44	5.035	0.534	-13.539	1.00	96.25	C
ATOM	356	CZ3 TRP A 44	6.113	1.434	-11.562	1.00	96.25	C
ATOM	357	N LEU A 45	5.828	6.105	-11.820	1.00	97.31	N
ATOM	358	CA LEU A 45	5.020	5.891	-10.625	1.00	97.31	C
ATOM	359	C LEU A 45	3.895	6.918	-10.539	1.00	97.31	C
ATOM	360	CB LEU A 45	5.887	5.961	-9.367	1.00	97.31	C
ATOM	361	O LEU A 45	2.781	6.594	-10.117	1.00	97.31	O
ATOM	362	CG LEU A 45	6.836	4.785	-9.133	1.00	97.31	C
ATOM	363	CD1 LEU A 45	7.797	5.098	-7.988	1.00	97.31	C
ATOM	364	CD2 LEU A 45	6.047	3.512	-8.836	1.00	97.31	C
ATOM	365	N LYS A 46	4.164	8.133	-10.969	1.00	97.31	N
ATOM	366	CA LYS A 46	3.133	9.172	-10.969	1.00	97.31	C
ATOM	367	C LYS A 46	2.000	8.812	-11.922	1.00	97.31	C
ATOM	368	CB LYS A 46	3.734	10.523	-11.344	1.00	97.31	C
ATOM	369	O LYS A 46	0.825	8.984	-11.594	1.00	97.31	O
ATOM	370	CG LYS A 46	4.578	11.156	-10.250	1.00	97.31	C
ATOM	371	CD LYS A 46	5.141	12.500	-10.680	1.00	97.31	C
ATOM	372	CE LYS A 46	6.008	13.125	-9.594	1.00	97.31	C
ATOM	373	NZ LYS A 46	6.656	14.391	-10.055	1.00	97.31	N
ATOM	374	N LYS A 47	2.424	8.328	-13.047	1.00	96.56	N
ATOM	375	CA LYS A 47	1.401	7.902	-14.000	1.00	96.56	C
ATOM	376	C LYS A 47	0.598	6.727	-13.453	1.00	96.56	C
ATOM	377	CB LYS A 47	2.037	7.523	-15.336	1.00	96.56	C
ATOM	378	O LYS A 47	-0.630	6.699	-13.562	1.00	96.56	O
ATOM	379	CG LYS A 47	2.539	8.711	-16.141	1.00	96.56	C
ATOM	380	CD LYS A 47	3.150	8.273	-17.469	1.00	96.56	C
ATOM	381	CE LYS A 47	3.742	9.445	-18.234	1.00	96.56	C
ATOM	382	NZ LYS A 47	4.387	9.016	-19.500	1.00	96.56	N
ATOM	383	N LEU A 48	1.323	5.719	-12.867	1.00	96.19	N
ATOM	384	CA LEU A 48	0.671	4.555	-12.273	1.00	96.19	C
ATOM	385	C LEU A 48	-0.289	4.977	-11.164	1.00	96.19	C
ATOM	386	CB LEU A 48	1.714	3.580	-11.719	1.00	96.19	C
ATOM	387	O LEU A 48	-1.401	4.453	-11.070	1.00	96.19	O
ATOM	388	CG LEU A 48	1.174	2.289	-11.102	1.00	96.19	C
ATOM	389	CD1 LEU A 48	0.409	1.482	-12.148	1.00	96.19	C
ATOM	390	CD2 LEU A 48	2.311	1.464	-10.508	1.00	96.19	C
ATOM	391	N LYS A 49	0.107	5.906	-10.352	1.00	97.06	N
ATOM	392	CA LYS A 49	-0.716	6.453	-9.281	1.00	97.06	C
ATOM	393	C LYS A 49	-2.057	6.949	-9.812	1.00	97.06	C
ATOM	394	CB LYS A 49	0.018	7.586	-8.562	1.00	97.06	C
ATOM	395	O LYS A 49	-3.109	6.621	-9.266	1.00	97.06	O
ATOM	396	CG LYS A 49	-0.818	8.297	-7.512	1.00	97.06	C
ATOM	397	CD LYS A 49	-0.077	9.492	-6.926	1.00	97.06	C
ATOM	398	CE LYS A 49	-0.980	10.328	-6.023	1.00	97.06	C
ATOM	399	NZ LYS A 49	-0.255	11.492	-5.434	1.00	97.06	N
ATOM	400	N GLU A 50	-2.059	7.688	-10.859	1.00	96.44	N
ATOM	401	CA GLU A 50	-3.271	8.266	-11.430	1.00	96.44	C

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ATOM	402	C	GLU A 50	-4.215	7.180	-11.938	1.00	96.44	C
ATOM	403	CB	GLU A 50	-2.924	9.234	-12.562	1.00	96.44	C
ATOM	404	O	GLU A 50	-5.426	7.254	-11.734	1.00	96.44	O
ATOM	405	CG	GLU A 50	-2.158	10.469	-12.109	1.00	96.44	C
ATOM	406	CD	GLU A 50	-2.936	11.328	-11.125	1.00	96.44	C
ATOM	407	OE1	GLU A 50	-2.377	11.695	-10.062	1.00	96.44	O
ATOM	408	OE2	GLU A 50	-4.113	11.633	-11.414	1.00	96.44	O
ATOM	409	N	GLU A 51	-3.652	6.164	-12.523	1.00	95.38	N
ATOM	410	CA	GLU A 51	-4.449	5.059	-13.055	1.00	95.38	C
ATOM	411	C	GLU A 51	-5.113	4.270	-11.930	1.00	95.38	C
ATOM	412	CB	GLU A 51	-3.582	4.133	-13.906	1.00	95.38	C
ATOM	413	O	GLU A 51	-6.301	3.953	-12.000	1.00	95.38	O
ATOM	414	CG	GLU A 51	-3.092	4.770	-15.203	1.00	95.38	C
ATOM	415	CD	GLU A 51	-2.236	3.836	-16.047	1.00	95.38	C
ATOM	416	OE1	GLU A 51	-2.197	4.000	-17.281	1.00	95.38	O
ATOM	417	OE2	GLU A 51	-1.601	2.932	-15.453	1.00	95.38	O
ATOM	418	N	LEU A 52	-4.316	4.031	-10.875	1.00	96.00	N
ATOM	419	CA	LEU A 52	-4.812	3.180	-9.805	1.00	96.00	C
ATOM	420	C	LEU A 52	-5.785	3.939	-8.906	1.00	96.00	C
ATOM	421	CB	LEU A 52	-3.646	2.645	-8.961	1.00	96.00	C
ATOM	422	O	LEU A 52	-6.730	3.352	-8.367	1.00	96.00	O
ATOM	423	CG	LEU A 52	-2.701	1.665	-9.664	1.00	96.00	C
ATOM	424	CD1	LEU A 52	-1.630	1.178	-8.695	1.00	96.00	C
ATOM	425	CD2	LEU A 52	-3.482	0.490	-10.242	1.00	96.00	C
ATOM	426	N	LEU A 53	-5.617	5.246	-8.812	1.00	94.69	N
ATOM	427	CA	LEU A 53	-6.539	6.055	-8.031	1.00	94.69	C
ATOM	428	C	LEU A 53	-7.922	6.078	-8.672	1.00	94.69	C
ATOM	429	CB	LEU A 53	-6.012	7.484	-7.883	1.00	94.69	C
ATOM	430	O	LEU A 53	-8.938	6.172	-7.973	1.00	94.69	O
ATOM	431	CG	LEU A 53	-4.902	7.691	-6.852	1.00	94.69	C
ATOM	432	CD1	LEU A 53	-4.406	9.133	-6.891	1.00	94.69	C
ATOM	433	CD2	LEU A 53	-5.395	7.332	-5.453	1.00	94.69	C
ATOM	434	N	ALA A 54	-7.984	5.965	-9.938	1.00	94.50	N
ATOM	435	CA	ALA A 54	-9.258	5.945	-10.648	1.00	94.50	C
ATOM	436	C	ALA A 54	-10.023	4.652	-10.367	1.00	94.50	C
ATOM	437	CB	ALA A 54	-9.039	6.113	-12.148	1.00	94.50	C
ATOM	438	O	ALA A 54	-11.258	4.641	-10.344	1.00	94.50	O
ATOM	439	N	GLN A 55	-9.336	3.562	-10.055	1.00	95.38	N
ATOM	440	CA	GLN A 55	-9.938	2.248	-9.859	1.00	95.38	C
ATOM	441	C	GLN A 55	-10.188	1.974	-8.383	1.00	95.38	C
ATOM	442	CB	GLN A 55	-9.047	1.155	-10.453	1.00	95.38	C
ATOM	443	O	GLN A 55	-10.961	1.078	-8.031	1.00	95.38	O
ATOM	444	CG	GLN A 55	-8.867	1.263	-11.961	1.00	95.38	C
ATOM	445	CD	GLN A 55	-8.016	0.142	-12.531	1.00	95.38	C
ATOM	446	NE2	GLN A 55	-6.926	0.504	-13.195	1.00	95.38	N
ATOM	447	OE1	GLN A 55	-8.344	-1.040	-12.375	1.00	95.38	O
ATOM	448	N	ALA A 56	-9.617	2.758	-7.535	1.00	94.69	N
ATOM	449	CA	ALA A 56	-9.539	2.482	-6.105	1.00	94.69	C
ATOM	450	C	ALA A 56	-10.930	2.449	-5.473	1.00	94.69	C
ATOM	451	CB	ALA A 56	-8.672	3.525	-5.410	1.00	94.69	C
ATOM	452	O	ALA A 56	-11.234	1.562	-4.676	1.00	94.69	O
ATOM	453	N	PRO A 57	-11.812	3.350	-5.926	1.00	95.62	N
ATOM	454	CA	PRO A 57	-13.141	3.326	-5.309	1.00	95.62	C

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ATOM	455	C	PRO A 57	-13.875	2.008	-5.539	1.00	95.62	C
ATOM	456	CB	PRO A 57	-13.867	4.484	-5.992	1.00	95.62	C
ATOM	457	O	PRO A 57	-14.547	1.508	-4.637	1.00	95.62	O
ATOM	458	CG	PRO A 57	-12.789	5.461	-6.344	1.00	95.62	C
ATOM	459	CD	PRO A 57	-11.570	4.691	-6.762	1.00	95.62	C
ATOM	460	N	ALA A 58	-13.727	1.532	-6.688	1.00	96.44	N
ATOM	461	CA	ALA A 58	-14.367	0.260	-7.004	1.00	96.44	C
ATOM	462	C	ALA A 58	-13.773	-0.875	-6.172	1.00	96.44	C
ATOM	463	CB	ALA A 58	-14.234	-0.050	-8.492	1.00	96.44	C
ATOM	464	O	ALA A 58	-14.500	-1.740	-5.680	1.00	96.44	O
ATOM	465	N	TRP A 59	-12.508	-0.879	-5.969	1.00	97.38	N
ATOM	466	CA	TRP A 59	-11.844	-1.910	-5.184	1.00	97.38	C
ATOM	467	C	TRP A 59	-12.234	-1.818	-3.715	1.00	97.38	C
ATOM	468	CB	TRP A 59	-10.320	-1.791	-5.328	1.00	97.38	C
ATOM	469	O	TRP A 59	-12.492	-2.838	-3.070	1.00	97.38	O
ATOM	470	CG	TRP A 59	-9.805	-2.160	-6.684	1.00	97.38	C
ATOM	471	CD1	TRP A 59	-10.344	-3.072	-7.551	1.00	97.38	C
ATOM	472	CD2	TRP A 59	-8.641	-1.630	-7.332	1.00	97.38	C
ATOM	473	CE2	TRP A 59	-8.539	-2.264	-8.586	1.00	97.38	C
ATOM	474	CE3	TRP A 59	-7.684	-0.677	-6.969	1.00	97.38	C
ATOM	475	NE1	TRP A 59	-9.586	-3.139	-8.695	1.00	97.38	N
ATOM	476	CH2	TRP A 59	-6.582	-1.040	-9.109	1.00	97.38	C
ATOM	477	CZ2	TRP A 59	-7.508	-1.977	-9.484	1.00	97.38	C
ATOM	478	CZ3	TRP A 59	-6.656	-0.391	-7.863	1.00	97.38	C
ATOM	479	N	ILE A 60	-12.305	-0.635	-3.246	1.00	95.62	N
ATOM	480	CA	ILE A 60	-12.680	-0.425	-1.852	1.00	95.62	C
ATOM	481	C	ILE A 60	-14.117	-0.896	-1.627	1.00	95.62	C
ATOM	482	CB	ILE A 60	-12.531	1.058	-1.443	1.00	95.62	C
ATOM	483	O	ILE A 60	-14.398	-1.600	-0.654	1.00	95.62	O
ATOM	484	CG1	ILE A 60	-11.055	1.460	-1.418	1.00	95.62	C
ATOM	485	CG2	ILE A 60	-13.195	1.312	-0.086	1.00	95.62	C
ATOM	486	CD1	ILE A 60	-10.820	2.963	-1.336	1.00	95.62	C
ATOM	487	N	ALA A 61	-14.945	-0.500	-2.520	1.00	95.31	N
ATOM	488	CA	ALA A 61	-16.344	-0.946	-2.438	1.00	95.31	C
ATOM	489	C	ALA A 61	-16.422	-2.469	-2.453	1.00	95.31	C
ATOM	490	CB	ALA A 61	-17.156	-0.357	-3.588	1.00	95.31	C
ATOM	491	O	ALA A 61	-17.203	-3.061	-1.700	1.00	95.31	O
ATOM	492	N	HIS A 62	-15.664	-3.068	-3.355	1.00	95.88	N
ATOM	493	CA	HIS A 62	-15.633	-4.523	-3.477	1.00	95.88	C
ATOM	494	C	HIS A 62	-15.211	-5.176	-2.164	1.00	95.88	C
ATOM	495	CB	HIS A 62	-14.680	-4.941	-4.602	1.00	95.88	C
ATOM	496	O	HIS A 62	-15.867	-6.109	-1.693	1.00	95.88	O
ATOM	497	CG	HIS A 62	-14.453	-6.418	-4.672	1.00	95.88	C
ATOM	498	CD2	HIS A 62	-13.469	-7.195	-4.164	1.00	95.88	C
ATOM	499	ND1	HIS A 62	-15.312	-7.270	-5.340	1.00	95.88	N
ATOM	500	CE1	HIS A 62	-14.859	-8.508	-5.234	1.00	95.88	C
ATOM	501	NE2	HIS A 62	-13.742	-8.492	-4.527	1.00	95.88	N
ATOM	502	N	VAL A 63	-14.172	-4.684	-1.541	1.00	96.69	N
ATOM	503	CA	VAL A 63	-13.641	-5.266	-0.316	1.00	96.69	C
ATOM	504	C	VAL A 63	-14.641	-5.082	0.823	1.00	96.69	C
ATOM	505	CB	VAL A 63	-12.281	-4.645	0.065	1.00	96.69	C
ATOM	506	O	VAL A 63	-14.875	-6.008	1.607	1.00	96.69	O
ATOM	507	CG1	VAL A 63	-11.867	-5.059	1.477	1.00	96.69	C

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ATOM	508	CG2 VAL A 63	-11.203	-5.047	-0.947	1.00	96.69	C
ATOM	509	N LEU A 64	-15.258	-3.982	0.820	1.00	94.56	N
ATOM	510	CA LEU A 64	-16.219	-3.707	1.884	1.00	94.56	C
ATOM	511	C LEU A 64	-17.469	-4.566	1.726	1.00	94.56	C
ATOM	512	CB LEU A 64	-16.609	-2.225	1.887	1.00	94.56	C
ATOM	513	O LEU A 64	-18.062	-4.984	2.719	1.00	94.56	O
ATOM	514	CG LEU A 64	-15.523	-1.245	2.352	1.00	94.56	C
ATOM	515	CD1 LEU A 64	-15.984	0.193	2.129	1.00	94.56	C
ATOM	516	CD2 LEU A 64	-15.180	-1.482	3.818	1.00	94.56	C
ATOM	517	N ALA A 65	-17.766	-4.855	0.506	1.00	94.50	N
ATOM	518	CA ALA A 65	-18.984	-5.613	0.224	1.00	94.50	C
ATOM	519	C ALA A 65	-18.766	-7.109	0.419	1.00	94.50	C
ATOM	520	CB ALA A 65	-19.469	-5.332	-1.197	1.00	94.50	C
ATOM	521	O ALA A 65	-19.609	-7.805	0.974	1.00	94.50	O
ATOM	522	N THR A 66	-17.531	-7.555	0.035	1.00	95.75	N
ATOM	523	CA THR A 66	-17.359	-9.000	-0.044	1.00	95.75	C
ATOM	524	C THR A 66	-16.422	-9.492	1.056	1.00	95.75	C
ATOM	525	CB THR A 66	-16.812	-9.422	-1.419	1.00	95.75	C
ATOM	526	O THR A 66	-16.422	-10.680	1.384	1.00	95.75	O
ATOM	527	CG2 THR A 66	-17.672	-8.875	-2.549	1.00	95.75	C
ATOM	528	OG1 THR A 66	-15.477	-8.922	-1.563	1.00	95.75	O
ATOM	529	N GLY A 67	-15.695	-8.547	1.599	1.00	94.31	N
ATOM	530	CA GLY A 67	-14.672	-8.953	2.549	1.00	94.31	C
ATOM	531	C GLY A 67	-13.469	-9.594	1.891	1.00	94.31	C
ATOM	532	O GLY A 67	-12.508	-9.977	2.570	1.00	94.31	O
ATOM	533	N GLU A 68	-13.492	-9.711	0.571	1.00	96.94	N
ATOM	534	CA GLU A 68	-12.406	-10.320	-0.181	1.00	96.94	C
ATOM	535	C GLU A 68	-11.297	-9.312	-0.469	1.00	96.94	C
ATOM	536	CB GLU A 68	-12.922	-10.922	-1.490	1.00	96.94	C
ATOM	537	O GLU A 68	-11.570	-8.211	-0.959	1.00	96.94	O
ATOM	538	CG GLU A 68	-13.859	-12.102	-1.297	1.00	96.94	C
ATOM	539	CD GLU A 68	-14.203	-12.812	-2.596	1.00	96.94	C
ATOM	540	OE1 GLU A 68	-13.812	-13.992	-2.768	1.00	96.94	O
ATOM	541	OE2 GLU A 68	-14.883	-12.195	-3.447	1.00	96.94	O
ATOM	542	N PRO A 69	-10.008	-9.688	-0.176	1.00	97.25	N
ATOM	543	CA PRO A 69	-8.891	-8.773	-0.435	1.00	97.25	C
ATOM	544	C PRO A 69	-8.617	-8.578	-1.926	1.00	97.25	C
ATOM	545	CB PRO A 69	-7.707	-9.453	0.254	1.00	97.25	C
ATOM	546	O PRO A 69	-8.867	-9.484	-2.723	1.00	97.25	O
ATOM	547	CG PRO A 69	-8.055	-10.906	0.272	1.00	97.25	C
ATOM	548	CD PRO A 69	-9.547	-11.031	0.384	1.00	97.25	C
ATOM	549	N VAL A 70	-8.156	-7.402	-2.270	1.00	97.38	N
ATOM	550	CA VAL A 70	-7.695	-7.102	-3.619	1.00	97.38	C
ATOM	551	C VAL A 70	-6.191	-6.836	-3.602	1.00	97.38	C
ATOM	552	CB VAL A 70	-8.445	-5.891	-4.219	1.00	97.38	C
ATOM	553	O VAL A 70	-5.703	-6.059	-2.777	1.00	97.38	O
ATOM	554	CG1 VAL A 70	-7.805	-5.457	-5.539	1.00	97.38	C
ATOM	555	CG2 VAL A 70	-9.922	-6.227	-4.426	1.00	97.38	C
ATOM	556	N THR A 71	-5.484	-7.555	-4.516	1.00	97.31	N
ATOM	557	CA THR A 71	-4.055	-7.324	-4.691	1.00	97.31	C
ATOM	558	C THR A 71	-3.715	-7.133	-6.168	1.00	97.31	C
ATOM	559	CB THR A 71	-3.225	-8.484	-4.117	1.00	97.31	C
ATOM	560	O THR A 71	-4.082	-7.957	-7.004	1.00	97.31	O

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ATOM	561	CG2 THR A 71	-1.729	-8.219	-4.270	1.00	97.31	C
ATOM	562	OG1 THR A 71	-3.529	-8.641	-2.725	1.00	97.31	O
ATOM	563	N VAL A 72	-3.100	-6.020	-6.414	1.00	96.31	N
ATOM	564	CA VAL A 72	-2.670	-5.766	-7.785	1.00	96.31	C
ATOM	565	C VAL A 72	-1.168	-5.492	-7.812	1.00	96.31	C
ATOM	566	CB VAL A 72	-3.439	-4.578	-8.414	1.00	96.31	C
ATOM	567	O VAL A 72	-0.633	-4.836	-6.914	1.00	96.31	O
ATOM	568	CG1 VAL A 72	-4.910	-4.934	-8.609	1.00	96.31	C
ATOM	569	CG2 VAL A 72	-3.299	-3.334	-7.539	1.00	96.31	C
ATOM	570	N THR A 73	-0.495	-6.051	-8.797	1.00	96.31	N
ATOM	571	CA THR A 73	0.946	-5.879	-8.945	1.00	96.31	C
ATOM	572	C THR A 73	1.284	-5.352	-10.336	1.00	96.31	C
ATOM	573	CB THR A 73	1.697	-7.199	-8.695	1.00	96.31	C
ATOM	574	O THR A 73	0.756	-5.840	-11.336	1.00	96.31	O
ATOM	575	CG2 THR A 73	3.203	-7.008	-8.844	1.00	96.31	C
ATOM	576	OG1 THR A 73	1.411	-7.660	-7.371	1.00	96.31	O
ATOM	577	N TYR A 74	2.127	-4.305	-10.328	1.00	96.88	N
ATOM	578	CA TYR A 74	2.639	-3.740	-11.570	1.00	96.88	C
ATOM	579	C TYR A 74	4.164	-3.748	-11.586	1.00	96.88	C
ATOM	580	CB TYR A 74	2.123	-2.311	-11.758	1.00	96.88	C
ATOM	581	O TYR A 74	4.801	-3.447	-10.570	1.00	96.88	O
ATOM	582	CG TYR A 74	0.623	-2.219	-11.891	1.00	96.88	C
ATOM	583	CD1 TYR A 74	0.011	-2.229	-13.141	1.00	96.88	C
ATOM	584	CD2 TYR A 74	-0.186	-2.121	-10.766	1.00	96.88	C
ATOM	585	CE1 TYR A 74	-1.371	-2.143	-13.266	1.00	96.88	C
ATOM	586	CE2 TYR A 74	-1.570	-2.033	-10.875	1.00	96.88	C
ATOM	587	OH TYR A 74	-3.521	-1.960	-12.250	1.00	96.88	O
ATOM	588	CZ TYR A 74	-2.152	-2.045	-12.133	1.00	96.88	C
ATOM	589	N GLU A 75	4.578	-4.098	-12.773	1.00	95.69	N
ATOM	590	CA GLU A 75	6.027	-4.121	-12.938	1.00	95.69	C
ATOM	591	C GLU A 75	6.457	-3.342	-14.180	1.00	95.69	C
ATOM	592	CB GLU A 75	6.539	-5.562	-13.016	1.00	95.69	C
ATOM	593	O GLU A 75	5.750	-3.334	-15.188	1.00	95.69	O
ATOM	594	CG GLU A 75	6.320	-6.363	-11.742	1.00	95.69	C
ATOM	595	CD GLU A 75	6.906	-7.766	-11.805	1.00	95.69	C
ATOM	596	OE1 GLU A 75	6.598	-8.594	-10.914	1.00	95.69	O
ATOM	597	OE2 GLU A 75	7.676	-8.039	-12.750	1.00	95.69	O
ATOM	598	N ASN A 76	7.559	-2.627	-14.000	1.00	95.50	N
ATOM	599	CA ASN A 76	8.250	-2.047	-15.148	1.00	95.50	C
ATOM	600	C ASN A 76	9.664	-2.607	-15.289	1.00	95.50	C
ATOM	601	CB ASN A 76	8.289	-0.522	-15.031	1.00	95.50	C
ATOM	602	O ASN A 76	10.602	-2.109	-14.664	1.00	95.50	O
ATOM	603	CG ASN A 76	8.695	0.149	-16.328	1.00	95.50	C
ATOM	604	ND2 ASN A 76	8.172	1.349	-16.562	1.00	95.50	N
ATOM	605	OD1 ASN A 76	9.461	-0.407	-17.125	1.00	95.50	O
ATOM	606	N PRO A 77	9.773	-3.604	-16.141	1.00	92.50	N
ATOM	607	CA PRO A 77	11.062	-4.285	-16.281	1.00	92.50	C
ATOM	608	C PRO A 77	12.164	-3.361	-16.781	1.00	92.50	C
ATOM	609	CB PRO A 77	10.766	-5.391	-17.297	1.00	92.50	C
ATOM	610	O PRO A 77	13.328	-3.527	-16.406	1.00	92.50	O
ATOM	611	CG PRO A 77	9.281	-5.531	-17.281	1.00	92.50	C
ATOM	612	CD PRO A 77	8.680	-4.219	-16.875	1.00	92.50	C
ATOM	613	N GLU A 78	11.773	-2.494	-17.578	1.00	93.19	N

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ATOM	614	CA	GLU A 78	12.742	-1.551	-18.125	1.00	93.19	C
ATOM	615	C	GLU A 78	13.367	-0.702	-17.031	1.00	93.19	C
ATOM	616	CB	GLU A 78	12.078	-0.650	-19.172	1.00	93.19	C
ATOM	617	O	GLU A 78	14.578	-0.456	-17.047	1.00	93.19	O
ATOM	618	CG	GLU A 78	11.656	-1.385	-20.438	1.00	93.19	C
ATOM	619	CD	GLU A 78	11.102	-0.461	-21.516	1.00	93.19	C
ATOM	620	OE1	GLU A 78	11.852	-0.088	-22.438	1.00	93.19	O
ATOM	621	OE2	GLU A 78	9.898	-0.108	-21.422	1.00	93.19	O
ATOM	622	N	LEU A 79	12.570	-0.380	-16.078	1.00	95.00	N
ATOM	623	CA	LEU A 79	13.047	0.471	-15.000	1.00	95.00	C
ATOM	624	C	LEU A 79	13.484	-0.368	-13.805	1.00	95.00	C
ATOM	625	CB	LEU A 79	11.953	1.454	-14.570	1.00	95.00	C
ATOM	626	O	LEU A 79	14.094	0.150	-12.867	1.00	95.00	O
ATOM	627	CG	LEU A 79	11.523	2.482	-15.617	1.00	95.00	C
ATOM	628	CD1	LEU A 79	10.375	3.336	-15.086	1.00	95.00	C
ATOM	629	CD2	LEU A 79	12.703	3.359	-16.031	1.00	95.00	C
ATOM	630	N	GLY A 80	13.117	-1.646	-13.898	1.00	94.56	N
ATOM	631	CA	GLY A 80	13.469	-2.559	-12.828	1.00	94.56	C
ATOM	632	C	GLY A 80	12.727	-2.271	-11.531	1.00	94.56	C
ATOM	633	O	GLY A 80	13.312	-2.303	-10.453	1.00	94.56	O
ATOM	634	N	ILE A 81	11.445	-1.895	-11.570	1.00	95.75	N
ATOM	635	CA	ILE A 81	10.641	-1.564	-10.398	1.00	95.75	C
ATOM	636	C	ILE A 81	9.375	-2.422	-10.383	1.00	95.75	C
ATOM	637	CB	ILE A 81	10.273	-0.065	-10.367	1.00	95.75	C
ATOM	638	O	ILE A 81	8.820	-2.738	-11.430	1.00	95.75	O
ATOM	639	CG1	ILE A 81	11.539	0.798	-10.398	1.00	95.75	C
ATOM	640	CG2	ILE A 81	9.414	0.257	-9.141	1.00	95.75	C
ATOM	641	CD1	ILE A 81	12.359	0.737	-9.109	1.00	95.75	C
ATOM	642	N	LYS A 82	8.938	-2.742	-9.250	1.00	96.62	N
ATOM	643	CA	LYS A 82	7.684	-3.449	-8.992	1.00	96.62	C
ATOM	644	C	LYS A 82	6.867	-2.742	-7.918	1.00	96.62	C
ATOM	645	CB	LYS A 82	7.961	-4.895	-8.578	1.00	96.62	C
ATOM	646	O	LYS A 82	7.406	-2.342	-6.883	1.00	96.62	O
ATOM	647	CG	LYS A 82	6.703	-5.711	-8.320	1.00	96.62	C
ATOM	648	CD	LYS A 82	7.043	-7.129	-7.871	1.00	96.62	C
ATOM	649	CE	LYS A 82	5.785	-7.926	-7.539	1.00	96.62	C
ATOM	650	NZ	LYS A 82	6.113	-9.320	-7.109	1.00	96.62	N
ATOM	651	N	VAL A 83	5.539	-2.549	-8.188	1.00	97.25	N
ATOM	652	CA	VAL A 83	4.641	-1.937	-7.215	1.00	97.25	C
ATOM	653	C	VAL A 83	3.496	-2.895	-6.895	1.00	97.25	C
ATOM	654	CB	VAL A 83	4.082	-0.590	-7.727	1.00	97.25	C
ATOM	655	O	VAL A 83	2.873	-3.453	-7.801	1.00	97.25	O
ATOM	656	CG1	VAL A 83	3.062	-0.021	-6.742	1.00	97.25	C
ATOM	657	CG2	VAL A 83	5.219	0.405	-7.957	1.00	97.25	C
ATOM	658	N	THR A 84	3.283	-3.082	-5.656	1.00	97.38	N
ATOM	659	CA	THR A 84	2.172	-3.912	-5.199	1.00	97.38	C
ATOM	660	C	THR A 84	1.204	-3.098	-4.348	1.00	97.38	C
ATOM	661	CB	THR A 84	2.676	-5.125	-4.395	1.00	97.38	C
ATOM	662	O	THR A 84	1.620	-2.398	-3.422	1.00	97.38	O
ATOM	663	CG2	THR A 84	1.518	-6.023	-3.971	1.00	97.38	C
ATOM	664	OG1	THR A 84	3.584	-5.883	-5.203	1.00	97.38	O
ATOM	665	N	LEU A 85	-0.055	-3.135	-4.727	1.00	97.62	N
ATOM	666	CA	LEU A 85	-1.132	-2.545	-3.938	1.00	97.62	C

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ATOM	667	C	LEU A 85	-2.027	-3.627	-3.344	1.00	97.62	C
ATOM	668	CB	LEU A 85	-1.965	-1.592	-4.797	1.00	97.62	C
ATOM	669	O	LEU A 85	-2.523	-4.492	-4.066	1.00	97.62	O
ATOM	670	CG	LEU A 85	-3.246	-1.049	-4.160	1.00	97.62	C
ATOM	671	CD1	LEU A 85	-2.910	-0.176	-2.957	1.00	97.62	C
ATOM	672	CD2	LEU A 85	-4.062	-0.267	-5.184	1.00	97.62	C
ATOM	673	N	GLU A 86	-2.201	-3.549	-2.111	1.00	98.06	N
ATOM	674	CA	GLU A 86	-3.061	-4.492	-1.400	1.00	98.06	C
ATOM	675	C	GLU A 86	-4.121	-3.760	-0.584	1.00	98.06	C
ATOM	676	CB	GLU A 86	-2.227	-5.395	-0.489	1.00	98.06	C
ATOM	677	O	GLU A 86	-3.805	-2.852	0.188	1.00	98.06	O
ATOM	678	CG	GLU A 86	-3.039	-6.465	0.225	1.00	98.06	C
ATOM	679	CD	GLU A 86	-2.221	-7.277	1.218	1.00	98.06	C
ATOM	680	OE1	GLU A 86	-1.911	-6.758	2.314	1.00	98.06	O
ATOM	681	OE2	GLU A 86	-1.888	-8.438	0.895	1.00	98.06	O
ATOM	682	N	ILE A 87	-5.406	-4.168	-0.774	1.00	97.88	N
ATOM	683	CA	ILE A 87	-6.531	-3.670	0.008	1.00	97.88	C
ATOM	684	C	ILE A 87	-7.246	-4.836	0.689	1.00	97.88	C
ATOM	685	CB	ILE A 87	-7.527	-2.877	-0.872	1.00	97.88	C
ATOM	686	O	ILE A 87	-7.688	-5.773	0.024	1.00	97.88	O
ATOM	687	CG1	ILE A 87	-6.785	-1.801	-1.675	1.00	97.88	C
ATOM	688	CG2	ILE A 87	-8.633	-2.256	-0.013	1.00	97.88	C
ATOM	689	CD1	ILE A 87	-7.660	-1.072	-2.686	1.00	97.88	C
ATOM	690	N	ARG A 88	-7.410	-4.723	1.979	1.00	97.88	N
ATOM	691	CA	ARG A 88	-8.047	-5.828	2.691	1.00	97.88	C
ATOM	692	C	ARG A 88	-8.789	-5.332	3.926	1.00	97.88	C
ATOM	693	CB	ARG A 88	-7.000	-6.875	3.094	1.00	97.88	C
ATOM	694	O	ARG A 88	-8.562	-4.211	4.387	1.00	97.88	O
ATOM	695	CG	ARG A 88	-6.008	-6.383	4.137	1.00	97.88	C
ATOM	696	CD	ARG A 88	-4.988	-7.457	4.488	1.00	97.88	C
ATOM	697	NE	ARG A 88	-4.047	-6.988	5.504	1.00	97.88	N
ATOM	698	NH1	ARG A 88	-3.027	-9.039	5.797	1.00	97.88	N
ATOM	699	NH2	ARG A 88	-2.328	-7.227	7.012	1.00	97.88	N
ATOM	700	CZ	ARG A 88	-3.137	-7.754	6.102	1.00	97.88	C
ATOM	701	N	LEU A 89	-9.695	-6.211	4.336	1.00	96.81	N
ATOM	702	CA	LEU A 89	-10.398	-5.957	5.590	1.00	96.81	C
ATOM	703	C	LEU A 89	-9.758	-6.723	6.738	1.00	96.81	C
ATOM	704	CB	LEU A 89	-11.875	-6.348	5.461	1.00	96.81	C
ATOM	705	O	LEU A 89	-9.500	-7.922	6.625	1.00	96.81	O
ATOM	706	CG	LEU A 89	-12.812	-5.785	6.527	1.00	96.81	C
ATOM	707	CD1	LEU A 89	-13.094	-4.309	6.270	1.00	96.81	C
ATOM	708	CD2	LEU A 89	-14.117	-6.578	6.562	1.00	96.81	C
ATOM	709	N	GLU A 90	-9.258	-6.023	7.703	1.00	94.50	N
ATOM	710	CA	GLU A 90	-8.773	-6.656	8.930	1.00	94.50	C
ATOM	711	C	GLU A 90	-9.898	-6.805	9.953	1.00	94.50	C
ATOM	712	CB	GLU A 90	-7.617	-5.852	9.523	1.00	94.50	C
ATOM	713	O	GLU A 90	-10.492	-5.812	10.375	1.00	94.50	O
ATOM	714	CG	GLU A 90	-6.945	-6.527	10.711	1.00	94.50	C
ATOM	715	CD	GLU A 90	-5.750	-5.754	11.242	1.00	94.50	C
ATOM	716	OE1	GLU A 90	-5.949	-4.711	11.906	1.00	94.50	O
ATOM	717	OE2	GLU A 90	-4.605	-6.195	11.000	1.00	94.50	O
ATOM	718	N	ARG A 91	-10.195	-8.188	10.227	1.00	88.31	N
ATOM	719	CA	ARG A 91	-11.250	-8.523	11.180	1.00	88.31	C

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ATOM	720	C	ARG A 91	-10.680	-8.727	12.578	1.00	88.31	C
ATOM	721	CB	ARG A 91	-12.000	-9.781	10.727	1.00	88.31	C
ATOM	722	O	ARG A 91	-9.680	-9.430	12.750	1.00	88.31	O
ATOM	723	CG	ARG A 91	-12.695	-9.633	9.383	1.00	88.31	C
ATOM	724	CD	ARG A 91	-13.516	-10.867	9.039	1.00	88.31	C
ATOM	725	NE	ARG A 91	-14.219	-10.703	7.770	1.00	88.31	N
ATOM	726	NH1	ARG A 91	-15.062	-12.859	7.727	1.00	88.31	N
ATOM	727	NH2	ARG A 91	-15.539	-11.406	6.020	1.00	88.31	N
ATOM	728	CZ	ARG A 91	-14.938	-11.656	7.176	1.00	88.31	C
ATOM	729	N	GLY A 92	-10.922	-7.801	13.461	1.00	86.19	N
ATOM	730	CA	GLY A 92	-10.648	-7.855	14.883	1.00	86.19	C
ATOM	731	C	GLY A 92	-11.781	-7.312	15.734	1.00	86.19	C
ATOM	732	O	GLY A 92	-12.953	-7.504	15.406	1.00	86.19	O
ATOM	733	N	ARG A 93	-11.344	-6.820	16.938	1.00	84.00	N
ATOM	734	CA	ARG A 93	-12.375	-6.211	17.766	1.00	84.00	C
ATOM	735	C	ARG A 93	-13.109	-5.113	17.016	1.00	84.00	C
ATOM	736	CB	ARG A 93	-11.766	-5.648	19.047	1.00	84.00	C
ATOM	737	O	ARG A 93	-14.328	-4.980	17.125	1.00	84.00	O
ATOM	738	CG	ARG A 93	-12.789	-5.199	20.078	1.00	84.00	C
ATOM	739	CD	ARG A 93	-12.133	-4.754	21.375	1.00	84.00	C
ATOM	740	NE	ARG A 93	-13.125	-4.469	22.406	1.00	84.00	N
ATOM	741	NH1	ARG A 93	-11.586	-3.732	23.969	1.00	84.00	N
ATOM	742	NH2	ARG A 93	-13.820	-3.764	24.484	1.00	84.00	N
ATOM	743	CZ	ARG A 93	-12.836	-3.988	23.625	1.00	84.00	C
ATOM	744	N	ARG A 94	-12.266	-4.504	16.156	1.00	86.12	N
ATOM	745	CA	ARG A 94	-12.758	-3.482	15.242	1.00	86.12	C
ATOM	746	C	ARG A 94	-12.320	-3.781	13.812	1.00	86.12	C
ATOM	747	CB	ARG A 94	-12.258	-2.098	15.664	1.00	86.12	C
ATOM	748	O	ARG A 94	-11.156	-4.121	13.570	1.00	86.12	O
ATOM	749	CG	ARG A 94	-12.820	-1.622	17.000	1.00	86.12	C
ATOM	750	CD	ARG A 94	-12.344	-0.215	17.328	1.00	86.12	C
ATOM	751	NE	ARG A 94	-12.961	0.276	18.562	1.00	86.12	N
ATOM	752	NH1	ARG A 94	-11.805	2.275	18.594	1.00	86.12	N
ATOM	753	NH2	ARG A 94	-13.305	1.795	20.250	1.00	86.12	N
ATOM	754	CZ	ARG A 94	-12.688	1.448	19.125	1.00	86.12	C
ATOM	755	N	GLU A 95	-13.414	-3.695	12.945	1.00	93.44	N
ATOM	756	CA	GLU A 95	-13.070	-3.934	11.547	1.00	93.44	C
ATOM	757	C	GLU A 95	-12.375	-2.719	10.938	1.00	93.44	C
ATOM	758	CB	GLU A 95	-14.320	-4.289	10.734	1.00	93.44	C
ATOM	759	O	GLU A 95	-12.859	-1.592	11.062	1.00	93.44	O
ATOM	760	CG	GLU A 95	-14.977	-5.594	11.156	1.00	93.44	C
ATOM	761	CD	GLU A 95	-16.156	-5.984	10.281	1.00	93.44	C
ATOM	762	OE1	GLU A 95	-15.969	-6.781	9.336	1.00	93.44	O
ATOM	763	OE2	GLU A 95	-17.266	-5.488	10.539	1.00	93.44	O
ATOM	764	N	ARG A 96	-11.172	-3.014	10.273	1.00	96.00	N
ATOM	765	CA	ARG A 96	-10.422	-1.937	9.633	1.00	96.00	C
ATOM	766	C	ARG A 96	-10.133	-2.260	8.172	1.00	96.00	C
ATOM	767	CB	ARG A 96	-9.109	-1.682	10.383	1.00	96.00	C
ATOM	768	O	ARG A 96	-9.883	-3.414	7.824	1.00	96.00	O
ATOM	769	CG	ARG A 96	-9.297	-1.165	11.797	1.00	96.00	C
ATOM	770	CD	ARG A 96	-7.961	-0.896	12.484	1.00	96.00	C
ATOM	771	NE	ARG A 96	-8.141	-0.342	13.820	1.00	96.00	N
ATOM	772	NH1	ARG A 96	-5.980	-0.775	14.516	1.00	96.00	N

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ATOM	773	NH2 ARG A 96	-7.473	0.230	15.938	1.00	96.00	N
ATOM	774	CZ ARG A 96	-7.199	-0.297	14.758	1.00	96.00	C
ATOM	775	N LEU A 97	-10.266	-1.191	7.418	1.00	97.12	N
ATOM	776	CA LEU A 97	-9.781	-1.286	6.047	1.00	97.12	C
ATOM	777	C LEU A 97	-8.281	-1.004	5.980	1.00	97.12	C
ATOM	778	CB LEU A 97	-10.539	-0.311	5.141	1.00	97.12	C
ATOM	779	O LEU A 97	-7.820	0.030	6.465	1.00	97.12	O
ATOM	780	CG LEU A 97	-10.234	-0.404	3.645	1.00	97.12	C
ATOM	781	CD1 LEU A 97	-10.828	-1.686	3.066	1.00	97.12	C
ATOM	782	CD2 LEU A 97	-10.781	0.818	2.914	1.00	97.12	C
ATOM	783	N VAL A 98	-7.512	-1.905	5.434	1.00	97.25	N
ATOM	784	CA VAL A 98	-6.059	-1.791	5.355	1.00	97.25	C
ATOM	785	C VAL A 98	-5.625	-1.651	3.898	1.00	97.25	C
ATOM	786	CB VAL A 98	-5.359	-3.006	6.008	1.00	97.25	C
ATOM	787	O VAL A 98	-5.977	-2.484	3.059	1.00	97.25	O
ATOM	788	CG1 VAL A 98	-3.842	-2.818	6.008	1.00	97.25	C
ATOM	789	CG2 VAL A 98	-5.875	-3.221	7.426	1.00	97.25	C
ATOM	790	N ILE A 99	-4.906	-0.600	3.641	1.00	97.69	N
ATOM	791	CA ILE A 99	-4.352	-0.345	2.314	1.00	97.69	C
ATOM	792	C ILE A 99	-2.828	-0.319	2.391	1.00	97.69	C
ATOM	793	CB ILE A 99	-4.883	0.980	1.726	1.00	97.69	C
ATOM	794	O ILE A 99	-2.250	0.473	3.141	1.00	97.69	O
ATOM	795	CG1 ILE A 99	-6.414	0.964	1.669	1.00	97.69	C
ATOM	796	CG2 ILE A 99	-4.285	1.231	0.337	1.00	97.69	C
ATOM	797	CD1 ILE A 99	-7.039	2.320	1.372	1.00	97.69	C
ATOM	798	N THR A 100	-2.189	-1.145	1.623	1.00	97.81	N
ATOM	799	CA THR A 100	-0.733	-1.221	1.609	1.00	97.81	C
ATOM	800	C THR A 100	-0.193	-1.008	0.198	1.00	97.81	C
ATOM	801	CB THR A 100	-0.240	-2.574	2.152	1.00	97.81	C
ATOM	802	O THR A 100	-0.634	-1.666	-0.746	1.00	97.81	O
ATOM	803	CG2 THR A 100	1.282	-2.611	2.236	1.00	97.81	C
ATOM	804	OG1 THR A 100	-0.784	-2.785	3.461	1.00	97.81	O
ATOM	805	N VAL A 101	0.743	-0.055	0.058	1.00	97.81	N
ATOM	806	CA VAL A 101	1.469	0.173	-1.187	1.00	97.81	C
ATOM	807	C VAL A 101	2.945	-0.168	-0.995	1.00	97.81	C
ATOM	808	CB VAL A 101	1.317	1.632	-1.673	1.00	97.81	C
ATOM	809	O VAL A 101	3.598	0.360	-0.092	1.00	97.81	O
ATOM	810	CG1 VAL A 101	1.969	1.815	-3.043	1.00	97.81	C
ATOM	811	CG2 VAL A 101	-0.157	2.027	-1.722	1.00	97.81	C
ATOM	812	N THR A 102	3.404	-1.037	-1.848	1.00	97.25	N
ATOM	813	CA THR A 102	4.801	-1.446	-1.739	1.00	97.25	C
ATOM	814	C THR A 102	5.539	-1.196	-3.051	1.00	97.25	C
ATOM	815	CB THR A 102	4.918	-2.932	-1.355	1.00	97.25	C
ATOM	816	O THR A 102	5.074	-1.599	-4.117	1.00	97.25	O
ATOM	817	CG2 THR A 102	6.375	-3.330	-1.143	1.00	97.25	C
ATOM	818	OG1 THR A 102	4.188	-3.166	-0.144	1.00	97.25	O
ATOM	819	N LEU A 103	6.629	-0.460	-2.938	1.00	97.31	N
ATOM	820	CA LEU A 103	7.570	-0.289	-4.043	1.00	97.31	C
ATOM	821	C LEU A 103	8.805	-1.156	-3.840	1.00	97.31	C
ATOM	822	CB LEU A 103	7.977	1.181	-4.176	1.00	97.31	C
ATOM	823	O LEU A 103	9.438	-1.106	-2.783	1.00	97.31	O
ATOM	824	CG LEU A 103	9.102	1.483	-5.164	1.00	97.31	C
ATOM	825	CD1 LEU A 103	8.633	1.252	-6.594	1.00	97.31	C

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ATOM	826	CD2 LEU A 103	9.602	2.914	-4.984	1.00	97.31	C
ATOM	827	N THR A 104	9.102	-1.903	-4.852	1.00	95.56	N
ATOM	828	CA THR A 104	10.312	-2.715	-4.836	1.00	95.56	C
ATOM	829	C THR A 104	11.250	-2.316	-5.977	1.00	95.56	C
ATOM	830	CB THR A 104	9.984	-4.215	-4.941	1.00	95.56	C
ATOM	831	O THR A 104	10.844	-2.309	-7.145	1.00	95.56	O
ATOM	832	CG2 THR A 104	11.242	-5.066	-4.809	1.00	95.56	C
ATOM	833	OG1 THR A 104	9.070	-4.570	-3.900	1.00	95.56	O
ATOM	834	N ASP A 105	12.477	-1.927	-5.555	1.00	93.75	N
ATOM	835	CA ASP A 105	13.516	-1.659	-6.547	1.00	93.75	C
ATOM	836	C ASP A 105	14.312	-2.922	-6.863	1.00	93.75	C
ATOM	837	CB ASP A 105	14.453	-0.551	-6.059	1.00	93.75	C
ATOM	838	O ASP A 105	15.164	-3.340	-6.070	1.00	93.75	O
ATOM	839	CG ASP A 105	15.414	-0.071	-7.133	1.00	93.75	C
ATOM	840	OD1 ASP A 105	15.703	-0.836	-8.078	1.00	93.75	O
ATOM	841	OD2 ASP A 105	15.883	1.083	-7.035	1.00	93.75	O
ATOM	842	N LEU A 106	14.070	-3.475	-8.039	1.00	92.12	N
ATOM	843	CA LEU A 106	14.641	-4.766	-8.406	1.00	92.12	C
ATOM	844	C LEU A 106	16.109	-4.625	-8.766	1.00	92.12	C
ATOM	845	CB LEU A 106	13.867	-5.387	-9.570	1.00	92.12	C
ATOM	846	O LEU A 106	16.859	-5.605	-8.727	1.00	92.12	O
ATOM	847	CG LEU A 106	12.391	-5.676	-9.328	1.00	92.12	C
ATOM	848	CD1 LEU A 106	11.711	-6.102	-10.625	1.00	92.12	C
ATOM	849	CD2 LEU A 106	12.227	-6.746	-8.258	1.00	92.12	C
ATOM	850	N LYS A 107	16.516	-3.424	-8.969	1.00	89.12	N
ATOM	851	CA LYS A 107	17.906	-3.160	-9.367	1.00	89.12	C
ATOM	852	C LYS A 107	18.766	-2.828	-8.148	1.00	89.12	C
ATOM	853	CB LYS A 107	17.969	-2.018	-10.383	1.00	89.12	C
ATOM	854	O LYS A 107	20.000	-2.920	-8.211	1.00	89.12	O
ATOM	855	CG LYS A 107	17.312	-2.340	-11.711	1.00	89.12	C
ATOM	856	CD LYS A 107	17.469	-1.197	-12.711	1.00	89.12	C
ATOM	857	CE LYS A 107	16.859	-1.534	-14.055	1.00	89.12	C
ATOM	858	NZ LYS A 107	17.016	-0.415	-15.031	1.00	89.12	N
ATOM	859	N ASP A 108	18.062	-2.438	-7.121	1.00	88.75	N
ATOM	860	CA ASP A 108	18.766	-2.117	-5.879	1.00	88.75	C
ATOM	861	C ASP A 108	18.750	-3.307	-4.922	1.00	88.75	C
ATOM	862	CB ASP A 108	18.125	-0.898	-5.207	1.00	88.75	C
ATOM	863	O ASP A 108	17.719	-3.617	-4.320	1.00	88.75	O
ATOM	864	CG ASP A 108	18.922	-0.391	-4.023	1.00	88.75	C
ATOM	865	OD1 ASP A 108	19.797	-1.135	-3.504	1.00	88.75	O
ATOM	866	OD2 ASP A 108	18.688	0.763	-3.600	1.00	88.75	O
ATOM	867	N LYS A 109	19.938	-3.961	-4.707	1.00	89.06	N
ATOM	868	CA LYS A 109	20.031	-5.195	-3.932	1.00	89.06	C
ATOM	869	C LYS A 109	20.547	-4.918	-2.521	1.00	89.06	C
ATOM	870	CB LYS A 109	20.938	-6.203	-4.633	1.00	89.06	C
ATOM	871	O LYS A 109	21.188	-5.781	-1.907	1.00	89.06	O
ATOM	872	CG LYS A 109	20.500	-6.559	-6.043	1.00	89.06	C
ATOM	873	CD LYS A 109	19.156	-7.266	-6.043	1.00	89.06	C
ATOM	874	CE LYS A 109	18.734	-7.680	-7.449	1.00	89.06	C
ATOM	875	NZ LYS A 109	17.359	-8.273	-7.469	1.00	89.06	N
ATOM	876	N SER A 110	20.281	-3.621	-2.135	1.00	88.81	N
ATOM	877	CA SER A 110	20.781	-3.203	-0.831	1.00	88.81	C
ATOM	878	C SER A 110	20.047	-3.920	0.301	1.00	88.81	C

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ATOM	879	CB	SER A 110	20.641	-1.689	-0.661	1.00	88.81	C
ATOM	880	O	SER A 110	20.578	-4.027	1.412	1.00	88.81	O
ATOM	881	OG	SER A 110	19.266	-1.322	-0.545	1.00	88.81	O
ATOM	882	N	GLY A 111	18.797	-4.332	-0.012	1.00	88.88	N
ATOM	883	CA	GLY A 111	17.984	-4.945	1.021	1.00	88.88	C
ATOM	884	C	GLY A 111	17.375	-3.939	1.977	1.00	88.88	C
ATOM	885	O	GLY A 111	16.781	-4.316	2.990	1.00	88.88	O
ATOM	886	N	GLU A 112	17.578	-2.730	1.707	1.00	92.12	N
ATOM	887	CA	GLU A 112	17.031	-1.688	2.562	1.00	92.12	C
ATOM	888	C	GLU A 112	15.500	-1.708	2.539	1.00	92.12	C
ATOM	889	CB	GLU A 112	17.547	-0.310	2.137	1.00	92.12	C
ATOM	890	O	GLU A 112	14.891	-1.928	1.487	1.00	92.12	O
ATOM	891	CG	GLU A 112	17.234	0.798	3.133	1.00	92.12	C
ATOM	892	CD	GLU A 112	17.828	2.141	2.740	1.00	92.12	C
ATOM	893	OE1	GLU A 112	17.141	2.924	2.037	1.00	92.12	O
ATOM	894	OE2	GLU A 112	18.984	2.412	3.141	1.00	92.12	O
ATOM	895	N	LYS A 113	14.922	-1.503	3.738	1.00	94.12	N
ATOM	896	CA	LYS A 113	13.469	-1.487	3.893	1.00	94.12	C
ATOM	897	C	LYS A 113	13.000	-0.200	4.566	1.00	94.12	C
ATOM	898	CB	LYS A 113	13.000	-2.701	4.699	1.00	94.12	C
ATOM	899	O	LYS A 113	13.500	0.167	5.629	1.00	94.12	O
ATOM	900	CG	LYS A 113	13.312	-4.035	4.039	1.00	94.12	C
ATOM	901	CD	LYS A 113	12.805	-5.203	4.879	1.00	94.12	C
ATOM	902	CE	LYS A 113	13.164	-6.543	4.250	1.00	94.12	C
ATOM	903	NZ	LYS A 113	12.664	-7.691	5.066	1.00	94.12	N
ATOM	904	N	GLU A 114	12.148	0.480	3.904	1.00	95.75	N
ATOM	905	CA	GLU A 114	11.477	1.643	4.477	1.00	95.75	C
ATOM	906	C	GLU A 114	9.977	1.389	4.645	1.00	95.75	C
ATOM	907	CB	GLU A 114	11.703	2.881	3.605	1.00	95.75	C
ATOM	908	O	GLU A 114	9.305	0.988	3.693	1.00	95.75	O
ATOM	909	CG	GLU A 114	13.102	3.469	3.729	1.00	95.75	C
ATOM	910	CD	GLU A 114	13.164	4.945	3.377	1.00	95.75	C
ATOM	911	OE1	GLU A 114	13.547	5.762	4.246	1.00	95.75	O
ATOM	912	OE2	GLU A 114	12.828	5.293	2.223	1.00	95.75	O
ATOM	913	N	GLU A 115	9.492	1.686	5.875	1.00	97.06	N
ATOM	914	CA	GLU A 115	8.086	1.432	6.156	1.00	97.06	C
ATOM	915	C	GLU A 115	7.438	2.627	6.848	1.00	97.06	C
ATOM	916	CB	GLU A 115	7.926	0.176	7.016	1.00	97.06	C
ATOM	917	O	GLU A 115	8.086	3.320	7.637	1.00	97.06	O
ATOM	918	CG	GLU A 115	8.492	-1.084	6.379	1.00	97.06	C
ATOM	919	CD	GLU A 115	8.375	-2.312	7.266	1.00	97.06	C
ATOM	920	OE1	GLU A 115	7.766	-3.318	6.832	1.00	97.06	O
ATOM	921	OE2	GLU A 115	8.891	-2.268	8.406	1.00	97.06	O
ATOM	922	N	LYS A 116	6.289	2.928	6.457	1.00	97.00	N
ATOM	923	CA	LYS A 116	5.461	3.945	7.098	1.00	97.00	C
ATOM	924	C	LYS A 116	4.031	3.445	7.301	1.00	97.00	C
ATOM	925	CB	LYS A 116	5.457	5.234	6.273	1.00	97.00	C
ATOM	926	O	LYS A 116	3.463	2.807	6.414	1.00	97.00	O
ATOM	927	CG	LYS A 116	4.758	6.402	6.953	1.00	97.00	C
ATOM	928	CD	LYS A 116	4.957	7.699	6.184	1.00	97.00	C
ATOM	929	CE	LYS A 116	4.320	8.883	6.898	1.00	97.00	C
ATOM	930	NZ	LYS A 116	4.523	10.156	6.148	1.00	97.00	N
ATOM	931	N	GLU A 117	3.545	3.752	8.500	1.00	97.06	N

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ATOM	932	CA	GLU A 117	2.186	3.328	8.820	1.00	97.06	C
ATOM	933	C	GLU A 117	1.368	4.480	9.391	1.00	97.06	C
ATOM	934	CB	GLU A 117	2.201	2.154	9.797	1.00	97.06	C
ATOM	935	O	GLU A 117	1.887	5.293	10.164	1.00	97.06	O
ATOM	936	CG	GLU A 117	0.817	1.637	10.164	1.00	97.06	C
ATOM	937	CD	GLU A 117	0.849	0.482	11.148	1.00	97.06	C
ATOM	938	OE1	GLU A 117	0.901	0.734	12.375	1.00	97.06	O
ATOM	939	OE2	GLU A 117	0.823	-0.683	10.695	1.00	97.06	O
ATOM	940	N	GLU A 118	0.040	4.500	8.969	1.00	96.44	N
ATOM	941	CA	GLU A 118	-0.912	5.484	9.469	1.00	96.44	C
ATOM	942	C	GLU A 118	-2.254	4.836	9.805	1.00	96.44	C
ATOM	943	CB	GLU A 118	-1.110	6.609	8.453	1.00	96.44	C
ATOM	944	O	GLU A 118	-2.770	4.031	9.023	1.00	96.44	O
ATOM	945	CG	GLU A 118	-1.925	7.781	8.984	1.00	96.44	C
ATOM	946	CD	GLU A 118	-1.943	8.977	8.039	1.00	96.44	C
ATOM	947	OE1	GLU A 118	-2.867	9.070	7.195	1.00	96.44	O
ATOM	948	OE2	GLU A 118	-1.027	9.820	8.141	1.00	96.44	O
ATOM	949	N	VAL A 119	-2.818	5.254	10.961	1.00	92.56	N
ATOM	950	CA	VAL A 119	-4.090	4.695	11.422	1.00	92.56	C
ATOM	951	C	VAL A 119	-5.070	5.824	11.727	1.00	92.56	C
ATOM	952	CB	VAL A 119	-3.900	3.801	12.664	1.00	92.56	C
ATOM	953	O	VAL A 119	-4.727	6.785	12.414	1.00	92.56	O
ATOM	954	CG1	VAL A 119	-5.227	3.170	13.078	1.00	92.56	C
ATOM	955	CG2	VAL A 119	-2.855	2.721	12.391	1.00	92.56	C
ATOM	956	N	ILE A 120	-6.324	5.621	11.180	1.00	90.88	N
ATOM	957	CA	ILE A 120	-7.391	6.586	11.430	1.00	90.88	C
ATOM	958	C	ILE A 120	-8.523	5.910	12.195	1.00	90.88	C
ATOM	959	CB	ILE A 120	-7.926	7.195	10.109	1.00	90.88	C
ATOM	960	O	ILE A 120	-9.078	4.906	11.742	1.00	90.88	O
ATOM	961	CG1	ILE A 120	-6.789	7.887	9.344	1.00	90.88	C
ATOM	962	CG2	ILE A 120	-9.070	8.172	10.391	1.00	90.88	C
ATOM	963	CD1	ILE A 120	-6.223	9.109	10.055	1.00	90.88	C
ATOM	964	N	GLU A 121	-8.977	6.449	13.367	1.00	86.12	N
ATOM	965	CA	GLU A 121	-10.031	5.906	14.211	1.00	86.12	C
ATOM	966	C	GLU A 121	-11.305	6.750	14.117	1.00	86.12	C
ATOM	967	CB	GLU A 121	-9.570	5.824	15.672	1.00	86.12	C
ATOM	968	O	GLU A 121	-11.258	7.906	13.695	1.00	86.12	O
ATOM	969	CG	GLU A 121	-8.359	4.926	15.875	1.00	86.12	C
ATOM	970	CD	GLU A 121	-8.727	3.477	16.156	1.00	86.12	C
ATOM	971	OE1	GLU A 121	-8.305	2.588	15.375	1.00	86.12	O
ATOM	972	OE2	GLU A 121	-9.438	3.229	17.141	1.00	86.12	O
ATOM	973	N	PRO A 122	-12.492	6.066	14.383	1.00	71.00	N
ATOM	974	CA	PRO A 122	-13.742	6.828	14.445	1.00	71.00	C
ATOM	975	C	PRO A 122	-13.844	7.707	15.688	1.00	71.00	C
ATOM	976	CB	PRO A 122	-14.820	5.738	14.461	1.00	71.00	C
ATOM	977	O	PRO A 122	-13.352	7.328	16.750	1.00	71.00	O
ATOM	978	CG	PRO A 122	-14.086	4.480	14.805	1.00	71.00	C
ATOM	979	CD	PRO A 122	-12.617	4.715	14.586	1.00	71.00	C
TER									
ENDMDL									
MODEL	1								
ATOM	1	N	MET A 1	16.469	0.857	-12.078	1.00	84.31	N
ATOM	2	CA	MET A 1	15.734	0.024	-11.125	1.00	84.31	C

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ATOM	3	C	MET A	1	15.664	0.700	-9.758	1.00	84.31	C
ATOM	4	CB	MET A	1	16.406	-1.348	-10.992	1.00	84.31	C
ATOM	5	O	MET A	1	16.672	1.200	-9.258	1.00	84.31	O
ATOM	6	CG	MET A	1	15.516	-2.396	-10.336	1.00	84.31	C
ATOM	7	SD	MET A	1	16.234	-4.086	-10.445	1.00	84.31	S
ATOM	8	CE	MET A	1	14.914	-5.043	-9.656	1.00	84.31	C
ATOM	9	N	VAL A	2	14.414	0.991	-9.297	1.00	90.75	N
ATOM	10	CA	VAL A	2	14.195	1.601	-7.992	1.00	90.75	C
ATOM	11	C	VAL A	2	13.539	0.588	-7.055	1.00	90.75	C
ATOM	12	CB	VAL A	2	13.320	2.871	-8.102	1.00	90.75	C
ATOM	13	O	VAL A	2	12.969	-0.405	-7.504	1.00	90.75	O
ATOM	14	CG1	VAL A	2	13.969	3.898	-9.023	1.00	90.75	C
ATOM	15	CG2	VAL A	2	11.922	2.512	-8.586	1.00	90.75	C
ATOM	16	N	GLU A	3	13.742	0.840	-5.902	1.00	93.44	N
ATOM	17	CA	GLU A	3	13.039	0.108	-4.852	1.00	93.44	C
ATOM	18	C	GLU A	3	11.898	0.935	-4.266	1.00	93.44	C
ATOM	19	CB	GLU A	3	14.016	-0.303	-3.744	1.00	93.44	C
ATOM	20	O	GLU A	3	12.094	2.092	-3.887	1.00	93.44	O
ATOM	21	CG	GLU A	3	15.023	-1.360	-4.172	1.00	93.44	C
ATOM	22	CD	GLU A	3	15.938	-1.810	-3.045	1.00	93.44	C
ATOM	23	OE1	GLU A	3	16.109	-3.035	-2.854	1.00	93.44	O
ATOM	24	OE2	GLU A	3	16.484	-0.929	-2.348	1.00	93.44	O
ATOM	25	N	GLY A	4	10.750	0.301	-4.273	1.00	95.94	N
ATOM	26	CA	GLY A	4	9.586	0.979	-3.725	1.00	95.94	C
ATOM	27	C	GLY A	4	8.984	0.259	-2.533	1.00	95.94	C
ATOM	28	O	GLY A	4	8.961	-0.973	-2.492	1.00	95.94	O
ATOM	29	N	VAL A	5	8.570	1.036	-1.567	1.00	96.44	N
ATOM	30	CA	VAL A	5	7.902	0.469	-0.399	1.00	96.44	C
ATOM	31	C	VAL A	5	6.594	1.212	-0.140	1.00	96.44	C
ATOM	32	CB	VAL A	5	8.805	0.526	0.853	1.00	96.44	C
ATOM	33	O	VAL A	5	6.574	2.443	-0.062	1.00	96.44	O
ATOM	34	CG1	VAL A	5	8.086	-0.073	2.062	1.00	96.44	C
ATOM	35	CG2	VAL A	5	10.125	-0.202	0.593	1.00	96.44	C
ATOM	36	N	LEU A	6	5.484	0.466	-0.138	1.00	97.62	N
ATOM	37	CA	LEU A	6	4.176	1.017	0.201	1.00	97.62	C
ATOM	38	C	LEU A	6	3.623	0.364	1.462	1.00	97.62	C
ATOM	39	CB	LEU A	6	3.197	0.826	-0.960	1.00	97.62	C
ATOM	40	O	LEU A	6	3.469	-0.858	1.518	1.00	97.62	O
ATOM	41	CG	LEU A	6	1.803	1.425	-0.775	1.00	97.62	C
ATOM	42	CD1	LEU A	6	1.884	2.945	-0.708	1.00	97.62	C
ATOM	43	CD2	LEU A	6	0.877	0.982	-1.903	1.00	97.62	C
ATOM	44	N	THR A	7	3.361	1.151	2.471	1.00	97.19	N
ATOM	45	CA	THR A	7	2.822	0.675	3.738	1.00	97.19	C
ATOM	46	C	THR A	7	1.341	1.023	3.863	1.00	97.19	C
ATOM	47	CB	THR A	7	3.594	1.270	4.934	1.00	97.19	C
ATOM	48	O	THR A	7	0.958	2.188	3.725	1.00	97.19	O
ATOM	49	CG2	THR A	7	3.111	0.674	6.250	1.00	97.19	C
ATOM	50	OG1	THR A	7	4.988	0.992	4.777	1.00	97.19	O
ATOM	51	N	ILE A	8	0.497	0.029	4.074	1.00	96.56	N
ATOM	52	CA	ILE A	8	-0.945	0.204	4.215	1.00	96.56	C
ATOM	53	C	ILE A	8	-1.363	-0.092	5.652	1.00	96.56	C
ATOM	54	CB	ILE A	8	-1.723	-0.701	3.230	1.00	96.56	C
ATOM	55	O	ILE A	8	-1.267	-1.233	6.109	1.00	96.56	O

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ATOM	56	CG1 ILE A	8	-1.235	-0.474	1.796	1.00	96.56	C
ATOM	57	CG2 ILE A	8	-3.229	-0.450	3.344	1.00	96.56	C
ATOM	58	CD1 ILE A	8	-1.523	-1.634	0.854	1.00	96.56	C
ATOM	59	N GLU A	9	-1.781	0.920	6.320	1.00	95.06	N
ATOM	60	CA GLU A	9	-2.211	0.785	7.711	1.00	95.06	C
ATOM	61	C GLU A	9	-3.730	0.835	7.824	1.00	95.06	C
ATOM	62	CB GLU A	9	-1.581	1.879	8.578	1.00	95.06	C
ATOM	63	O GLU A	9	-4.363	1.786	7.359	1.00	95.06	O
ATOM	64	CG GLU A	9	-0.061	1.819	8.633	1.00	95.06	C
ATOM	65	CD GLU A	9	0.549	2.914	9.492	1.00	95.06	C
ATOM	66	OE1 GLU A	9	0.679	2.719	10.727	1.00	95.06	O
ATOM	67	OE2 GLU A	9	0.901	3.977	8.938	1.00	95.06	O
ATOM	68	N LEU A	10	-4.258	-0.215	8.398	1.00	92.81	N
ATOM	69	CA LEU A	10	-5.695	-0.284	8.625	1.00	92.81	C
ATOM	70	C LEU A	10	-6.023	-0.084	10.102	1.00	92.81	C
ATOM	71	CB LEU A	10	-6.254	-1.627	8.148	1.00	92.81	C
ATOM	72	O LEU A	10	-5.477	-0.780	10.961	1.00	92.81	O
ATOM	73	CG LEU A	10	-6.008	-1.977	6.676	1.00	92.81	C
ATOM	74	CD1 LEU A	10	-6.273	-3.459	6.434	1.00	92.81	C
ATOM	75	CD2 LEU A	10	-6.883	-1.116	5.770	1.00	92.81	C
ATOM	76	N SER A	11	-6.789	0.928	10.391	1.00	90.75	N
ATOM	77	CA SER A	11	-7.195	1.200	11.766	1.00	90.75	C
ATOM	78	C SER A	11	-8.016	0.048	12.336	1.00	90.75	C
ATOM	79	CB SER A	11	-8.008	2.496	11.836	1.00	90.75	C
ATOM	80	O SER A	11	-8.625	-0.719	11.594	1.00	90.75	O
ATOM	81	OG SER A	11	-8.227	2.875	13.188	1.00	90.75	O
ATOM	82	N ASP A	12	-7.930	-0.189	13.648	1.00	88.00	N
ATOM	83	CA ASP A	12	-8.680	-1.242	14.328	1.00	88.00	C
ATOM	84	C ASP A	12	-10.180	-1.062	14.133	1.00	88.00	C
ATOM	85	CB ASP A	12	-8.344	-1.264	15.820	1.00	88.00	C
ATOM	86	O ASP A	12	-10.945	-2.020	14.250	1.00	88.00	O
ATOM	87	CG ASP A	12	-7.055	-2.010	16.125	1.00	88.00	C
ATOM	88	OD1 ASP A	12	-7.062	-3.260	16.141	1.00	88.00	O
ATOM	89	OD2 ASP A	12	-6.023	-1.342	16.359	1.00	88.00	O
ATOM	90	N SER A	13	-10.508	0.128	13.742	1.00	88.19	N
ATOM	91	CA SER A	13	-11.922	0.445	13.594	1.00	88.19	C
ATOM	92	C SER A	13	-12.453	-0.004	12.242	1.00	88.19	C
ATOM	93	CB SER A	13	-12.156	1.945	13.773	1.00	88.19	C
ATOM	94	O SER A	13	-13.664	-0.001	12.008	1.00	88.19	O
ATOM	95	OG SER A	13	-11.742	2.371	15.062	1.00	88.19	O
ATOM	96	N VAL A	14	-11.586	-0.406	11.367	1.00	90.19	N
ATOM	97	CA VAL A	14	-11.969	-0.854	10.031	1.00	90.19	C
ATOM	98	C VAL A	14	-12.586	-2.250	10.109	1.00	90.19	C
ATOM	99	CB VAL A	14	-10.766	-0.857	9.062	1.00	90.19	C
ATOM	100	O VAL A	14	-12.031	-3.145	10.750	1.00	90.19	O
ATOM	101	CG1 VAL A	14	-11.164	-1.401	7.695	1.00	90.19	C
ATOM	102	CG2 VAL A	14	-10.180	0.549	8.938	1.00	90.19	C
ATOM	103	N PRO A	15	-13.742	-2.355	9.508	1.00	90.44	N
ATOM	104	CA PRO A	15	-14.391	-3.670	9.516	1.00	90.44	C
ATOM	105	C PRO A	15	-13.523	-4.758	8.883	1.00	90.44	C
ATOM	106	CB PRO A	15	-15.664	-3.441	8.695	1.00	90.44	C
ATOM	107	O PRO A	15	-12.758	-4.480	7.953	1.00	90.44	O
ATOM	108	CG PRO A	15	-15.844	-1.958	8.680	1.00	90.44	C

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ATOM	109	CD	PRO A 15	-14.500	-1.312	8.859	1.00	90.44	C
ATOM	110	N	GLU A 16	-13.578	-5.961	9.359	1.00	91.62	N
ATOM	111	CA	GLU A 16	-12.797	-7.105	8.898	1.00	91.62	C
ATOM	112	C	GLU A 16	-13.039	-7.379	7.414	1.00	91.62	C
ATOM	113	CB	GLU A 16	-13.125	-8.352	9.719	1.00	91.62	C
ATOM	114	O	GLU A 16	-12.125	-7.789	6.695	1.00	91.62	O
ATOM	115	CG	GLU A 16	-12.562	-8.320	11.133	1.00	91.62	C
ATOM	116	CD	GLU A 16	-12.453	-9.695	11.766	1.00	91.62	C
ATOM	117	OE1	GLU A 16	-11.320	-10.227	11.867	1.00	91.62	O
ATOM	118	OE2	GLU A 16	-13.500	-10.250	12.164	1.00	91.62	O
ATOM	119	N	GLU A 17	-14.297	-7.152	7.016	1.00	92.19	N
ATOM	120	CA	GLU A 17	-14.641	-7.367	5.613	1.00	92.19	C
ATOM	121	C	GLU A 17	-13.812	-6.469	4.699	1.00	92.19	C
ATOM	122	CB	GLU A 17	-16.125	-7.125	5.383	1.00	92.19	C
ATOM	123	O	GLU A 17	-13.375	-6.895	3.629	1.00	92.19	O
ATOM	124	CG	GLU A 17	-16.594	-7.438	3.965	1.00	92.19	C
ATOM	125	CD	GLU A 17	-18.078	-7.180	3.746	1.00	92.19	C
ATOM	126	OE1	GLU A 17	-18.438	-6.066	3.309	1.00	92.19	O
ATOM	127	OE2	GLU A 17	-18.875	-8.102	4.016	1.00	92.19	O
ATOM	128	N	VAL A 18	-13.602	-5.188	5.133	1.00	91.94	N
ATOM	129	CA	VAL A 18	-12.820	-4.227	4.359	1.00	91.94	C
ATOM	130	C	VAL A 18	-11.344	-4.617	4.387	1.00	91.94	C
ATOM	131	CB	VAL A 18	-13.000	-2.789	4.898	1.00	91.94	C
ATOM	132	O	VAL A 18	-10.656	-4.555	3.365	1.00	91.94	O
ATOM	133	CG1	VAL A 18	-12.070	-1.820	4.164	1.00	91.94	C
ATOM	134	CG2	VAL A 18	-14.453	-2.346	4.758	1.00	91.94	C
ATOM	135	N	LYS A 19	-10.859	-5.105	5.590	1.00	90.94	N
ATOM	136	CA	LYS A 19	-9.469	-5.531	5.730	1.00	90.94	C
ATOM	137	C	LYS A 19	-9.141	-6.656	4.750	1.00	90.94	C
ATOM	138	CB	LYS A 19	-9.188	-5.988	7.164	1.00	90.94	C
ATOM	139	O	LYS A 19	-8.094	-6.625	4.094	1.00	90.94	O
ATOM	140	CG	LYS A 19	-9.203	-4.859	8.188	1.00	90.94	C
ATOM	141	CD	LYS A 19	-8.859	-5.367	9.578	1.00	90.94	C
ATOM	142	CE	LYS A 19	-8.953	-4.254	10.617	1.00	90.94	C
ATOM	143	NZ	LYS A 19	-8.562	-4.734	11.977	1.00	90.94	N
ATOM	144	N	GLU A 20	-10.078	-7.594	4.672	1.00	94.00	N
ATOM	145	CA	GLU A 20	-9.906	-8.727	3.771	1.00	94.00	C
ATOM	146	C	GLU A 20	-9.938	-8.289	2.312	1.00	94.00	C
ATOM	147	CB	GLU A 20	-10.984	-9.781	4.023	1.00	94.00	C
ATOM	148	O	GLU A 20	-9.156	-8.781	1.492	1.00	94.00	O
ATOM	149	CG	GLU A 20	-10.852	-10.492	5.363	1.00	94.00	C
ATOM	150	CD	GLU A 20	-11.703	-11.750	5.465	1.00	94.00	C
ATOM	151	OE1	GLU A 20	-11.148	-12.867	5.344	1.00	94.00	O
ATOM	152	OE2	GLU A 20	-12.930	-11.617	5.660	1.00	94.00	O
ATOM	153	N	LYS A 21	-10.797	-7.371	2.066	1.00	94.00	N
ATOM	154	CA	LYS A 21	-10.914	-6.840	0.712	1.00	94.00	C
ATOM	155	C	LYS A 21	-9.648	-6.086	0.304	1.00	94.00	C
ATOM	156	CB	LYS A 21	-12.133	-5.918	0.602	1.00	94.00	C
ATOM	157	O	LYS A 21	-9.203	-6.191	-0.839	1.00	94.00	O
ATOM	158	CG	LYS A 21	-12.508	-5.562	-0.828	1.00	94.00	C
ATOM	159	CD	LYS A 21	-13.859	-4.852	-0.889	1.00	94.00	C
ATOM	160	CE	LYS A 21	-14.242	-4.504	-2.320	1.00	94.00	C
ATOM	161	NZ	LYS A 21	-15.555	-3.789	-2.383	1.00	94.00	N

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ATOM	162	N	VAL A 22	-9.141	-5.320	1.209	1.00	94.12	N
ATOM	163	CA	VAL A 22	-7.910	-4.586	0.958	1.00	94.12	C
ATOM	164	C	VAL A 22	-6.781	-5.566	0.641	1.00	94.12	C
ATOM	165	CB	VAL A 22	-7.523	-3.699	2.162	1.00	94.12	C
ATOM	166	O	VAL A 22	-6.066	-5.398	-0.351	1.00	94.12	O
ATOM	167	CG1	VAL A 22	-6.105	-3.154	1.997	1.00	94.12	C
ATOM	168	CG2	VAL A 22	-8.523	-2.555	2.324	1.00	94.12	C
ATOM	169	N	LYS A 23	-6.680	-6.543	1.448	1.00	92.56	N
ATOM	170	CA	LYS A 23	-5.645	-7.551	1.249	1.00	92.56	C
ATOM	171	C	LYS A 23	-5.789	-8.227	-0.112	1.00	92.56	C
ATOM	172	CB	LYS A 23	-5.695	-8.602	2.361	1.00	92.56	C
ATOM	173	O	LYS A 23	-4.812	-8.367	-0.847	1.00	92.56	O
ATOM	174	CG	LYS A 23	-4.594	-9.648	2.275	1.00	92.56	C
ATOM	175	CD	LYS A 23	-4.680	-10.641	3.426	1.00	92.56	C
ATOM	176	CE	LYS A 23	-3.617	-11.727	3.307	1.00	92.56	C
ATOM	177	NZ	LYS A 23	-3.793	-12.789	4.340	1.00	92.56	N
ATOM	178	N	ALA A 24	-6.930	-8.680	-0.375	1.00	94.44	N
ATOM	179	CA	ALA A 24	-7.199	-9.359	-1.640	1.00	94.44	C
ATOM	180	C	ALA A 24	-6.879	-8.453	-2.826	1.00	94.44	C
ATOM	181	CB	ALA A 24	-8.656	-9.812	-1.699	1.00	94.44	C
ATOM	182	O	ALA A 24	-6.297	-8.898	-3.818	1.00	94.44	O
ATOM	183	N	THR A 25	-7.223	-7.227	-2.701	1.00	94.50	N
ATOM	184	CA	THR A 25	-6.996	-6.266	-3.773	1.00	94.50	C
ATOM	185	C	THR A 25	-5.504	-6.039	-3.990	1.00	94.50	C
ATOM	186	CB	THR A 25	-7.684	-4.918	-3.469	1.00	94.50	C
ATOM	187	O	THR A 25	-5.031	-6.035	-5.129	1.00	94.50	O
ATOM	188	CG2	THR A 25	-7.398	-3.896	-4.562	1.00	94.50	C
ATOM	189	OG1	THR A 25	-9.102	-5.121	-3.375	1.00	94.50	O
ATOM	190	N	VAL A 26	-4.773	-5.914	-2.945	1.00	94.81	N
ATOM	191	CA	VAL A 26	-3.336	-5.684	-3.031	1.00	94.81	C
ATOM	192	C	VAL A 26	-2.654	-6.902	-3.648	1.00	94.81	C
ATOM	193	CB	VAL A 26	-2.727	-5.379	-1.645	1.00	94.81	C
ATOM	194	O	VAL A 26	-1.799	-6.766	-4.527	1.00	94.81	O
ATOM	195	CG1	VAL A 26	-1.201	-5.340	-1.722	1.00	94.81	C
ATOM	196	CG2	VAL A 26	-3.270	-4.055	-1.104	1.00	94.81	C
ATOM	197	N	GLU A 27	-3.031	-8.031	-3.215	1.00	95.88	N
ATOM	198	CA	GLU A 27	-2.459	-9.266	-3.740	1.00	95.88	C
ATOM	199	C	GLU A 27	-2.760	-9.422	-5.227	1.00	95.88	C
ATOM	200	CB	GLU A 27	-2.986	-10.477	-2.963	1.00	95.88	C
ATOM	201	O	GLU A 27	-1.895	-9.844	-6.000	1.00	95.88	O
ATOM	202	CG	GLU A 27	-2.447	-10.578	-1.545	1.00	95.88	C
ATOM	203	CD	GLU A 27	-2.791	-11.891	-0.866	1.00	95.88	C
ATOM	204	OE1	GLU A 27	-1.872	-12.562	-0.344	1.00	95.88	O
ATOM	205	OE2	GLU A 27	-3.988	-12.258	-0.858	1.00	95.88	O
ATOM	206	N	GLU A 28	-3.943	-9.141	-5.516	1.00	96.31	N
ATOM	207	CA	GLU A 28	-4.352	-9.219	-6.914	1.00	96.31	C
ATOM	208	C	GLU A 28	-3.553	-8.250	-7.781	1.00	96.31	C
ATOM	209	CB	GLU A 28	-5.848	-8.945	-7.055	1.00	96.31	C
ATOM	210	O	GLU A 28	-3.074	-8.617	-8.852	1.00	96.31	O
ATOM	211	CG	GLU A 28	-6.363	-9.055	-8.484	1.00	96.31	C
ATOM	212	CD	GLU A 28	-7.824	-8.664	-8.633	1.00	96.31	C
ATOM	213	OE1	GLU A 28	-8.117	-7.457	-8.789	1.00	96.31	O
ATOM	214	OE2	GLU A 28	-8.688	-9.570	-8.578	1.00	96.31	O

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ATOM	215	N	LEU	A	29	-3.396	-7.031	-7.324	1.00	96.69	N
ATOM	216	CA	LEU	A	29	-2.660	-6.016	-8.070	1.00	96.69	C
ATOM	217	C	LEU	A	29	-1.177	-6.363	-8.141	1.00	96.69	C
ATOM	218	CB	LEU	A	29	-2.844	-4.641	-7.422	1.00	96.69	C
ATOM	219	O	LEU	A	29	-0.527	-6.117	-9.164	1.00	96.69	O
ATOM	220	CG	LEU	A	29	-4.227	-4.004	-7.562	1.00	96.69	C
ATOM	221	CD1	LEU	A	29	-4.316	-2.742	-6.711	1.00	96.69	C
ATOM	222	CD2	LEU	A	29	-4.531	-3.695	-9.023	1.00	96.69	C
ATOM	223	N	ALA	A	30	-0.692	-6.930	-7.121	1.00	95.44	N
ATOM	224	CA	ALA	A	30	0.702	-7.363	-7.102	1.00	95.44	C
ATOM	225	C	ALA	A	30	0.958	-8.438	-8.156	1.00	95.44	C
ATOM	226	CB	ALA	A	30	1.076	-7.883	-5.715	1.00	95.44	C
ATOM	227	O	ALA	A	30	1.965	-8.391	-8.867	1.00	95.44	O
ATOM	228	N	GLU	A	31	0.069	-9.383	-8.180	1.00	96.25	N
ATOM	229	CA	GLU	A	31	0.187	-10.445	-9.172	1.00	96.25	C
ATOM	230	C	GLU	A	31	0.141	-9.891	-10.594	1.00	96.25	C
ATOM	231	CB	GLU	A	31	-0.921	-11.484	-8.984	1.00	96.25	C
ATOM	232	O	GLU	A	31	0.924	-10.297	-11.453	1.00	96.25	O
ATOM	233	CG	GLU	A	31	-0.781	-12.711	-9.875	1.00	96.25	C
ATOM	234	CD	GLU	A	31	-1.867	-13.750	-9.648	1.00	96.25	C
ATOM	235	OE1	GLU	A	31	-2.975	-13.602	-10.219	1.00	96.25	O
ATOM	236	OE2	GLU	A	31	-1.608	-14.711	-8.898	1.00	96.25	O
ATOM	237	N	ARG	A	32	-0.743	-9.000	-10.766	1.00	94.94	N
ATOM	238	CA	ARG	A	32	-0.866	-8.367	-12.078	1.00	94.94	C
ATOM	239	C	ARG	A	32	0.399	-7.594	-12.430	1.00	94.94	C
ATOM	240	CB	ARG	A	32	-2.078	-7.438	-12.109	1.00	94.94	C
ATOM	241	O	ARG	A	32	0.874	-7.656	-13.562	1.00	94.94	O
ATOM	242	CG	ARG	A	32	-2.414	-6.910	-13.500	1.00	94.94	C
ATOM	243	CD	ARG	A	32	-3.680	-6.066	-13.492	1.00	94.94	C
ATOM	244	NE	ARG	A	32	-3.680	-5.086	-14.570	1.00	94.94	N
ATOM	245	NH1	ARG	A	32	-5.809	-4.301	-14.141	1.00	94.94	N
ATOM	246	NH2	ARG	A	32	-4.586	-3.416	-15.867	1.00	94.94	N
ATOM	247	CZ	ARG	A	32	-4.691	-4.270	-14.852	1.00	94.94	C
ATOM	248	N	ALA	A	33	0.892	-6.910	-11.477	1.00	95.06	N
ATOM	249	CA	ALA	A	33	2.104	-6.121	-11.695	1.00	95.06	C
ATOM	250	C	ALA	A	33	3.289	-7.023	-12.031	1.00	95.06	C
ATOM	251	CB	ALA	A	33	2.414	-5.277	-10.461	1.00	95.06	C
ATOM	252	O	ALA	A	33	4.098	-6.691	-12.898	1.00	95.06	O
ATOM	253	N	ARG	A	34	3.332	-8.172	-11.422	1.00	93.88	N
ATOM	254	CA	ARG	A	34	4.410	-9.125	-11.688	1.00	93.88	C
ATOM	255	C	ARG	A	34	4.320	-9.672	-13.102	1.00	93.88	C
ATOM	256	CB	ARG	A	34	4.375	-10.273	-10.672	1.00	93.88	C
ATOM	257	O	ARG	A	34	5.336	-9.781	-13.797	1.00	93.88	O
ATOM	258	CG	ARG	A	34	4.746	-9.859	-9.258	1.00	93.88	C
ATOM	259	CD	ARG	A	34	4.629	-11.023	-8.281	1.00	93.88	C
ATOM	260	NE	ARG	A	34	4.793	-10.586	-6.902	1.00	93.88	N
ATOM	261	NH1	ARG	A	34	4.141	-12.594	-5.969	1.00	93.88	N
ATOM	262	NH2	ARG	A	34	4.738	-10.844	-4.621	1.00	93.88	N
ATOM	263	CZ	ARG	A	34	4.559	-11.344	-5.832	1.00	93.88	C
ATOM	264	N	LYS	A	35	3.166	-9.922	-13.578	1.00	93.94	N
ATOM	265	CA	LYS	A	35	2.928	-10.586	-14.852	1.00	93.94	C
ATOM	266	C	LYS	A	35	2.971	-9.594	-16.016	1.00	93.94	C
ATOM	267	CB	LYS	A	35	1.581	-11.312	-14.836	1.00	93.94	C

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ATOM	268	O	LYS A 35	3.607	-9.852	-17.031	1.00	93.94	O
ATOM	269	CG	LYS A 35	1.567	-12.570	-13.984	1.00	93.94	C
ATOM	270	CD	LYS A 35	0.229	-13.297	-14.070	1.00	93.94	C
ATOM	271	CE	LYS A 35	0.225	-14.570	-13.242	1.00	93.94	C
ATOM	272	NZ	LYS A 35	-1.089	-15.273	-13.320	1.00	93.94	N
ATOM	273	N	GLU A 36	2.338	-8.406	-15.664	1.00	94.25	N
ATOM	274	CA	GLU A 36	2.113	-7.484	-16.781	1.00	94.25	C
ATOM	275	C	GLU A 36	3.229	-6.445	-16.875	1.00	94.25	C
ATOM	276	CB	GLU A 36	0.759	-6.785	-16.625	1.00	94.25	C
ATOM	277	O	GLU A 36	3.658	-6.086	-17.969	1.00	94.25	O
ATOM	278	CG	GLU A 36	-0.434	-7.715	-16.781	1.00	94.25	C
ATOM	279	CD	GLU A 36	-1.718	-6.988	-17.156	1.00	94.25	C
ATOM	280	OE1	GLU A 36	-2.131	-7.051	-18.344	1.00	94.25	O
ATOM	281	OE2	GLU A 36	-2.312	-6.355	-16.266	1.00	94.25	O
ATOM	282	N	MET A 37	3.758	-6.094	-15.719	1.00	92.31	N
ATOM	283	CA	MET A 37	4.707	-4.984	-15.680	1.00	92.31	C
ATOM	284	C	MET A 37	6.129	-5.492	-15.461	1.00	92.31	C
ATOM	285	CB	MET A 37	4.328	-3.994	-14.570	1.00	92.31	C
ATOM	286	O	MET A 37	7.090	-4.738	-15.602	1.00	92.31	O
ATOM	287	CG	MET A 37	2.953	-3.371	-14.750	1.00	92.31	C
ATOM	288	SD	MET A 37	2.541	-2.184	-13.414	1.00	92.31	S
ATOM	289	CE	MET A 37	0.976	-1.520	-14.047	1.00	92.31	C
ATOM	290	N	GLY A 38	6.207	-6.746	-15.086	1.00	92.81	N
ATOM	291	CA	GLY A 38	7.500	-7.355	-14.820	1.00	92.81	C
ATOM	292	C	GLY A 38	8.141	-6.855	-13.539	1.00	92.81	C
ATOM	293	O	GLY A 38	9.367	-6.746	-13.453	1.00	92.81	O
ATOM	294	N	LEU A 39	7.387	-6.320	-12.641	1.00	95.00	N
ATOM	295	CA	LEU A 39	7.895	-5.816	-11.375	1.00	95.00	C
ATOM	296	C	LEU A 39	8.133	-6.961	-10.391	1.00	95.00	C
ATOM	297	CB	LEU A 39	6.918	-4.805	-10.766	1.00	95.00	C
ATOM	298	O	LEU A 39	7.500	-8.016	-10.500	1.00	95.00	O
ATOM	299	CG	LEU A 39	6.668	-3.533	-11.586	1.00	95.00	C
ATOM	300	CD1	LEU A 39	5.652	-2.643	-10.875	1.00	95.00	C
ATOM	301	CD2	LEU A 39	7.977	-2.781	-11.820	1.00	95.00	C
ATOM	302	N	GLU A 40	9.078	-6.805	-9.547	1.00	95.25	N
ATOM	303	CA	GLU A 40	9.227	-7.688	-8.391	1.00	95.25	C
ATOM	304	C	GLU A 40	8.453	-7.156	-7.188	1.00	95.25	C
ATOM	305	CB	GLU A 40	10.703	-7.867	-8.039	1.00	95.25	C
ATOM	306	O	GLU A 40	8.805	-6.117	-6.629	1.00	95.25	O
ATOM	307	CG	GLU A 40	11.508	-8.594	-9.102	1.00	95.25	C
ATOM	308	CD	GLU A 40	12.961	-8.805	-8.711	1.00	95.25	C
ATOM	309	OE1	GLU A 40	13.281	-9.844	-8.094	1.00	95.25	O
ATOM	310	OE2	GLU A 40	13.789	-7.922	-9.031	1.00	95.25	O
ATOM	311	N	VAL A 41	7.441	-7.863	-6.828	1.00	96.88	N
ATOM	312	CA	VAL A 41	6.582	-7.367	-5.754	1.00	96.88	C
ATOM	313	C	VAL A 41	6.555	-8.375	-4.609	1.00	96.88	C
ATOM	314	CB	VAL A 41	5.148	-7.094	-6.258	1.00	96.88	C
ATOM	315	O	VAL A 41	6.379	-9.578	-4.832	1.00	96.88	O
ATOM	316	CG1	VAL A 41	4.285	-6.512	-5.141	1.00	96.88	C
ATOM	317	CG2	VAL A 41	5.176	-6.152	-7.461	1.00	96.88	C
ATOM	318	N	LYS A 42	6.777	-7.930	-3.447	1.00	96.69	N
ATOM	319	CA	LYS A 42	6.672	-8.711	-2.219	1.00	96.69	C
ATOM	320	C	LYS A 42	5.672	-8.078	-1.252	1.00	96.69	C

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ATOM	321	CB	LYS	A	42	8.039	-8.844	-1.547	1.00	96.69	C
ATOM	322	O	LYS	A	42	5.723	-6.875	-0.996	1.00	96.69	O
ATOM	323	CG	LYS	A	42	8.070	-9.836	-0.396	1.00	96.69	C
ATOM	324	CD	LYS	A	42	9.477	-9.984	0.173	1.00	96.69	C
ATOM	325	CE	LYS	A	42	9.500	-10.938	1.363	1.00	96.69	C
ATOM	326	NZ	LYS	A	42	10.883	-11.148	1.880	1.00	96.69	N
ATOM	327	N	ILE	A	43	4.805	-8.859	-0.724	1.00	96.31	N
ATOM	328	CA	ILE	A	43	3.793	-8.367	0.201	1.00	96.31	C
ATOM	329	C	ILE	A	43	4.031	-8.945	1.592	1.00	96.31	C
ATOM	330	CB	ILE	A	43	2.365	-8.711	-0.284	1.00	96.31	C
ATOM	331	O	ILE	A	43	4.195	-10.156	1.745	1.00	96.31	O
ATOM	332	CG1	ILE	A	43	2.123	-8.125	-1.683	1.00	96.31	C
ATOM	333	CG2	ILE	A	43	1.319	-8.195	0.710	1.00	96.31	C
ATOM	334	CD1	ILE	A	43	0.844	-8.625	-2.344	1.00	96.31	C
ATOM	335	N	GLU	A	44	4.090	-8.094	2.588	1.00	95.44	N
ATOM	336	CA	GLU	A	44	4.258	-8.500	3.982	1.00	95.44	C
ATOM	337	C	GLU	A	44	3.154	-7.918	4.859	1.00	95.44	C
ATOM	338	CB	GLU	A	44	5.629	-8.070	4.504	1.00	95.44	C
ATOM	339	O	GLU	A	44	2.736	-6.773	4.668	1.00	95.44	O
ATOM	340	CG	GLU	A	44	6.797	-8.703	3.764	1.00	95.44	C
ATOM	341	CD	GLU	A	44	8.148	-8.320	4.344	1.00	95.44	C
ATOM	342	OE1	GLU	A	44	8.742	-9.141	5.090	1.00	95.44	O
ATOM	343	OE2	GLU	A	44	8.625	-7.203	4.051	1.00	95.44	O
ATOM	344	N	GLU	A	45	2.646	-8.703	5.770	1.00	92.06	N
ATOM	345	CA	GLU	A	45	1.637	-8.250	6.719	1.00	92.06	C
ATOM	346	C	GLU	A	45	2.102	-8.445	8.156	1.00	92.06	C
ATOM	347	CB	GLU	A	45	0.311	-8.977	6.488	1.00	92.06	C
ATOM	348	O	GLU	A	45	2.477	-9.555	8.547	1.00	92.06	O
ATOM	349	CG	GLU	A	45	-0.808	-8.531	7.418	1.00	92.06	C
ATOM	350	CD	GLU	A	45	-2.080	-9.344	7.262	1.00	92.06	C
ATOM	351	OE1	GLU	A	45	-2.500	-10.008	8.234	1.00	92.06	O
ATOM	352	OE2	GLU	A	45	-2.662	-9.328	6.152	1.00	92.06	O
ATOM	353	N	LYS	A	46	2.205	-7.379	8.859	1.00	90.62	N
ATOM	354	CA	LYS	A	46	2.568	-7.434	10.273	1.00	90.62	C
ATOM	355	C	LYS	A	46	1.686	-6.508	11.102	1.00	90.62	C
ATOM	356	CB	LYS	A	46	4.039	-7.062	10.461	1.00	90.62	C
ATOM	357	O	LYS	A	46	1.559	-5.320	10.797	1.00	90.62	O
ATOM	358	CG	LYS	A	46	4.578	-7.355	11.852	1.00	90.62	C
ATOM	359	CD	LYS	A	46	6.062	-7.031	11.961	1.00	90.62	C
ATOM	360	CE	LYS	A	46	6.586	-7.273	13.375	1.00	90.62	C
ATOM	361	NZ	LYS	A	46	8.031	-6.926	13.492	1.00	90.62	N
ATOM	362	N	ASP	A	47	0.931	-7.004	12.156	1.00	87.81	N
ATOM	363	CA	ASP	A	47	0.161	-6.238	13.133	1.00	87.81	C
ATOM	364	C	ASP	A	47	-0.887	-5.367	12.445	1.00	87.81	C
ATOM	365	CB	ASP	A	47	1.088	-5.371	13.984	1.00	87.81	C
ATOM	366	O	ASP	A	47	-1.055	-4.199	12.789	1.00	87.81	O
ATOM	367	CG	ASP	A	47	1.979	-6.184	14.906	1.00	87.81	C
ATOM	368	OD1	ASP	A	47	1.491	-6.676	15.945	1.00	87.81	O
ATOM	369	OD2	ASP	A	47	3.180	-6.328	14.594	1.00	87.81	O
ATOM	370	N	GLY	A	48	-1.535	-5.895	11.336	1.00	84.25	N
ATOM	371	CA	GLY	A	48	-2.578	-5.133	10.664	1.00	84.25	C
ATOM	372	C	GLY	A	48	-2.037	-4.152	9.648	1.00	84.25	C
ATOM	373	O	GLY	A	48	-2.760	-3.266	9.188	1.00	84.25	O

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ATOM	374	N	VAL A 49	-0.744	-4.168	9.430	1.00	92.88	N
ATOM	375	CA	VAL A 49	-0.075	-3.320	8.445	1.00	92.88	C
ATOM	376	C	VAL A 49	0.401	-4.168	7.270	1.00	92.88	C
ATOM	377	CB	VAL A 49	1.116	-2.561	9.078	1.00	92.88	C
ATOM	378	O	VAL A 49	1.092	-5.172	7.461	1.00	92.88	O
ATOM	379	CG1	VAL A 49	1.780	-1.652	8.039	1.00	92.88	C
ATOM	380	CG2	VAL A 49	0.655	-1.749	10.281	1.00	92.88	C
ATOM	381	N	ILE A 50	-0.011	-3.736	6.133	1.00	95.06	N
ATOM	382	CA	ILE A 50	0.403	-4.426	4.918	1.00	95.06	C
ATOM	383	C	ILE A 50	1.513	-3.635	4.230	1.00	95.06	C
ATOM	384	CB	ILE A 50	-0.786	-4.633	3.953	1.00	95.06	C
ATOM	385	O	ILE A 50	1.350	-2.447	3.938	1.00	95.06	O
ATOM	386	CG1	ILE A 50	-1.937	-5.348	4.668	1.00	95.06	C
ATOM	387	CG2	ILE A 50	-0.344	-5.410	2.709	1.00	95.06	C
ATOM	388	CD1	ILE A 50	-3.262	-5.297	3.918	1.00	95.06	C
ATOM	389	N	THR A 51	2.621	-4.293	4.090	1.00	96.38	N
ATOM	390	CA	THR A 51	3.750	-3.652	3.424	1.00	96.38	C
ATOM	391	C	THR A 51	3.986	-4.266	2.047	1.00	96.38	C
ATOM	392	CB	THR A 51	5.035	-3.768	4.266	1.00	96.38	C
ATOM	393	O	THR A 51	4.172	-5.477	1.926	1.00	96.38	O
ATOM	394	CG2	THR A 51	6.191	-3.025	3.607	1.00	96.38	C
ATOM	395	OG1	THR A 51	4.797	-3.205	5.562	1.00	96.38	O
ATOM	396	N	VAL A 52	4.008	-3.408	1.026	1.00	96.75	N
ATOM	397	CA	VAL A 52	4.227	-3.855	-0.346	1.00	96.75	C
ATOM	398	C	VAL A 52	5.566	-3.328	-0.855	1.00	96.75	C
ATOM	399	CB	VAL A 52	3.084	-3.396	-1.280	1.00	96.75	C
ATOM	400	O	VAL A 52	5.766	-2.115	-0.959	1.00	96.75	O
ATOM	401	CG1	VAL A 52	3.275	-3.963	-2.686	1.00	96.75	C
ATOM	402	CG2	VAL A 52	1.729	-3.814	-0.711	1.00	96.75	C
ATOM	403	N	LYS A 53	6.445	-4.293	-1.139	1.00	96.75	N
ATOM	404	CA	LYS A 53	7.746	-3.941	-1.695	1.00	96.75	C
ATOM	405	C	LYS A 53	7.812	-4.262	-3.186	1.00	96.75	C
ATOM	406	CB	LYS A 53	8.867	-4.672	-0.952	1.00	96.75	C
ATOM	407	O	LYS A 53	7.430	-5.355	-3.607	1.00	96.75	O
ATOM	408	CG	LYS A 53	8.969	-4.309	0.522	1.00	96.75	C
ATOM	409	CD	LYS A 53	10.109	-5.055	1.202	1.00	96.75	C
ATOM	410	CE	LYS A 53	10.203	-4.703	2.682	1.00	96.75	C
ATOM	411	NZ	LYS A 53	11.312	-5.445	3.357	1.00	96.75	N
ATOM	412	N	ALA A 54	8.211	-3.256	-3.922	1.00	96.06	N
ATOM	413	CA	ALA A 54	8.297	-3.451	-5.367	1.00	96.06	C
ATOM	414	C	ALA A 54	9.641	-2.961	-5.902	1.00	96.06	C
ATOM	415	CB	ALA A 54	7.152	-2.734	-6.074	1.00	96.06	C
ATOM	416	O	ALA A 54	10.188	-1.964	-5.418	1.00	96.06	O
ATOM	417	N	LYS A 55	10.188	-3.785	-6.738	1.00	94.31	N
ATOM	418	CA	LYS A 55	11.445	-3.441	-7.398	1.00	94.31	C
ATOM	419	C	LYS A 55	11.289	-3.475	-8.914	1.00	94.31	C
ATOM	420	CB	LYS A 55	12.562	-4.391	-6.961	1.00	94.31	C
ATOM	421	O	LYS A 55	10.789	-4.449	-9.477	1.00	94.31	O
ATOM	422	CG	LYS A 55	13.945	-3.986	-7.445	1.00	94.31	C
ATOM	423	CD	LYS A 55	15.016	-4.941	-6.941	1.00	94.31	C
ATOM	424	CE	LYS A 55	16.391	-4.574	-7.477	1.00	94.31	C
ATOM	425	NZ	LYS A 55	17.453	-5.500	-6.973	1.00	94.31	N
ATOM	426	N	GLY A 56	11.703	-2.428	-9.508	1.00	93.75	N

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ATOM	427	CA	GLY A 56	11.625	-2.373	-10.953	1.00	93.75	C
ATOM	428	C	GLY A 56	11.844	-0.981	-11.516	1.00	93.75	C
ATOM	429	O	GLY A 56	12.523	-0.158	-10.891	1.00	93.75	O
ATOM	430	N	GLU A 57	11.336	-0.821	-12.680	1.00	92.56	N
ATOM	431	CA	GLU A 57	11.422	0.476	-13.344	1.00	92.56	C
ATOM	432	C	GLU A 57	10.609	1.533	-12.602	1.00	92.56	C
ATOM	433	CB	GLU A 57	10.938	0.369	-14.789	1.00	92.56	C
ATOM	434	O	GLU A 57	9.469	1.281	-12.195	1.00	92.56	O
ATOM	435	CG	GLU A 57	11.852	-0.457	-15.688	1.00	92.56	C
ATOM	436	CD	GLU A 57	11.469	-0.397	-17.156	1.00	92.56	C
ATOM	437	OE1	GLU A 57	12.008	0.461	-17.891	1.00	92.56	O
ATOM	438	OE2	GLU A 57	10.617	-1.214	-17.578	1.00	92.56	O
ATOM	439	N	GLU A 58	11.227	2.643	-12.336	1.00	90.06	N
ATOM	440	CA	GLU A 58	10.633	3.723	-11.547	1.00	90.06	C
ATOM	441	C	GLU A 58	9.211	4.023	-12.008	1.00	90.06	C
ATOM	442	CB	GLU A 58	11.492	4.984	-11.641	1.00	90.06	C
ATOM	443	O	GLU A 58	8.289	4.098	-11.188	1.00	90.06	O
ATOM	444	CG	GLU A 58	10.953	6.156	-10.836	1.00	90.06	C
ATOM	445	CD	GLU A 58	11.812	7.410	-10.945	1.00	90.06	C
ATOM	446	OE1	GLU A 58	11.484	8.297	-11.773	1.00	90.06	O
ATOM	447	OE2	GLU A 58	12.812	7.504	-10.211	1.00	90.06	O
ATOM	448	N	GLU A 59	9.016	4.129	-13.266	1.00	91.56	N
ATOM	449	CA	GLU A 59	7.703	4.469	-13.805	1.00	91.56	C
ATOM	450	C	GLU A 59	6.691	3.365	-13.523	1.00	91.56	C
ATOM	451	CB	GLU A 59	7.789	4.734	-15.312	1.00	91.56	C
ATOM	452	O	GLU A 59	5.531	3.645	-13.203	1.00	91.56	O
ATOM	453	CG	GLU A 59	8.516	6.023	-15.664	1.00	91.56	C
ATOM	454	CD	GLU A 59	8.172	6.539	-17.062	1.00	91.56	C
ATOM	455	OE1	GLU A 59	7.367	7.488	-17.172	1.00	91.56	O
ATOM	456	OE2	GLU A 59	8.719	5.984	-18.031	1.00	91.56	O
ATOM	457	N	LYS A 60	7.141	2.211	-13.609	1.00	93.88	N
ATOM	458	CA	LYS A 60	6.262	1.065	-13.391	1.00	93.88	C
ATOM	459	C	LYS A 60	5.918	0.908	-11.914	1.00	93.88	C
ATOM	460	CB	LYS A 60	6.914	-0.215	-13.922	1.00	93.88	C
ATOM	461	O	LYS A 60	4.781	0.590	-11.570	1.00	93.88	O
ATOM	462	CG	LYS A 60	7.082	-0.246	-15.430	1.00	93.88	C
ATOM	463	CD	LYS A 60	7.629	-1.587	-15.906	1.00	93.88	C
ATOM	464	CE	LYS A 60	7.820	-1.612	-17.422	1.00	93.88	C
ATOM	465	NZ	LYS A 60	8.414	-2.902	-17.875	1.00	93.88	N
ATOM	466	N	VAL A 61	6.965	1.049	-11.086	1.00	94.31	N
ATOM	467	CA	VAL A 61	6.730	0.958	-9.648	1.00	94.31	C
ATOM	468	C	VAL A 61	5.742	2.039	-9.219	1.00	94.31	C
ATOM	469	CB	VAL A 61	8.047	1.089	-8.852	1.00	94.31	C
ATOM	470	O	VAL A 61	4.801	1.766	-8.469	1.00	94.31	O
ATOM	471	CG1	VAL A 61	7.762	1.174	-7.352	1.00	94.31	C
ATOM	472	CG2	VAL A 61	8.977	-0.085	-9.156	1.00	94.31	C
ATOM	473	N	LYS A 62	5.945	3.199	-9.750	1.00	92.56	N
ATOM	474	CA	LYS A 62	5.059	4.316	-9.438	1.00	92.56	C
ATOM	475	C	LYS A 62	3.627	4.016	-9.867	1.00	92.56	C
ATOM	476	CB	LYS A 62	5.551	5.598	-10.109	1.00	92.56	C
ATOM	477	O	LYS A 62	2.684	4.242	-9.109	1.00	92.56	O
ATOM	478	CG	LYS A 62	4.762	6.840	-9.727	1.00	92.56	C
ATOM	479	CD	LYS A 62	5.332	8.094	-10.383	1.00	92.56	C

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ATOM	480	CE	LYS	A	62	4.508	9.328	-10.047	1.00	92.56	C
ATOM	481	NZ	LYS	A	62	4.992	10.531	-10.789	1.00	92.56	N
ATOM	482	N	LYS	A	63	3.543	3.592	-11.055	1.00	94.62	N
ATOM	483	CA	LYS	A	63	2.221	3.248	-11.570	1.00	94.62	C
ATOM	484	C	LYS	A	63	1.557	2.174	-10.719	1.00	94.62	C
ATOM	485	CB	LYS	A	63	2.320	2.773	-13.023	1.00	94.62	C
ATOM	486	O	LYS	A	63	0.358	2.246	-10.438	1.00	94.62	O
ATOM	487	CG	LYS	A	63	0.975	2.611	-13.711	1.00	94.62	C
ATOM	488	CD	LYS	A	63	1.143	2.281	-15.188	1.00	94.62	C
ATOM	489	CE	LYS	A	63	-0.203	2.074	-15.875	1.00	94.62	C
ATOM	490	NZ	LYS	A	63	-0.044	1.758	-17.328	1.00	94.62	N
ATOM	491	N	PHE	A	64	2.277	1.264	-10.352	1.00	95.75	N
ATOM	492	CA	PHE	A	64	1.780	0.190	-9.500	1.00	95.75	C
ATOM	493	C	PHE	A	64	1.266	0.745	-8.172	1.00	95.75	C
ATOM	494	CB	PHE	A	64	2.879	-0.846	-9.242	1.00	95.75	C
ATOM	495	O	PHE	A	64	0.139	0.450	-7.766	1.00	95.75	O
ATOM	496	CG	PHE	A	64	2.553	-1.816	-8.141	1.00	95.75	C
ATOM	497	CD1	PHE	A	64	3.350	-1.896	-7.000	1.00	95.75	C
ATOM	498	CD2	PHE	A	64	1.446	-2.650	-8.234	1.00	95.75	C
ATOM	499	CE1	PHE	A	64	3.049	-2.793	-5.980	1.00	95.75	C
ATOM	500	CE2	PHE	A	64	1.140	-3.551	-7.219	1.00	95.75	C
ATOM	501	CZ	PHE	A	64	1.942	-3.621	-6.094	1.00	95.75	C
ATOM	502	N	PHE	A	65	2.023	1.549	-7.504	1.00	95.81	N
ATOM	503	CA	PHE	A	65	1.614	2.113	-6.227	1.00	95.81	C
ATOM	504	C	PHE	A	65	0.359	2.963	-6.383	1.00	95.81	C
ATOM	505	CB	PHE	A	65	2.744	2.953	-5.621	1.00	95.81	C
ATOM	506	O	PHE	A	65	-0.545	2.904	-5.547	1.00	95.81	O
ATOM	507	CG	PHE	A	65	3.830	2.137	-4.973	1.00	95.81	C
ATOM	508	CD1	PHE	A	65	3.729	0.752	-4.906	1.00	95.81	C
ATOM	509	CD2	PHE	A	65	4.949	2.754	-4.434	1.00	95.81	C
ATOM	510	CE1	PHE	A	65	4.734	-0.007	-4.309	1.00	95.81	C
ATOM	511	CE2	PHE	A	65	5.957	2.002	-3.836	1.00	95.81	C
ATOM	512	CZ	PHE	A	65	5.848	0.622	-3.771	1.00	95.81	C
ATOM	513	N	GLU	A	66	0.289	3.740	-7.422	1.00	95.81	N
ATOM	514	CA	GLU	A	66	-0.875	4.574	-7.699	1.00	95.81	C
ATOM	515	C	GLU	A	66	-2.129	3.727	-7.895	1.00	95.81	C
ATOM	516	CB	GLU	A	66	-0.632	5.445	-8.930	1.00	95.81	C
ATOM	517	O	GLU	A	66	-3.215	4.102	-7.445	1.00	95.81	O
ATOM	518	CG	GLU	A	66	0.396	6.547	-8.719	1.00	95.81	C
ATOM	519	CD	GLU	A	66	0.441	7.559	-9.852	1.00	95.81	C
ATOM	520	OE1	GLU	A	66	0.236	8.766	-9.594	1.00	95.81	O
ATOM	521	OE2	GLU	A	66	0.683	7.141	-11.000	1.00	95.81	O
ATOM	522	N	GLU	A	67	-1.924	2.625	-8.555	1.00	95.69	N
ATOM	523	CA	GLU	A	67	-3.049	1.724	-8.781	1.00	95.69	C
ATOM	524	C	GLU	A	67	-3.551	1.127	-7.473	1.00	95.69	C
ATOM	525	CB	GLU	A	67	-2.658	0.606	-9.750	1.00	95.69	C
ATOM	526	O	GLU	A	67	-4.758	1.010	-7.258	1.00	95.69	O
ATOM	527	CG	GLU	A	67	-2.484	1.073	-11.188	1.00	95.69	C
ATOM	528	CD	GLU	A	67	-2.432	-0.070	-12.195	1.00	95.69	C
ATOM	529	OE1	GLU	A	67	-3.494	-0.447	-12.742	1.00	95.69	O
ATOM	530	OE2	GLU	A	67	-1.321	-0.595	-12.430	1.00	95.69	O
ATOM	531	N	VAL	A	68	-2.605	0.798	-6.648	1.00	95.88	N
ATOM	532	CA	VAL	A	68	-2.975	0.261	-5.344	1.00	95.88	C

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ATOM	533	C	VAL A 68	-3.748	1.312	-4.551	1.00	95.88	C
ATOM	534	CB	VAL A 68	-1.731	-0.198	-4.547	1.00	95.88	C
ATOM	535	O	VAL A 68	-4.805	1.019	-3.984	1.00	95.88	O
ATOM	536	CG1	VAL A 68	-2.119	-0.602	-3.127	1.00	95.88	C
ATOM	537	CG2	VAL A 68	-1.038	-1.355	-5.266	1.00	95.88	C
ATOM	538	N	ILE A 69	-3.242	2.494	-4.547	1.00	95.50	N
ATOM	539	CA	ILE A 69	-3.844	3.592	-3.801	1.00	95.50	C
ATOM	540	C	ILE A 69	-5.238	3.885	-4.344	1.00	95.50	C
ATOM	541	CB	ILE A 69	-2.967	4.863	-3.861	1.00	95.50	C
ATOM	542	O	ILE A 69	-6.188	4.066	-3.576	1.00	95.50	O
ATOM	543	CG1	ILE A 69	-1.668	4.656	-3.076	1.00	95.50	C
ATOM	544	CG2	ILE A 69	-3.738	6.078	-3.334	1.00	95.50	C
ATOM	545	CD1	ILE A 69	-0.639	5.758	-3.279	1.00	95.50	C
ATOM	546	N	ALA A 70	-5.348	3.938	-5.621	1.00	95.50	N
ATOM	547	CA	ALA A 70	-6.645	4.180	-6.254	1.00	95.50	C
ATOM	548	C	ALA A 70	-7.652	3.100	-5.867	1.00	95.50	C
ATOM	549	CB	ALA A 70	-6.488	4.242	-7.773	1.00	95.50	C
ATOM	550	O	ALA A 70	-8.812	3.402	-5.578	1.00	95.50	O
ATOM	551	N	ALA A 71	-7.203	1.906	-5.918	1.00	95.25	N
ATOM	552	CA	ALA A 71	-8.078	0.790	-5.559	1.00	95.25	C
ATOM	553	C	ALA A 71	-8.516	0.887	-4.102	1.00	95.25	C
ATOM	554	CB	ALA A 71	-7.367	-0.540	-5.809	1.00	95.25	C
ATOM	555	O	ALA A 71	-9.688	0.655	-3.783	1.00	95.25	O
ATOM	556	N	LEU A 72	-7.609	1.231	-3.264	1.00	94.75	N
ATOM	557	CA	LEU A 72	-7.918	1.344	-1.842	1.00	94.75	C
ATOM	558	C	LEU A 72	-8.875	2.504	-1.585	1.00	94.75	C
ATOM	559	CB	LEU A 72	-6.637	1.535	-1.026	1.00	94.75	C
ATOM	560	O	LEU A 72	-9.766	2.404	-0.734	1.00	94.75	O
ATOM	561	CG	LEU A 72	-5.641	0.376	-1.052	1.00	94.75	C
ATOM	562	CD1	LEU A 72	-4.398	0.729	-0.240	1.00	94.75	C
ATOM	563	CD2	LEU A 72	-6.285	-0.899	-0.521	1.00	94.75	C
ATOM	564	N	LYS A 73	-8.672	3.551	-2.328	1.00	94.00	N
ATOM	565	CA	LYS A 73	-9.586	4.688	-2.223	1.00	94.00	C
ATOM	566	C	LYS A 73	-11.008	4.289	-2.594	1.00	94.00	C
ATOM	567	CB	LYS A 73	-9.117	5.836	-3.113	1.00	94.00	C
ATOM	568	O	LYS A 73	-11.969	4.727	-1.954	1.00	94.00	O
ATOM	569	CG	LYS A 73	-7.934	6.613	-2.551	1.00	94.00	C
ATOM	570	CD	LYS A 73	-7.566	7.797	-3.438	1.00	94.00	C
ATOM	571	CE	LYS A 73	-6.426	8.609	-2.844	1.00	94.00	C
ATOM	572	NZ	LYS A 73	-6.082	9.789	-3.695	1.00	94.00	N
ATOM	573	N	LYS A 74	-11.031	3.492	-3.564	1.00	94.50	N
ATOM	574	CA	LYS A 74	-12.336	3.006	-3.996	1.00	94.50	C
ATOM	575	C	LYS A 74	-12.984	2.143	-2.918	1.00	94.50	C
ATOM	576	CB	LYS A 74	-12.211	2.211	-5.297	1.00	94.50	C
ATOM	577	O	LYS A 74	-14.172	2.289	-2.629	1.00	94.50	O
ATOM	578	CG	LYS A 74	-13.547	1.824	-5.918	1.00	94.50	C
ATOM	579	CD	LYS A 74	-13.352	1.146	-7.270	1.00	94.50	C
ATOM	580	CE	LYS A 74	-14.688	0.722	-7.875	1.00	94.50	C
ATOM	581	NZ	LYS A 74	-14.508	0.055	-9.195	1.00	94.50	N
ATOM	582	N	ILE A 75	-12.273	1.290	-2.322	1.00	92.69	N
ATOM	583	CA	ILE A 75	-12.773	0.423	-1.263	1.00	92.69	C
ATOM	584	C	ILE A 75	-13.227	1.270	-0.076	1.00	92.69	C
ATOM	585	CB	ILE A 75	-11.703	-0.599	-0.814	1.00	92.69	C

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ATOM	586	O	ILE A 75	-14.305	1.038	0.484	1.00	92.69	O
ATOM	587	CG1	ILE A 75	-11.414	-1.600	-1.938	1.00	92.69	C
ATOM	588	CG2	ILE A 75	-12.148	-1.320	0.462	1.00	92.69	C
ATOM	589	CD1	ILE A 75	-10.203	-2.488	-1.683	1.00	92.69	C
ATOM	590	N	ALA A 76	-12.414	2.221	0.248	1.00	91.56	N
ATOM	591	CA	ALA A 76	-12.734	3.086	1.379	1.00	91.56	C
ATOM	592	C	ALA A 76	-14.016	3.877	1.112	1.00	91.56	C
ATOM	593	CB	ALA A 76	-11.578	4.035	1.674	1.00	91.56	C
ATOM	594	O	ALA A 76	-14.875	3.998	1.991	1.00	91.56	O
ATOM	595	N	ALA A 77	-14.141	4.406	-0.031	1.00	90.94	N
ATOM	596	CA	ALA A 77	-15.305	5.195	-0.421	1.00	90.94	C
ATOM	597	C	ALA A 77	-16.578	4.348	-0.380	1.00	90.94	C
ATOM	598	CB	ALA A 77	-15.109	5.785	-1.815	1.00	90.94	C
ATOM	599	O	ALA A 77	-17.625	4.809	0.091	1.00	90.94	O
ATOM	600	N	GLU A 78	-16.453	3.137	-0.811	1.00	91.44	N
ATOM	601	CA	GLU A 78	-17.609	2.234	-0.846	1.00	91.44	C
ATOM	602	C	GLU A 78	-18.062	1.863	0.562	1.00	91.44	C
ATOM	603	CB	GLU A 78	-17.266	0.970	-1.641	1.00	91.44	C
ATOM	604	O	GLU A 78	-19.234	1.579	0.785	1.00	91.44	O
ATOM	605	CG	GLU A 78	-17.094	1.211	-3.133	1.00	91.44	C
ATOM	606	CD	GLU A 78	-16.812	-0.063	-3.918	1.00	91.44	C
ATOM	607	OE1	GLU A 78	-17.734	-0.542	-4.633	1.00	91.44	O
ATOM	608	OE2	GLU A 78	-15.688	-0.586	-3.816	1.00	91.44	O
ATOM	609	N	ASN A 79	-17.125	1.970	1.479	1.00	89.81	N
ATOM	610	CA	ASN A 79	-17.422	1.559	2.848	1.00	89.81	C
ATOM	611	C	ASN A 79	-17.531	2.760	3.783	1.00	89.81	C
ATOM	612	CB	ASN A 79	-16.359	0.587	3.359	1.00	89.81	C
ATOM	613	O	ASN A 79	-17.688	2.596	4.996	1.00	89.81	O
ATOM	614	CG	ASN A 79	-16.438	-0.770	2.688	1.00	89.81	C
ATOM	615	ND2	ASN A 79	-15.594	-0.981	1.681	1.00	89.81	N
ATOM	616	OD1	ASN A 79	-17.234	-1.621	3.070	1.00	89.81	O
ATOM	617	N	GLY A 80	-17.453	3.928	3.234	1.00	89.88	N
ATOM	618	CA	GLY A 80	-17.562	5.148	4.016	1.00	89.88	C
ATOM	619	C	GLY A 80	-16.391	5.383	4.938	1.00	89.88	C
ATOM	620	O	GLY A 80	-16.562	5.832	6.074	1.00	89.88	O
ATOM	621	N	LEU A 81	-15.281	4.961	4.562	1.00	92.50	N
ATOM	622	CA	LEU A 81	-14.070	5.113	5.359	1.00	92.50	C
ATOM	623	C	LEU A 81	-13.234	6.289	4.863	1.00	92.50	C
ATOM	624	CB	LEU A 81	-13.242	3.826	5.316	1.00	92.50	C
ATOM	625	O	LEU A 81	-13.445	6.781	3.754	1.00	92.50	O
ATOM	626	CG	LEU A 81	-13.930	2.555	5.801	1.00	92.50	C
ATOM	627	CD1	LEU A 81	-13.062	1.334	5.520	1.00	92.50	C
ATOM	628	CD2	LEU A 81	-14.258	2.654	7.289	1.00	92.50	C
ATOM	629	N	LYS A 82	-12.383	6.750	5.668	1.00	91.75	N
ATOM	630	CA	LYS A 82	-11.438	7.812	5.328	1.00	91.75	C
ATOM	631	C	LYS A 82	-10.086	7.230	4.906	1.00	91.75	C
ATOM	632	CB	LYS A 82	-11.250	8.766	6.512	1.00	91.75	C
ATOM	633	O	LYS A 82	-9.570	6.320	5.555	1.00	91.75	O
ATOM	634	CG	LYS A 82	-10.383	9.977	6.199	1.00	91.75	C
ATOM	635	CD	LYS A 82	-10.266	10.898	7.402	1.00	91.75	C
ATOM	636	CE	LYS A 82	-9.352	12.086	7.109	1.00	91.75	C
ATOM	637	NZ	LYS A 82	-9.258	13.008	8.281	1.00	91.75	N
ATOM	638	N	VAL A 83	-9.562	7.719	3.764	1.00	92.69	N

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ATOM	639	CA VAL A 83	-8.273	7.227	3.285	1.00	92.69	C
ATOM	640	C VAL A 83	-7.273	8.383	3.211	1.00	92.69	C
ATOM	641	CB VAL A 83	-8.398	6.547	1.905	1.00	92.69	C
ATOM	642	O VAL A 83	-7.602	9.461	2.705	1.00	92.69	O
ATOM	643	CG1 VAL A 83	-8.742	7.570	0.826	1.00	92.69	C
ATOM	644	CG2 VAL A 83	-7.109	5.809	1.552	1.00	92.69	C
ATOM	645	N GLU A 84	-6.148	8.242	3.852	1.00	94.69	N
ATOM	646	CA GLU A 84	-5.031	9.172	3.762	1.00	94.69	C
ATOM	647	C GLU A 84	-3.840	8.539	3.049	1.00	94.69	C
ATOM	648	CB GLU A 84	-4.617	9.648	5.156	1.00	94.69	C
ATOM	649	O GLU A 84	-3.410	7.438	3.402	1.00	94.69	O
ATOM	650	CG GLU A 84	-5.699	10.430	5.887	1.00	94.69	C
ATOM	651	CD GLU A 84	-5.254	10.945	7.246	1.00	94.69	C
ATOM	652	OE1 GLU A 84	-4.871	12.133	7.344	1.00	94.69	O
ATOM	653	OE2 GLU A 84	-5.289	10.156	8.219	1.00	94.69	O
ATOM	654	N THR A 85	-3.363	9.188	2.012	1.00	95.44	N
ATOM	655	CA THR A 85	-2.273	8.594	1.248	1.00	95.44	C
ATOM	656	C THR A 85	-1.113	9.570	1.103	1.00	95.44	C
ATOM	657	CB THR A 85	-2.748	8.141	-0.147	1.00	95.44	C
ATOM	658	O THR A 85	-1.323	10.781	1.043	1.00	95.44	O
ATOM	659	CG2 THR A 85	-3.883	7.129	-0.042	1.00	95.44	C
ATOM	660	OG1 THR A 85	-3.211	9.281	-0.877	1.00	95.44	O
ATOM	661	N GLU A 86	0.078	9.078	1.189	1.00	94.81	N
ATOM	662	CA GLU A 86	1.312	9.820	0.968	1.00	94.81	C
ATOM	663	C GLU A 86	2.279	9.039	0.084	1.00	94.81	C
ATOM	664	CB GLU A 86	1.980	10.164	2.303	1.00	94.81	C
ATOM	665	O GLU A 86	2.500	7.848	0.300	1.00	94.81	O
ATOM	666	CG GLU A 86	3.246	11.000	2.160	1.00	94.81	C
ATOM	667	CD GLU A 86	3.939	11.266	3.488	1.00	94.81	C
ATOM	668	OE1 GLU A 86	4.566	10.336	4.043	1.00	94.81	O
ATOM	669	OE2 GLU A 86	3.850	12.414	3.975	1.00	94.81	O
ATOM	670	N LEU A 87	2.740	9.672	-0.975	1.00	93.75	N
ATOM	671	CA LEU A 87	3.732	9.062	-1.852	1.00	93.75	C
ATOM	672	C LEU A 87	4.961	9.953	-1.988	1.00	93.75	C
ATOM	673	CB LEU A 87	3.131	8.789	-3.232	1.00	93.75	C
ATOM	674	O LEU A 87	4.840	11.141	-2.299	1.00	93.75	O
ATOM	675	CG LEU A 87	3.932	7.859	-4.148	1.00	93.75	C
ATOM	676	CD1 LEU A 87	3.898	6.430	-3.613	1.00	93.75	C
ATOM	677	CD2 LEU A 87	3.393	7.914	-5.570	1.00	93.75	C
ATOM	678	N THR A 88	6.094	9.430	-1.675	1.00	93.62	N
ATOM	679	CA THR A 88	7.359	10.141	-1.772	1.00	93.62	C
ATOM	680	C THR A 88	8.289	9.461	-2.770	1.00	93.62	C
ATOM	681	CB THR A 88	8.055	10.234	-0.401	1.00	93.62	C
ATOM	682	O THR A 88	8.430	8.234	-2.760	1.00	93.62	O
ATOM	683	CG2 THR A 88	9.297	11.117	-0.474	1.00	93.62	C
ATOM	684	OG1 THR A 88	7.141	10.797	0.552	1.00	93.62	O
ATOM	685	N GLU A 89	8.891	10.266	-3.654	1.00	91.19	N
ATOM	686	CA GLU A 89	9.820	9.773	-4.668	1.00	91.19	C
ATOM	687	C GLU A 89	11.188	10.430	-4.527	1.00	91.19	C
ATOM	688	CB GLU A 89	9.258	10.016	-6.070	1.00	91.19	C
ATOM	689	O GLU A 89	11.297	11.656	-4.484	1.00	91.19	O
ATOM	690	CG GLU A 89	10.180	9.547	-7.191	1.00	91.19	C
ATOM	691	CD GLU A 89	9.656	9.883	-8.578	1.00	91.19	C

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ATOM	692	OE1 GLU A 89	9.875	11.023	-9.055	1.00	91.19	O
ATOM	693	OE2 GLU A 89	9.016	9.000	-9.195	1.00	91.19	O
ATOM	694	N GLU A 90	12.203	9.617	-4.320	1.00	89.75	N
ATOM	695	CA GLU A 90	13.578	10.094	-4.316	1.00	89.75	C
ATOM	696	C GLU A 90	14.312	9.680	-5.586	1.00	89.75	C
ATOM	697	CB GLU A 90	14.328	9.570	-3.084	1.00	89.75	C
ATOM	698	O GLU A 90	14.344	8.500	-5.934	1.00	89.75	O
ATOM	699	CG GLU A 90	15.625	10.312	-2.791	1.00	89.75	C
ATOM	700	CD GLU A 90	16.312	9.828	-1.523	1.00	89.75	C
ATOM	701	OE1 GLU A 90	17.109	8.867	-1.590	1.00	89.75	O
ATOM	702	OE2 GLU A 90	16.062	10.430	-0.454	1.00	89.75	O
ATOM	703	N LYS A 91	14.797	10.703	-6.301	1.00	84.38	N
ATOM	704	CA LYS A 91	15.469	10.422	-7.566	1.00	84.38	C
ATOM	705	C LYS A 91	16.906	9.945	-7.332	1.00	84.38	C
ATOM	706	CB LYS A 91	15.461	11.656	-8.469	1.00	84.38	C
ATOM	707	O LYS A 91	17.516	10.289	-6.316	1.00	84.38	O
ATOM	708	CG LYS A 91	14.078	12.070	-8.945	1.00	84.38	C
ATOM	709	CD LYS A 91	14.156	13.211	-9.945	1.00	84.38	C
ATOM	710	CE LYS A 91	12.773	13.617	-10.438	1.00	84.38	C
ATOM	711	NZ LYS A 91	12.844	14.695	-11.469	1.00	84.38	N
ATOM	712	N ALA A 92	17.297	9.039	-8.227	1.00	81.69	N
ATOM	713	CA ALA A 92	18.703	8.617	-8.195	1.00	81.69	C
ATOM	714	C ALA A 92	19.625	9.820	-8.352	1.00	81.69	C
ATOM	715	CB ALA A 92	18.969	7.590	-9.289	1.00	81.69	C
ATOM	716	O ALA A 92	19.328	10.750	-9.094	1.00	81.69	O
ATOM	717	N LYS A 93	20.516	9.922	-7.480	1.00	84.50	N
ATOM	718	CA LYS A 93	21.500	10.984	-7.602	1.00	84.50	C
ATOM	719	C LYS A 93	22.906	10.469	-7.262	1.00	84.50	C
ATOM	720	CB LYS A 93	21.141	12.164	-6.695	1.00	84.50	C
ATOM	721	O LYS A 93	23.047	9.406	-6.668	1.00	84.50	O
ATOM	722	CG LYS A 93	21.156	11.828	-5.211	1.00	84.50	C
ATOM	723	CD LYS A 93	20.781	13.031	-4.363	1.00	84.50	C
ATOM	724	CE LYS A 93	20.781	12.695	-2.875	1.00	84.50	C
ATOM	725	NZ LYS A 93	20.375	13.867	-2.043	1.00	84.50	N
ATOM	726	N VAL A 94	24.000	11.055	-7.941	1.00	81.88	N
ATOM	727	CA VAL A 94	25.406	10.805	-7.621	1.00	81.88	C
ATOM	728	C VAL A 94	25.922	11.883	-6.676	1.00	81.88	C
ATOM	729	CB VAL A 94	26.281	10.750	-8.898	1.00	81.88	C
ATOM	730	O VAL A 94	25.844	13.070	-6.984	1.00	81.88	O
ATOM	731	CG1 VAL A 94	27.734	10.477	-8.539	1.00	81.88	C
ATOM	732	CG2 VAL A 94	25.750	9.680	-9.859	1.00	81.88	C
ATOM	733	N GLU A 95	26.031	11.492	-5.363	1.00	85.50	N
ATOM	734	CA GLU A 95	26.609	12.406	-4.379	1.00	85.50	C
ATOM	735	C GLU A 95	28.000	11.961	-3.973	1.00	85.50	C
ATOM	736	CB GLU A 95	25.703	12.500	-3.146	1.00	85.50	C
ATOM	737	O GLU A 95	28.234	10.789	-3.652	1.00	85.50	O
ATOM	738	CG GLU A 95	26.094	13.617	-2.188	1.00	85.50	C
ATOM	739	CD GLU A 95	25.062	13.867	-1.099	1.00	85.50	C
ATOM	740	OE1 GLU A 95	25.016	13.086	-0.118	1.00	85.50	O
ATOM	741	OE2 GLU A 95	24.297	14.844	-1.227	1.00	85.50	O
ATOM	742	N ASN A 96	29.031	12.836	-4.148	1.00	88.56	N
ATOM	743	CA ASN A 96	30.406	12.586	-3.766	1.00	88.56	C
ATOM	744	C ASN A 96	30.984	11.375	-4.496	1.00	88.56	C

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ATOM	745	CB	ASN	A	96	30.531	12.398	-2.252	1.00	88.56	C
ATOM	746	O	ASN	A	96	31.688	10.562	-3.895	1.00	88.56	O
ATOM	747	CG	ASN	A	96	30.266	13.680	-1.483	1.00	88.56	C
ATOM	748	ND2	ASN	A	96	31.125	13.984	-0.527	1.00	88.56	N
ATOM	749	OD1	ASN	A	96	29.281	14.383	-1.746	1.00	88.56	O
ATOM	750	N	GLY	A	97	30.547	11.078	-5.750	1.00	84.81	N
ATOM	751	CA	GLY	A	97	31.094	9.969	-6.512	1.00	84.81	C
ATOM	752	C	GLY	A	97	30.391	8.648	-6.242	1.00	84.81	C
ATOM	753	O	GLY	A	97	30.797	7.605	-6.754	1.00	84.81	O
ATOM	754	N	LYS	A	98	29.391	8.680	-5.191	1.00	82.06	N
ATOM	755	CA	LYS	A	98	28.578	7.516	-4.859	1.00	82.06	C
ATOM	756	C	LYS	A	98	27.172	7.625	-5.473	1.00	82.06	C
ATOM	757	CB	LYS	A	98	28.469	7.352	-3.342	1.00	82.06	C
ATOM	758	O	LYS	A	98	26.562	8.688	-5.426	1.00	82.06	O
ATOM	759	CG	LYS	A	98	27.859	6.023	-2.904	1.00	82.06	C
ATOM	760	CD	LYS	A	98	27.938	5.844	-1.393	1.00	82.06	C
ATOM	761	CE	LYS	A	98	27.297	4.543	-0.949	1.00	82.06	C
ATOM	762	NZ	LYS	A	98	27.312	4.387	0.537	1.00	82.06	N
ATOM	763	N	GLU	A	99	26.781	6.516	-6.199	1.00	81.56	N
ATOM	764	CA	GLU	A	99	25.453	6.441	-6.805	1.00	81.56	C
ATOM	765	C	GLU	A	99	24.391	6.078	-5.770	1.00	81.56	C
ATOM	766	CB	GLU	A	99	25.438	5.426	-7.949	1.00	81.56	C
ATOM	767	O	GLU	A	99	24.547	5.098	-5.039	1.00	81.56	O
ATOM	768	CG	GLU	A	99	24.156	5.449	-8.781	1.00	81.56	C
ATOM	769	CD	GLU	A	99	24.219	4.531	-9.992	1.00	81.56	C
ATOM	770	OE1	GLU	A	99	23.938	3.322	-9.852	1.00	81.56	O
ATOM	771	OE2	GLU	A	99	24.547	5.027	-11.094	1.00	81.56	O
ATOM	772	N	ILE	A	100	23.422	6.961	-5.523	1.00	82.38	N
ATOM	773	CA	ILE	A	100	22.266	6.688	-4.691	1.00	82.38	C
ATOM	774	C	ILE	A	100	21.094	6.223	-5.570	1.00	82.38	C
ATOM	775	CB	ILE	A	100	21.844	7.926	-3.869	1.00	82.38	C
ATOM	776	O	ILE	A	100	20.672	6.945	-6.473	1.00	82.38	O
ATOM	777	CG1	ILE	A	100	23.047	8.461	-3.072	1.00	82.38	C
ATOM	778	CG2	ILE	A	100	20.672	7.594	-2.941	1.00	82.38	C
ATOM	779	CD1	ILE	A	100	22.734	9.680	-2.223	1.00	82.38	C
ATOM	780	N	LYS	A	101	20.703	5.059	-5.238	1.00	81.94	N
ATOM	781	CA	LYS	A	101	19.594	4.492	-6.004	1.00	81.94	C
ATOM	782	C	LYS	A	101	18.297	5.223	-5.711	1.00	81.94	C
ATOM	783	CB	LYS	A	101	19.438	3.000	-5.707	1.00	81.94	C
ATOM	784	O	LYS	A	101	18.109	5.758	-4.613	1.00	81.94	O
ATOM	785	CG	LYS	A	101	20.578	2.141	-6.238	1.00	81.94	C
ATOM	786	CD	LYS	A	101	20.344	0.663	-5.941	1.00	81.94	C
ATOM	787	CE	LYS	A	101	21.500	-0.196	-6.449	1.00	81.94	C
ATOM	788	NZ	LYS	A	101	21.312	-1.635	-6.090	1.00	81.94	N
ATOM	789	N	GLY	A	102	17.453	5.379	-6.707	1.00	85.81	N
ATOM	790	CA	GLY	A	102	16.125	5.926	-6.539	1.00	85.81	C
ATOM	791	C	GLY	A	102	15.227	5.059	-5.672	1.00	85.81	C
ATOM	792	O	GLY	A	102	15.398	3.838	-5.617	1.00	85.81	O
ATOM	793	N	LYS	A	103	14.430	5.730	-4.895	1.00	91.75	N
ATOM	794	CA	LYS	A	103	13.508	5.059	-3.982	1.00	91.75	C
ATOM	795	C	LYS	A	103	12.141	5.734	-3.986	1.00	91.75	C
ATOM	796	CB	LYS	A	103	14.078	5.035	-2.562	1.00	91.75	C
ATOM	797	O	LYS	A	103	12.039	6.953	-4.129	1.00	91.75	O

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ATOM	798	CG	LYS A 103	13.242	4.238	-1.573	1.00	91.75	C
ATOM	799	CD	LYS A 103	13.867	4.234	-0.186	1.00	91.75	C
ATOM	800	CE	LYS A 103	13.039	3.422	0.802	1.00	91.75	C
ATOM	801	NZ	LYS A 103	13.641	3.434	2.168	1.00	91.75	N
ATOM	802	N	ILE A 104	11.094	4.836	-4.047	1.00	94.12	N
ATOM	803	CA	ILE A 104	9.719	5.305	-3.914	1.00	94.12	C
ATOM	804	C	ILE A 104	9.094	4.727	-2.643	1.00	94.12	C
ATOM	805	CB	ILE A 104	8.867	4.918	-5.148	1.00	94.12	C
ATOM	806	O	ILE A 104	9.109	3.514	-2.432	1.00	94.12	O
ATOM	807	CG1	ILE A 104	9.508	5.469	-6.426	1.00	94.12	C
ATOM	808	CG2	ILE A 104	7.434	5.426	-4.992	1.00	94.12	C
ATOM	809	CD1	ILE A 104	8.828	5.004	-7.707	1.00	94.12	C
ATOM	810	N	THR A 105	8.648	5.668	-1.786	1.00	95.31	N
ATOM	811	CA	THR A 105	8.000	5.250	-0.550	1.00	95.31	C
ATOM	812	C	THR A 105	6.574	5.793	-0.480	1.00	95.31	C
ATOM	813	CB	THR A 105	8.789	5.719	0.685	1.00	95.31	C
ATOM	814	O	THR A 105	6.309	6.910	-0.929	1.00	95.31	O
ATOM	815	CG2	THR A 105	10.133	4.996	0.786	1.00	95.31	C
ATOM	816	OG1	THR A 105	9.023	7.129	0.587	1.00	95.31	O
ATOM	817	N	GLY A 106	5.609	4.922	-0.064	1.00	95.25	N
ATOM	818	CA	GLY A 106	4.219	5.316	0.085	1.00	95.25	C
ATOM	819	C	GLY A 106	3.588	4.812	1.370	1.00	95.25	C
ATOM	820	O	GLY A 106	4.027	3.805	1.929	1.00	95.25	O
ATOM	821	N	LYS A 107	2.646	5.648	1.837	1.00	96.44	N
ATOM	822	CA	LYS A 107	1.885	5.285	3.027	1.00	96.44	C
ATOM	823	C	LYS A 107	0.390	5.504	2.812	1.00	96.44	C
ATOM	824	CB	LYS A 107	2.363	6.086	4.238	1.00	96.44	C
ATOM	825	O	LYS A 107	-0.021	6.543	2.289	1.00	96.44	O
ATOM	826	CG	LYS A 107	3.756	5.711	4.719	1.00	96.44	C
ATOM	827	CD	LYS A 107	4.148	6.492	5.965	1.00	96.44	C
ATOM	828	CE	LYS A 107	5.574	6.176	6.398	1.00	96.44	C
ATOM	829	NZ	LYS A 107	5.973	6.965	7.605	1.00	96.44	N
ATOM	830	N	VAL A 108	-0.347	4.445	3.137	1.00	96.88	N
ATOM	831	CA	VAL A 108	-1.803	4.531	3.090	1.00	96.88	C
ATOM	832	C	VAL A 108	-2.387	4.195	4.461	1.00	96.88	C
ATOM	833	CB	VAL A 108	-2.393	3.594	2.012	1.00	96.88	C
ATOM	834	O	VAL A 108	-2.049	3.164	5.047	1.00	96.88	O
ATOM	835	CG1	VAL A 108	-3.914	3.727	1.954	1.00	96.88	C
ATOM	836	CG2	VAL A 108	-1.774	3.893	0.648	1.00	96.88	C
ATOM	837	N	ARG A 109	-3.217	5.125	4.898	1.00	95.50	N
ATOM	838	CA	ARG A 109	-3.910	4.891	6.164	1.00	95.50	C
ATOM	839	C	ARG A 109	-5.422	4.922	5.973	1.00	95.50	C
ATOM	840	CB	ARG A 109	-3.492	5.930	7.207	1.00	95.50	C
ATOM	841	O	ARG A 109	-5.969	5.898	5.453	1.00	95.50	O
ATOM	842	CG	ARG A 109	-3.973	5.617	8.617	1.00	95.50	C
ATOM	843	CD	ARG A 109	-3.408	6.598	9.633	1.00	95.50	C
ATOM	844	NE	ARG A 109	-3.828	6.266	10.992	1.00	95.50	N
ATOM	845	NH1	ARG A 109	-2.547	7.895	12.008	1.00	95.50	N
ATOM	846	NH2	ARG A 109	-3.855	6.504	13.273	1.00	95.50	N
ATOM	847	CZ	ARG A 109	-3.408	6.887	12.086	1.00	95.50	C
ATOM	848	N	ILE A 110	-6.078	3.826	6.363	1.00	93.25	N
ATOM	849	CA	ILE A 110	-7.531	3.732	6.270	1.00	93.25	C
ATOM	850	C	ILE A 110	-8.141	3.709	7.672	1.00	93.25	C

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ATOM	851	CB	ILE A 110	-7.969	2.482	5.477	1.00	93.25	C
ATOM	852	O	ILE A 110	-7.746	2.893	8.508	1.00	93.25	O
ATOM	853	CG1	ILE A 110	-7.320	2.479	4.086	1.00	93.25	C
ATOM	854	CG2	ILE A 110	-9.500	2.418	5.367	1.00	93.25	C
ATOM	855	CD1	ILE A 110	-7.570	1.204	3.293	1.00	93.25	C
ATOM	856	N	SER A 111	-9.062	4.691	7.918	1.00	90.94	N
ATOM	857	CA	SER A 111	-9.695	4.785	9.234	1.00	90.94	C
ATOM	858	C	SER A 111	-11.203	4.973	9.109	1.00	90.94	C
ATOM	859	CB	SER A 111	-9.086	5.945	10.031	1.00	90.94	C
ATOM	860	O	SER A 111	-11.719	5.207	8.016	1.00	90.94	O
ATOM	861	OG	SER A 111	-9.180	7.156	9.305	1.00	90.94	O
ATOM	862	N	ALA A 112	-11.930	4.684	10.234	1.00	84.00	N
ATOM	863	CA	ALA A 112	-13.367	4.902	10.172	1.00	84.00	C
ATOM	864	C	ALA A 112	-13.688	6.344	9.789	1.00	84.00	C
ATOM	865	CB	ALA A 112	-14.016	4.559	11.516	1.00	84.00	C
ATOM	866	O	ALA A 112	-12.969	7.270	10.164	1.00	84.00	O
TER									
ENDMDL									
MODEL	1								
ATOM	1	N	MET A 1	17.297	14.367	-27.531	1.00	65.38	N
ATOM	2	CA	MET A 1	16.781	14.422	-26.172	1.00	65.38	C
ATOM	3	C	MET A 1	15.750	13.336	-25.922	1.00	65.38	C
ATOM	4	CB	MET A 1	16.188	15.805	-25.875	1.00	65.38	C
ATOM	5	O	MET A 1	14.812	13.172	-26.719	1.00	65.38	O
ATOM	6	CG	MET A 1	17.219	16.859	-25.531	1.00	65.38	C
ATOM	7	SD	MET A 1	16.453	18.438	-25.000	1.00	65.38	S
ATOM	8	CE	MET A 1	17.953	19.453	-24.750	1.00	65.38	C
ATOM	9	N	LYS A 2	16.234	12.195	-25.375	1.00	67.44	N
ATOM	10	CA	LYS A 2	15.328	11.070	-25.141	1.00	67.44	C
ATOM	11	C	LYS A 2	14.219	11.453	-24.172	1.00	67.44	C
ATOM	12	CB	LYS A 2	16.109	9.867	-24.609	1.00	67.44	C
ATOM	13	O	LYS A 2	14.469	12.109	-23.156	1.00	67.44	O
ATOM	14	CG	LYS A 2	16.844	9.070	-25.688	1.00	67.44	C
ATOM	15	CD	LYS A 2	17.500	7.832	-25.109	1.00	67.44	C
ATOM	16	CE	LYS A 2	18.328	7.102	-26.156	1.00	67.44	C
ATOM	17	NZ	LYS A 2	19.016	5.898	-25.578	1.00	67.44	N
ATOM	18	N	LYS A 3	12.883	11.508	-24.469	1.00	84.12	N
ATOM	19	CA	LYS A 3	11.648	11.859	-23.781	1.00	84.12	C
ATOM	20	C	LYS A 3	11.281	10.820	-22.719	1.00	84.12	C
ATOM	21	CB	LYS A 3	10.492	12.023	-24.766	1.00	84.12	C
ATOM	22	O	LYS A 3	11.422	9.617	-22.969	1.00	84.12	O
ATOM	23	CG	LYS A 3	10.484	13.359	-25.500	1.00	84.12	C
ATOM	24	CD	LYS A 3	9.258	13.500	-26.391	1.00	84.12	C
ATOM	25	CE	LYS A 3	9.320	14.766	-27.234	1.00	84.12	C
ATOM	26	NZ	LYS A 3	8.141	14.891	-28.141	1.00	84.12	N
ATOM	27	N	ILE A 4	11.273	11.148	-21.453	1.00	89.69	N
ATOM	28	CA	ILE A 4	10.812	10.320	-20.344	1.00	89.69	C
ATOM	29	C	ILE A 4	9.305	10.133	-20.438	1.00	89.69	C
ATOM	30	CB	ILE A 4	11.203	10.945	-18.984	1.00	89.69	C
ATOM	31	O	ILE A 4	8.562	11.102	-20.609	1.00	89.69	O
ATOM	32	CG1	ILE A 4	12.727	11.047	-18.859	1.00	89.69	C
ATOM	33	CG2	ILE A 4	10.609	10.133	-17.828	1.00	89.69	C
ATOM	34	CD1	ILE A 4	13.195	11.766	-17.609	1.00	89.69	C

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ATOM	35	N	ILE A	5	8.898	8.828	-20.328	1.00	92.75	N
ATOM	36	CA	ILE A	5	7.477	8.500	-20.297	1.00	92.75	C
ATOM	37	C	ILE A	5	7.082	8.078	-18.875	1.00	92.75	C
ATOM	38	CB	ILE A	5	7.133	7.379	-21.297	1.00	92.75	C
ATOM	39	O	ILE A	5	7.707	7.191	-18.297	1.00	92.75	O
ATOM	40	CG1	ILE A	5	7.559	7.785	-22.719	1.00	92.75	C
ATOM	41	CG2	ILE A	5	5.641	7.051	-21.250	1.00	92.75	C
ATOM	42	CD1	ILE A	5	7.535	6.645	-23.719	1.00	92.75	C
ATOM	43	N	VAL A	6	6.020	8.773	-18.391	1.00	95.00	N
ATOM	44	CA	VAL A	6	5.539	8.477	-17.047	1.00	95.00	C
ATOM	45	C	VAL A	6	4.133	7.883	-17.109	1.00	95.00	C
ATOM	46	CB	VAL A	6	5.543	9.727	-16.141	1.00	95.00	C
ATOM	47	O	VAL A	6	3.240	8.469	-17.734	1.00	95.00	O
ATOM	48	CG1	VAL A	6	5.094	9.375	-14.727	1.00	95.00	C
ATOM	49	CG2	VAL A	6	6.930	10.367	-16.125	1.00	95.00	C
ATOM	50	N	ILE A	7	4.031	6.703	-16.438	1.00	94.69	N
ATOM	51	CA	ILE A	7	2.727	6.070	-16.266	1.00	94.69	C
ATOM	52	C	ILE A	7	2.273	6.207	-14.820	1.00	94.69	C
ATOM	53	CB	ILE A	7	2.764	4.582	-16.688	1.00	94.69	C
ATOM	54	O	ILE A	7	2.949	5.727	-13.906	1.00	94.69	O
ATOM	55	CG1	ILE A	7	3.248	4.441	-18.141	1.00	94.69	C
ATOM	56	CG2	ILE A	7	1.386	3.938	-16.500	1.00	94.69	C
ATOM	57	CD1	ILE A	7	3.582	3.014	-18.531	1.00	94.69	C
ATOM	58	N	GLU A	8	1.126	6.824	-14.742	1.00	95.81	N
ATOM	59	CA	GLU A	8	0.592	7.043	-13.398	1.00	95.81	C
ATOM	60	C	GLU A	8	-0.701	6.262	-13.188	1.00	95.81	C
ATOM	61	CB	GLU A	8	0.353	8.539	-13.148	1.00	95.81	C
ATOM	62	O	GLU A	8	-1.605	6.309	-14.023	1.00	95.81	O
ATOM	63	CG	GLU A	8	1.631	9.352	-13.016	1.00	95.81	C
ATOM	64	CD	GLU A	8	1.380	10.805	-12.656	1.00	95.81	C
ATOM	65	OE1	GLU A	8	1.934	11.289	-11.641	1.00	95.81	O
ATOM	66	OE2	GLU A	8	0.623	11.469	-13.398	1.00	95.81	O
ATOM	67	N	GLU A	9	-0.718	5.582	-11.992	1.00	96.62	N
ATOM	68	CA	GLU A	9	-1.898	4.828	-11.578	1.00	96.62	C
ATOM	69	C	GLU A	9	-2.312	5.188	-10.148	1.00	96.62	C
ATOM	70	CB	GLU A	9	-1.642	3.324	-11.688	1.00	96.62	C
ATOM	71	O	GLU A	9	-1.463	5.328	-9.273	1.00	96.62	O
ATOM	72	CG	GLU A	9	-2.867	2.469	-11.398	1.00	96.62	C
ATOM	73	CD	GLU A	9	-2.615	0.979	-11.578	1.00	96.62	C
ATOM	74	OE1	GLU A	9	-2.256	0.300	-10.586	1.00	96.62	O
ATOM	75	OE2	GLU A	9	-2.775	0.489	-12.719	1.00	96.62	O
ATOM	76	N	ASN A	10	-3.586	5.383	-10.016	1.00	97.31	N
ATOM	77	CA	ASN A	10	-4.148	5.680	-8.703	1.00	97.31	C
ATOM	78	C	ASN A	10	-5.066	4.562	-8.219	1.00	97.31	C
ATOM	79	CB	ASN A	10	-4.898	7.012	-8.727	1.00	97.31	C
ATOM	80	O	ASN A	10	-5.965	4.133	-8.938	1.00	97.31	O
ATOM	81	CG	ASN A	10	-4.000	8.180	-9.070	1.00	97.31	C
ATOM	82	ND2	ASN A	10	-4.215	8.773	-10.242	1.00	97.31	N
ATOM	83	OD1	ASN A	10	-3.123	8.555	-8.289	1.00	97.31	O
ATOM	84	N	GLU A	11	-4.801	4.117	-6.988	1.00	96.69	N
ATOM	85	CA	GLU A	11	-5.594	3.039	-6.402	1.00	96.69	C
ATOM	86	C	GLU A	11	-6.035	3.385	-4.984	1.00	96.69	C
ATOM	87	CB	GLU A	11	-4.805	1.728	-6.406	1.00	96.69	C

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ATOM	88	O	GLU A 11	-5.277	3.982	-4.223	1.00	96.69	O
ATOM	89	CG	GLU A 11	-5.645	0.503	-6.070	1.00	96.69	C
ATOM	90	CD	GLU A 11	-4.910	-0.809	-6.305	1.00	96.69	C
ATOM	91	OE1	GLU A 11	-4.930	-1.681	-5.406	1.00	96.69	O
ATOM	92	OE2	GLU A 11	-4.316	-0.964	-7.395	1.00	96.69	O
ATOM	93	N	GLU A 12	-7.309	3.000	-4.746	1.00	97.31	N
ATOM	94	CA	GLU A 12	-7.867	3.238	-3.420	1.00	97.31	C
ATOM	95	C	GLU A 12	-8.438	1.956	-2.822	1.00	97.31	C
ATOM	96	CB	GLU A 12	-8.945	4.320	-3.479	1.00	97.31	C
ATOM	97	O	GLU A 12	-9.180	1.229	-3.492	1.00	97.31	O
ATOM	98	CG	GLU A 12	-8.422	5.695	-3.861	1.00	97.31	C
ATOM	99	CD	GLU A 12	-9.508	6.762	-3.910	1.00	97.31	C
ATOM	100	OE1	GLU A 12	-9.680	7.500	-2.912	1.00	97.31	O
ATOM	101	OE2	GLU A 12	-10.188	6.855	-4.953	1.00	97.31	O
ATOM	102	N	ILE A 13	-8.016	1.729	-1.495	1.00	96.69	N
ATOM	103	CA	ILE A 13	-8.484	0.552	-0.772	1.00	96.69	C
ATOM	104	C	ILE A 13	-9.094	0.976	0.563	1.00	96.69	C
ATOM	105	CB	ILE A 13	-7.344	-0.465	-0.544	1.00	96.69	C
ATOM	106	O	ILE A 13	-8.469	1.714	1.329	1.00	96.69	O
ATOM	107	CG1	ILE A 13	-6.703	-0.861	-1.881	1.00	96.69	C
ATOM	108	CG2	ILE A 13	-7.859	-1.697	0.203	1.00	96.69	C
ATOM	109	CD1	ILE A 13	-5.406	-1.640	-1.739	1.00	96.69	C
ATOM	110	N	THR A 14	-10.367	0.488	0.717	1.00	96.62	N
ATOM	111	CA	THR A 14	-11.039	0.731	1.990	1.00	96.62	C
ATOM	112	C	THR A 14	-11.367	-0.584	2.689	1.00	96.62	C
ATOM	113	CB	THR A 14	-12.328	1.548	1.794	1.00	96.62	C
ATOM	114	O	THR A 14	-11.953	-1.486	2.084	1.00	96.62	O
ATOM	115	CG2	THR A 14	-12.992	1.856	3.131	1.00	96.62	C
ATOM	116	OG1	THR A 14	-12.016	2.779	1.135	1.00	96.62	O
ATOM	117	N	ILE A 15	-10.977	-0.646	3.979	1.00	96.12	N
ATOM	118	CA	ILE A 15	-11.164	-1.869	4.750	1.00	96.12	C
ATOM	119	C	ILE A 15	-11.875	-1.547	6.062	1.00	96.12	C
ATOM	120	CB	ILE A 15	-9.820	-2.578	5.023	1.00	96.12	C
ATOM	121	O	ILE A 15	-11.508	-0.594	6.758	1.00	96.12	O
ATOM	122	CG1	ILE A 15	-9.109	-2.902	3.705	1.00	96.12	C
ATOM	123	CG2	ILE A 15	-10.031	-3.844	5.859	1.00	96.12	C
ATOM	124	CD1	ILE A 15	-7.609	-3.127	3.850	1.00	96.12	C
ATOM	125	N	GLU A 16	-12.906	-2.361	6.328	1.00	95.25	N
ATOM	126	CA	GLU A 16	-13.625	-2.221	7.590	1.00	95.25	C
ATOM	127	C	GLU A 16	-13.289	-3.363	8.547	1.00	95.25	C
ATOM	128	CB	GLU A 16	-15.133	-2.166	7.344	1.00	95.25	C
ATOM	129	O	GLU A 16	-13.398	-4.535	8.180	1.00	95.25	O
ATOM	130	CG	GLU A 16	-15.586	-0.932	6.578	1.00	95.25	C
ATOM	131	CD	GLU A 16	-17.094	-0.826	6.453	1.00	95.25	C
ATOM	132	OE1	GLU A 16	-17.578	-0.065	5.586	1.00	95.25	O
ATOM	133	OE2	GLU A 16	-17.797	-1.510	7.230	1.00	95.25	O
ATOM	134	N	LEU A 17	-12.828	-3.010	9.773	1.00	94.31	N
ATOM	135	CA	LEU A 17	-12.477	-3.990	10.797	1.00	94.31	C
ATOM	136	C	LEU A 17	-13.227	-3.713	12.094	1.00	94.31	C
ATOM	137	CB	LEU A 17	-10.969	-3.980	11.055	1.00	94.31	C
ATOM	138	O	LEU A 17	-13.703	-2.596	12.320	1.00	94.31	O
ATOM	139	CG	LEU A 17	-10.070	-4.344	9.867	1.00	94.31	C
ATOM	140	CD1	LEU A 17	-8.609	-4.129	10.227	1.00	94.31	C

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ATOM	141	CD2 LEU A 17	-10.320	-5.781	9.430	1.00	94.31	C
ATOM	142	N GLU A 18	-13.398	-4.777	12.859	1.00	92.19	N
ATOM	143	CA GLU A 18	-14.000	-4.637	14.180	1.00	92.19	C
ATOM	144	C GLU A 18	-13.000	-4.949	15.281	1.00	92.19	C
ATOM	145	CB GLU A 18	-15.227	-5.547	14.312	1.00	92.19	C
ATOM	146	O GLU A 18	-12.375	-6.012	15.281	1.00	92.19	O
ATOM	147	CG GLU A 18	-16.453	-5.039	13.562	1.00	92.19	C
ATOM	148	CD GLU A 18	-17.703	-5.852	13.844	1.00	92.19	C
ATOM	149	OE1 GLU A 18	-18.828	-5.281	13.805	1.00	92.19	O
ATOM	150	OE2 GLU A 18	-17.578	-7.066	14.109	1.00	92.19	O
ATOM	151	N ASN A 19	-12.844	-3.988	16.188	1.00	88.44	N
ATOM	152	CA ASN A 19	-12.031	-4.172	17.391	1.00	88.44	C
ATOM	153	C ASN A 19	-10.625	-4.645	17.047	1.00	88.44	C
ATOM	154	CB ASN A 19	-12.703	-5.160	18.344	1.00	88.44	C
ATOM	155	O ASN A 19	-10.078	-5.523	17.719	1.00	88.44	O
ATOM	156	CG ASN A 19	-14.000	-4.621	18.922	1.00	88.44	C
ATOM	157	ND2 ASN A 19	-15.000	-5.484	19.047	1.00	88.44	N
ATOM	158	OD1 ASN A 19	-14.094	-3.439	19.266	1.00	88.44	O
ATOM	159	N ALA A 20	-10.094	-4.129	15.930	1.00	91.94	N
ATOM	160	CA ALA A 20	-8.727	-4.465	15.547	1.00	91.94	C
ATOM	161	C ALA A 20	-7.715	-3.633	16.328	1.00	91.94	C
ATOM	162	CB ALA A 20	-8.531	-4.254	14.047	1.00	91.94	C
ATOM	163	O ALA A 20	-7.977	-2.471	16.656	1.00	91.94	O
ATOM	164	N THR A 21	-6.664	-4.344	16.719	1.00	92.81	N
ATOM	165	CA THR A 21	-5.586	-3.629	17.391	1.00	92.81	C
ATOM	166	C THR A 21	-4.777	-2.809	16.391	1.00	92.81	C
ATOM	167	CB THR A 21	-4.652	-4.598	18.141	1.00	92.81	C
ATOM	168	O THR A 21	-4.816	-3.068	15.195	1.00	92.81	O
ATOM	169	CG2 THR A 21	-5.438	-5.488	19.109	1.00	92.81	C
ATOM	170	OG1 THR A 21	-3.969	-5.426	17.188	1.00	92.81	O
ATOM	171	N GLU A 22	-4.113	-1.881	16.906	1.00	90.81	N
ATOM	172	CA GLU A 22	-3.242	-1.061	16.078	1.00	90.81	C
ATOM	173	C GLU A 22	-2.189	-1.914	15.367	1.00	90.81	C
ATOM	174	CB GLU A 22	-2.566	0.029	16.906	1.00	90.81	C
ATOM	175	O GLU A 22	-1.847	-1.659	14.211	1.00	90.81	O
ATOM	176	CG GLU A 22	-3.480	1.195	17.250	1.00	90.81	C
ATOM	177	CD GLU A 22	-2.760	2.330	17.969	1.00	90.81	C
ATOM	178	OE1 GLU A 22	-3.428	3.301	18.391	1.00	90.81	O
ATOM	179	OE2 GLU A 22	-1.519	2.248	18.094	1.00	90.81	O
ATOM	180	N GLU A 23	-1.687	-2.934	16.047	1.00	93.88	N
ATOM	181	CA GLU A 23	-0.691	-3.826	15.453	1.00	93.88	C
ATOM	182	C GLU A 23	-1.259	-4.570	14.250	1.00	93.88	C
ATOM	183	CB GLU A 23	-0.186	-4.828	16.500	1.00	93.88	C
ATOM	184	O GLU A 23	-0.577	-4.727	13.234	1.00	93.88	O
ATOM	185	CG GLU A 23	1.021	-5.633	16.047	1.00	93.88	C
ATOM	186	CD GLU A 23	1.561	-6.562	17.125	1.00	93.88	C
ATOM	187	OE1 GLU A 23	2.492	-7.348	16.828	1.00	93.88	O
ATOM	188	OE2 GLU A 23	1.046	-6.508	18.266	1.00	93.88	O
ATOM	189	N GLU A 24	-2.434	-5.020	14.336	1.00	94.94	N
ATOM	190	CA GLU A 24	-3.100	-5.723	13.242	1.00	94.94	C
ATOM	191	C GLU A 24	-3.287	-4.812	12.031	1.00	94.94	C
ATOM	192	CB GLU A 24	-4.453	-6.273	13.703	1.00	94.94	C
ATOM	193	O GLU A 24	-3.074	-5.230	10.891	1.00	94.94	O

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ATOM	194	CG	GLU A 24	-4.344	-7.422	14.695	1.00	94.94	C
ATOM	195	CD	GLU A 24	-5.691	-7.906	15.195	1.00	94.94	C
ATOM	196	OE1	GLU A 24	-6.047	-9.078	14.945	1.00	94.94	O
ATOM	197	OE2	GLU A 24	-6.402	-7.109	15.852	1.00	94.94	O
ATOM	198	N	ILE A 25	-3.623	-3.660	12.328	1.00	94.94	N
ATOM	199	CA	ILE A 25	-3.857	-2.686	11.273	1.00	94.94	C
ATOM	200	C	ILE A 25	-2.543	-2.363	10.570	1.00	94.94	C
ATOM	201	CB	ILE A 25	-4.500	-1.393	11.828	1.00	94.94	C
ATOM	202	O	ILE A 25	-2.486	-2.318	9.336	1.00	94.94	O
ATOM	203	CG1	ILE A 25	-5.910	-1.681	12.359	1.00	94.94	C
ATOM	204	CG2	ILE A 25	-4.527	-0.301	10.758	1.00	94.94	C
ATOM	205	CD1	ILE A 25	-6.531	-0.522	13.125	1.00	94.94	C
ATOM	206	N	GLU A 26	-1.500	-2.199	11.367	1.00	94.81	N
ATOM	207	CA	GLU A 26	-0.189	-1.941	10.781	1.00	94.81	C
ATOM	208	C	GLU A 26	0.264	-3.107	9.906	1.00	94.81	C
ATOM	209	CB	GLU A 26	0.846	-1.672	11.875	1.00	94.81	C
ATOM	210	O	GLU A 26	0.842	-2.900	8.836	1.00	94.81	O
ATOM	211	CG	GLU A 26	2.201	-1.228	11.344	1.00	94.81	C
ATOM	212	CD	GLU A 26	2.168	0.139	10.680	1.00	94.81	C
ATOM	213	OE1	GLU A 26	3.113	0.473	9.930	1.00	94.81	O
ATOM	214	OE2	GLU A 26	1.188	0.883	10.914	1.00	94.81	O
ATOM	215	N	LYS A 27	0.039	-4.262	10.352	1.00	96.19	N
ATOM	216	CA	LYS A 27	0.387	-5.441	9.570	1.00	96.19	C
ATOM	217	C	LYS A 27	-0.375	-5.469	8.250	1.00	96.19	C
ATOM	218	CB	LYS A 27	0.102	-6.719	10.359	1.00	96.19	C
ATOM	219	O	LYS A 27	0.187	-5.816	7.207	1.00	96.19	O
ATOM	220	CG	LYS A 27	1.181	-7.070	11.375	1.00	96.19	C
ATOM	221	CD	LYS A 27	0.878	-8.383	12.078	1.00	96.19	C
ATOM	222	CE	LYS A 27	1.871	-8.664	13.203	1.00	96.19	C
ATOM	223	NZ	LYS A 27	1.592	-9.961	13.883	1.00	96.19	N
ATOM	224	N	LEU A 28	-1.586	-5.078	8.289	1.00	96.25	N
ATOM	225	CA	LEU A 28	-2.412	-5.039	7.086	1.00	96.25	C
ATOM	226	C	LEU A 28	-1.860	-4.035	6.078	1.00	96.25	C
ATOM	227	CB	LEU A 28	-3.857	-4.680	7.441	1.00	96.25	C
ATOM	228	O	LEU A 28	-1.741	-4.344	4.891	1.00	96.25	O
ATOM	229	CG	LEU A 28	-4.895	-4.855	6.332	1.00	96.25	C
ATOM	230	CD1	LEU A 28	-5.867	-5.977	6.684	1.00	96.25	C
ATOM	231	CD2	LEU A 28	-5.641	-3.549	6.082	1.00	96.25	C
ATOM	232	N	PHE A 29	-1.538	-2.902	6.562	1.00	96.31	N
ATOM	233	CA	PHE A 29	-0.963	-1.897	5.676	1.00	96.31	C
ATOM	234	C	PHE A 29	0.285	-2.436	4.984	1.00	96.31	C
ATOM	235	CB	PHE A 29	-0.625	-0.622	6.453	1.00	96.31	C
ATOM	236	O	PHE A 29	0.431	-2.309	3.768	1.00	96.31	O
ATOM	237	CG	PHE A 29	-1.820	0.245	6.746	1.00	96.31	C
ATOM	238	CD1	PHE A 29	-2.625	0.715	5.715	1.00	96.31	C
ATOM	239	CD2	PHE A 29	-2.139	0.588	8.055	1.00	96.31	C
ATOM	240	CE1	PHE A 29	-3.732	1.518	5.984	1.00	96.31	C
ATOM	241	CE2	PHE A 29	-3.242	1.390	8.328	1.00	96.31	C
ATOM	242	CZ	PHE A 29	-4.035	1.854	7.293	1.00	96.31	C
ATOM	243	N	LYS A 30	1.149	-3.016	5.746	1.00	96.31	N
ATOM	244	CA	LYS A 30	2.404	-3.537	5.215	1.00	96.31	C
ATOM	245	C	LYS A 30	2.150	-4.609	4.156	1.00	96.31	C
ATOM	246	CB	LYS A 30	3.271	-4.102	6.340	1.00	96.31	C

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ATOM	247	O	LYS A 30	2.795	-4.617	3.107	1.00	96.31	O
ATOM	248	CG	LYS A 30	3.980	-3.043	7.168	1.00	96.31	C
ATOM	249	CD	LYS A 30	4.867	-3.670	8.234	1.00	96.31	C
ATOM	250	CE	LYS A 30	5.473	-2.613	9.148	1.00	96.31	C
ATOM	251	NZ	LYS A 30	6.359	-3.223	10.188	1.00	96.31	N
ATOM	252	N	GLU A 31	1.246	-5.402	4.465	1.00	97.12	N
ATOM	253	CA	GLU A 31	0.949	-6.508	3.555	1.00	97.12	C
ATOM	254	C	GLU A 31	0.412	-5.996	2.223	1.00	97.12	C
ATOM	255	CB	GLU A 31	-0.055	-7.473	4.191	1.00	97.12	C
ATOM	256	O	GLU A 31	0.820	-6.465	1.159	1.00	97.12	O
ATOM	257	CG	GLU A 31	0.549	-8.375	5.258	1.00	97.12	C
ATOM	258	CD	GLU A 31	-0.418	-9.430	5.770	1.00	97.12	C
ATOM	259	OE1	GLU A 31	-0.117	-10.641	5.645	1.00	97.12	O
ATOM	260	OE2	GLU A 31	-1.485	-9.047	6.297	1.00	97.12	O
ATOM	261	N	ILE A 32	-0.454	-5.098	2.277	1.00	96.56	N
ATOM	262	CA	ILE A 32	-1.061	-4.539	1.073	1.00	96.56	C
ATOM	263	C	ILE A 32	0.009	-3.850	0.229	1.00	96.56	C
ATOM	264	CB	ILE A 32	-2.191	-3.545	1.420	1.00	96.56	C
ATOM	265	O	ILE A 32	0.089	-4.070	-0.982	1.00	96.56	O
ATOM	266	CG1	ILE A 32	-3.379	-4.285	2.045	1.00	96.56	C
ATOM	267	CG2	ILE A 32	-2.627	-2.766	0.175	1.00	96.56	C
ATOM	268	CD1	ILE A 32	-4.441	-3.367	2.637	1.00	96.56	C
ATOM	269	N	ILE A 33	0.795	-3.066	0.857	1.00	96.62	N
ATOM	270	CA	ILE A 33	1.827	-2.316	0.150	1.00	96.62	C
ATOM	271	C	ILE A 33	2.828	-3.283	-0.480	1.00	96.62	C
ATOM	272	CB	ILE A 33	2.555	-1.329	1.091	1.00	96.62	C
ATOM	273	O	ILE A 33	3.170	-3.152	-1.658	1.00	96.62	O
ATOM	274	CG1	ILE A 33	1.582	-0.256	1.594	1.00	96.62	C
ATOM	275	CG2	ILE A 33	3.754	-0.692	0.383	1.00	96.62	C
ATOM	276	CD1	ILE A 33	2.145	0.614	2.709	1.00	96.62	C
ATOM	277	N	GLU A 34	3.281	-4.254	0.260	1.00	97.06	N
ATOM	278	CA	GLU A 34	4.238	-5.234	-0.238	1.00	97.06	C
ATOM	279	C	GLU A 34	3.672	-6.008	-1.424	1.00	97.06	C
ATOM	280	CB	GLU A 34	4.648	-6.203	0.875	1.00	97.06	C
ATOM	281	O	GLU A 34	4.387	-6.301	-2.385	1.00	97.06	O
ATOM	282	CG	GLU A 34	5.676	-5.633	1.841	1.00	97.06	C
ATOM	283	CD	GLU A 34	6.156	-6.645	2.871	1.00	97.06	C
ATOM	284	OE1	GLU A 34	7.211	-6.410	3.502	1.00	97.06	O
ATOM	285	OE2	GLU A 34	5.473	-7.676	3.047	1.00	97.06	O
ATOM	286	N	LYS A 35	2.479	-6.383	-1.303	1.00	96.38	N
ATOM	287	CA	LYS A 35	1.836	-7.105	-2.396	1.00	96.38	C
ATOM	288	C	LYS A 35	1.819	-6.270	-3.674	1.00	96.38	C
ATOM	289	CB	LYS A 35	0.409	-7.504	-2.014	1.00	96.38	C
ATOM	290	O	LYS A 35	2.090	-6.781	-4.762	1.00	96.38	O
ATOM	291	CG	LYS A 35	-0.257	-8.445	-3.004	1.00	96.38	C
ATOM	292	CD	LYS A 35	-1.633	-8.883	-2.518	1.00	96.38	C
ATOM	293	CE	LYS A 35	-2.332	-9.773	-3.539	1.00	96.38	C
ATOM	294	NZ	LYS A 35	-3.682	-10.203	-3.070	1.00	96.38	N
ATOM	295	N	LYS A 36	1.535	-4.988	-3.508	1.00	96.06	N
ATOM	296	CA	LYS A 36	1.479	-4.117	-4.676	1.00	96.06	C
ATOM	297	C	LYS A 36	2.861	-3.939	-5.297	1.00	96.06	C
ATOM	298	CB	LYS A 36	0.893	-2.754	-4.305	1.00	96.06	C
ATOM	299	O	LYS A 36	3.002	-3.934	-6.523	1.00	96.06	O

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ATOM	300	CG	LYS	A	36	-0.600	-2.781	-4.012	1.00	96.06	C
ATOM	301	CD	LYS	A	36	-1.401	-3.221	-5.230	1.00	96.06	C
ATOM	302	CE	LYS	A	36	-2.895	-3.250	-4.938	1.00	96.06	C
ATOM	303	NZ	LYS	A	36	-3.682	-3.723	-6.113	1.00	96.06	N
ATOM	304	N	ILE	A	37	3.826	-3.803	-4.477	1.00	97.12	N
ATOM	305	CA	ILE	A	37	5.195	-3.660	-4.961	1.00	97.12	C
ATOM	306	C	ILE	A	37	5.598	-4.906	-5.746	1.00	97.12	C
ATOM	307	CB	ILE	A	37	6.184	-3.416	-3.797	1.00	97.12	C
ATOM	308	O	ILE	A	37	6.117	-4.805	-6.859	1.00	97.12	O
ATOM	309	CG1	ILE	A	37	5.953	-2.029	-3.184	1.00	97.12	C
ATOM	310	CG2	ILE	A	37	7.629	-3.572	-4.273	1.00	97.12	C
ATOM	311	CD1	ILE	A	37	6.727	-1.789	-1.894	1.00	97.12	C
ATOM	312	N	LYS	A	38	5.363	-6.043	-5.164	1.00	96.81	N
ATOM	313	CA	LYS	A	38	5.723	-7.297	-5.816	1.00	96.81	C
ATOM	314	C	LYS	A	38	5.012	-7.445	-7.156	1.00	96.81	C
ATOM	315	CB	LYS	A	38	5.398	-8.484	-4.914	1.00	96.81	C
ATOM	316	O	LYS	A	38	5.609	-7.895	-8.141	1.00	96.81	O
ATOM	317	CG	LYS	A	38	6.414	-8.727	-3.809	1.00	96.81	C
ATOM	318	CD	LYS	A	38	6.066	-9.953	-2.980	1.00	96.81	C
ATOM	319	CE	LYS	A	38	7.020	-10.133	-1.809	1.00	96.81	C
ATOM	320	NZ	LYS	A	38	6.641	-11.297	-0.954	1.00	96.81	N
ATOM	321	N	GLU	A	39	3.793	-7.121	-7.145	1.00	95.88	N
ATOM	322	CA	GLU	A	39	3.014	-7.203	-8.375	1.00	95.88	C
ATOM	323	C	GLU	A	39	3.654	-6.379	-9.492	1.00	95.88	C
ATOM	324	CB	GLU	A	39	1.576	-6.734	-8.133	1.00	95.88	C
ATOM	325	O	GLU	A	39	3.803	-6.859	-10.617	1.00	95.88	O
ATOM	326	CG	GLU	A	39	0.681	-6.836	-9.359	1.00	95.88	C
ATOM	327	CD	GLU	A	39	-0.725	-6.309	-9.125	1.00	95.88	C
ATOM	328	OE1	GLU	A	39	-1.087	-5.266	-9.711	1.00	95.88	O
ATOM	329	OE2	GLU	A	39	-1.470	-6.941	-8.344	1.00	95.88	O
ATOM	330	N	ILE	A	40	4.098	-5.211	-9.180	1.00	95.56	N
ATOM	331	CA	ILE	A	40	4.664	-4.312	-10.180	1.00	95.56	C
ATOM	332	C	ILE	A	40	6.070	-4.773	-10.555	1.00	95.56	C
ATOM	333	CB	ILE	A	40	4.699	-2.854	-9.664	1.00	95.56	C
ATOM	334	O	ILE	A	40	6.434	-4.777	-11.734	1.00	95.56	O
ATOM	335	CG1	ILE	A	40	3.275	-2.324	-9.461	1.00	95.56	C
ATOM	336	CG2	ILE	A	40	5.480	-1.960	-10.633	1.00	95.56	C
ATOM	337	CD1	ILE	A	40	3.215	-0.956	-8.797	1.00	95.56	C
ATOM	338	N	GLU	A	41	6.836	-5.223	-9.617	1.00	95.69	N
ATOM	339	CA	GLU	A	41	8.203	-5.668	-9.891	1.00	95.69	C
ATOM	340	C	GLU	A	41	8.203	-6.957	-10.711	1.00	95.69	C
ATOM	341	CB	GLU	A	41	8.977	-5.867	-8.586	1.00	95.69	C
ATOM	342	O	GLU	A	41	8.945	-7.074	-11.688	1.00	95.69	O
ATOM	343	CG	GLU	A	41	9.359	-4.570	-7.891	1.00	95.69	C
ATOM	344	CD	GLU	A	41	10.328	-4.770	-6.738	1.00	95.69	C
ATOM	345	OE1	GLU	A	41	11.273	-3.963	-6.602	1.00	95.69	O
ATOM	346	OE2	GLU	A	41	10.141	-5.738	-5.973	1.00	95.69	O
ATOM	347	N	GLU	A	42	7.352	-7.891	-10.391	1.00	95.06	N
ATOM	348	CA	GLU	A	42	7.422	-9.211	-11.000	1.00	95.06	C
ATOM	349	C	GLU	A	42	6.574	-9.281	-12.266	1.00	95.06	C
ATOM	350	CB	GLU	A	42	6.965	-10.289	-10.008	1.00	95.06	C
ATOM	351	O	GLU	A	42	7.008	-9.828	-13.281	1.00	95.06	O
ATOM	352	CG	GLU	A	42	7.906	-10.469	-8.828	1.00	95.06	C

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ATOM	353	CD	GLU	A	42	7.480	-11.594	-7.891	1.00	95.06	C
ATOM	354	OE1	GLU	A	42	8.188	-11.844	-6.883	1.00	95.06	O
ATOM	355	OE2	GLU	A	42	6.438	-12.227	-8.164	1.00	95.06	O
ATOM	356	N	GLU	A	43	5.438	-8.648	-12.188	1.00	93.31	N
ATOM	357	CA	GLU	A	43	4.508	-8.820	-13.305	1.00	93.31	C
ATOM	358	C	GLU	A	43	4.742	-7.766	-14.383	1.00	93.31	C
ATOM	359	CB	GLU	A	43	3.059	-8.750	-12.812	1.00	93.31	C
ATOM	360	O	GLU	A	43	4.645	-8.062	-15.578	1.00	93.31	O
ATOM	361	CG	GLU	A	43	2.678	-9.875	-11.867	1.00	93.31	C
ATOM	362	CD	GLU	A	43	1.182	-9.969	-11.609	1.00	93.31	C
ATOM	363	OE1	GLU	A	43	0.773	-10.617	-10.617	1.00	93.31	O
ATOM	364	OE2	GLU	A	43	0.412	-9.375	-12.398	1.00	93.31	O
ATOM	365	N	LYS	A	44	5.176	-6.598	-13.914	1.00	91.44	N
ATOM	366	CA	LYS	A	44	5.258	-5.496	-14.867	1.00	91.44	C
ATOM	367	C	LYS	A	44	6.711	-5.176	-15.211	1.00	91.44	C
ATOM	368	CB	LYS	A	44	4.562	-4.250	-14.320	1.00	91.44	C
ATOM	369	O	LYS	A	44	6.980	-4.406	-16.141	1.00	91.44	O
ATOM	370	CG	LYS	A	44	3.061	-4.406	-14.141	1.00	91.44	C
ATOM	371	CD	LYS	A	44	2.408	-3.096	-13.727	1.00	91.44	C
ATOM	372	CE	LYS	A	44	0.901	-3.246	-13.562	1.00	91.44	C
ATOM	373	NZ	LYS	A	44	0.239	-1.936	-13.289	1.00	91.44	N
ATOM	374	N	GLY	A	45	7.598	-5.840	-14.516	1.00	95.31	N
ATOM	375	CA	GLY	A	45	9.016	-5.734	-14.820	1.00	95.31	C
ATOM	376	C	GLY	A	45	9.609	-4.398	-14.414	1.00	95.31	C
ATOM	377	O	GLY	A	45	10.445	-3.840	-15.133	1.00	95.31	O
ATOM	378	N	TYR	A	46	9.195	-3.793	-13.344	1.00	97.31	N
ATOM	379	CA	TYR	A	46	9.719	-2.541	-12.805	1.00	97.31	C
ATOM	380	C	TYR	A	46	10.484	-2.777	-11.508	1.00	97.31	C
ATOM	381	CB	TYR	A	46	8.578	-1.543	-12.562	1.00	97.31	C
ATOM	382	O	TYR	A	46	10.289	-3.799	-10.844	1.00	97.31	O
ATOM	383	CG	TYR	A	46	7.957	-1.020	-13.836	1.00	97.31	C
ATOM	384	CD1	TYR	A	46	8.312	0.226	-14.344	1.00	97.31	C
ATOM	385	CD2	TYR	A	46	7.008	-1.768	-14.523	1.00	97.31	C
ATOM	386	CE1	TYR	A	46	7.738	0.714	-15.516	1.00	97.31	C
ATOM	387	CE2	TYR	A	46	6.426	-1.290	-15.695	1.00	97.31	C
ATOM	388	OH	TYR	A	46	6.227	0.428	-17.344	1.00	97.31	O
ATOM	389	CZ	TYR	A	46	6.797	-0.050	-16.188	1.00	97.31	C
ATOM	390	N	GLU	A	47	11.305	-1.805	-11.203	1.00	97.06	N
ATOM	391	CA	GLU	A	47	12.055	-1.800	-9.953	1.00	97.06	C
ATOM	392	C	GLU	A	47	11.711	-0.579	-9.102	1.00	97.06	C
ATOM	393	CB	GLU	A	47	13.562	-1.839	-10.227	1.00	97.06	C
ATOM	394	O	GLU	A	47	11.703	0.548	-9.602	1.00	97.06	O
ATOM	395	CG	GLU	A	47	14.414	-1.963	-8.969	1.00	97.06	C
ATOM	396	CD	GLU	A	47	15.906	-2.045	-9.266	1.00	97.06	C
ATOM	397	OE1	GLU	A	47	16.688	-1.327	-8.602	1.00	97.06	O
ATOM	398	OE2	GLU	A	47	16.281	-2.832	-10.156	1.00	97.06	O
ATOM	399	N	LEU	A	48	11.508	-0.862	-7.855	1.00	97.69	N
ATOM	400	CA	LEU	A	48	11.125	0.221	-6.957	1.00	97.69	C
ATOM	401	C	LEU	A	48	12.297	1.175	-6.730	1.00	97.69	C
ATOM	402	CB	LEU	A	48	10.648	-0.341	-5.613	1.00	97.69	C
ATOM	403	O	LEU	A	48	13.391	0.747	-6.348	1.00	97.69	O
ATOM	404	CG	LEU	A	48	10.164	0.682	-4.586	1.00	97.69	C
ATOM	405	CD1	LEU	A	48	8.891	1.363	-5.074	1.00	97.69	C

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ATOM	406	CD2 LEU A 48	9.930	0.014	-3.234	1.00	97.69	C
ATOM	407	N LYS A 49	12.047	2.422	-6.824	1.00	97.19	N
ATOM	408	CA LYS A 49	13.109	3.412	-6.652	1.00	97.19	C
ATOM	409	C LYS A 49	12.828	4.312	-5.453	1.00	97.19	C
ATOM	410	CB LYS A 49	13.258	4.258	-7.918	1.00	97.19	C
ATOM	411	O LYS A 49	13.750	4.672	-4.715	1.00	97.19	O
ATOM	412	CG LYS A 49	13.820	3.494	-9.109	1.00	97.19	C
ATOM	413	CD LYS A 49	15.227	2.979	-8.828	1.00	97.19	C
ATOM	414	CE LYS A 49	15.805	2.250	-10.031	1.00	97.19	C
ATOM	415	NZ LYS A 49	17.172	1.707	-9.750	1.00	97.19	N
ATOM	416	N LYS A 50	11.594	4.613	-5.383	1.00	96.94	N
ATOM	417	CA LYS A 50	11.234	5.531	-4.305	1.00	96.94	C
ATOM	418	C LYS A 50	9.883	5.168	-3.697	1.00	96.94	C
ATOM	419	CB LYS A 50	11.203	6.973	-4.816	1.00	96.94	C
ATOM	420	O LYS A 50	8.969	4.754	-4.410	1.00	96.94	O
ATOM	421	CG LYS A 50	11.047	8.016	-3.723	1.00	96.94	C
ATOM	422	CD LYS A 50	11.117	9.430	-4.281	1.00	96.94	C
ATOM	423	CE LYS A 50	10.961	10.477	-3.186	1.00	96.94	C
ATOM	424	NZ LYS A 50	11.039	11.867	-3.729	1.00	96.94	N
ATOM	425	N LYS A 51	9.844	5.262	-2.363	1.00	97.19	N
ATOM	426	CA LYS A 51	8.625	5.027	-1.588	1.00	97.19	C
ATOM	427	C LYS A 51	8.359	6.176	-0.618	1.00	97.19	C
ATOM	428	CB LYS A 51	8.727	3.707	-0.824	1.00	97.19	C
ATOM	429	O LYS A 51	9.211	6.496	0.215	1.00	97.19	O
ATOM	430	CG LYS A 51	7.492	3.379	0.007	1.00	97.19	C
ATOM	431	CD LYS A 51	7.668	2.078	0.780	1.00	97.19	C
ATOM	432	CE LYS A 51	6.465	1.786	1.667	1.00	97.19	C
ATOM	433	NZ LYS A 51	6.652	0.533	2.457	1.00	97.19	N
ATOM	434	N GLU A 52	7.172	6.785	-0.721	1.00	97.62	N
ATOM	435	CA GLU A 52	6.734	7.852	0.175	1.00	97.62	C
ATOM	436	C GLU A 52	5.414	7.496	0.850	1.00	97.62	C
ATOM	437	CB GLU A 52	6.602	9.172	-0.586	1.00	97.62	C
ATOM	438	O GLU A 52	4.453	7.105	0.182	1.00	97.62	O
ATOM	439	CG GLU A 52	7.910	9.688	-1.162	1.00	97.62	C
ATOM	440	CD GLU A 52	7.766	11.000	-1.908	1.00	97.62	C
ATOM	441	OE1 GLU A 52	7.977	12.070	-1.297	1.00	97.62	O
ATOM	442	OE2 GLU A 52	7.434	10.961	-3.115	1.00	97.62	O
ATOM	443	N ILE A 53	5.410	7.738	2.152	1.00	96.44	N
ATOM	444	CA ILE A 53	4.223	7.352	2.908	1.00	96.44	C
ATOM	445	C ILE A 53	3.771	8.516	3.787	1.00	96.44	C
ATOM	446	CB ILE A 53	4.488	6.102	3.775	1.00	96.44	C
ATOM	447	O ILE A 53	4.586	9.141	4.477	1.00	96.44	O
ATOM	448	CG1 ILE A 53	4.906	4.918	2.893	1.00	96.44	C
ATOM	449	CG2 ILE A 53	3.250	5.750	4.605	1.00	96.44	C
ATOM	450	CD1 ILE A 53	5.391	3.705	3.672	1.00	96.44	C
ATOM	451	N LYS A 54	2.447	8.766	3.734	1.00	96.88	N
ATOM	452	CA LYS A 54	1.794	9.727	4.617	1.00	96.88	C
ATOM	453	C LYS A 54	0.636	9.078	5.371	1.00	96.88	C
ATOM	454	CB LYS A 54	1.291	10.930	3.820	1.00	96.88	C
ATOM	455	O LYS A 54	-0.225	8.438	4.766	1.00	96.88	O
ATOM	456	CG LYS A 54	2.396	11.867	3.350	1.00	96.88	C
ATOM	457	CD LYS A 54	1.828	13.102	2.658	1.00	96.88	C
ATOM	458	CE LYS A 54	2.932	13.984	2.094	1.00	96.88	C

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ATOM	459	NZ	LYS	A	54	2.379	15.172	1.380	1.00	96.88	N
ATOM	460	N	GLU	A	55	0.679	9.273	6.703	1.00	95.62	N
ATOM	461	CA	GLU	A	55	-0.320	8.617	7.539	1.00	95.62	C
ATOM	462	C	GLU	A	55	-1.223	9.633	8.227	1.00	95.62	C
ATOM	463	CB	GLU	A	55	0.356	7.723	8.586	1.00	95.62	C
ATOM	464	O	GLU	A	55	-0.765	10.711	8.617	1.00	95.62	O
ATOM	465	CG	GLU	A	55	1.153	6.574	7.992	1.00	95.62	C
ATOM	466	CD	GLU	A	55	1.899	5.758	9.031	1.00	95.62	C
ATOM	467	OE1	GLU	A	55	1.478	4.613	9.328	1.00	95.62	O
ATOM	468	OE2	GLU	A	55	2.914	6.262	9.562	1.00	95.62	O
ATOM	469	N	GLU	A	56	-2.471	9.242	8.305	1.00	96.06	N
ATOM	470	CA	GLU	A	56	-3.465	10.031	9.023	1.00	96.06	C
ATOM	471	C	GLU	A	56	-4.363	9.141	9.875	1.00	96.06	C
ATOM	472	CB	GLU	A	56	-4.312	10.852	8.047	1.00	96.06	C
ATOM	473	O	GLU	A	56	-4.758	8.055	9.445	1.00	96.06	O
ATOM	474	CG	GLU	A	56	-5.227	11.859	8.727	1.00	96.06	C
ATOM	475	CD	GLU	A	56	-6.051	12.680	7.742	1.00	96.06	C
ATOM	476	OE1	GLU	A	56	-7.129	12.211	7.312	1.00	96.06	O
ATOM	477	OE2	GLU	A	56	-5.613	13.797	7.395	1.00	96.06	O
ATOM	478	N	LYS	A	57	-4.590	9.594	11.078	1.00	95.12	N
ATOM	479	CA	LYS	A	57	-5.480	8.906	12.016	1.00	95.12	C
ATOM	480	C	LYS	A	57	-6.562	9.852	12.531	1.00	95.12	C
ATOM	481	CB	LYS	A	57	-4.691	8.320	13.180	1.00	95.12	C
ATOM	482	O	LYS	A	57	-6.262	10.953	12.984	1.00	95.12	O
ATOM	483	CG	LYS	A	57	-5.531	7.512	14.156	1.00	95.12	C
ATOM	484	CD	LYS	A	57	-4.695	6.980	15.312	1.00	95.12	C
ATOM	485	CE	LYS	A	57	-5.547	6.223	16.328	1.00	95.12	C
ATOM	486	NZ	LYS	A	57	-4.738	5.742	17.484	1.00	95.12	N
ATOM	487	N	LYS	A	58	-7.789	9.352	12.367	1.00	94.69	N
ATOM	488	CA	LYS	A	58	-8.922	10.133	12.852	1.00	94.69	C
ATOM	489	C	LYS	A	58	-9.789	9.312	13.805	1.00	94.69	C
ATOM	490	CB	LYS	A	58	-9.766	10.633	11.680	1.00	94.69	C
ATOM	491	O	LYS	A	58	-10.266	8.234	13.445	1.00	94.69	O
ATOM	492	CG	LYS	A	58	-10.781	11.695	12.055	1.00	94.69	C
ATOM	493	CD	LYS	A	58	-11.516	12.234	10.836	1.00	94.69	C
ATOM	494	CE	LYS	A	58	-12.570	13.258	11.219	1.00	94.69	C
ATOM	495	NZ	LYS	A	58	-13.289	13.789	10.023	1.00	94.69	N
ATOM	496	N	GLU	A	59	-9.961	9.875	15.008	1.00	92.44	N
ATOM	497	CA	GLU	A	59	-10.789	9.211	16.016	1.00	92.44	C
ATOM	498	C	GLU	A	59	-12.203	9.797	16.031	1.00	92.44	C
ATOM	499	CB	GLU	A	59	-10.148	9.320	17.391	1.00	92.44	C
ATOM	500	O	GLU	A	59	-12.375	11.016	16.156	1.00	92.44	O
ATOM	501	CG	GLU	A	59	-10.773	8.406	18.438	1.00	92.44	C
ATOM	502	CD	GLU	A	59	-9.953	8.297	19.719	1.00	92.44	C
ATOM	503	OE1	GLU	A	59	-10.430	8.734	20.781	1.00	92.44	O
ATOM	504	OE2	GLU	A	59	-8.820	7.770	19.641	1.00	92.44	O
ATOM	505	N	GLU	A	60	-13.148	8.945	15.875	1.00	89.81	N
ATOM	506	CA	GLU	A	60	-14.562	9.305	15.969	1.00	89.81	C
ATOM	507	C	GLU	A	60	-15.258	8.539	17.094	1.00	89.81	C
ATOM	508	CB	GLU	A	60	-15.273	9.039	14.641	1.00	89.81	C
ATOM	509	O	GLU	A	60	-14.656	7.668	17.719	1.00	89.81	O
ATOM	510	CG	GLU	A	60	-14.711	9.836	13.477	1.00	89.81	C
ATOM	511	CD	GLU	A	60	-15.492	9.641	12.180	1.00	89.81	C

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ATOM	512	OE1 GLU A 60	-16.516	10.336	11.977	1.00	89.81	O
ATOM	513	OE2 GLU A 60	-15.070	8.781	11.375	1.00	89.81	O
ATOM	514	N GLU A 61	-16.484	9.070	17.578	1.00	85.56	N
ATOM	515	CA GLU A 61	-17.250	8.547	18.719	1.00	85.56	C
ATOM	516	C GLU A 61	-17.391	7.031	18.641	1.00	85.56	C
ATOM	517	CB GLU A 61	-18.625	9.203	18.781	1.00	85.56	C
ATOM	518	O GLU A 61	-17.188	6.332	19.625	1.00	85.56	O
ATOM	519	CG GLU A 61	-19.328	9.023	20.125	1.00	85.56	C
ATOM	520	CD GLU A 61	-20.625	9.812	20.234	1.00	85.56	C
ATOM	521	OE1 GLU A 61	-21.703	9.266	19.906	1.00	85.56	O
ATOM	522	OE2 GLU A 61	-20.562	10.992	20.656	1.00	85.56	O
ATOM	523	N ASN A 62	-17.281	6.340	17.484	1.00	90.69	N
ATOM	524	CA ASN A 62	-17.625	4.926	17.391	1.00	90.69	C
ATOM	525	C ASN A 62	-16.609	4.172	16.531	1.00	90.69	C
ATOM	526	CB ASN A 62	-19.031	4.742	16.812	1.00	90.69	C
ATOM	527	O ASN A 62	-16.688	2.949	16.391	1.00	90.69	O
ATOM	528	CG ASN A 62	-20.109	5.305	17.734	1.00	90.69	C
ATOM	529	ND2 ASN A 62	-21.078	5.984	17.141	1.00	90.69	N
ATOM	530	OD1 ASN A 62	-20.047	5.133	18.953	1.00	90.69	O
ATOM	531	N LYS A 63	-15.641	4.840	16.094	1.00	93.31	N
ATOM	532	CA LYS A 63	-14.648	4.191	15.250	1.00	93.31	C
ATOM	533	C LYS A 63	-13.352	5.000	15.195	1.00	93.31	C
ATOM	534	CB LYS A 63	-15.195	3.998	13.836	1.00	93.31	C
ATOM	535	O LYS A 63	-13.328	6.160	15.602	1.00	93.31	O
ATOM	536	CG LYS A 63	-15.492	5.297	13.102	1.00	93.31	C
ATOM	537	CD LYS A 63	-16.094	5.043	11.727	1.00	93.31	C
ATOM	538	CE LYS A 63	-16.391	6.344	10.992	1.00	93.31	C
ATOM	539	NZ LYS A 63	-17.031	6.098	9.664	1.00	93.31	N
ATOM	540	N ILE A 64	-12.344	4.293	14.852	1.00	94.38	N
ATOM	541	CA ILE A 64	-11.062	4.914	14.516	1.00	94.38	C
ATOM	542	C ILE A 64	-10.742	4.664	13.047	1.00	94.38	C
ATOM	543	CB ILE A 64	-9.922	4.383	15.414	1.00	94.38	C
ATOM	544	O ILE A 64	-10.789	3.521	12.578	1.00	94.38	O
ATOM	545	CG1 ILE A 64	-10.281	4.566	16.891	1.00	94.38	C
ATOM	546	CG2 ILE A 64	-8.602	5.082	15.078	1.00	94.38	C
ATOM	547	CD1 ILE A 64	-9.320	3.873	17.844	1.00	94.38	C
ATOM	548	N VAL A 65	-10.445	5.770	12.312	1.00	95.88	N
ATOM	549	CA VAL A 65	-10.133	5.660	10.891	1.00	95.88	C
ATOM	550	C VAL A 65	-8.633	5.871	10.672	1.00	95.88	C
ATOM	551	CB VAL A 65	-10.945	6.668	10.047	1.00	95.88	C
ATOM	552	O VAL A 65	-8.086	6.906	11.055	1.00	95.88	O
ATOM	553	CG1 VAL A 65	-10.633	6.508	8.562	1.00	95.88	C
ATOM	554	CG2 VAL A 65	-12.438	6.500	10.305	1.00	95.88	C
ATOM	555	N TYR A 66	-7.996	4.867	10.047	1.00	96.25	N
ATOM	556	CA TYR A 66	-6.590	4.941	9.664	1.00	96.25	C
ATOM	557	C TYR A 66	-6.449	5.086	8.156	1.00	96.25	C
ATOM	558	CB TYR A 66	-5.836	3.701	10.141	1.00	96.25	C
ATOM	559	O TYR A 66	-6.992	4.281	7.395	1.00	96.25	O
ATOM	560	CG TYR A 66	-5.910	3.482	11.633	1.00	96.25	C
ATOM	561	CD1 TYR A 66	-4.902	3.945	12.477	1.00	96.25	C
ATOM	562	CD2 TYR A 66	-6.988	2.812	12.203	1.00	96.25	C
ATOM	563	CE1 TYR A 66	-4.969	3.744	13.852	1.00	96.25	C
ATOM	564	CE2 TYR A 66	-7.066	2.605	13.578	1.00	96.25	C

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ATOM	565	OH TYR A 66	-6.121	2.873	15.750	1.00	96.25	O
ATOM	566	CZ TYR A 66	-6.055	3.074	14.391	1.00	96.25	C
ATOM	567	N THR A 67	-5.746	6.191	7.828	1.00	97.12	N
ATOM	568	CA THR A 67	-5.504	6.387	6.402	1.00	97.12	C
ATOM	569	C THR A 67	-4.008	6.465	6.113	1.00	97.12	C
ATOM	570	CB THR A 67	-6.199	7.664	5.891	1.00	97.12	C
ATOM	571	O THR A 67	-3.277	7.191	6.785	1.00	97.12	O
ATOM	572	CG2 THR A 67	-6.016	7.824	4.387	1.00	97.12	C
ATOM	573	OG1 THR A 67	-7.598	7.594	6.188	1.00	97.12	O
ATOM	574	N LYS A 68	-3.602	5.660	5.094	1.00	97.12	N
ATOM	575	CA LYS A 68	-2.229	5.727	4.605	1.00	97.12	C
ATOM	576	C LYS A 68	-2.191	6.004	3.104	1.00	97.12	C
ATOM	577	CB LYS A 68	-1.487	4.422	4.914	1.00	97.12	C
ATOM	578	O LYS A 68	-2.773	5.258	2.314	1.00	97.12	O
ATOM	579	CG LYS A 68	-0.909	4.359	6.320	1.00	97.12	C
ATOM	580	CD LYS A 68	-0.011	3.143	6.500	1.00	97.12	C
ATOM	581	CE LYS A 68	0.538	3.057	7.918	1.00	97.12	C
ATOM	582	NZ LYS A 68	1.716	2.143	8.000	1.00	97.12	N
ATOM	583	N LYS A 69	-1.531	7.113	2.861	1.00	97.88	N
ATOM	584	CA LYS A 69	-1.301	7.449	1.460	1.00	97.88	C
ATOM	585	C LYS A 69	0.128	7.113	1.041	1.00	97.88	C
ATOM	586	CB LYS A 69	-1.582	8.930	1.212	1.00	97.88	C
ATOM	587	O LYS A 69	1.088	7.617	1.627	1.00	97.88	O
ATOM	588	CG LYS A 69	-3.031	9.336	1.447	1.00	97.88	C
ATOM	589	CD LYS A 69	-3.256	10.812	1.149	1.00	97.88	C
ATOM	590	CE LYS A 69	-4.691	11.227	1.437	1.00	97.88	C
ATOM	591	NZ LYS A 69	-4.922	12.672	1.134	1.00	97.88	N
ATOM	592	N VAL A 70	0.229	6.234	0.040	1.00	97.62	N
ATOM	593	CA VAL A 70	1.532	5.727	-0.375	1.00	97.62	C
ATOM	594	C VAL A 70	1.772	6.059	-1.847	1.00	97.62	C
ATOM	595	CB VAL A 70	1.646	4.203	-0.147	1.00	97.62	C
ATOM	596	O VAL A 70	0.888	5.863	-2.686	1.00	97.62	O
ATOM	597	CG1 VAL A 70	3.059	3.713	-0.460	1.00	97.62	C
ATOM	598	CG2 VAL A 70	1.260	3.848	1.288	1.00	97.62	C
ATOM	599	N THR A 71	2.924	6.684	-2.072	1.00	98.00	N
ATOM	600	CA THR A 71	3.373	6.875	-3.447	1.00	98.00	C
ATOM	601	C THR A 71	4.590	6.008	-3.742	1.00	98.00	C
ATOM	602	CB THR A 71	3.711	8.352	-3.725	1.00	98.00	C
ATOM	603	O THR A 71	5.625	6.129	-3.078	1.00	98.00	O
ATOM	604	CG2 THR A 71	4.098	8.562	-5.184	1.00	98.00	C
ATOM	605	OG1 THR A 71	2.568	9.164	-3.424	1.00	98.00	O
ATOM	606	N LEU A 72	4.426	5.117	-4.746	1.00	97.94	N
ATOM	607	CA LEU A 72	5.512	4.238	-5.168	1.00	97.94	C
ATOM	608	C LEU A 72	5.984	4.590	-6.574	1.00	97.94	C
ATOM	609	CB LEU A 72	5.066	2.775	-5.117	1.00	97.94	C
ATOM	610	O LEU A 72	5.180	4.648	-7.504	1.00	97.94	O
ATOM	611	CG LEU A 72	4.516	2.279	-3.777	1.00	97.94	C
ATOM	612	CD1 LEU A 72	3.900	0.893	-3.938	1.00	97.94	C
ATOM	613	CD2 LEU A 72	5.613	2.264	-2.721	1.00	97.94	C
ATOM	614	N THR A 73	7.242	4.879	-6.668	1.00	97.75	N
ATOM	615	CA THR A 73	7.836	5.180	-7.965	1.00	97.75	C
ATOM	616	C THR A 73	8.750	4.047	-8.422	1.00	97.75	C
ATOM	617	CB THR A 73	8.633	6.496	-7.922	1.00	97.75	C

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ATOM	618	O	THR	A	73	9.625	3.605	-7.676	1.00	97.75	O
ATOM	619	CG2	THR	A	73	9.156	6.867	-9.305	1.00	97.75	C
ATOM	620	OG1	THR	A	73	7.781	7.551	-7.445	1.00	97.75	O
ATOM	621	N	PHE	A	74	8.453	3.637	-9.656	1.00	97.75	N
ATOM	622	CA	PHE	A	74	9.211	2.527	-10.227	1.00	97.75	C
ATOM	623	C	PHE	A	74	9.891	2.945	-11.516	1.00	97.75	C
ATOM	624	CB	PHE	A	74	8.289	1.327	-10.477	1.00	97.75	C
ATOM	625	O	PHE	A	74	9.414	3.836	-12.219	1.00	97.75	O
ATOM	626	CG	PHE	A	74	7.602	0.815	-9.242	1.00	97.75	C
ATOM	627	CD1	PHE	A	74	8.078	-0.311	-8.586	1.00	97.75	C
ATOM	628	CD2	PHE	A	74	6.480	1.462	-8.742	1.00	97.75	C
ATOM	629	CE1	PHE	A	74	7.438	-0.787	-7.438	1.00	97.75	C
ATOM	630	CE2	PHE	A	74	5.836	0.993	-7.602	1.00	97.75	C
ATOM	631	CZ	PHE	A	74	6.316	-0.133	-6.949	1.00	97.75	C
ATOM	632	N	LYS	A	75	11.039	2.287	-11.711	1.00	96.88	N
ATOM	633	CA	LYS	A	75	11.719	2.412	-13.000	1.00	96.88	C
ATOM	634	C	LYS	A	75	11.719	1.088	-13.758	1.00	96.88	C
ATOM	635	CB	LYS	A	75	13.156	2.895	-12.797	1.00	96.88	C
ATOM	636	O	LYS	A	75	11.984	0.033	-13.172	1.00	96.88	O
ATOM	637	CG	LYS	A	75	13.867	3.283	-14.086	1.00	96.88	C
ATOM	638	CD	LYS	A	75	15.234	3.904	-13.805	1.00	96.88	C
ATOM	639	CE	LYS	A	75	15.914	4.348	-15.094	1.00	96.88	C
ATOM	640	NZ	LYS	A	75	17.250	4.984	-14.828	1.00	96.88	N
ATOM	641	N	SER	A	76	11.398	1.239	-15.070	1.00	96.25	N
ATOM	642	CA	SER	A	76	11.344	0.027	-15.883	1.00	96.25	C
ATOM	643	C	SER	A	76	12.711	-0.650	-15.961	1.00	96.25	C
ATOM	644	CB	SER	A	76	10.852	0.346	-17.297	1.00	96.25	C
ATOM	645	O	SER	A	76	13.734	0.021	-16.094	1.00	96.25	O
ATOM	646	OG	SER	A	76	10.898	-0.806	-18.109	1.00	96.25	O
ATOM	647	N	LYS	A	77	12.656	-1.979	-15.844	1.00	94.69	N
ATOM	648	CA	LYS	A	77	13.891	-2.746	-15.992	1.00	94.69	C
ATOM	649	C	LYS	A	77	14.297	-2.867	-17.453	1.00	94.69	C
ATOM	650	CB	LYS	A	77	13.727	-4.137	-15.375	1.00	94.69	C
ATOM	651	O	LYS	A	77	15.477	-3.025	-17.766	1.00	94.69	O
ATOM	652	CG	LYS	A	77	13.617	-4.133	-13.859	1.00	94.69	C
ATOM	653	CD	LYS	A	77	13.531	-5.551	-13.297	1.00	94.69	C
ATOM	654	CE	LYS	A	77	13.391	-5.547	-11.781	1.00	94.69	C
ATOM	655	NZ	LYS	A	77	13.227	-6.926	-11.242	1.00	94.69	N
ATOM	656	N	LYS	A	78	13.414	-2.697	-18.391	1.00	92.44	N
ATOM	657	CA	LYS	A	78	13.633	-2.922	-19.828	1.00	92.44	C
ATOM	658	C	LYS	A	78	13.867	-1.604	-20.547	1.00	92.44	C
ATOM	659	CB	LYS	A	78	12.453	-3.662	-20.438	1.00	92.44	C
ATOM	660	O	LYS	A	78	14.680	-1.539	-21.484	1.00	92.44	O
ATOM	661	CG	LYS	A	78	12.289	-5.094	-19.953	1.00	92.44	C
ATOM	662	CD	LYS	A	78	11.148	-5.805	-20.672	1.00	92.44	C
ATOM	663	CE	LYS	A	78	10.969	-7.230	-20.156	1.00	92.44	C
ATOM	664	NZ	LYS	A	78	9.852	-7.930	-20.859	1.00	92.44	N
ATOM	665	N	ASP	A	79	13.227	-0.541	-20.047	1.00	92.81	N
ATOM	666	CA	ASP	A	79	13.344	0.783	-20.656	1.00	92.81	C
ATOM	667	C	ASP	A	79	13.609	1.849	-19.594	1.00	92.81	C
ATOM	668	CB	ASP	A	79	12.070	1.127	-21.438	1.00	92.81	C
ATOM	669	O	ASP	A	79	12.711	2.203	-18.828	1.00	92.81	O
ATOM	670	CG	ASP	A	79	12.219	2.385	-22.281	1.00	92.81	C

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ATOM	671	OD1 ASP A 79	13.133	3.195	-22.016	1.00	92.81	O
ATOM	672	OD2 ASP A 79	11.414	2.568	-23.219	1.00	92.81	O
ATOM	673	N PRO A 80	14.844	2.430	-19.641	1.00	88.62	N
ATOM	674	CA PRO A 80	15.250	3.387	-18.609	1.00	88.62	C
ATOM	675	C PRO A 80	14.461	4.695	-18.688	1.00	88.62	C
ATOM	676	CB PRO A 80	16.734	3.623	-18.906	1.00	88.62	C
ATOM	677	O PRO A 80	14.445	5.461	-17.719	1.00	88.62	O
ATOM	678	CG PRO A 80	16.906	3.221	-20.344	1.00	88.62	C
ATOM	679	CD PRO A 80	15.867	2.178	-20.672	1.00	88.62	C
ATOM	680	N ASN A 81	13.734	4.852	-19.750	1.00	92.56	N
ATOM	681	CA ASN A 81	13.000	6.105	-19.906	1.00	92.56	C
ATOM	682	C ASN A 81	11.547	5.957	-19.469	1.00	92.56	C
ATOM	683	CB ASN A 81	13.086	6.598	-21.344	1.00	92.56	C
ATOM	684	O ASN A 81	10.758	6.898	-19.594	1.00	92.56	O
ATOM	685	CG ASN A 81	14.492	7.004	-21.750	1.00	92.56	C
ATOM	686	ND2 ASN A 81	14.867	6.691	-22.984	1.00	92.56	N
ATOM	687	OD1 ASN A 81	15.227	7.590	-20.953	1.00	92.56	O
ATOM	688	N LEU A 82	11.219	4.863	-18.953	1.00	95.31	N
ATOM	689	CA LEU A 82	9.859	4.574	-18.516	1.00	95.31	C
ATOM	690	C LEU A 82	9.766	4.551	-17.000	1.00	95.31	C
ATOM	691	CB LEU A 82	9.383	3.236	-19.094	1.00	95.31	C
ATOM	692	O LEU A 82	10.492	3.801	-16.344	1.00	95.31	O
ATOM	693	CG LEU A 82	7.910	2.885	-18.859	1.00	95.31	C
ATOM	694	CD1 LEU A 82	7.012	3.893	-19.578	1.00	95.31	C
ATOM	695	CD2 LEU A 82	7.621	1.469	-19.359	1.00	95.31	C
ATOM	696	N ILE A 83	8.898	5.418	-16.500	1.00	96.75	N
ATOM	697	CA ILE A 83	8.672	5.520	-15.055	1.00	96.75	C
ATOM	698	C ILE A 83	7.219	5.195	-14.742	1.00	96.75	C
ATOM	699	CB ILE A 83	9.039	6.926	-14.531	1.00	96.75	C
ATOM	700	O ILE A 83	6.305	5.688	-15.406	1.00	96.75	O
ATOM	701	CG1 ILE A 83	10.523	7.219	-14.773	1.00	96.75	C
ATOM	702	CG2 ILE A 83	8.695	7.047	-13.039	1.00	96.75	C
ATOM	703	CD1 ILE A 83	11.000	8.539	-14.188	1.00	96.75	C
ATOM	704	N TYR A 84	7.090	4.355	-13.695	1.00	97.12	N
ATOM	705	CA TYR A 84	5.766	3.988	-13.203	1.00	97.12	C
ATOM	706	C TYR A 84	5.539	4.527	-11.797	1.00	97.12	C
ATOM	707	CB TYR A 84	5.590	2.467	-13.211	1.00	97.12	C
ATOM	708	O TYR A 84	6.352	4.297	-10.898	1.00	97.12	O
ATOM	709	CG TYR A 84	4.199	2.014	-12.852	1.00	97.12	C
ATOM	710	CD1 TYR A 84	3.828	1.831	-11.523	1.00	97.12	C
ATOM	711	CD2 TYR A 84	3.250	1.765	-13.836	1.00	97.12	C
ATOM	712	CE1 TYR A 84	2.545	1.411	-11.180	1.00	97.12	C
ATOM	713	CE2 TYR A 84	1.964	1.345	-13.508	1.00	97.12	C
ATOM	714	OH TYR A 84	0.351	0.756	-11.852	1.00	97.12	O
ATOM	715	CZ TYR A 84	1.622	1.172	-12.180	1.00	97.12	C
ATOM	716	N VAL A 85	4.480	5.262	-11.719	1.00	97.94	N
ATOM	717	CA VAL A 85	4.148	5.816	-10.406	1.00	97.94	C
ATOM	718	C VAL A 85	2.799	5.277	-9.945	1.00	97.94	C
ATOM	719	CB VAL A 85	4.125	7.363	-10.438	1.00	97.94	C
ATOM	720	O VAL A 85	1.788	5.441	-10.633	1.00	97.94	O
ATOM	721	CG1 VAL A 85	3.801	7.922	-9.055	1.00	97.94	C
ATOM	722	CG2 VAL A 85	5.461	7.906	-10.938	1.00	97.94	C
ATOM	723	N LEU A 86	2.801	4.617	-8.734	1.00	98.12	N

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ATOM	724	CA	LEU A 86	1.569	4.145	-8.109	1.00	98.12	C
ATOM	725	C	LEU A 86	1.225	4.980	-6.887	1.00	98.12	C
ATOM	726	CB	LEU A 86	1.700	2.670	-7.719	1.00	98.12	C
ATOM	727	O	LEU A 86	2.014	5.062	-5.941	1.00	98.12	O
ATOM	728	CG	LEU A 86	0.515	2.061	-6.969	1.00	98.12	C
ATOM	729	CD1	LEU A 86	-0.714	2.012	-7.871	1.00	98.12	C
ATOM	730	CD2	LEU A 86	0.865	0.667	-6.457	1.00	98.12	C
ATOM	731	N	ASN A 87	0.063	5.629	-7.070	1.00	98.12	N
ATOM	732	CA	ASN A 87	-0.494	6.344	-5.926	1.00	98.12	C
ATOM	733	C	ASN A 87	-1.571	5.523	-5.223	1.00	98.12	C
ATOM	734	CB	ASN A 87	-1.059	7.699	-6.359	1.00	98.12	C
ATOM	735	O	ASN A 87	-2.688	5.395	-5.727	1.00	98.12	O
ATOM	736	CG	ASN A 87	0.008	8.625	-6.910	1.00	98.12	C
ATOM	737	ND2	ASN A 87	-0.122	8.992	-8.180	1.00	98.12	N
ATOM	738	OD1	ASN A 87	0.940	9.008	-6.199	1.00	98.12	O
ATOM	739	N	LEU A 88	-1.237	5.016	-3.977	1.00	97.88	N
ATOM	740	CA	LEU A 88	-2.096	4.090	-3.242	1.00	97.88	C
ATOM	741	C	LEU A 88	-2.617	4.734	-1.963	1.00	97.88	C
ATOM	742	CB	LEU A 88	-1.334	2.805	-2.908	1.00	97.88	C
ATOM	743	O	LEU A 88	-1.842	5.273	-1.172	1.00	97.88	O
ATOM	744	CG	LEU A 88	-2.107	1.743	-2.123	1.00	97.88	C
ATOM	745	CD1	LEU A 88	-3.262	1.202	-2.961	1.00	97.88	C
ATOM	746	CD2	LEU A 88	-1.179	0.614	-1.691	1.00	97.88	C
ATOM	747	N	THR A 89	-3.936	4.762	-1.881	1.00	98.00	N
ATOM	748	CA	THR A 89	-4.578	5.207	-0.650	1.00	98.00	C
ATOM	749	C	THR A 89	-5.254	4.039	0.064	1.00	98.00	C
ATOM	750	CB	THR A 89	-5.613	6.312	-0.929	1.00	98.00	C
ATOM	751	O	THR A 89	-6.125	3.381	-0.504	1.00	98.00	O
ATOM	752	CG2	THR A 89	-6.250	6.809	0.365	1.00	98.00	C
ATOM	753	OG1	THR A 89	-4.969	7.410	-1.585	1.00	98.00	O
ATOM	754	N	ILE A 90	-4.812	3.736	1.306	1.00	97.88	N
ATOM	755	CA	ILE A 90	-5.391	2.656	2.100	1.00	97.88	C
ATOM	756	C	ILE A 90	-6.102	3.238	3.322	1.00	97.88	C
ATOM	757	CB	ILE A 90	-4.316	1.640	2.539	1.00	97.88	C
ATOM	758	O	ILE A 90	-5.488	3.943	4.125	1.00	97.88	O
ATOM	759	CG1	ILE A 90	-3.508	1.160	1.328	1.00	97.88	C
ATOM	760	CG2	ILE A 90	-4.957	0.458	3.273	1.00	97.88	C
ATOM	761	CD1	ILE A 90	-2.209	0.453	1.690	1.00	97.88	C
ATOM	762	N	THR A 91	-7.414	2.947	3.363	1.00	97.19	N
ATOM	763	CA	THR A 91	-8.211	3.412	4.496	1.00	97.19	C
ATOM	764	C	THR A 91	-8.758	2.232	5.293	1.00	97.19	C
ATOM	765	CB	THR A 91	-9.375	4.305	4.031	1.00	97.19	C
ATOM	766	O	THR A 91	-9.383	1.331	4.730	1.00	97.19	O
ATOM	767	CG2	THR A 91	-10.156	4.848	5.219	1.00	97.19	C
ATOM	768	OG1	THR A 91	-8.852	5.406	3.273	1.00	97.19	O
ATOM	769	N	VAL A 92	-8.422	2.275	6.609	1.00	97.06	N
ATOM	770	CA	VAL A 92	-8.961	1.247	7.488	1.00	97.06	C
ATOM	771	C	VAL A 92	-9.922	1.883	8.500	1.00	97.06	C
ATOM	772	CB	VAL A 92	-7.844	0.481	8.227	1.00	97.06	C
ATOM	773	O	VAL A 92	-9.531	2.783	9.250	1.00	97.06	O
ATOM	774	CG1	VAL A 92	-8.438	-0.516	9.219	1.00	97.06	C
ATOM	775	CG2	VAL A 92	-6.938	-0.232	7.227	1.00	97.06	C
ATOM	776	N	ILE A 93	-11.188	1.423	8.430	1.00	96.25	N

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ATOM	777	CA	ILE A 93	-12.195	1.858	9.391	1.00	96.25	C
ATOM	778	C	ILE A 93	-12.320	0.822	10.508	1.00	96.25	C
ATOM	779	CB	ILE A 93	-13.562	2.092	8.711	1.00	96.25	C
ATOM	780	O	ILE A 93	-12.789	-0.297	10.273	1.00	96.25	O
ATOM	781	CG1	ILE A 93	-13.422	3.100	7.566	1.00	96.25	C
ATOM	782	CG2	ILE A 93	-14.602	2.566	9.734	1.00	96.25	C
ATOM	783	CD1	ILE A 93	-14.648	3.184	6.668	1.00	96.25	C
ATOM	784	N	ASN A 94	-11.891	1.251	11.742	1.00	94.94	N
ATOM	785	CA	ASN A 94	-11.922	0.369	12.906	1.00	94.94	C
ATOM	786	C	ASN A 94	-13.062	0.732	13.852	1.00	94.94	C
ATOM	787	CB	ASN A 94	-10.586	0.407	13.648	1.00	94.94	C
ATOM	788	O	ASN A 94	-12.953	1.687	14.625	1.00	94.94	O
ATOM	789	CG	ASN A 94	-10.469	-0.677	14.695	1.00	94.94	C
ATOM	790	ND2	ASN A 94	-9.609	-0.453	15.688	1.00	94.94	N
ATOM	791	OD1	ASN A 94	-11.141	-1.707	14.625	1.00	94.94	O
ATOM	792	N	LYS A 95	-14.094	-0.086	13.820	1.00	92.56	N
ATOM	793	CA	LYS A 95	-15.266	0.180	14.648	1.00	92.56	C
ATOM	794	C	LYS A 95	-15.031	-0.240	16.094	1.00	92.56	C
ATOM	795	CB	LYS A 95	-16.500	-0.544	14.086	1.00	92.56	C
ATOM	796	O	LYS A 95	-14.453	-1.296	16.359	1.00	92.56	O
ATOM	797	CG	LYS A 95	-16.969	-0.011	12.734	1.00	92.56	C
ATOM	798	CD	LYS A 95	-18.250	-0.694	12.281	1.00	92.56	C
ATOM	799	CE	LYS A 95	-18.703	-0.175	10.930	1.00	92.56	C
ATOM	800	NZ	LYS A 95	-19.922	-0.892	10.445	1.00	92.56	N
ATOM	801	N	LYS A 96	-15.320	0.833	17.125	1.00	82.31	N
ATOM	802	CA	LYS A 96	-15.195	0.602	18.562	1.00	82.31	C
ATOM	803	C	LYS A 96	-16.484	0.006	19.141	1.00	82.31	C
ATOM	804	CB	LYS A 96	-14.852	1.903	19.281	1.00	82.31	C
ATOM	805	O	LYS A 96	-17.578	0.273	18.641	1.00	82.31	O
ATOM	806	CG	LYS A 96	-13.453	2.424	19.000	1.00	82.31	C
ATOM	807	CD	LYS A 96	-13.125	3.646	19.844	1.00	82.31	C
ATOM	808	CE	LYS A 96	-11.727	4.184	19.531	1.00	82.31	C
ATOM	809	NZ	LYS A 96	-11.414	5.402	20.328	1.00	82.31	N
ATOM	810	N	LYS A 97	-16.500	-1.201	19.609	1.00	64.00	N
ATOM	811	CA	LYS A 97	-17.672	-1.646	20.359	1.00	64.00	C
ATOM	812	C	LYS A 97	-18.094	-0.608	21.391	1.00	64.00	C
ATOM	813	CB	LYS A 97	-17.406	-2.988	21.031	1.00	64.00	C
ATOM	814	O	LYS A 97	-17.234	0.030	22.016	1.00	64.00	O
ATOM	815	CG	LYS A 97	-18.000	-4.184	20.297	1.00	64.00	C
ATOM	816	CD	LYS A 97	-17.766	-5.480	21.062	1.00	64.00	C
ATOM	817	CE	LYS A 97	-18.281	-6.688	20.297	1.00	64.00	C
ATOM	818	NZ	LYS A 97	-18.125	-7.953	21.062	1.00	64.00	N
TER									
ENDMDL									
MODEL 1									
ATOM	1	N	MET A 1	-23.734	-10.445	21.016	1.00	64.25	N
ATOM	2	CA	MET A 1	-22.641	-10.352	20.062	1.00	64.25	C
ATOM	3	C	MET A 1	-22.578	-8.969	19.422	1.00	64.25	C
ATOM	4	CB	MET A 1	-22.781	-11.422	18.969	1.00	64.25	C
ATOM	5	O	MET A 1	-23.609	-8.422	19.016	1.00	64.25	O
ATOM	6	CG	MET A 1	-22.359	-12.812	19.406	1.00	64.25	C
ATOM	7	SD	MET A 1	-22.453	-14.039	18.047	1.00	64.25	S
ATOM	8	CE	MET A 1	-21.516	-15.406	18.781	1.00	64.25	C

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ATOM	9	N	LYS	A	2	-21.703	-8.102	19.969	1.00	68.56	N
ATOM	10	CA	LYS	A	2	-21.562	-6.727	19.500	1.00	68.56	C
ATOM	11	C	LYS	A	2	-21.234	-6.688	18.016	1.00	68.56	C
ATOM	12	CB	LYS	A	2	-20.484	-5.988	20.297	1.00	68.56	C
ATOM	13	O	LYS	A	2	-20.500	-7.543	17.516	1.00	68.56	O
ATOM	14	CG	LYS	A	2	-20.953	-5.512	21.672	1.00	68.56	C
ATOM	15	CD	LYS	A	2	-19.891	-4.656	22.344	1.00	68.56	C
ATOM	16	CE	LYS	A	2	-20.312	-4.258	23.750	1.00	68.56	C
ATOM	17	NZ	LYS	A	2	-19.297	-3.385	24.422	1.00	68.56	N
ATOM	18	N	LYS	A	3	-21.938	-6.074	17.062	1.00	85.50	N
ATOM	19	CA	LYS	A	3	-21.859	-5.863	15.617	1.00	85.50	C
ATOM	20	C	LYS	A	3	-20.562	-5.164	15.227	1.00	85.50	C
ATOM	21	CB	LYS	A	3	-23.062	-5.047	15.133	1.00	85.50	C
ATOM	22	O	LYS	A	3	-20.141	-4.219	15.898	1.00	85.50	O
ATOM	23	CG	LYS	A	3	-23.250	-5.062	13.617	1.00	85.50	C
ATOM	24	CD	LYS	A	3	-24.531	-4.340	13.211	1.00	85.50	C
ATOM	25	CE	LYS	A	3	-24.688	-4.312	11.695	1.00	85.50	C
ATOM	26	NZ	LYS	A	3	-25.938	-3.604	11.281	1.00	85.50	N
ATOM	27	N	ILE	A	4	-19.703	-5.824	14.516	1.00	90.56	N
ATOM	28	CA	ILE	A	4	-18.453	-5.301	13.969	1.00	90.56	C
ATOM	29	C	ILE	A	4	-18.750	-4.285	12.867	1.00	90.56	C
ATOM	30	CB	ILE	A	4	-17.547	-6.434	13.422	1.00	90.56	C
ATOM	31	O	ILE	A	4	-19.516	-4.570	11.953	1.00	90.56	O
ATOM	32	CG1	ILE	A	4	-17.141	-7.379	14.562	1.00	90.56	C
ATOM	33	CG2	ILE	A	4	-16.328	-5.855	12.719	1.00	90.56	C
ATOM	34	CD1	ILE	A	4	-16.328	-8.586	14.094	1.00	90.56	C
ATOM	35	N	GLU	A	5	-18.219	-3.115	13.016	1.00	94.50	N
ATOM	36	CA	GLU	A	5	-18.297	-2.070	12.000	1.00	94.50	C
ATOM	37	C	GLU	A	5	-17.047	-2.057	11.117	1.00	94.50	C
ATOM	38	CB	GLU	A	5	-18.500	-0.700	12.648	1.00	94.50	C
ATOM	39	O	GLU	A	5	-15.930	-1.971	11.617	1.00	94.50	O
ATOM	40	CG	GLU	A	5	-18.734	0.426	11.656	1.00	94.50	C
ATOM	41	CD	GLU	A	5	-18.891	1.786	12.320	1.00	94.50	C
ATOM	42	OE1	GLU	A	5	-17.953	2.615	12.227	1.00	94.50	O
ATOM	43	OE2	GLU	A	5	-19.953	2.023	12.930	1.00	94.50	O
ATOM	44	N	VAL	A	6	-17.281	-2.188	9.812	1.00	95.31	N
ATOM	45	CA	VAL	A	6	-16.156	-2.223	8.883	1.00	95.31	C
ATOM	46	C	VAL	A	6	-16.219	-1.014	7.949	1.00	95.31	C
ATOM	47	CB	VAL	A	6	-16.141	-3.529	8.055	1.00	95.31	C
ATOM	48	O	VAL	A	6	-17.250	-0.755	7.328	1.00	95.31	O
ATOM	49	CG1	VAL	A	6	-14.930	-3.562	7.121	1.00	95.31	C
ATOM	50	CG2	VAL	A	6	-16.141	-4.742	8.984	1.00	95.31	C
ATOM	51	N	ILE	A	7	-15.047	-0.283	7.875	1.00	95.25	N
ATOM	52	CA	ILE	A	7	-14.867	0.826	6.945	1.00	95.25	C
ATOM	53	C	ILE	A	7	-13.859	0.431	5.863	1.00	95.25	C
ATOM	54	CB	ILE	A	7	-14.391	2.104	7.676	1.00	95.25	C
ATOM	55	O	ILE	A	7	-12.727	0.056	6.172	1.00	95.25	O
ATOM	56	CG1	ILE	A	7	-15.359	2.453	8.812	1.00	95.25	C
ATOM	57	CG2	ILE	A	7	-14.258	3.270	6.691	1.00	95.25	C
ATOM	58	CD1	ILE	A	7	-14.758	3.365	9.875	1.00	95.25	C
ATOM	59	N	GLU	A	8	-14.328	0.647	4.652	1.00	96.31	N
ATOM	60	CA	GLU	A	8	-13.461	0.272	3.541	1.00	96.31	C
ATOM	61	C	GLU	A	8	-13.109	1.484	2.684	1.00	96.31	C

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ATOM	62	CB	GLU	A	8	-14.125	-0.806	2.680	1.00	96.31	C
ATOM	63	O	GLU	A	8	-13.977	2.301	2.367	1.00	96.31	O
ATOM	64	CG	GLU	A	8	-14.273	-2.148	3.381	1.00	96.31	C
ATOM	65	CD	GLU	A	8	-14.828	-3.238	2.480	1.00	96.31	C
ATOM	66	OE1	GLU	A	8	-14.336	-4.387	2.539	1.00	96.31	O
ATOM	67	OE2	GLU	A	8	-15.773	-2.938	1.711	1.00	96.31	O
ATOM	68	N	GLU	A	9	-11.789	1.483	2.373	1.00	96.12	N
ATOM	69	CA	GLU	A	9	-11.266	2.527	1.498	1.00	96.12	C
ATOM	70	C	GLU	A	9	-10.406	1.935	0.385	1.00	96.12	C
ATOM	71	CB	GLU	A	9	-10.453	3.545	2.305	1.00	96.12	C
ATOM	72	O	GLU	A	9	-9.555	1.074	0.638	1.00	96.12	O
ATOM	73	CG	GLU	A	9	-9.953	4.723	1.480	1.00	96.12	C
ATOM	74	CD	GLU	A	9	-9.188	5.750	2.305	1.00	96.12	C
ATOM	75	OE1	GLU	A	9	-7.957	5.617	2.457	1.00	96.12	O
ATOM	76	OE2	GLU	A	9	-9.836	6.699	2.801	1.00	96.12	O
ATOM	77	N	GLU	A	10	-10.695	2.422	-0.812	1.00	97.31	N
ATOM	78	CA	GLU	A	10	-9.938	1.962	-1.972	1.00	97.31	C
ATOM	79	C	GLU	A	10	-9.141	3.102	-2.598	1.00	97.31	C
ATOM	80	CB	GLU	A	10	-10.875	1.339	-3.012	1.00	97.31	C
ATOM	81	O	GLU	A	10	-9.695	4.164	-2.893	1.00	97.31	O
ATOM	82	CG	GLU	A	10	-11.523	0.044	-2.555	1.00	97.31	C
ATOM	83	CD	GLU	A	10	-12.391	-0.604	-3.627	1.00	97.31	C
ATOM	84	OE1	GLU	A	10	-11.992	-1.663	-4.168	1.00	97.31	O
ATOM	85	OE2	GLU	A	10	-13.469	-0.049	-3.930	1.00	97.31	O
ATOM	86	N	ILE	A	11	-7.773	2.789	-2.771	1.00	96.44	N
ATOM	87	CA	ILE	A	11	-6.863	3.775	-3.346	1.00	96.44	C
ATOM	88	C	ILE	A	11	-6.156	3.180	-4.562	1.00	96.44	C
ATOM	89	CB	ILE	A	11	-5.828	4.258	-2.307	1.00	96.44	C
ATOM	90	O	ILE	A	11	-5.566	2.102	-4.477	1.00	96.44	O
ATOM	91	CG1	ILE	A	11	-6.531	4.770	-1.046	1.00	96.44	C
ATOM	92	CG2	ILE	A	11	-4.926	5.340	-2.906	1.00	96.44	C
ATOM	93	CD1	ILE	A	11	-5.605	4.957	0.149	1.00	96.44	C
ATOM	94	N	GLU	A	12	-6.258	3.928	-5.652	1.00	96.69	N
ATOM	95	CA	GLU	A	12	-5.555	3.521	-6.863	1.00	96.69	C
ATOM	96	C	GLU	A	12	-4.617	4.621	-7.355	1.00	96.69	C
ATOM	97	CB	GLU	A	12	-6.551	3.148	-7.965	1.00	96.69	C
ATOM	98	O	GLU	A	12	-5.016	5.785	-7.445	1.00	96.69	O
ATOM	99	CG	GLU	A	12	-7.391	1.921	-7.645	1.00	96.69	C
ATOM	100	CD	GLU	A	12	-8.344	1.535	-8.766	1.00	96.69	C
ATOM	101	OE1	GLU	A	12	-8.969	0.455	-8.680	1.00	96.69	O
ATOM	102	OE2	GLU	A	12	-8.461	2.320	-9.734	1.00	96.69	O
ATOM	103	N	GLU	A	13	-3.373	4.164	-7.645	1.00	96.38	N
ATOM	104	CA	GLU	A	13	-2.355	5.121	-8.070	1.00	96.38	C
ATOM	105	C	GLU	A	13	-1.539	4.578	-9.242	1.00	96.38	C
ATOM	106	CB	GLU	A	13	-1.430	5.477	-6.902	1.00	96.38	C
ATOM	107	O	GLU	A	13	-1.188	3.395	-9.258	1.00	96.38	O
ATOM	108	CG	GLU	A	13	-0.514	6.660	-7.184	1.00	96.38	C
ATOM	109	CD	GLU	A	13	0.297	7.090	-5.973	1.00	96.38	C
ATOM	110	OE1	GLU	A	13	1.339	6.461	-5.684	1.00	96.38	O
ATOM	111	OE2	GLU	A	13	-0.115	8.070	-5.305	1.00	96.38	O
ATOM	112	N	VAL	A	14	-1.290	5.488	-10.195	1.00	96.50	N
ATOM	113	CA	VAL	A	14	-0.469	5.129	-11.344	1.00	96.50	C
ATOM	114	C	VAL	A	14	0.711	6.094	-11.461	1.00	96.50	C

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ATOM	115	CB VAL A 14	-1.291	5.133	-12.656	1.00	96.50	C
ATOM	116	O VAL A 14	0.529	7.312	-11.445	1.00	96.50	O
ATOM	117	CG1 VAL A 14	-0.414	4.750	-13.844	1.00	96.50	C
ATOM	118	CG2 VAL A 14	-2.484	4.188	-12.539	1.00	96.50	C
ATOM	119	N ILE A 15	1.960	5.469	-11.625	1.00	95.88	N
ATOM	120	CA ILE A 15	3.184	6.254	-11.727	1.00	95.88	C
ATOM	121	C ILE A 15	3.959	5.836	-12.977	1.00	95.88	C
ATOM	122	CB ILE A 15	4.070	6.094	-10.469	1.00	95.88	C
ATOM	123	O ILE A 15	4.148	4.645	-13.227	1.00	95.88	O
ATOM	124	CG1 ILE A 15	3.297	6.520	-9.219	1.00	95.88	C
ATOM	125	CG2 ILE A 15	5.363	6.895	-10.617	1.00	95.88	C
ATOM	126	CD1 ILE A 15	4.008	6.199	-7.910	1.00	95.88	C
ATOM	127	N GLU A 16	4.352	6.891	-13.695	1.00	95.81	N
ATOM	128	CA GLU A 16	5.176	6.629	-14.867	1.00	95.81	C
ATOM	129	C GLU A 16	6.629	7.023	-14.617	1.00	95.81	C
ATOM	130	CB GLU A 16	4.629	7.379	-16.078	1.00	95.81	C
ATOM	131	O GLU A 16	6.906	8.133	-14.164	1.00	95.81	O
ATOM	132	CG GLU A 16	3.240	6.926	-16.516	1.00	95.81	C
ATOM	133	CD GLU A 16	2.738	7.633	-17.766	1.00	95.81	C
ATOM	134	OE1 GLU A 16	1.512	7.621	-18.016	1.00	95.81	O
ATOM	135	OE2 GLU A 16	3.578	8.195	-18.500	1.00	95.81	O
ATOM	136	N LEU A 17	7.562	6.102	-14.883	1.00	95.50	N
ATOM	137	CA LEU A 17	8.992	6.332	-14.711	1.00	95.50	C
ATOM	138	C LEU A 17	9.750	6.008	-15.992	1.00	95.50	C
ATOM	139	CB LEU A 17	9.539	5.492	-13.547	1.00	95.50	C
ATOM	140	O LEU A 17	9.242	5.301	-16.859	1.00	95.50	O
ATOM	141	CG LEU A 17	8.922	5.758	-12.172	1.00	95.50	C
ATOM	142	CD1 LEU A 17	9.469	4.770	-11.148	1.00	95.50	C
ATOM	143	CD2 LEU A 17	9.195	7.195	-11.734	1.00	95.50	C
ATOM	144	N GLU A 18	10.898	6.641	-16.078	1.00	93.94	N
ATOM	145	CA GLU A 18	11.781	6.344	-17.203	1.00	93.94	C
ATOM	146	C GLU A 18	13.086	5.707	-16.734	1.00	93.94	C
ATOM	147	CB GLU A 18	12.070	7.613	-18.000	1.00	93.94	C
ATOM	148	O GLU A 18	13.773	6.266	-15.867	1.00	93.94	O
ATOM	149	CG GLU A 18	10.852	8.188	-18.719	1.00	93.94	C
ATOM	150	CD GLU A 18	11.195	9.305	-19.688	1.00	93.94	C
ATOM	151	OE1 GLU A 18	11.180	9.062	-20.922	1.00	93.94	O
ATOM	152	OE2 GLU A 18	11.492	10.422	-19.219	1.00	93.94	O
ATOM	153	N ASN A 19	13.305	4.527	-17.281	1.00	91.75	N
ATOM	154	CA ASN A 19	14.578	3.850	-17.078	1.00	91.75	C
ATOM	155	C ASN A 19	14.883	3.662	-15.586	1.00	91.75	C
ATOM	156	CB ASN A 19	15.719	4.621	-17.750	1.00	91.75	C
ATOM	157	O ASN A 19	16.016	3.879	-15.148	1.00	91.75	O
ATOM	158	CG ASN A 19	15.602	4.617	-19.266	1.00	91.75	C
ATOM	159	ND2 ASN A 19	15.930	5.742	-19.891	1.00	91.75	N
ATOM	160	OD1 ASN A 19	15.219	3.611	-19.875	1.00	91.75	O
ATOM	161	N ALA A 20	13.820	3.414	-14.805	1.00	94.00	N
ATOM	162	CA ALA A 20	14.000	3.131	-13.383	1.00	94.00	C
ATOM	163	C ALA A 20	14.453	1.689	-13.164	1.00	94.00	C
ATOM	164	CB ALA A 20	12.703	3.402	-12.617	1.00	94.00	C
ATOM	165	O ALA A 20	14.023	0.783	-13.883	1.00	94.00	O
ATOM	166	N SER A 21	15.367	1.587	-12.258	1.00	92.94	N
ATOM	167	CA SER A 21	15.812	0.244	-11.906	1.00	92.94	C

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ATOM	168	C	SER A 21	14.766	-0.481	-11.062	1.00	92.94	C
ATOM	169	CB	SER A 21	17.141	0.302	-11.141	1.00	92.94	C
ATOM	170	O	SER A 21	13.891	0.153	-10.469	1.00	92.94	O
ATOM	171	OG	SER A 21	16.969	0.921	-9.883	1.00	92.94	O
ATOM	172	N	ASP A 22	14.836	-1.738	-11.039	1.00	90.50	N
ATOM	173	CA	ASP A 22	13.953	-2.562	-10.219	1.00	90.50	C
ATOM	174	C	ASP A 22	14.047	-2.168	-8.750	1.00	90.50	C
ATOM	175	CB	ASP A 22	14.297	-4.047	-10.391	1.00	90.50	C
ATOM	176	O	ASP A 22	13.031	-2.137	-8.047	1.00	90.50	O
ATOM	177	CG	ASP A 22	13.852	-4.609	-11.727	1.00	90.50	C
ATOM	178	OD1	ASP A 22	13.148	-3.900	-12.484	1.00	90.50	O
ATOM	179	OD2	ASP A 22	14.203	-5.770	-12.031	1.00	90.50	O
ATOM	180	N	GLU A 23	15.250	-1.839	-8.258	1.00	93.56	N
ATOM	181	CA	GLU A 23	15.453	-1.442	-6.871	1.00	93.56	C
ATOM	182	C	GLU A 23	14.742	-0.129	-6.559	1.00	93.56	C
ATOM	183	CB	GLU A 23	16.953	-1.314	-6.562	1.00	93.56	C
ATOM	184	O	GLU A 23	14.156	0.025	-5.488	1.00	93.56	O
ATOM	185	CG	GLU A 23	17.266	-1.176	-5.078	1.00	93.56	C
ATOM	186	CD	GLU A 23	18.750	-1.138	-4.781	1.00	93.56	C
ATOM	187	OE1	GLU A 23	19.203	-0.205	-4.078	1.00	93.56	O
ATOM	188	OE2	GLU A 23	19.469	-2.047	-5.250	1.00	93.56	O
ATOM	189	N	GLU A 24	14.812	0.779	-7.477	1.00	94.88	N
ATOM	190	CA	GLU A 24	14.133	2.061	-7.305	1.00	94.88	C
ATOM	191	C	GLU A 24	12.625	1.874	-7.199	1.00	94.88	C
ATOM	192	CB	GLU A 24	14.469	3.008	-8.453	1.00	94.88	C
ATOM	193	O	GLU A 24	11.969	2.502	-6.363	1.00	94.88	O
ATOM	194	CG	GLU A 24	15.914	3.498	-8.453	1.00	94.88	C
ATOM	195	CD	GLU A 24	16.219	4.453	-9.594	1.00	94.88	C
ATOM	196	OE1	GLU A 24	16.297	5.680	-9.352	1.00	94.88	O
ATOM	197	OE2	GLU A 24	16.391	3.973	-10.734	1.00	94.88	O
ATOM	198	N	ILE A 25	12.109	1.062	-8.023	1.00	94.19	N
ATOM	199	CA	ILE A 25	10.672	0.810	-8.055	1.00	94.19	C
ATOM	200	C	ILE A 25	10.242	0.116	-6.766	1.00	94.19	C
ATOM	201	CB	ILE A 25	10.273	-0.042	-9.281	1.00	94.19	C
ATOM	202	O	ILE A 25	9.227	0.484	-6.160	1.00	94.19	O
ATOM	203	CG1	ILE A 25	10.531	0.733	-10.578	1.00	94.19	C
ATOM	204	CG2	ILE A 25	8.805	-0.472	-9.188	1.00	94.19	C
ATOM	205	CD1	ILE A 25	10.375	-0.103	-11.836	1.00	94.19	C
ATOM	206	N	LYS A 26	11.039	-0.838	-6.309	1.00	92.38	N
ATOM	207	CA	LYS A 26	10.750	-1.515	-5.047	1.00	92.38	C
ATOM	208	C	LYS A 26	10.742	-0.529	-3.885	1.00	92.38	C
ATOM	209	CB	LYS A 26	11.773	-2.625	-4.789	1.00	92.38	C
ATOM	210	O	LYS A 26	9.859	-0.582	-3.025	1.00	92.38	O
ATOM	211	CG	LYS A 26	11.398	-3.555	-3.645	1.00	92.38	C
ATOM	212	CD	LYS A 26	12.383	-4.711	-3.521	1.00	92.38	C
ATOM	213	CE	LYS A 26	12.047	-5.605	-2.336	1.00	92.38	C
ATOM	214	NZ	LYS A 26	13.031	-6.715	-2.182	1.00	92.38	N
ATOM	215	N	LYS A 27	11.695	0.322	-3.848	1.00	95.69	N
ATOM	216	CA	LYS A 27	11.781	1.319	-2.785	1.00	95.69	C
ATOM	217	C	LYS A 27	10.570	2.252	-2.811	1.00	95.69	C
ATOM	218	CB	LYS A 27	13.070	2.131	-2.910	1.00	95.69	C
ATOM	219	O	LYS A 27	10.047	2.629	-1.760	1.00	95.69	O
ATOM	220	CG	LYS A 27	14.312	1.401	-2.414	1.00	95.69	C

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ATOM	221	CD	LYS	A	27	15.547	2.281	-2.504	1.00	95.69	C
ATOM	222	CE	LYS	A	27	16.797	1.529	-2.076	1.00	95.69	C
ATOM	223	NZ	LYS	A	27	18.031	2.373	-2.207	1.00	95.69	N
ATOM	224	N	LEU	A	28	10.180	2.588	-3.979	1.00	95.50	N
ATOM	225	CA	LEU	A	28	9.008	3.443	-4.133	1.00	95.50	C
ATOM	226	C	LEU	A	28	7.773	2.783	-3.533	1.00	95.50	C
ATOM	227	CB	LEU	A	28	8.766	3.762	-5.609	1.00	95.50	C
ATOM	228	O	LEU	A	28	7.027	3.416	-2.779	1.00	95.50	O
ATOM	229	CG	LEU	A	28	7.520	4.590	-5.930	1.00	95.50	C
ATOM	230	CD1	LEU	A	28	7.695	6.023	-5.441	1.00	95.50	C
ATOM	231	CD2	LEU	A	28	7.227	4.559	-7.426	1.00	95.50	C
ATOM	232	N	PHE	A	29	7.602	1.529	-3.809	1.00	94.44	N
ATOM	233	CA	PHE	A	29	6.449	0.810	-3.281	1.00	94.44	C
ATOM	234	C	PHE	A	29	6.477	0.782	-1.757	1.00	94.44	C
ATOM	235	CB	PHE	A	29	6.406	-0.620	-3.830	1.00	94.44	C
ATOM	236	O	PHE	A	29	5.477	1.086	-1.106	1.00	94.44	O
ATOM	237	CG	PHE	A	29	5.867	-0.715	-5.234	1.00	94.44	C
ATOM	238	CD1	PHE	A	29	4.617	-0.205	-5.547	1.00	94.44	C
ATOM	239	CD2	PHE	A	29	6.617	-1.315	-6.238	1.00	94.44	C
ATOM	240	CE1	PHE	A	29	4.113	-0.292	-6.844	1.00	94.44	C
ATOM	241	CE2	PHE	A	29	6.125	-1.406	-7.535	1.00	94.44	C
ATOM	242	CZ	PHE	A	29	4.871	-0.895	-7.836	1.00	94.44	C
ATOM	243	N	GLU	A	30	7.578	0.457	-1.207	1.00	94.69	N
ATOM	244	CA	GLU	A	30	7.723	0.339	0.241	1.00	94.69	C
ATOM	245	C	GLU	A	30	7.469	1.677	0.931	1.00	94.69	C
ATOM	246	CB	GLU	A	30	9.117	-0.184	0.603	1.00	94.69	C
ATOM	247	O	GLU	A	30	6.809	1.729	1.971	1.00	94.69	O
ATOM	248	CG	GLU	A	30	9.328	-1.649	0.254	1.00	94.69	C
ATOM	249	CD	GLU	A	30	10.680	-2.182	0.712	1.00	94.69	C
ATOM	250	OE1	GLU	A	30	10.914	-3.406	0.599	1.00	94.69	O
ATOM	251	OE2	GLU	A	30	11.500	-1.370	1.188	1.00	94.69	O
ATOM	252	N	GLU	A	31	7.992	2.686	0.380	1.00	96.69	N
ATOM	253	CA	GLU	A	31	7.832	4.008	0.975	1.00	96.69	C
ATOM	254	C	GLU	A	31	6.371	4.445	0.966	1.00	96.69	C
ATOM	255	CB	GLU	A	31	8.695	5.039	0.235	1.00	96.69	C
ATOM	256	O	GLU	A	31	5.875	4.996	1.950	1.00	96.69	O
ATOM	257	CG	GLU	A	31	10.172	4.949	0.562	1.00	96.69	C
ATOM	258	CD	GLU	A	31	10.984	6.109	0.004	1.00	96.69	C
ATOM	259	OE1	GLU	A	31	11.438	6.965	0.794	1.00	96.69	O
ATOM	260	OE2	GLU	A	31	11.164	6.160	-1.233	1.00	96.69	O
ATOM	261	N	LYS	A	32	5.703	4.195	-0.067	1.00	95.25	N
ATOM	262	CA	LYS	A	32	4.305	4.598	-0.173	1.00	95.25	C
ATOM	263	C	LYS	A	32	3.439	3.834	0.827	1.00	95.25	C
ATOM	264	CB	LYS	A	32	3.787	4.367	-1.594	1.00	95.25	C
ATOM	265	O	LYS	A	32	2.562	4.418	1.468	1.00	95.25	O
ATOM	266	CG	LYS	A	32	4.328	5.359	-2.615	1.00	95.25	C
ATOM	267	CD	LYS	A	32	3.635	6.711	-2.502	1.00	95.25	C
ATOM	268	CE	LYS	A	32	4.074	7.656	-3.611	1.00	95.25	C
ATOM	269	NZ	LYS	A	32	3.443	9.008	-3.469	1.00	95.25	N
ATOM	270	N	ILE	A	33	3.613	2.574	0.891	1.00	94.31	N
ATOM	271	CA	ILE	A	33	2.842	1.748	1.814	1.00	94.31	C
ATOM	272	C	ILE	A	33	3.123	2.180	3.252	1.00	94.31	C
ATOM	273	CB	ILE	A	33	3.162	0.248	1.632	1.00	94.31	C

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ATOM	274	O	ILE A 33	2.199	2.328	4.055	1.00	94.31	O
ATOM	275	CG1	ILE A 33	2.676	-0.240	0.262	1.00	94.31	C
ATOM	276	CG2	ILE A 33	2.537	-0.578	2.760	1.00	94.31	C
ATOM	277	CD1	ILE A 33	3.125	-1.651	-0.088	1.00	94.31	C
ATOM	278	N	LYS A 34	4.418	2.383	3.537	1.00	96.12	N
ATOM	279	CA	LYS A 34	4.805	2.822	4.875	1.00	96.12	C
ATOM	280	C	LYS A 34	4.117	4.133	5.242	1.00	96.12	C
ATOM	281	CB	LYS A 34	6.324	2.982	4.969	1.00	96.12	C
ATOM	282	O	LYS A 34	3.604	4.281	6.352	1.00	96.12	O
ATOM	283	CG	LYS A 34	6.828	3.264	6.375	1.00	96.12	C
ATOM	284	CD	LYS A 34	8.352	3.365	6.414	1.00	96.12	C
ATOM	285	CE	LYS A 34	8.852	3.709	7.809	1.00	96.12	C
ATOM	286	NZ	LYS A 34	10.344	3.838	7.844	1.00	96.12	N
ATOM	287	N	LYS A 35	4.141	5.051	4.410	1.00	95.88	N
ATOM	288	CA	LYS A 35	3.512	6.344	4.664	1.00	95.88	C
ATOM	289	C	LYS A 35	2.012	6.195	4.895	1.00	95.88	C
ATOM	290	CB	LYS A 35	3.771	7.305	3.502	1.00	95.88	C
ATOM	291	O	LYS A 35	1.441	6.852	5.766	1.00	95.88	O
ATOM	292	CG	LYS A 35	5.168	7.906	3.494	1.00	95.88	C
ATOM	293	CD	LYS A 35	5.336	8.922	2.371	1.00	95.88	C
ATOM	294	CE	LYS A 35	6.746	9.492	2.338	1.00	95.88	C
ATOM	295	NZ	LYS A 35	6.930	10.445	1.203	1.00	95.88	N
ATOM	296	N	LEU A 36	1.442	5.340	4.094	1.00	95.31	N
ATOM	297	CA	LEU A 36	0.013	5.090	4.242	1.00	95.31	C
ATOM	298	C	LEU A 36	-0.297	4.508	5.613	1.00	95.31	C
ATOM	299	CB	LEU A 36	-0.481	4.137	3.146	1.00	95.31	C
ATOM	300	O	LEU A 36	-1.216	4.969	6.297	1.00	95.31	O
ATOM	301	CG	LEU A 36	-1.983	3.857	3.121	1.00	95.31	C
ATOM	302	CD1	LEU A 36	-2.758	5.141	2.834	1.00	95.31	C
ATOM	303	CD2	LEU A 36	-2.311	2.787	2.084	1.00	95.31	C
ATOM	304	N	ILE A 37	0.444	3.580	6.027	1.00	96.62	N
ATOM	305	CA	ILE A 37	0.245	2.951	7.328	1.00	96.62	C
ATOM	306	C	ILE A 37	0.413	3.988	8.438	1.00	96.62	C
ATOM	307	CB	ILE A 37	1.225	1.774	7.543	1.00	96.62	C
ATOM	308	O	ILE A 37	-0.418	4.078	9.344	1.00	96.62	O
ATOM	309	CG1	ILE A 37	0.887	0.619	6.594	1.00	96.62	C
ATOM	310	CG2	ILE A 37	1.199	1.311	9.000	1.00	96.62	C
ATOM	311	CD1	ILE A 37	1.933	-0.488	6.570	1.00	96.62	C
ATOM	312	N	GLU A 38	1.459	4.750	8.359	1.00	96.81	N
ATOM	313	CA	GLU A 38	1.739	5.770	9.367	1.00	96.81	C
ATOM	314	C	GLU A 38	0.602	6.781	9.453	1.00	96.81	C
ATOM	315	CB	GLU A 38	3.057	6.484	9.055	1.00	96.81	C
ATOM	316	O	GLU A 38	0.204	7.180	10.555	1.00	96.81	O
ATOM	317	CG	GLU A 38	4.293	5.645	9.344	1.00	96.81	C
ATOM	318	CD	GLU A 38	5.594	6.387	9.078	1.00	96.81	C
ATOM	319	OE1	GLU A 38	6.660	5.922	9.547	1.00	96.81	O
ATOM	320	OE2	GLU A 38	5.547	7.438	8.398	1.00	96.81	O
ATOM	321	N	GLU A 39	0.167	7.199	8.359	1.00	95.62	N
ATOM	322	CA	GLU A 39	-0.929	8.164	8.328	1.00	95.62	C
ATOM	323	C	GLU A 39	-2.164	7.613	9.039	1.00	95.62	C
ATOM	324	CB	GLU A 39	-1.273	8.547	6.887	1.00	95.62	C
ATOM	325	O	GLU A 39	-2.787	8.312	9.844	1.00	95.62	O
ATOM	326	CG	GLU A 39	-2.344	9.617	6.773	1.00	95.62	C

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ATOM	327	CD	GLU	A	39	-2.709	9.953	5.336	1.00	95.62	C
ATOM	328	OE1	GLU	A	39	-3.617	9.297	4.773	1.00	95.62	O
ATOM	329	OE2	GLU	A	39	-2.082	10.875	4.766	1.00	95.62	O
ATOM	330	N	ILE	A	40	-2.480	6.398	8.812	1.00	95.25	N
ATOM	331	CA	ILE	A	40	-3.682	5.793	9.375	1.00	95.25	C
ATOM	332	C	ILE	A	40	-3.484	5.559	10.875	1.00	95.25	C
ATOM	333	CB	ILE	A	40	-4.027	4.461	8.672	1.00	95.25	C
ATOM	334	O	ILE	A	40	-4.379	5.840	11.672	1.00	95.25	O
ATOM	335	CG1	ILE	A	40	-4.418	4.719	7.207	1.00	95.25	C
ATOM	336	CG2	ILE	A	40	-5.152	3.732	9.414	1.00	95.25	C
ATOM	337	CD1	ILE	A	40	-4.586	3.453	6.379	1.00	95.25	C
ATOM	338	N	GLU	A	41	-2.316	5.129	11.273	1.00	95.75	N
ATOM	339	CA	GLU	A	41	-2.047	4.863	12.680	1.00	95.75	C
ATOM	340	C	GLU	A	41	-2.016	6.160	13.492	1.00	95.75	C
ATOM	341	CB	GLU	A	41	-0.724	4.109	12.844	1.00	95.75	C
ATOM	342	O	GLU	A	41	-2.586	6.230	14.578	1.00	95.75	O
ATOM	343	CG	GLU	A	41	-0.786	2.656	12.398	1.00	95.75	C
ATOM	344	CD	GLU	A	41	0.431	1.849	12.820	1.00	95.75	C
ATOM	345	OE1	GLU	A	41	0.281	0.648	13.141	1.00	95.75	O
ATOM	346	OE2	GLU	A	41	1.544	2.420	12.828	1.00	95.75	O
ATOM	347	N	LYS	A	42	-1.449	7.188	12.984	1.00	94.50	N
ATOM	348	CA	LYS	A	42	-1.237	8.414	13.750	1.00	94.50	C
ATOM	349	C	LYS	A	42	-2.449	9.336	13.656	1.00	94.50	C
ATOM	350	CB	LYS	A	42	0.016	9.141	13.258	1.00	94.50	C
ATOM	351	O	LYS	A	42	-2.883	9.906	14.656	1.00	94.50	O
ATOM	352	CG	LYS	A	42	1.319	8.469	13.664	1.00	94.50	C
ATOM	353	CD	LYS	A	42	2.527	9.320	13.297	1.00	94.50	C
ATOM	354	CE	LYS	A	42	3.832	8.648	13.695	1.00	94.50	C
ATOM	355	NZ	LYS	A	42	5.020	9.461	13.305	1.00	94.50	N
ATOM	356	N	GLU	A	43	-2.965	9.406	12.461	1.00	92.88	N
ATOM	357	CA	GLU	A	43	-3.992	10.414	12.242	1.00	92.88	C
ATOM	358	C	GLU	A	43	-5.387	9.859	12.523	1.00	92.88	C
ATOM	359	CB	GLU	A	43	-3.922	10.961	10.812	1.00	92.88	C
ATOM	360	O	GLU	A	43	-6.238	10.555	13.078	1.00	92.88	O
ATOM	361	CG	GLU	A	43	-2.637	11.711	10.508	1.00	92.88	C
ATOM	362	CD	GLU	A	43	-2.723	12.547	9.234	1.00	92.88	C
ATOM	363	OE1	GLU	A	43	-1.669	12.812	8.617	1.00	92.88	O
ATOM	364	OE2	GLU	A	43	-3.850	12.938	8.867	1.00	92.88	O
ATOM	365	N	LYS	A	44	-5.516	8.539	12.273	1.00	90.75	N
ATOM	366	CA	LYS	A	44	-6.867	7.984	12.352	1.00	90.75	C
ATOM	367	C	LYS	A	44	-7.023	7.098	13.586	1.00	90.75	C
ATOM	368	CB	LYS	A	44	-7.199	7.191	11.086	1.00	90.75	C
ATOM	369	O	LYS	A	44	-8.133	6.668	13.906	1.00	90.75	O
ATOM	370	CG	LYS	A	44	-7.266	8.039	9.828	1.00	90.75	C
ATOM	371	CD	LYS	A	44	-7.766	7.227	8.633	1.00	90.75	C
ATOM	372	CE	LYS	A	44	-7.891	8.086	7.387	1.00	90.75	C
ATOM	373	NZ	LYS	A	44	-8.656	7.395	6.309	1.00	90.75	N
ATOM	374	N	GLY	A	45	-5.914	6.930	14.289	1.00	95.06	N
ATOM	375	CA	GLY	A	45	-5.926	6.207	15.547	1.00	95.06	C
ATOM	376	C	GLY	A	45	-6.195	4.723	15.391	1.00	95.06	C
ATOM	377	O	GLY	A	45	-6.906	4.125	16.188	1.00	95.06	O
ATOM	378	N	TYR	A	46	-5.738	4.109	14.344	1.00	97.25	N
ATOM	379	CA	TYR	A	46	-5.871	2.680	14.078	1.00	97.25	C

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ATOM	380	C	TYR	A	46	-4.520	1.982	14.164	1.00	97.25	C
ATOM	381	CB	TYR	A	46	-6.492	2.443	12.695	1.00	97.25	C
ATOM	382	O	TYR	A	46	-3.473	2.615	13.992	1.00	97.25	O
ATOM	383	CG	TYR	A	46	-7.961	2.779	12.625	1.00	97.25	C
ATOM	384	CD1	TYR	A	46	-8.930	1.776	12.688	1.00	97.25	C
ATOM	385	CD2	TYR	A	46	-8.391	4.098	12.508	1.00	97.25	C
ATOM	386	CE1	TYR	A	46	-10.281	2.080	12.617	1.00	97.25	C
ATOM	387	CE2	TYR	A	46	-9.742	4.410	12.445	1.00	97.25	C
ATOM	388	OH	TYR	A	46	-12.023	3.703	12.438	1.00	97.25	O
ATOM	389	CZ	TYR	A	46	-10.680	3.398	12.500	1.00	97.25	C
ATOM	390	N	GLU	A	47	-4.602	0.686	14.414	1.00	97.19	N
ATOM	391	CA	GLU	A	47	-3.404	-0.151	14.469	1.00	97.19	C
ATOM	392	C	GLU	A	47	-3.451	-1.250	13.406	1.00	97.19	C
ATOM	393	CB	GLU	A	47	-3.240	-0.767	15.859	1.00	97.19	C
ATOM	394	O	GLU	A	47	-4.465	-1.941	13.273	1.00	97.19	O
ATOM	395	CG	GLU	A	47	-1.971	-1.590	16.016	1.00	97.19	C
ATOM	396	CD	GLU	A	47	-1.820	-2.191	17.406	1.00	97.19	C
ATOM	397	OE1	GLU	A	47	-2.424	-3.256	17.672	1.00	97.19	O
ATOM	398	OE2	GLU	A	47	-1.093	-1.595	18.234	1.00	97.19	O
ATOM	399	N	LEU	A	48	-2.348	-1.368	12.750	1.00	97.75	N
ATOM	400	CA	LEU	A	48	-2.281	-2.369	11.688	1.00	97.75	C
ATOM	401	C	LEU	A	48	-2.330	-3.779	12.266	1.00	97.75	C
ATOM	402	CB	LEU	A	48	-1.008	-2.188	10.859	1.00	97.75	C
ATOM	403	O	LEU	A	48	-1.529	-4.125	13.141	1.00	97.75	O
ATOM	404	CG	LEU	A	48	-0.833	-3.133	9.672	1.00	97.75	C
ATOM	405	CD1	LEU	A	48	-1.880	-2.840	8.602	1.00	97.75	C
ATOM	406	CD2	LEU	A	48	0.575	-3.016	9.094	1.00	97.75	C
ATOM	407	N	VAL	A	49	-3.188	-4.637	11.727	1.00	97.12	N
ATOM	408	CA	VAL	A	49	-3.312	-5.980	12.281	1.00	97.12	C
ATOM	409	C	VAL	A	49	-3.053	-7.016	11.188	1.00	97.12	C
ATOM	410	CB	VAL	A	49	-4.707	-6.211	12.906	1.00	97.12	C
ATOM	411	O	VAL	A	49	-2.686	-8.156	11.477	1.00	97.12	O
ATOM	412	CG1	VAL	A	49	-4.883	-5.348	14.156	1.00	97.12	C
ATOM	413	CG2	VAL	A	49	-5.805	-5.910	11.891	1.00	97.12	C
ATOM	414	N	LYS	A	50	-3.309	-6.613	10.016	1.00	97.19	N
ATOM	415	CA	LYS	A	50	-3.076	-7.547	8.914	1.00	97.19	C
ATOM	416	C	LYS	A	50	-2.654	-6.809	7.645	1.00	97.19	C
ATOM	417	CB	LYS	A	50	-4.328	-8.375	8.641	1.00	97.19	C
ATOM	418	O	LYS	A	50	-3.201	-5.750	7.328	1.00	97.19	O
ATOM	419	CG	LYS	A	50	-4.117	-9.508	7.648	1.00	97.19	C
ATOM	420	CD	LYS	A	50	-5.363	-10.375	7.508	1.00	97.19	C
ATOM	421	CE	LYS	A	50	-5.148	-11.516	6.527	1.00	97.19	C
ATOM	422	NZ	LYS	A	50	-6.367	-12.375	6.395	1.00	97.19	N
ATOM	423	N	LYS	A	51	-1.688	-7.379	6.977	1.00	97.12	N
ATOM	424	CA	LYS	A	51	-1.184	-6.855	5.711	1.00	97.12	C
ATOM	425	C	LYS	A	51	-1.046	-7.965	4.672	1.00	97.12	C
ATOM	426	CB	LYS	A	51	0.163	-6.160	5.914	1.00	97.12	C
ATOM	427	O	LYS	A	51	-0.382	-8.977	4.918	1.00	97.12	O
ATOM	428	CG	LYS	A	51	0.768	-5.594	4.637	1.00	97.12	C
ATOM	429	CD	LYS	A	51	2.137	-4.977	4.895	1.00	97.12	C
ATOM	430	CE	LYS	A	51	2.766	-4.457	3.609	1.00	97.12	C
ATOM	431	NZ	LYS	A	51	4.117	-3.873	3.852	1.00	97.12	N
ATOM	432	N	GLU	A	52	-1.684	-7.762	3.494	1.00	97.44	N

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ATOM	433	CA	GLU A 52	-1.606	-8.695	2.375	1.00	97.44	C
ATOM	434	C	GLU A 52	-1.124	-7.996	1.106	1.00	97.44	C
ATOM	435	CB	GLU A 52	-2.967	-9.352	2.129	1.00	97.44	C
ATOM	436	O	GLU A 52	-1.641	-6.941	0.739	1.00	97.44	O
ATOM	437	CG	GLU A 52	-3.477	-10.172	3.307	1.00	97.44	C
ATOM	438	CD	GLU A 52	-4.836	-10.805	3.053	1.00	97.44	C
ATOM	439	OE1	GLU A 52	-4.887	-12.000	2.680	1.00	97.44	O
ATOM	440	OE2	GLU A 52	-5.855	-10.102	3.229	1.00	97.44	O
ATOM	441	N	ILE A 53	-0.223	-8.734	0.443	1.00	95.56	N
ATOM	442	CA	ILE A 53	0.379	-8.094	-0.723	1.00	95.56	C
ATOM	443	C	ILE A 53	0.318	-9.047	-1.919	1.00	95.56	C
ATOM	444	CB	ILE A 53	1.841	-7.676	-0.446	1.00	95.56	C
ATOM	445	O	ILE A 53	0.604	-10.234	-1.789	1.00	95.56	O
ATOM	446	CG1	ILE A 53	1.901	-6.699	0.733	1.00	95.56	C
ATOM	447	CG2	ILE A 53	2.473	-7.062	-1.699	1.00	95.56	C
ATOM	448	CD1	ILE A 53	3.312	-6.406	1.222	1.00	95.56	C
ATOM	449	N	GLU A 54	-0.029	-8.484	-3.037	1.00	96.12	N
ATOM	450	CA	GLU A 54	0.002	-9.164	-4.328	1.00	96.12	C
ATOM	451	C	GLU A 54	0.760	-8.344	-5.367	1.00	96.12	C
ATOM	452	CB	GLU A 54	-1.419	-9.453	-4.820	1.00	96.12	C
ATOM	453	O	GLU A 54	0.543	-7.141	-5.492	1.00	96.12	O
ATOM	454	CG	GLU A 54	-1.478	-10.359	-6.043	1.00	96.12	C
ATOM	455	CD	GLU A 54	-2.895	-10.641	-6.516	1.00	96.12	C
ATOM	456	OE1	GLU A 54	-3.352	-9.992	-7.484	1.00	96.12	O
ATOM	457	OE2	GLU A 54	-3.555	-11.508	-5.906	1.00	96.12	O
ATOM	458	N	GLU A 55	1.619	-9.055	-6.105	1.00	95.00	N
ATOM	459	CA	GLU A 55	2.449	-8.359	-7.090	1.00	95.00	C
ATOM	460	C	GLU A 55	2.293	-8.977	-8.477	1.00	95.00	C
ATOM	461	CB	GLU A 55	3.920	-8.383	-6.664	1.00	95.00	C
ATOM	462	O	GLU A 55	2.234	-10.203	-8.609	1.00	95.00	O
ATOM	463	CG	GLU A 55	4.836	-7.578	-7.574	1.00	95.00	C
ATOM	464	CD	GLU A 55	6.281	-7.562	-7.105	1.00	95.00	C
ATOM	465	OE1	GLU A 55	7.066	-8.438	-7.535	1.00	95.00	O
ATOM	466	OE2	GLU A 55	6.629	-6.668	-6.301	1.00	95.00	O
ATOM	467	N	GLU A 56	2.258	-8.078	-9.438	1.00	95.81	N
ATOM	468	CA	GLU A 56	2.203	-8.492	-10.836	1.00	95.81	C
ATOM	469	C	GLU A 56	3.146	-7.656	-11.695	1.00	95.81	C
ATOM	470	CB	GLU A 56	0.773	-8.391	-11.367	1.00	95.81	C
ATOM	471	O	GLU A 56	3.166	-6.426	-11.586	1.00	95.81	O
ATOM	472	CG	GLU A 56	0.599	-8.961	-12.773	1.00	95.81	C
ATOM	473	CD	GLU A 56	-0.831	-8.875	-13.281	1.00	95.81	C
ATOM	474	OE1	GLU A 56	-1.215	-7.816	-13.828	1.00	95.81	O
ATOM	475	OE2	GLU A 56	-1.573	-9.867	-13.125	1.00	95.81	O
ATOM	476	N	VAL A 57	3.932	-8.367	-12.453	1.00	95.44	N
ATOM	477	CA	VAL A 57	4.828	-7.668	-13.367	1.00	95.44	C
ATOM	478	C	VAL A 57	4.516	-8.070	-14.805	1.00	95.44	C
ATOM	479	CB	VAL A 57	6.312	-7.957	-13.047	1.00	95.44	C
ATOM	480	O	VAL A 57	4.414	-9.266	-15.117	1.00	95.44	O
ATOM	481	CG1	VAL A 57	7.230	-7.207	-14.008	1.00	95.44	C
ATOM	482	CG2	VAL A 57	6.621	-7.574	-11.602	1.00	95.44	C
ATOM	483	N	GLU A 58	4.328	-7.102	-15.594	1.00	95.94	N
ATOM	484	CA	GLU A 58	4.113	-7.312	-17.016	1.00	95.94	C
ATOM	485	C	GLU A 58	5.195	-6.625	-17.844	1.00	95.94	C

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ATOM	486	CB	GLU A 58	2.730	-6.801	-17.438	1.00	95.94	C
ATOM	487	O	GLU A 58	5.406	-5.418	-17.734	1.00	95.94	O
ATOM	488	CG	GLU A 58	2.352	-7.148	-18.875	1.00	95.94	C
ATOM	489	CD	GLU A 58	0.954	-6.691	-19.250	1.00	95.94	C
ATOM	490	OE1	GLU A 58	0.809	-5.574	-19.797	1.00	95.94	O
ATOM	491	OE2	GLU A 58	-0.006	-7.449	-19.000	1.00	95.94	O
ATOM	492	N	LYS A 59	5.770	-7.434	-18.766	1.00	94.75	N
ATOM	493	CA	LYS A 59	6.824	-6.902	-19.625	1.00	94.75	C
ATOM	494	C	LYS A 59	6.320	-6.703	-21.047	1.00	94.75	C
ATOM	495	CB	LYS A 59	8.039	-7.836	-19.625	1.00	94.75	C
ATOM	496	O	LYS A 59	5.746	-7.621	-21.641	1.00	94.75	O
ATOM	497	CG	LYS A 59	8.742	-7.930	-18.281	1.00	94.75	C
ATOM	498	CD	LYS A 59	9.969	-8.828	-18.359	1.00	94.75	C
ATOM	499	CE	LYS A 59	10.641	-8.969	-17.000	1.00	94.75	C
ATOM	500	NZ	LYS A 59	11.836	-9.867	-17.062	1.00	94.75	N
ATOM	501	N	LYS A 60	6.496	-5.527	-21.516	1.00	92.56	N
ATOM	502	CA	LYS A 60	6.176	-5.176	-22.891	1.00	92.56	C
ATOM	503	C	LYS A 60	7.426	-4.746	-23.656	1.00	92.56	C
ATOM	504	CB	LYS A 60	5.125	-4.066	-22.938	1.00	92.56	C
ATOM	505	O	LYS A 60	8.516	-4.676	-23.078	1.00	92.56	O
ATOM	506	CG	LYS A 60	3.799	-4.445	-22.297	1.00	92.56	C
ATOM	507	CD	LYS A 60	2.760	-3.344	-22.469	1.00	92.56	C
ATOM	508	CE	LYS A 60	1.415	-3.744	-21.875	1.00	92.56	C
ATOM	509	NZ	LYS A 60	0.384	-2.684	-22.078	1.00	92.56	N
ATOM	510	N	GLU A 61	7.301	-4.645	-25.031	1.00	90.69	N
ATOM	511	CA	GLU A 61	8.422	-4.332	-25.922	1.00	90.69	C
ATOM	512	C	GLU A 61	9.156	-3.076	-25.453	1.00	90.69	C
ATOM	513	CB	GLU A 61	7.930	-4.160	-27.359	1.00	90.69	C
ATOM	514	O	GLU A 61	10.383	-3.055	-25.406	1.00	90.69	O
ATOM	515	CG	GLU A 61	9.055	-4.070	-28.375	1.00	90.69	C
ATOM	516	CD	GLU A 61	8.555	-4.066	-29.812	1.00	90.69	C
ATOM	517	OE1	GLU A 61	8.414	-2.975	-30.406	1.00	90.69	O
ATOM	518	OE2	GLU A 61	8.305	-5.168	-30.359	1.00	90.69	O
ATOM	519	N	ASN A 62	8.492	-2.080	-24.828	1.00	93.81	N
ATOM	520	CA	ASN A 62	9.141	-0.808	-24.531	1.00	93.81	C
ATOM	521	C	ASN A 62	8.875	-0.369	-23.094	1.00	93.81	C
ATOM	522	CB	ASN A 62	8.688	0.275	-25.516	1.00	93.81	C
ATOM	523	O	ASN A 62	9.242	0.740	-22.703	1.00	93.81	O
ATOM	524	CG	ASN A 62	9.086	-0.026	-26.938	1.00	93.81	C
ATOM	525	ND2	ASN A 62	8.219	0.312	-27.891	1.00	93.81	N
ATOM	526	OD1	ASN A 62	10.172	-0.560	-27.203	1.00	93.81	O
ATOM	527	N	GLU A 63	8.305	-1.224	-22.375	1.00	94.81	N
ATOM	528	CA	GLU A 63	8.000	-0.866	-21.000	1.00	94.81	C
ATOM	529	C	GLU A 63	7.824	-2.111	-20.141	1.00	94.81	C
ATOM	530	CB	GLU A 63	6.746	0.005	-20.922	1.00	94.81	C
ATOM	531	O	GLU A 63	7.617	-3.209	-20.656	1.00	94.81	O
ATOM	532	CG	GLU A 63	5.488	-0.687	-21.438	1.00	94.81	C
ATOM	533	CD	GLU A 63	4.281	0.232	-21.500	1.00	94.81	C
ATOM	534	OE1	GLU A 63	3.416	0.045	-22.375	1.00	94.81	O
ATOM	535	OE2	GLU A 63	4.195	1.146	-20.641	1.00	94.81	O
ATOM	536	N	ILE A 64	8.031	-1.839	-18.875	1.00	95.62	N
ATOM	537	CA	ILE A 64	7.707	-2.814	-17.844	1.00	95.62	C
ATOM	538	C	ILE A 64	6.660	-2.232	-16.891	1.00	95.62	C

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ATOM	539	CB	ILE A 64	8.969	-3.246	-17.062	1.00	95.62	C
ATOM	540	O	ILE A 64	6.820	-1.117	-16.391	1.00	95.62	O
ATOM	541	CG1	ILE A 64	10.047	-3.764	-18.016	1.00	95.62	C
ATOM	542	CG2	ILE A 64	8.609	-4.305	-16.016	1.00	95.62	C
ATOM	543	CD1	ILE A 64	11.383	-4.051	-17.344	1.00	95.62	C
ATOM	544	N	ILE A 65	5.559	-2.977	-16.672	1.00	96.44	N
ATOM	545	CA	ILE A 65	4.484	-2.523	-15.789	1.00	96.44	C
ATOM	546	C	ILE A 65	4.512	-3.322	-14.492	1.00	96.44	C
ATOM	547	CB	ILE A 65	3.104	-2.652	-16.469	1.00	96.44	C
ATOM	548	O	ILE A 65	4.359	-4.547	-14.500	1.00	96.44	O
ATOM	549	CG1	ILE A 65	3.100	-1.912	-17.812	1.00	96.44	C
ATOM	550	CG2	ILE A 65	1.997	-2.129	-15.555	1.00	96.44	C
ATOM	551	CD1	ILE A 65	1.880	-2.203	-18.672	1.00	96.44	C
ATOM	552	N	TYR A 66	4.691	-2.586	-13.359	1.00	96.31	N
ATOM	553	CA	TYR A 66	4.648	-3.170	-12.023	1.00	96.31	C
ATOM	554	C	TYR A 66	3.346	-2.814	-11.312	1.00	96.31	C
ATOM	555	CB	TYR A 66	5.840	-2.693	-11.188	1.00	96.31	C
ATOM	556	O	TYR A 66	3.006	-1.638	-11.180	1.00	96.31	O
ATOM	557	CG	TYR A 66	7.180	-3.027	-11.797	1.00	96.31	C
ATOM	558	CD1	TYR A 66	7.887	-4.160	-11.398	1.00	96.31	C
ATOM	559	CD2	TYR A 66	7.742	-2.215	-12.773	1.00	96.31	C
ATOM	560	CE1	TYR A 66	9.125	-4.469	-11.953	1.00	96.31	C
ATOM	561	CE2	TYR A 66	8.977	-2.516	-13.344	1.00	96.31	C
ATOM	562	OH	TYR A 66	10.883	-3.947	-13.477	1.00	96.31	O
ATOM	563	CZ	TYR A 66	9.656	-3.645	-12.922	1.00	96.31	C
ATOM	564	N	THR A 67	2.633	-3.881	-10.977	1.00	96.75	N
ATOM	565	CA	THR A 67	1.421	-3.639	-10.203	1.00	96.75	C
ATOM	566	C	THR A 67	1.507	-4.312	-8.836	1.00	96.75	C
ATOM	567	CB	THR A 67	0.172	-4.141	-10.945	1.00	96.75	C
ATOM	568	O	THR A 67	1.788	-5.512	-8.750	1.00	96.75	O
ATOM	569	CG2	THR A 67	-1.101	-3.826	-10.172	1.00	96.75	C
ATOM	570	OG1	THR A 67	0.101	-3.506	-12.234	1.00	96.75	O
ATOM	571	N	LYS A 68	1.307	-3.473	-7.836	1.00	96.31	N
ATOM	572	CA	LYS A 68	1.250	-3.994	-6.477	1.00	96.31	C
ATOM	573	C	LYS A 68	-0.092	-3.678	-5.820	1.00	96.31	C
ATOM	574	CB	LYS A 68	2.391	-3.422	-5.633	1.00	96.31	C
ATOM	575	O	LYS A 68	-0.499	-2.516	-5.754	1.00	96.31	O
ATOM	576	CG	LYS A 68	2.811	-4.312	-4.473	1.00	96.31	C
ATOM	577	CD	LYS A 68	4.121	-3.844	-3.854	1.00	96.31	C
ATOM	578	CE	LYS A 68	4.695	-4.887	-2.904	1.00	96.31	C
ATOM	579	NZ	LYS A 68	6.004	-4.449	-2.332	1.00	96.31	N
ATOM	580	N	LYS A 69	-0.737	-4.730	-5.414	1.00	97.44	N
ATOM	581	CA	LYS A 69	-1.991	-4.613	-4.676	1.00	97.44	C
ATOM	582	C	LYS A 69	-1.793	-4.941	-3.197	1.00	97.44	C
ATOM	583	CB	LYS A 69	-3.059	-5.527	-5.277	1.00	97.44	C
ATOM	584	O	LYS A 69	-1.299	-6.020	-2.857	1.00	97.44	O
ATOM	585	CG	LYS A 69	-3.406	-5.203	-6.723	1.00	97.44	C
ATOM	586	CD	LYS A 69	-4.457	-6.160	-7.273	1.00	97.44	C
ATOM	587	CE	LYS A 69	-4.730	-5.906	-8.750	1.00	97.44	C
ATOM	588	NZ	LYS A 69	-5.758	-6.844	-9.289	1.00	97.44	N
ATOM	589	N	VAL A 70	-2.164	-3.963	-2.352	1.00	97.19	N
ATOM	590	CA	VAL A 70	-1.962	-4.137	-0.917	1.00	97.19	C
ATOM	591	C	VAL A 70	-3.289	-3.955	-0.183	1.00	97.19	C

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ATOM	592	CB VAL A 70	-0.911	-3.145	-0.370	1.00	97.19	C
ATOM	593	O VAL A 70	-4.047	-3.027	-0.475	1.00	97.19	O
ATOM	594	CG1 VAL A 70	-0.660	-3.391	1.117	1.00	97.19	C
ATOM	595	CG2 VAL A 70	0.391	-3.256	-1.160	1.00	97.19	C
ATOM	596	N THR A 71	-3.590	-4.926	0.625	1.00	97.88	N
ATOM	597	CA THR A 71	-4.719	-4.801	1.540	1.00	97.88	C
ATOM	598	C THR A 71	-4.230	-4.645	2.979	1.00	97.88	C
ATOM	599	CB THR A 71	-5.656	-6.020	1.441	1.00	97.88	C
ATOM	600	O THR A 71	-3.533	-5.516	3.502	1.00	97.88	O
ATOM	601	CG2 THR A 71	-6.855	-5.863	2.367	1.00	97.88	C
ATOM	602	OG1 THR A 71	-6.117	-6.148	0.092	1.00	97.88	O
ATOM	603	N LEU A 72	-4.559	-3.510	3.566	1.00	98.06	N
ATOM	604	CA LEU A 72	-4.191	-3.223	4.949	1.00	98.06	C
ATOM	605	C LEU A 72	-5.422	-3.221	5.848	1.00	98.06	C
ATOM	606	CB LEU A 72	-3.473	-1.872	5.043	1.00	98.06	C
ATOM	607	O LEU A 72	-6.395	-2.518	5.574	1.00	98.06	O
ATOM	608	CG LEU A 72	-2.246	-1.693	4.145	1.00	98.06	C
ATOM	609	CD1 LEU A 72	-1.791	-0.238	4.156	1.00	98.06	C
ATOM	610	CD2 LEU A 72	-1.117	-2.615	4.594	1.00	98.06	C
ATOM	611	N THR A 73	-5.371	-4.035	6.816	1.00	97.88	N
ATOM	612	CA THR A 73	-6.457	-4.094	7.789	1.00	97.88	C
ATOM	613	C THR A 73	-6.020	-3.502	9.125	1.00	97.88	C
ATOM	614	CB THR A 73	-6.945	-5.539	7.996	1.00	97.88	C
ATOM	615	O THR A 73	-4.977	-3.877	9.664	1.00	97.88	O
ATOM	616	CG2 THR A 73	-8.156	-5.582	8.922	1.00	97.88	C
ATOM	617	OG1 THR A 73	-7.305	-6.105	6.730	1.00	97.88	O
ATOM	618	N PHE A 74	-6.840	-2.570	9.570	1.00	97.94	N
ATOM	619	CA PHE A 74	-6.551	-1.887	10.828	1.00	97.94	C
ATOM	620	C PHE A 74	-7.676	-2.098	11.828	1.00	97.94	C
ATOM	621	CB PHE A 74	-6.336	-0.389	10.586	1.00	97.94	C
ATOM	622	O PHE A 74	-8.836	-2.270	11.445	1.00	97.94	O
ATOM	623	CG PHE A 74	-5.219	-0.083	9.625	1.00	97.94	C
ATOM	624	CD1 PHE A 74	-3.963	0.289	10.086	1.00	97.94	C
ATOM	625	CD2 PHE A 74	-5.422	-0.168	8.250	1.00	97.94	C
ATOM	626	CE1 PHE A 74	-2.928	0.573	9.203	1.00	97.94	C
ATOM	627	CE2 PHE A 74	-4.395	0.114	7.359	1.00	97.94	C
ATOM	628	CZ PHE A 74	-3.146	0.486	7.836	1.00	97.94	C
ATOM	629	N ARG A 75	-7.215	-2.092	13.008	1.00	97.50	N
ATOM	630	CA ARG A 75	-8.180	-2.105	14.109	1.00	97.50	C
ATOM	631	C ARG A 75	-8.102	-0.814	14.914	1.00	97.50	C
ATOM	632	CB ARG A 75	-7.938	-3.311	15.016	1.00	97.50	C
ATOM	633	O ARG A 75	-7.012	-0.352	15.258	1.00	97.50	O
ATOM	634	CG ARG A 75	-8.914	-3.404	16.188	1.00	97.50	C
ATOM	635	CD ARG A 75	-10.297	-3.834	15.727	1.00	97.50	C
ATOM	636	NE ARG A 75	-10.297	-5.195	15.203	1.00	97.50	N
ATOM	637	NH1 ARG A 75	-12.570	-5.266	14.789	1.00	97.50	N
ATOM	638	NH2 ARG A 75	-11.258	-7.082	14.312	1.00	97.50	N
ATOM	639	CZ ARG A 75	-11.375	-5.844	14.766	1.00	97.50	C
ATOM	640	N SER A 76	-9.336	-0.297	15.234	1.00	96.44	N
ATOM	641	CA SER A 76	-9.383	0.946	15.992	1.00	96.44	C
ATOM	642	C SER A 76	-8.750	0.770	17.375	1.00	96.44	C
ATOM	643	CB SER A 76	-10.820	1.438	16.141	1.00	96.44	C
ATOM	644	O SER A 76	-8.984	-0.236	18.047	1.00	96.44	O

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ATOM	645	OG SER A 76	-10.883	2.557	17.016	1.00	96.44	O
ATOM	646	N LYS A 77	-7.973	1.767	17.766	1.00	95.06	N
ATOM	647	CA LYS A 77	-7.375	1.749	19.109	1.00	95.06	C
ATOM	648	C LYS A 77	-8.398	2.127	20.172	1.00	95.06	C
ATOM	649	CB LYS A 77	-6.180	2.695	19.172	1.00	95.06	C
ATOM	650	O LYS A 77	-8.273	1.735	21.328	1.00	95.06	O
ATOM	651	CG LYS A 77	-4.973	2.229	18.359	1.00	95.06	C
ATOM	652	CD LYS A 77	-3.791	3.174	18.531	1.00	95.06	C
ATOM	653	CE LYS A 77	-2.588	2.709	17.719	1.00	95.06	C
ATOM	654	NZ LYS A 77	-1.452	3.676	17.812	1.00	95.06	N
ATOM	655	N LYS A 78	-9.453	2.816	19.812	1.00	93.31	N
ATOM	656	CA LYS A 78	-10.453	3.342	20.734	1.00	93.31	C
ATOM	657	C LYS A 78	-11.656	2.406	20.828	1.00	93.31	C
ATOM	658	CB LYS A 78	-10.906	4.734	20.297	1.00	93.31	C
ATOM	659	O LYS A 78	-12.242	2.254	21.906	1.00	93.31	O
ATOM	660	CG LYS A 78	-9.828	5.805	20.422	1.00	93.31	C
ATOM	661	CD LYS A 78	-10.367	7.184	20.078	1.00	93.31	C
ATOM	662	CE LYS A 78	-9.281	8.250	20.156	1.00	93.31	C
ATOM	663	NZ LYS A 78	-9.805	9.602	19.797	1.00	93.31	N
ATOM	664	N ASP A 79	-11.906	1.716	19.688	1.00	93.38	N
ATOM	665	CA ASP A 79	-13.039	0.793	19.609	1.00	93.38	C
ATOM	666	C ASP A 79	-12.656	-0.479	18.844	1.00	93.38	C
ATOM	667	CB ASP A 79	-14.234	1.466	18.922	1.00	93.38	C
ATOM	668	O ASP A 79	-12.594	-0.482	17.625	1.00	93.38	O
ATOM	669	CG ASP A 79	-15.492	0.614	18.969	1.00	93.38	C
ATOM	670	OD1 ASP A 79	-15.422	-0.562	19.375	1.00	93.38	O
ATOM	671	OD2 ASP A 79	-16.562	1.121	18.562	1.00	93.38	O
ATOM	672	N PRO A 80	-12.516	-1.585	19.625	1.00	90.75	N
ATOM	673	CA PRO A 80	-12.031	-2.830	19.031	1.00	90.75	C
ATOM	674	C PRO A 80	-13.031	-3.439	18.047	1.00	90.75	C
ATOM	675	CB PRO A 80	-11.820	-3.748	20.234	1.00	90.75	C
ATOM	676	O PRO A 80	-12.688	-4.344	17.281	1.00	90.75	O
ATOM	677	CG PRO A 80	-12.672	-3.156	21.312	1.00	90.75	C
ATOM	678	CD PRO A 80	-12.789	-1.678	21.078	1.00	90.75	C
ATOM	679	N ASN A 81	-14.219	-2.877	18.000	1.00	93.56	N
ATOM	680	CA ASN A 81	-15.234	-3.406	17.094	1.00	93.56	C
ATOM	681	C ASN A 81	-15.266	-2.637	15.773	1.00	93.56	C
ATOM	682	CB ASN A 81	-16.609	-3.377	17.750	1.00	93.56	C
ATOM	683	O ASN A 81	-16.125	-2.887	14.922	1.00	93.56	O
ATOM	684	CG ASN A 81	-16.734	-4.359	18.906	1.00	93.56	C
ATOM	685	ND2 ASN A 81	-17.438	-3.961	19.953	1.00	93.56	N
ATOM	686	OD1 ASN A 81	-16.203	-5.473	18.844	1.00	93.56	O
ATOM	687	N LYS A 82	-14.336	-1.753	15.594	1.00	95.75	N
ATOM	688	CA LYS A 82	-14.203	-0.981	14.359	1.00	95.75	C
ATOM	689	C LYS A 82	-12.961	-1.400	13.578	1.00	95.75	C
ATOM	690	CB LYS A 82	-14.148	0.516	14.672	1.00	95.75	C
ATOM	691	O LYS A 82	-11.852	-1.392	14.109	1.00	95.75	O
ATOM	692	CG LYS A 82	-15.484	1.116	15.070	1.00	95.75	C
ATOM	693	CD LYS A 82	-15.398	2.629	15.227	1.00	95.75	C
ATOM	694	CE LYS A 82	-16.703	3.221	15.711	1.00	95.75	C
ATOM	695	NZ LYS A 82	-16.609	4.691	15.945	1.00	95.75	N
ATOM	696	N ILE A 83	-13.219	-1.799	12.391	1.00	97.06	N
ATOM	697	CA ILE A 83	-12.148	-2.248	11.500	1.00	97.06	C

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ATOM	698	C	ILE A 83	-12.062	-1.325	10.289	1.00	97.06	C
ATOM	699	CB	ILE A 83	-12.367	-3.709	11.047	1.00	97.06	C
ATOM	700	O	ILE A 83	-13.078	-0.953	9.711	1.00	97.06	O
ATOM	701	CG1	ILE A 83	-12.422	-4.645	12.266	1.00	97.06	C
ATOM	702	CG2	ILE A 83	-11.266	-4.145	10.078	1.00	97.06	C
ATOM	703	CD1	ILE A 83	-11.094	-4.785	12.992	1.00	97.06	C
ATOM	704	N	TYR A 84	-10.867	-0.964	9.953	1.00	97.25	N
ATOM	705	CA	TYR A 84	-10.578	-0.137	8.789	1.00	97.25	C
ATOM	706	C	TYR A 84	-9.734	-0.905	7.773	1.00	97.25	C
ATOM	707	CB	TYR A 84	-9.844	1.143	9.211	1.00	97.25	C
ATOM	708	O	TYR A 84	-8.609	-1.311	8.070	1.00	97.25	O
ATOM	709	CG	TYR A 84	-9.773	2.184	8.117	1.00	97.25	C
ATOM	710	CD1	TYR A 84	-8.570	2.479	7.488	1.00	97.25	C
ATOM	711	CD2	TYR A 84	-10.914	2.877	7.723	1.00	97.25	C
ATOM	712	CE1	TYR A 84	-8.500	3.439	6.484	1.00	97.25	C
ATOM	713	CE2	TYR A 84	-10.852	3.842	6.719	1.00	97.25	C
ATOM	714	OH	TYR A 84	-9.578	5.066	5.113	1.00	97.25	O
ATOM	715	CZ	TYR A 84	-9.641	4.113	6.105	1.00	97.25	C
ATOM	716	N	VAL A 85	-10.344	-1.075	6.676	1.00	97.88	N
ATOM	717	CA	VAL A 85	-9.664	-1.832	5.629	1.00	97.88	C
ATOM	718	C	VAL A 85	-9.305	-0.906	4.469	1.00	97.88	C
ATOM	719	CB	VAL A 85	-10.523	-3.012	5.125	1.00	97.88	C
ATOM	720	O	VAL A 85	-10.172	-0.209	3.936	1.00	97.88	O
ATOM	721	CG1	VAL A 85	-9.797	-3.779	4.023	1.00	97.88	C
ATOM	722	CG2	VAL A 85	-10.883	-3.941	6.285	1.00	97.88	C
ATOM	723	N	VAL A 86	-7.992	-0.931	4.082	1.00	97.88	N
ATOM	724	CA	VAL A 86	-7.523	-0.136	2.955	1.00	97.88	C
ATOM	725	C	VAL A 86	-7.023	-1.058	1.845	1.00	97.88	C
ATOM	726	CB	VAL A 86	-6.402	0.844	3.377	1.00	97.88	C
ATOM	727	O	VAL A 86	-6.129	-1.880	2.066	1.00	97.88	O
ATOM	728	CG1	VAL A 86	-5.887	1.627	2.170	1.00	97.88	C
ATOM	729	CG2	VAL A 86	-6.910	1.797	4.457	1.00	97.88	C
ATOM	730	N	LYS A 87	-7.703	-0.897	0.727	1.00	97.94	N
ATOM	731	CA	LYS A 87	-7.242	-1.580	-0.478	1.00	97.94	C
ATOM	732	C	LYS A 87	-6.473	-0.626	-1.390	1.00	97.94	C
ATOM	733	CB	LYS A 87	-8.422	-2.191	-1.234	1.00	97.94	C
ATOM	734	O	LYS A 87	-7.062	0.278	-1.987	1.00	97.94	O
ATOM	735	CG	LYS A 87	-9.188	-3.242	-0.443	1.00	97.94	C
ATOM	736	CD	LYS A 87	-10.336	-3.824	-1.254	1.00	97.94	C
ATOM	737	CE	LYS A 87	-11.133	-4.836	-0.444	1.00	97.94	C
ATOM	738	NZ	LYS A 87	-12.273	-5.406	-1.232	1.00	97.94	N
ATOM	739	N	TYR A 88	-5.148	-0.881	-1.467	1.00	97.75	N
ATOM	740	CA	TYR A 88	-4.250	0.021	-2.176	1.00	97.75	C
ATOM	741	C	TYR A 88	-3.631	-0.667	-3.387	1.00	97.75	C
ATOM	742	CB	TYR A 88	-3.145	0.526	-1.242	1.00	97.75	C
ATOM	743	O	TYR A 88	-2.998	-1.718	-3.256	1.00	97.75	O
ATOM	744	CG	TYR A 88	-2.150	1.439	-1.915	1.00	97.75	C
ATOM	745	CD1	TYR A 88	-0.782	1.190	-1.835	1.00	97.75	C
ATOM	746	CD2	TYR A 88	-2.576	2.553	-2.633	1.00	97.75	C
ATOM	747	CE1	TYR A 88	0.140	2.031	-2.451	1.00	97.75	C
ATOM	748	CE2	TYR A 88	-1.663	3.398	-3.254	1.00	97.75	C
ATOM	749	OH	TYR A 88	0.597	3.965	-3.771	1.00	97.75	O
ATOM	750	CZ	TYR A 88	-0.310	3.131	-3.158	1.00	97.75	C

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ATOM	751	N	THR	A	89	-3.920	-0.045	-4.570	1.00	97.56	N
ATOM	752	CA	THR	A	89	-3.314	-0.532	-5.805	1.00	97.56	C
ATOM	753	C	THR	A	89	-2.346	0.500	-6.375	1.00	97.56	C
ATOM	754	CB	THR	A	89	-4.387	-0.870	-6.855	1.00	97.56	C
ATOM	755	O	THR	A	89	-2.732	1.640	-6.645	1.00	97.56	O
ATOM	756	CG2	THR	A	89	-3.756	-1.423	-8.133	1.00	97.56	C
ATOM	757	OG1	THR	A	89	-5.285	-1.849	-6.316	1.00	97.56	O
ATOM	758	N	LEU	A	90	-1.062	0.127	-6.527	1.00	97.19	N
ATOM	759	CA	LEU	A	90	-0.051	0.986	-7.133	1.00	97.19	C
ATOM	760	C	LEU	A	90	0.516	0.350	-8.398	1.00	97.19	C
ATOM	761	CB	LEU	A	90	1.078	1.269	-6.141	1.00	97.19	C
ATOM	762	O	LEU	A	90	1.022	-0.774	-8.359	1.00	97.19	O
ATOM	763	CG	LEU	A	90	2.207	2.174	-6.637	1.00	97.19	C
ATOM	764	CD1	LEU	A	90	1.670	3.564	-6.957	1.00	97.19	C
ATOM	765	CD2	LEU	A	90	3.324	2.252	-5.602	1.00	97.19	C
ATOM	766	N	THR	A	91	0.326	1.137	-9.469	1.00	97.00	N
ATOM	767	CA	THR	A	91	0.845	0.685	-10.758	1.00	97.00	C
ATOM	768	C	THR	A	91	1.977	1.593	-11.227	1.00	97.00	C
ATOM	769	CB	THR	A	91	-0.264	0.643	-11.820	1.00	97.00	C
ATOM	770	O	THR	A	91	1.814	2.812	-11.297	1.00	97.00	O
ATOM	771	CG2	THR	A	91	0.269	0.118	-13.148	1.00	97.00	C
ATOM	772	OG1	THR	A	91	-1.320	-0.215	-11.367	1.00	97.00	O
ATOM	773	N	VAL	A	92	3.127	0.946	-11.508	1.00	97.19	N
ATOM	774	CA	VAL	A	92	4.262	1.698	-12.031	1.00	97.19	C
ATOM	775	C	VAL	A	92	4.539	1.278	-13.477	1.00	97.19	C
ATOM	776	CB	VAL	A	92	5.527	1.498	-11.164	1.00	97.19	C
ATOM	777	O	VAL	A	92	4.758	0.097	-13.750	1.00	97.19	O
ATOM	778	CG1	VAL	A	92	6.719	2.240	-11.766	1.00	97.19	C
ATOM	779	CG2	VAL	A	92	5.270	1.964	-9.734	1.00	97.19	C
ATOM	780	N	ILE	A	93	4.441	2.270	-14.383	1.00	96.75	N
ATOM	781	CA	ILE	A	93	4.801	2.045	-15.773	1.00	96.75	C
ATOM	782	C	ILE	A	93	6.227	2.533	-16.031	1.00	96.75	C
ATOM	783	CB	ILE	A	93	3.814	2.752	-16.734	1.00	96.75	C
ATOM	784	O	ILE	A	93	6.488	3.738	-16.000	1.00	96.75	O
ATOM	785	CG1	ILE	A	93	2.377	2.303	-16.438	1.00	96.75	C
ATOM	786	CG2	ILE	A	93	4.188	2.480	-18.188	1.00	96.75	C
ATOM	787	CD1	ILE	A	93	1.315	3.121	-17.172	1.00	96.75	C
ATOM	788	N	ASN	A	94	7.129	1.557	-16.266	1.00	96.00	N
ATOM	789	CA	ASN	A	94	8.539	1.877	-16.484	1.00	96.00	C
ATOM	790	C	ASN	A	94	8.906	1.791	-17.969	1.00	96.00	C
ATOM	791	CB	ASN	A	94	9.438	0.952	-15.656	1.00	96.00	C
ATOM	792	O	ASN	A	94	8.977	0.697	-18.531	1.00	96.00	O
ATOM	793	CG	ASN	A	94	10.883	1.395	-15.656	1.00	96.00	C
ATOM	794	ND2	ASN	A	94	11.797	0.438	-15.531	1.00	96.00	N
ATOM	795	OD1	ASN	A	94	11.180	2.586	-15.773	1.00	96.00	O
ATOM	796	N	LYS	A	95	9.156	2.979	-18.531	1.00	94.62	N
ATOM	797	CA	LYS	A	95	9.523	3.031	-19.938	1.00	94.62	C
ATOM	798	C	LYS	A	95	11.000	2.709	-20.141	1.00	94.62	C
ATOM	799	CB	LYS	A	95	9.203	4.406	-20.531	1.00	94.62	C
ATOM	800	O	LYS	A	95	11.859	3.262	-19.438	1.00	94.62	O
ATOM	801	CG	LYS	A	95	7.711	4.723	-20.594	1.00	94.62	C
ATOM	802	CD	LYS	A	95	7.449	6.023	-21.328	1.00	94.62	C
ATOM	803	CE	LYS	A	95	5.961	6.336	-21.406	1.00	94.62	C

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ATOM	804	NZ	LYS	A	95	5.699	7.629	-22.109	1.00	94.62	N
ATOM	805	N	LEU	A	96	11.266	1.666	-21.047	1.00	88.06	N
ATOM	806	CA	LEU	A	96	12.625	1.210	-21.312	1.00	88.06	C
ATOM	807	C	LEU	A	96	13.203	1.916	-22.547	1.00	88.06	C
ATOM	808	CB	LEU	A	96	12.648	-0.306	-21.531	1.00	88.06	C
ATOM	809	O	LEU	A	96	12.453	2.418	-23.375	1.00	88.06	O
ATOM	810	CG	LEU	A	96	12.180	-1.163	-20.359	1.00	88.06	C
ATOM	811	CD1	LEU	A	96	12.062	-2.625	-20.781	1.00	88.06	C
ATOM	812	CD2	LEU	A	96	13.125	-1.015	-19.172	1.00	88.06	C
ATOM	813	N	PRO	A	97	14.484	2.309	-22.547	1.00	78.56	N
ATOM	814	CA	PRO	A	97	15.070	2.906	-23.750	1.00	78.56	C
ATOM	815	C	PRO	A	97	14.805	2.084	-25.016	1.00	78.56	C
ATOM	816	CB	PRO	A	97	16.562	2.947	-23.438	1.00	78.56	C
ATOM	817	O	PRO	A	97	14.570	0.876	-24.922	1.00	78.56	O
ATOM	818	CG	PRO	A	97	16.719	2.139	-22.188	1.00	78.56	C
ATOM	819	CD	PRO	A	97	15.344	1.843	-21.641	1.00	78.56	C
TER											
ENDMDL											
MODEL	1										
ATOM	1	N	MET	A	1	12.977	13.008	-28.484	1.00	66.06	N
ATOM	2	CA	MET	A	1	12.867	11.617	-28.047	1.00	66.06	C
ATOM	3	C	MET	A	1	11.562	11.398	-27.281	1.00	66.06	C
ATOM	4	CB	MET	A	1	14.055	11.227	-27.172	1.00	66.06	C
ATOM	5	O	MET	A	1	11.211	12.188	-26.406	1.00	66.06	O
ATOM	6	CG	MET	A	1	14.664	9.883	-27.531	1.00	66.06	C
ATOM	7	SD	MET	A	1	16.312	9.633	-26.766	1.00	66.06	S
ATOM	8	CE	MET	A	1	16.562	7.863	-27.109	1.00	66.06	C
ATOM	9	N	LYS	A	2	10.484	10.594	-27.812	1.00	74.50	N
ATOM	10	CA	LYS	A	2	9.172	10.320	-27.234	1.00	74.50	C
ATOM	11	C	LYS	A	2	9.250	9.188	-26.203	1.00	74.50	C
ATOM	12	CB	LYS	A	2	8.172	9.961	-28.328	1.00	74.50	C
ATOM	13	O	LYS	A	2	9.883	8.164	-26.453	1.00	74.50	O
ATOM	14	CG	LYS	A	2	6.715	9.992	-27.875	1.00	74.50	C
ATOM	15	CD	LYS	A	2	5.762	9.742	-29.031	1.00	74.50	C
ATOM	16	CE	LYS	A	2	4.309	9.734	-28.578	1.00	74.50	C
ATOM	17	NZ	LYS	A	2	3.371	9.492	-29.719	1.00	74.50	N
ATOM	18	N	VAL	A	3	9.219	9.508	-24.875	1.00	79.19	N
ATOM	19	CA	VAL	A	3	9.172	8.594	-23.750	1.00	79.19	C
ATOM	20	C	VAL	A	3	7.875	7.785	-23.781	1.00	79.19	C
ATOM	21	CB	VAL	A	3	9.297	9.344	-22.406	1.00	79.19	C
ATOM	22	O	VAL	A	3	6.789	8.359	-23.891	1.00	79.19	O
ATOM	23	CG1	VAL	A	3	9.219	8.375	-21.234	1.00	79.19	C
ATOM	24	CG2	VAL	A	3	10.602	10.141	-22.359	1.00	79.19	C
ATOM	25	N	GLU	A	4	8.000	6.531	-24.000	1.00	87.75	N
ATOM	26	CA	GLU	A	4	6.883	5.594	-23.938	1.00	87.75	C
ATOM	27	C	GLU	A	4	6.664	5.102	-22.516	1.00	87.75	C
ATOM	28	CB	GLU	A	4	7.121	4.402	-24.875	1.00	87.75	C
ATOM	29	O	GLU	A	4	7.598	4.625	-21.859	1.00	87.75	O
ATOM	30	CG	GLU	A	4	5.910	3.490	-25.031	1.00	87.75	C
ATOM	31	CD	GLU	A	4	6.125	2.377	-26.031	1.00	87.75	C
ATOM	32	OE1	GLU	A	4	6.035	1.187	-25.656	1.00	87.75	O
ATOM	33	OE2	GLU	A	4	6.383	2.695	-27.219	1.00	87.75	O
ATOM	34	N	VAL	A	5	5.355	5.352	-22.000	1.00	91.06	N

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ATOM	35	CA VAL A 5	5.035	4.973	-20.625	1.00	91.06	C
ATOM	36	C VAL A 5	3.928	3.924	-20.625	1.00	91.06	C
ATOM	37	CB VAL A 5	4.613	6.199	-19.797	1.00	91.06	C
ATOM	38	O VAL A 5	2.885	4.109	-21.266	1.00	91.06	O
ATOM	39	CG1 VAL A 5	4.285	5.781	-18.359	1.00	91.06	C
ATOM	40	CG2 VAL A 5	5.711	7.262	-19.812	1.00	91.06	C
ATOM	41	N GLU A 6	4.273	2.787	-20.047	1.00	93.31	N
ATOM	42	CA GLU A 6	3.262	1.767	-19.781	1.00	93.31	C
ATOM	43	C GLU A 6	2.838	1.780	-18.312	1.00	93.31	C
ATOM	44	CB GLU A 6	3.785	0.380	-20.156	1.00	93.31	C
ATOM	45	O GLU A 6	3.684	1.823	-17.422	1.00	93.31	O
ATOM	46	CG GLU A 6	2.750	-0.728	-20.031	1.00	93.31	C
ATOM	47	CD GLU A 6	3.299	-2.107	-20.344	1.00	93.31	C
ATOM	48	OE1 GLU A 6	2.598	-3.113	-20.109	1.00	93.31	O
ATOM	49	OE2 GLU A 6	4.441	-2.182	-20.859	1.00	93.31	O
ATOM	50	N THR A 7	1.503	1.783	-18.094	1.00	94.06	N
ATOM	51	CA THR A 7	0.982	1.812	-16.734	1.00	94.06	C
ATOM	52	C THR A 7	0.205	0.536	-16.422	1.00	94.06	C
ATOM	53	CB THR A 7	0.075	3.035	-16.516	1.00	94.06	C
ATOM	54	O THR A 7	-0.647	0.116	-17.219	1.00	94.06	O
ATOM	55	CG2 THR A 7	-0.409	3.102	-15.062	1.00	94.06	C
ATOM	56	OG1 THR A 7	0.809	4.230	-16.812	1.00	94.06	O
ATOM	57	N VAL A 8	0.552	-0.051	-15.289	1.00	94.56	N
ATOM	58	CA VAL A 8	-0.166	-1.221	-14.789	1.00	94.56	C
ATOM	59	C VAL A 8	-0.736	-0.928	-13.406	1.00	94.56	C
ATOM	60	CB VAL A 8	0.745	-2.467	-14.742	1.00	94.56	C
ATOM	61	O VAL A 8	-0.024	-0.441	-12.523	1.00	94.56	O
ATOM	62	CG1 VAL A 8	-0.065	-3.715	-14.398	1.00	94.56	C
ATOM	63	CG2 VAL A 8	1.472	-2.650	-16.078	1.00	94.56	C
ATOM	64	N THR A 9	-2.078	-1.255	-13.297	1.00	95.69	N
ATOM	65	CA THR A 9	-2.734	-0.952	-12.031	1.00	95.69	C
ATOM	66	C THR A 9	-3.402	-2.197	-11.453	1.00	95.69	C
ATOM	67	CB THR A 9	-3.781	0.165	-12.195	1.00	95.69	C
ATOM	68	O THR A 9	-4.023	-2.969	-12.188	1.00	95.69	O
ATOM	69	CG2 THR A 9	-4.465	0.481	-10.867	1.00	95.69	C
ATOM	70	OG1 THR A 9	-3.137	1.349	-12.680	1.00	95.69	O
ATOM	71	N LYS A 10	-3.193	-2.344	-10.148	1.00	96.19	N
ATOM	72	CA LYS A 10	-3.908	-3.383	-9.414	1.00	96.19	C
ATOM	73	C LYS A 10	-4.543	-2.818	-8.141	1.00	96.19	C
ATOM	74	CB LYS A 10	-2.967	-4.535	-9.062	1.00	96.19	C
ATOM	75	O LYS A 10	-3.904	-2.068	-7.406	1.00	96.19	O
ATOM	76	CG LYS A 10	-3.668	-5.742	-8.453	1.00	96.19	C
ATOM	77	CD LYS A 10	-2.736	-6.945	-8.375	1.00	96.19	C
ATOM	78	CE LYS A 10	-3.461	-8.180	-7.852	1.00	96.19	C
ATOM	79	NZ LYS A 10	-2.551	-9.359	-7.770	1.00	96.19	N
ATOM	80	N THR A 11	-5.793	-3.221	-7.953	1.00	96.75	N
ATOM	81	CA THR A 11	-6.523	-2.803	-6.762	1.00	96.75	C
ATOM	82	C THR A 11	-6.766	-3.988	-5.828	1.00	96.75	C
ATOM	83	CB THR A 11	-7.871	-2.154	-7.129	1.00	96.75	C
ATOM	84	O THR A 11	-7.203	-5.051	-6.273	1.00	96.75	O
ATOM	85	CG2 THR A 11	-8.625	-1.697	-5.883	1.00	96.75	C
ATOM	86	OG1 THR A 11	-7.633	-1.021	-7.973	1.00	96.75	O
ATOM	87	N VAL A 12	-6.461	-3.738	-4.547	1.00	96.56	N

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ATOM	88	CA VAL A 12	-6.703	-4.785	-3.559	1.00	96.56	C
ATOM	89	C VAL A 12	-7.551	-4.230	-2.418	1.00	96.56	C
ATOM	90	CB VAL A 12	-5.379	-5.359	-3.006	1.00	96.56	C
ATOM	91	O VAL A 12	-7.434	-3.055	-2.061	1.00	96.56	O
ATOM	92	CG1 VAL A 12	-4.602	-6.074	-4.109	1.00	96.56	C
ATOM	93	CG2 VAL A 12	-4.535	-4.250	-2.385	1.00	96.56	C
ATOM	94	N THR A 13	-8.453	-5.117	-1.952	1.00	96.31	N
ATOM	95	CA THR A 13	-9.312	-4.762	-0.824	1.00	96.31	C
ATOM	96	C THR A 13	-9.008	-5.645	0.384	1.00	96.31	C
ATOM	97	CB THR A 13	-10.797	-4.887	-1.191	1.00	96.31	C
ATOM	98	O THR A 13	-8.945	-6.871	0.264	1.00	96.31	O
ATOM	99	CG2 THR A 13	-11.688	-4.461	-0.028	1.00	96.31	C
ATOM	100	OG1 THR A 13	-11.078	-4.051	-2.322	1.00	96.31	O
ATOM	101	N VAL A 14	-8.852	-4.945	1.539	1.00	96.25	N
ATOM	102	CA VAL A 14	-8.484	-5.637	2.771	1.00	96.25	C
ATOM	103	C VAL A 14	-9.461	-5.258	3.887	1.00	96.25	C
ATOM	104	CB VAL A 14	-7.035	-5.312	3.195	1.00	96.25	C
ATOM	105	O VAL A 14	-9.828	-4.090	4.023	1.00	96.25	O
ATOM	106	CG1 VAL A 14	-6.660	-6.078	4.461	1.00	96.25	C
ATOM	107	CG2 VAL A 14	-6.066	-5.637	2.061	1.00	96.25	C
ATOM	108	N GLU A 15	-9.883	-6.227	4.566	1.00	95.88	N
ATOM	109	CA GLU A 15	-10.664	-5.977	5.773	1.00	95.88	C
ATOM	110	C GLU A 15	-9.805	-6.117	7.023	1.00	95.88	C
ATOM	111	CB GLU A 15	-11.859	-6.930	5.844	1.00	95.88	C
ATOM	112	O GLU A 15	-9.047	-7.078	7.156	1.00	95.88	O
ATOM	113	CG GLU A 15	-12.883	-6.719	4.734	1.00	95.88	C
ATOM	114	CD GLU A 15	-14.094	-7.629	4.855	1.00	95.88	C
ATOM	115	OE1 GLU A 15	-15.188	-7.250	4.375	1.00	95.88	O
ATOM	116	OE2 GLU A 15	-13.953	-8.727	5.438	1.00	95.88	O
ATOM	117	N ALA A 16	-9.914	-5.035	7.867	1.00	94.56	N
ATOM	118	CA ALA A 16	-9.172	-5.051	9.125	1.00	94.56	C
ATOM	119	C ALA A 16	-9.969	-4.383	10.242	1.00	94.56	C
ATOM	120	CB ALA A 16	-7.820	-4.363	8.953	1.00	94.56	C
ATOM	121	O ALA A 16	-10.852	-3.564	9.977	1.00	94.56	O
ATOM	122	N TYR A 17	-9.734	-4.840	11.469	1.00	93.94	N
ATOM	123	CA TYR A 17	-10.383	-4.211	12.609	1.00	93.94	C
ATOM	124	C TYR A 17	-9.594	-2.988	13.078	1.00	93.94	C
ATOM	125	CB TYR A 17	-10.523	-5.207	13.766	1.00	93.94	C
ATOM	126	O TYR A 17	-8.383	-2.900	12.852	1.00	93.94	O
ATOM	127	CG TYR A 17	-11.508	-6.316	13.492	1.00	93.94	C
ATOM	128	CD1 TYR A 17	-12.875	-6.117	13.641	1.00	93.94	C
ATOM	129	CD2 TYR A 17	-11.070	-7.570	13.078	1.00	93.94	C
ATOM	130	CE1 TYR A 17	-13.789	-7.137	13.391	1.00	93.94	C
ATOM	131	CE2 TYR A 17	-11.969	-8.602	12.820	1.00	93.94	C
ATOM	132	OH TYR A 17	-14.219	-9.391	12.727	1.00	93.94	O
ATOM	133	CZ TYR A 17	-13.320	-8.375	12.977	1.00	93.94	C
ATOM	134	N GLU A 18	-10.406	-2.115	13.656	1.00	92.75	N
ATOM	135	CA GLU A 18	-9.766	-0.917	14.195	1.00	92.75	C
ATOM	136	C GLU A 18	-8.703	-1.275	15.227	1.00	92.75	C
ATOM	137	CB GLU A 18	-10.805	0.015	14.820	1.00	92.75	C
ATOM	138	O GLU A 18	-8.945	-2.068	16.141	1.00	92.75	O
ATOM	139	CG GLU A 18	-10.258	1.379	15.203	1.00	92.75	C
ATOM	140	CD GLU A 18	-11.336	2.361	15.633	1.00	92.75	C

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ATOM	141	OE1 GLU A 18	-11.039	3.570	15.766	1.00	92.75	O
ATOM	142	OE2 GLU A 18	-12.484	1.916	15.852	1.00	92.75	O
ATOM	143	N GLY A 19	-7.418	-0.723	15.000	1.00	92.81	N
ATOM	144	CA GLY A 19	-6.309	-0.945	15.914	1.00	92.81	C
ATOM	145	C GLY A 19	-5.461	-2.148	15.547	1.00	92.81	C
ATOM	146	O GLY A 19	-4.465	-2.441	16.219	1.00	92.81	O
ATOM	147	N GLU A 20	-5.824	-2.830	14.438	1.00	95.12	N
ATOM	148	CA GLU A 20	-5.109	-4.020	13.977	1.00	95.12	C
ATOM	149	C GLU A 20	-4.020	-3.654	12.977	1.00	95.12	C
ATOM	150	CB GLU A 20	-6.082	-5.023	13.352	1.00	95.12	C
ATOM	151	O GLU A 20	-4.078	-2.600	12.336	1.00	95.12	O
ATOM	152	CG GLU A 20	-5.473	-6.398	13.117	1.00	95.12	C
ATOM	153	CD GLU A 20	-6.461	-7.402	12.539	1.00	95.12	C
ATOM	154	OE1 GLU A 20	-6.043	-8.516	12.156	1.00	95.12	O
ATOM	155	OE2 GLU A 20	-7.664	-7.066	12.469	1.00	95.12	O
ATOM	156	N THR A 21	-3.006	-4.551	12.969	1.00	96.75	N
ATOM	157	CA THR A 21	-1.979	-4.527	11.938	1.00	96.75	C
ATOM	158	C THR A 21	-2.082	-5.762	11.047	1.00	96.75	C
ATOM	159	CB THR A 21	-0.568	-4.449	12.547	1.00	96.75	C
ATOM	160	O THR A 21	-2.160	-6.887	11.539	1.00	96.75	O
ATOM	161	CG2 THR A 21	0.502	-4.414	11.461	1.00	96.75	C
ATOM	162	OG1 THR A 21	-0.464	-3.262	13.344	1.00	96.75	O
ATOM	163	N LYS A 22	-2.168	-5.520	9.688	1.00	96.50	N
ATOM	164	CA LYS A 22	-2.287	-6.613	8.727	1.00	96.50	C
ATOM	165	C LYS A 22	-1.146	-6.574	7.711	1.00	96.50	C
ATOM	166	CB LYS A 22	-3.633	-6.547	8.000	1.00	96.50	C
ATOM	167	O LYS A 22	-0.686	-5.500	7.328	1.00	96.50	O
ATOM	168	CG LYS A 22	-4.773	-7.215	8.758	1.00	96.50	C
ATOM	169	CD LYS A 22	-5.891	-7.645	7.816	1.00	96.50	C
ATOM	170	CE LYS A 22	-6.863	-8.594	8.500	1.00	96.50	C
ATOM	171	NZ LYS A 22	-7.875	-9.133	7.539	1.00	96.50	N
ATOM	172	N ASN A 23	-0.703	-7.785	7.344	1.00	97.19	N
ATOM	173	CA ASN A 23	0.279	-7.914	6.273	1.00	97.19	C
ATOM	174	C ASN A 23	-0.376	-8.336	4.961	1.00	97.19	C
ATOM	175	CB ASN A 23	1.373	-8.906	6.664	1.00	97.19	C
ATOM	176	O ASN A 23	-1.177	-9.273	4.938	1.00	97.19	O
ATOM	177	CG ASN A 23	2.199	-8.430	7.844	1.00	97.19	C
ATOM	178	ND2 ASN A 23	2.195	-9.211	8.922	1.00	97.19	N
ATOM	179	OD1 ASN A 23	2.836	-7.379	7.785	1.00	97.19	O
ATOM	180	N VAL A 24	-0.093	-7.578	3.910	1.00	96.44	N
ATOM	181	CA VAL A 24	-0.689	-7.832	2.602	1.00	96.44	C
ATOM	182	C VAL A 24	0.411	-8.031	1.562	1.00	96.44	C
ATOM	183	CB VAL A 24	-1.624	-6.680	2.170	1.00	96.44	C
ATOM	184	O VAL A 24	1.387	-7.281	1.526	1.00	96.44	O
ATOM	185	CG1 VAL A 24	-2.197	-6.941	0.780	1.00	96.44	C
ATOM	186	CG2 VAL A 24	-2.746	-6.496	3.189	1.00	96.44	C
ATOM	187	N THR A 25	0.262	-9.070	0.768	1.00	96.31	N
ATOM	188	CA THR A 25	1.175	-9.367	-0.332	1.00	96.31	C
ATOM	189	C THR A 25	0.464	-9.234	-1.676	1.00	96.31	C
ATOM	190	CB THR A 25	1.773	-10.781	-0.203	1.00	96.31	C
ATOM	191	O THR A 25	-0.612	-9.797	-1.874	1.00	96.31	O
ATOM	192	CG2 THR A 25	2.768	-11.055	-1.324	1.00	96.31	C
ATOM	193	OG1 THR A 25	2.445	-10.891	1.058	1.00	96.31	O

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ATOM	194	N	VAL A 26	1.049	-8.406	-2.539	1.00	95.62	N
ATOM	195	CA	VAL A 26	0.461	-8.172	-3.854	1.00	95.62	C
ATOM	196	C	VAL A 26	1.481	-8.500	-4.941	1.00	95.62	C
ATOM	197	CB	VAL A 26	-0.032	-6.715	-4.004	1.00	95.62	C
ATOM	198	O	VAL A 26	2.641	-8.086	-4.855	1.00	95.62	O
ATOM	199	CG1	VAL A 26	-0.634	-6.488	-5.387	1.00	95.62	C
ATOM	200	CG2	VAL A 26	-1.051	-6.383	-2.914	1.00	95.62	C
ATOM	201	N	THR A 27	1.020	-9.273	-5.918	1.00	94.12	N
ATOM	202	CA	THR A 27	1.839	-9.555	-7.090	1.00	94.12	C
ATOM	203	C	THR A 27	1.296	-8.820	-8.312	1.00	94.12	C
ATOM	204	CB	THR A 27	1.903	-11.062	-7.383	1.00	94.12	C
ATOM	205	O	THR A 27	0.098	-8.875	-8.602	1.00	94.12	O
ATOM	206	CG2	THR A 27	2.867	-11.359	-8.523	1.00	94.12	C
ATOM	207	OG1	THR A 27	2.346	-11.750	-6.207	1.00	94.12	O
ATOM	208	N	LEU A 28	2.182	-7.988	-8.945	1.00	93.81	N
ATOM	209	CA	LEU A 28	1.836	-7.199	-10.125	1.00	93.81	C
ATOM	210	C	LEU A 28	2.898	-7.344	-11.203	1.00	93.81	C
ATOM	211	CB	LEU A 28	1.670	-5.723	-9.750	1.00	93.81	C
ATOM	212	O	LEU A 28	4.059	-6.977	-11.000	1.00	93.81	O
ATOM	213	CG	LEU A 28	1.229	-4.785	-10.867	1.00	93.81	C
ATOM	214	CD1	LEU A 28	-0.166	-5.160	-11.359	1.00	93.81	C
ATOM	215	CD2	LEU A 28	1.265	-3.334	-10.398	1.00	93.81	C
ATOM	216	N	ASP A 29	2.461	-7.945	-12.305	1.00	91.75	N
ATOM	217	CA	ASP A 29	3.334	-8.164	-13.453	1.00	91.75	C
ATOM	218	C	ASP A 29	4.590	-8.930	-13.047	1.00	91.75	C
ATOM	219	CB	ASP A 29	3.717	-6.828	-14.094	1.00	91.75	C
ATOM	220	O	ASP A 29	5.695	-8.586	-13.469	1.00	91.75	O
ATOM	221	CG	ASP A 29	4.203	-6.980	-15.531	1.00	91.75	C
ATOM	222	OD1	ASP A 29	3.771	-7.926	-16.219	1.00	91.75	O
ATOM	223	OD2	ASP A 29	5.027	-6.148	-15.961	1.00	91.75	O
ATOM	224	N	GLY A 30	4.414	-9.945	-12.164	1.00	90.81	N
ATOM	225	CA	GLY A 30	5.508	-10.836	-11.805	1.00	90.81	C
ATOM	226	C	GLY A 30	6.363	-10.312	-10.672	1.00	90.81	C
ATOM	227	O	GLY A 30	7.309	-10.969	-10.242	1.00	90.81	O
ATOM	228	N	LYS A 31	6.027	-9.023	-10.148	1.00	90.75	N
ATOM	229	CA	LYS A 31	6.699	-8.445	-8.992	1.00	90.75	C
ATOM	230	C	LYS A 31	5.852	-8.594	-7.734	1.00	90.75	C
ATOM	231	CB	LYS A 31	7.008	-6.965	-9.242	1.00	90.75	C
ATOM	232	O	LYS A 31	4.629	-8.461	-7.781	1.00	90.75	O
ATOM	233	CG	LYS A 31	8.039	-6.727	-10.336	1.00	90.75	C
ATOM	234	CD	LYS A 31	8.375	-5.246	-10.477	1.00	90.75	C
ATOM	235	CE	LYS A 31	9.398	-5.004	-11.578	1.00	90.75	C
ATOM	236	NZ	LYS A 31	9.773	-3.561	-11.680	1.00	90.75	N
ATOM	237	N	THR A 32	6.543	-8.906	-6.688	1.00	93.56	N
ATOM	238	CA	THR A 32	5.863	-9.102	-5.414	1.00	93.56	C
ATOM	239	C	THR A 32	6.090	-7.906	-4.492	1.00	93.56	C
ATOM	240	CB	THR A 32	6.344	-10.391	-4.715	1.00	93.56	C
ATOM	241	O	THR A 32	7.223	-7.457	-4.316	1.00	93.56	O
ATOM	242	CG2	THR A 32	5.633	-10.586	-3.381	1.00	93.56	C
ATOM	243	OG1	THR A 32	6.078	-11.516	-5.559	1.00	93.56	O
ATOM	244	N	TYR A 33	4.965	-7.344	-4.012	1.00	94.75	N
ATOM	245	CA	TYR A 33	4.965	-6.230	-3.066	1.00	94.75	C
ATOM	246	C	TYR A 33	4.387	-6.656	-1.722	1.00	94.75	C

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ATOM	247	CB	TYR	A	33	4.172	-5.047	-3.627	1.00	94.75	C
ATOM	248	O	TYR	A	33	3.312	-7.262	-1.666	1.00	94.75	O
ATOM	249	CG	TYR	A	33	4.676	-4.559	-4.965	1.00	94.75	C
ATOM	250	CD1	TYR	A	33	5.535	-3.465	-5.051	1.00	94.75	C
ATOM	251	CD2	TYR	A	33	4.293	-5.191	-6.145	1.00	94.75	C
ATOM	252	CE1	TYR	A	33	6.000	-3.010	-6.277	1.00	94.75	C
ATOM	253	CE2	TYR	A	33	4.754	-4.746	-7.379	1.00	94.75	C
ATOM	254	OH	TYR	A	33	6.059	-3.209	-8.656	1.00	94.75	O
ATOM	255	CZ	TYR	A	33	5.602	-3.656	-7.438	1.00	94.75	C
ATOM	256	N	ASN	A	34	5.160	-6.363	-0.655	1.00	97.12	N
ATOM	257	CA	ASN	A	34	4.719	-6.676	0.700	1.00	97.12	C
ATOM	258	C	ASN	A	34	4.398	-5.414	1.491	1.00	97.12	C
ATOM	259	CB	ASN	A	34	5.777	-7.504	1.432	1.00	97.12	C
ATOM	260	O	ASN	A	34	5.234	-4.512	1.600	1.00	97.12	O
ATOM	261	CG	ASN	A	34	6.074	-8.820	0.736	1.00	97.12	C
ATOM	262	ND2	ASN	A	34	7.285	-8.953	0.218	1.00	97.12	N
ATOM	263	OD1	ASN	A	34	5.215	-9.703	0.665	1.00	97.12	O
ATOM	264	N	PHE	A	35	3.092	-5.434	1.997	1.00	97.88	N
ATOM	265	CA	PHE	A	35	2.645	-4.238	2.703	1.00	97.88	C
ATOM	266	C	PHE	A	35	2.203	-4.578	4.121	1.00	97.88	C
ATOM	267	CB	PHE	A	35	1.499	-3.562	1.944	1.00	97.88	C
ATOM	268	O	PHE	A	35	1.735	-5.691	4.379	1.00	97.88	O
ATOM	269	CG	PHE	A	35	1.829	-3.232	0.514	1.00	97.88	C
ATOM	270	CD1	PHE	A	35	2.662	-2.164	0.206	1.00	97.88	C
ATOM	271	CD2	PHE	A	35	1.304	-3.992	-0.524	1.00	97.88	C
ATOM	272	CE1	PHE	A	35	2.969	-1.857	-1.118	1.00	97.88	C
ATOM	273	CE2	PHE	A	35	1.605	-3.691	-1.850	1.00	97.88	C
ATOM	274	CZ	PHE	A	35	2.438	-2.623	-2.145	1.00	97.88	C
ATOM	275	N	THR	A	36	2.473	-3.641	4.973	1.00	98.19	N
ATOM	276	CA	THR	A	36	1.896	-3.672	6.312	1.00	98.19	C
ATOM	277	C	THR	A	36	0.857	-2.566	6.480	1.00	98.19	C
ATOM	278	CB	THR	A	36	2.984	-3.527	7.391	1.00	98.19	C
ATOM	279	O	THR	A	36	1.154	-1.391	6.266	1.00	98.19	O
ATOM	280	CG2	THR	A	36	2.381	-3.588	8.789	1.00	98.19	C
ATOM	281	OG1	THR	A	36	3.938	-4.586	7.250	1.00	98.19	O
ATOM	282	N	ILE	A	37	-0.351	-3.014	6.879	1.00	98.12	N
ATOM	283	CA	ILE	A	37	-1.426	-2.057	7.121	1.00	98.12	C
ATOM	284	C	ILE	A	37	-1.588	-1.834	8.625	1.00	98.12	C
ATOM	285	CB	ILE	A	37	-2.758	-2.535	6.504	1.00	98.12	C
ATOM	286	O	ILE	A	37	-1.863	-2.775	9.375	1.00	98.12	O
ATOM	287	CG1	ILE	A	37	-2.594	-2.770	5.000	1.00	98.12	C
ATOM	288	CG2	ILE	A	37	-3.875	-1.526	6.785	1.00	98.12	C
ATOM	289	CD1	ILE	A	37	-3.752	-3.523	4.359	1.00	98.12	C
ATOM	290	N	ASP	A	38	-1.404	-0.627	9.008	1.00	97.44	N
ATOM	291	CA	ASP	A	38	-1.595	-0.206	10.391	1.00	97.44	C
ATOM	292	C	ASP	A	38	-2.842	0.662	10.539	1.00	97.44	C
ATOM	293	CB	ASP	A	38	-0.365	0.552	10.898	1.00	97.44	C
ATOM	294	O	ASP	A	38	-2.824	1.845	10.188	1.00	97.44	O
ATOM	295	CG	ASP	A	38	-0.416	0.841	12.391	1.00	97.44	C
ATOM	296	OD1	ASP	A	38	-1.526	0.933	12.953	1.00	97.44	O
ATOM	297	OD2	ASP	A	38	0.665	0.980	13.000	1.00	97.44	O
ATOM	298	N	THR	A	39	-3.938	0.032	11.039	1.00	95.50	N
ATOM	299	CA	THR	A	39	-5.227	0.715	11.078	1.00	95.50	C

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ATOM	300	C	THR	A	39	-5.273	1.706	12.242	1.00	95.50	C
ATOM	301	CB	THR	A	39	-6.387	-0.289	11.211	1.00	95.50	C
ATOM	302	O	THR	A	39	-6.078	2.639	12.234	1.00	95.50	O
ATOM	303	CG2	THR	A	39	-6.457	-1.207	10.000	1.00	95.50	C
ATOM	304	OG1	THR	A	39	-6.188	-1.085	12.391	1.00	95.50	O
ATOM	305	N	LYS	A	40	-4.430	1.530	13.203	1.00	94.44	N
ATOM	306	CA	LYS	A	40	-4.348	2.498	14.289	1.00	94.44	C
ATOM	307	C	LYS	A	40	-3.785	3.830	13.805	1.00	94.44	C
ATOM	308	CB	LYS	A	40	-3.490	1.952	15.430	1.00	94.44	C
ATOM	309	O	LYS	A	40	-4.348	4.891	14.086	1.00	94.44	O
ATOM	310	CG	LYS	A	40	-3.404	2.875	16.641	1.00	94.44	C
ATOM	311	CD	LYS	A	40	-2.566	2.262	17.750	1.00	94.44	C
ATOM	312	CE	LYS	A	40	-2.459	3.195	18.953	1.00	94.44	C
ATOM	313	NZ	LYS	A	40	-1.635	2.600	20.047	1.00	94.44	N
ATOM	314	N	ASN	A	41	-2.723	3.676	12.969	1.00	96.50	N
ATOM	315	CA	ASN	A	41	-2.051	4.871	12.469	1.00	96.50	C
ATOM	316	C	ASN	A	41	-2.518	5.230	11.062	1.00	96.50	C
ATOM	317	CB	ASN	A	41	-0.533	4.688	12.500	1.00	96.50	C
ATOM	318	O	ASN	A	41	-2.057	6.215	10.484	1.00	96.50	O
ATOM	319	CG	ASN	A	41	0.010	4.508	13.898	1.00	96.50	C
ATOM	320	ND2	ASN	A	41	0.927	3.561	14.062	1.00	96.50	N
ATOM	321	OD1	ASN	A	41	-0.394	5.211	14.828	1.00	96.50	O
ATOM	322	N	LYS	A	42	-3.381	4.410	10.547	1.00	95.75	N
ATOM	323	CA	LYS	A	42	-3.965	4.598	9.219	1.00	95.75	C
ATOM	324	C	LYS	A	42	-2.883	4.785	8.164	1.00	95.75	C
ATOM	325	CB	LYS	A	42	-4.914	5.797	9.219	1.00	95.75	C
ATOM	326	O	LYS	A	42	-2.932	5.734	7.379	1.00	95.75	O
ATOM	327	CG	LYS	A	42	-6.090	5.660	10.172	1.00	95.75	C
ATOM	328	CD	LYS	A	42	-7.027	6.855	10.086	1.00	95.75	C
ATOM	329	CE	LYS	A	42	-8.188	6.734	11.062	1.00	95.75	C
ATOM	330	NZ	LYS	A	42	-9.406	7.441	10.570	1.00	95.75	N
ATOM	331	N	THR	A	43	-1.979	3.861	8.109	1.00	97.81	N
ATOM	332	CA	THR	A	43	-0.873	3.906	7.156	1.00	97.81	C
ATOM	333	C	THR	A	43	-0.676	2.547	6.492	1.00	97.81	C
ATOM	334	CB	THR	A	43	0.436	4.340	7.844	1.00	97.81	C
ATOM	335	O	THR	A	43	-1.082	1.519	7.035	1.00	97.81	O
ATOM	336	CG2	THR	A	43	0.310	5.738	8.438	1.00	97.81	C
ATOM	337	OG1	THR	A	43	0.745	3.414	8.891	1.00	97.81	O
ATOM	338	N	VAL	A	44	-0.152	2.584	5.305	1.00	98.00	N
ATOM	339	CA	VAL	A	44	0.368	1.422	4.594	1.00	98.00	C
ATOM	340	C	VAL	A	44	1.879	1.557	4.418	1.00	98.00	C
ATOM	341	CB	VAL	A	44	-0.315	1.244	3.221	1.00	98.00	C
ATOM	342	O	VAL	A	44	2.365	2.584	3.941	1.00	98.00	O
ATOM	343	CG1	VAL	A	44	0.329	0.099	2.439	1.00	98.00	C
ATOM	344	CG2	VAL	A	44	-1.812	0.998	3.396	1.00	98.00	C
ATOM	345	N	THR	A	45	2.623	0.511	4.844	1.00	98.00	N
ATOM	346	CA	THR	A	45	4.074	0.515	4.703	1.00	98.00	C
ATOM	347	C	THR	A	45	4.520	-0.513	3.666	1.00	98.00	C
ATOM	348	CB	THR	A	45	4.770	0.224	6.047	1.00	98.00	C
ATOM	349	O	THR	A	45	4.109	-1.674	3.719	1.00	98.00	O
ATOM	350	CG2	THR	A	45	6.285	0.319	5.914	1.00	98.00	C
ATOM	351	OG1	THR	A	45	4.324	1.175	7.023	1.00	98.00	O
ATOM	352	N	ASP	A	46	5.211	0.015	2.695	1.00	96.62	N

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ATOM	353	CA	ASP A 46	5.898	-0.875	1.763	1.00	96.62	C
ATOM	354	C	ASP A 46	7.121	-1.515	2.414	1.00	96.62	C
ATOM	355	CB	ASP A 46	6.309	-0.116	0.500	1.00	96.62	C
ATOM	356	O	ASP A 46	8.125	-0.842	2.652	1.00	96.62	O
ATOM	357	CG	ASP A 46	6.973	-1.006	-0.537	1.00	96.62	C
ATOM	358	OD1	ASP A 46	7.418	-2.121	-0.190	1.00	96.62	O
ATOM	359	OD2	ASP A 46	7.055	-0.587	-1.712	1.00	96.62	O
ATOM	360	N	ASN A 47	7.098	-2.809	2.586	1.00	96.00	N
ATOM	361	CA	ASN A 47	8.141	-3.484	3.352	1.00	96.00	C
ATOM	362	C	ASN A 47	9.414	-3.668	2.529	1.00	96.00	C
ATOM	363	CB	ASN A 47	7.637	-4.840	3.861	1.00	96.00	C
ATOM	364	O	ASN A 47	10.484	-3.910	3.084	1.00	96.00	O
ATOM	365	CG	ASN A 47	6.523	-4.703	4.883	1.00	96.00	C
ATOM	366	ND2	ASN A 47	5.664	-5.711	4.957	1.00	96.00	N
ATOM	367	OD1	ASN A 47	6.441	-3.699	5.594	1.00	96.00	O
ATOM	368	N	ASN A 48	9.305	-3.455	1.308	1.00	90.56	N
ATOM	369	CA	ASN A 48	10.500	-3.551	0.472	1.00	90.56	C
ATOM	370	C	ASN A 48	11.344	-2.283	0.552	1.00	90.56	C
ATOM	371	CB	ASN A 48	10.109	-3.844	-0.980	1.00	90.56	C
ATOM	372	O	ASN A 48	12.570	-2.354	0.596	1.00	90.56	O
ATOM	373	CG	ASN A 48	9.492	-5.215	-1.155	1.00	90.56	C
ATOM	374	ND2	ASN A 48	8.695	-5.375	-2.205	1.00	90.56	N
ATOM	375	OD1	ASN A 48	9.727	-6.121	-0.353	1.00	90.56	O
ATOM	376	N	THR A 49	10.633	-1.152	0.625	1.00	92.44	N
ATOM	377	CA	THR A 49	11.344	0.119	0.552	1.00	92.44	C
ATOM	378	C	THR A 49	11.305	0.838	1.896	1.00	92.44	C
ATOM	379	CB	THR A 49	10.750	1.030	-0.538	1.00	92.44	C
ATOM	380	O	THR A 49	12.117	1.729	2.154	1.00	92.44	O
ATOM	381	CG2	THR A 49	10.789	0.352	-1.903	1.00	92.44	C
ATOM	382	OG1	THR A 49	9.391	1.338	-0.206	1.00	92.44	O
ATOM	383	N	GLY A 50	10.391	0.497	2.752	1.00	95.00	N
ATOM	384	CA	GLY A 50	10.203	1.176	4.023	1.00	95.00	C
ATOM	385	C	GLY A 50	9.383	2.443	3.912	1.00	95.00	C
ATOM	386	O	GLY A 50	9.156	3.133	4.906	1.00	95.00	O
ATOM	387	N	LYS A 51	8.930	2.738	2.766	1.00	96.50	N
ATOM	388	CA	LYS A 51	8.117	3.934	2.541	1.00	96.50	C
ATOM	389	C	LYS A 51	6.723	3.770	3.133	1.00	96.50	C
ATOM	390	CB	LYS A 51	8.023	4.246	1.047	1.00	96.50	C
ATOM	391	O	LYS A 51	6.129	2.693	3.051	1.00	96.50	O
ATOM	392	CG	LYS A 51	9.273	4.895	0.468	1.00	96.50	C
ATOM	393	CD	LYS A 51	9.062	5.312	-0.981	1.00	96.50	C
ATOM	394	CE	LYS A 51	10.352	5.836	-1.604	1.00	96.50	C
ATOM	395	NZ	LYS A 51	10.172	6.156	-3.053	1.00	96.50	N
ATOM	396	N	VAL A 52	6.215	4.875	3.707	1.00	97.12	N
ATOM	397	CA	VAL A 52	4.930	4.859	4.402	1.00	97.12	C
ATOM	398	C	VAL A 52	3.922	5.719	3.639	1.00	97.12	C
ATOM	399	CB	VAL A 52	5.066	5.363	5.855	1.00	97.12	C
ATOM	400	O	VAL A 52	4.223	6.855	3.264	1.00	97.12	O
ATOM	401	CG1	VAL A 52	3.707	5.371	6.555	1.00	97.12	C
ATOM	402	CG2	VAL A 52	6.062	4.500	6.629	1.00	97.12	C
ATOM	403	N	TYR A 53	2.779	5.062	3.400	1.00	97.19	N
ATOM	404	CA	TYR A 53	1.701	5.754	2.703	1.00	97.19	C
ATOM	405	C	TYR A 53	0.481	5.910	3.602	1.00	97.19	C

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ATOM	406	CB	TYR	A	53	1.314	4.996	1.428	1.00	97.19	C
ATOM	407	O	TYR	A	53	-0.021	4.930	4.156	1.00	97.19	O
ATOM	408	CG	TYR	A	53	2.479	4.730	0.503	1.00	97.19	C
ATOM	409	CD1	TYR	A	53	2.781	5.605	-0.537	1.00	97.19	C
ATOM	410	CD2	TYR	A	53	3.275	3.604	0.667	1.00	97.19	C
ATOM	411	CE1	TYR	A	53	3.850	5.367	-1.393	1.00	97.19	C
ATOM	412	CE2	TYR	A	53	4.348	3.354	-0.183	1.00	97.19	C
ATOM	413	OH	TYR	A	53	5.688	3.994	-2.051	1.00	97.19	O
ATOM	414	CZ	TYR	A	53	4.629	4.238	-1.207	1.00	97.19	C
ATOM	415	N	PRO	A	54	-0.013	7.184	3.715	1.00	97.75	N
ATOM	416	CA	PRO	A	54	-1.197	7.391	4.551	1.00	97.75	C
ATOM	417	C	PRO	A	54	-2.473	6.844	3.914	1.00	97.75	C
ATOM	418	CB	PRO	A	54	-1.269	8.914	4.695	1.00	97.75	C
ATOM	419	O	PRO	A	54	-2.621	6.883	2.691	1.00	97.75	O
ATOM	420	CG	PRO	A	54	-0.584	9.445	3.475	1.00	97.75	C
ATOM	421	CD	PRO	A	54	0.493	8.477	3.074	1.00	97.75	C
ATOM	422	N	LEU	A	55	-3.297	6.207	4.812	1.00	97.31	N
ATOM	423	CA	LEU	A	55	-4.629	5.820	4.359	1.00	97.31	C
ATOM	424	C	LEU	A	55	-5.574	7.016	4.363	1.00	97.31	C
ATOM	425	CB	LEU	A	55	-5.191	4.703	5.242	1.00	97.31	C
ATOM	426	O	LEU	A	55	-5.680	7.727	5.367	1.00	97.31	O
ATOM	427	CG	LEU	A	55	-4.547	3.324	5.090	1.00	97.31	C
ATOM	428	CD1	LEU	A	55	-4.984	2.406	6.223	1.00	97.31	C
ATOM	429	CD2	LEU	A	55	-4.902	2.717	3.736	1.00	97.31	C
ATOM	430	N	THR	A	56	-6.184	7.316	3.246	1.00	97.44	N
ATOM	431	CA	THR	A	56	-7.156	8.398	3.111	1.00	97.44	C
ATOM	432	C	THR	A	56	-8.578	7.848	3.123	1.00	97.44	C
ATOM	433	CB	THR	A	56	-6.922	9.195	1.819	1.00	97.44	C
ATOM	434	O	THR	A	56	-8.875	6.852	2.457	1.00	97.44	O
ATOM	435	CG2	THR	A	56	-7.809	10.438	1.772	1.00	97.44	C
ATOM	436	OG1	THR	A	56	-5.551	9.609	1.758	1.00	97.44	O
ATOM	437	N	LYS	A	57	-9.352	8.477	3.959	1.00	96.38	N
ATOM	438	CA	LYS	A	57	-10.742	8.047	4.074	1.00	96.38	C
ATOM	439	C	LYS	A	57	-11.508	8.289	2.779	1.00	96.38	C
ATOM	440	CB	LYS	A	57	-11.430	8.758	5.238	1.00	96.38	C
ATOM	441	O	LYS	A	57	-11.539	9.414	2.279	1.00	96.38	O
ATOM	442	CG	LYS	A	57	-12.812	8.211	5.570	1.00	96.38	C
ATOM	443	CD	LYS	A	57	-13.414	8.906	6.785	1.00	96.38	C
ATOM	444	CE	LYS	A	57	-14.773	8.328	7.141	1.00	96.38	C
ATOM	445	NZ	LYS	A	57	-15.352	8.984	8.352	1.00	96.38	N
ATOM	446	N	VAL	A	58	-12.141	7.266	2.221	1.00	96.69	N
ATOM	447	CA	VAL	A	58	-12.898	7.402	0.980	1.00	96.69	C
ATOM	448	C	VAL	A	58	-14.383	7.219	1.261	1.00	96.69	C
ATOM	449	CB	VAL	A	58	-12.422	6.391	-0.089	1.00	96.69	C
ATOM	450	O	VAL	A	58	-15.227	7.781	0.560	1.00	96.69	O
ATOM	451	CG1	VAL	A	58	-11.039	6.766	-0.610	1.00	96.69	C
ATOM	452	CG2	VAL	A	58	-12.422	4.977	0.483	1.00	96.69	C
ATOM	453	N	SER	A	59	-14.703	6.414	2.244	1.00	94.88	N
ATOM	454	CA	SER	A	59	-16.062	6.250	2.744	1.00	94.88	C
ATOM	455	C	SER	A	59	-16.078	5.941	4.238	1.00	94.88	C
ATOM	456	CB	SER	A	59	-16.781	5.137	1.982	1.00	94.88	C
ATOM	457	O	SER	A	59	-15.031	6.012	4.898	1.00	94.88	O
ATOM	458	OG	SER	A	59	-16.234	3.869	2.303	1.00	94.88	O

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ATOM	459	N	ASP	A	60	-17.344	5.746	4.855	1.00	89.06	N
ATOM	460	CA	ASP	A	60	-17.531	5.633	6.297	1.00	89.06	C
ATOM	461	C	ASP	A	60	-16.562	4.625	6.898	1.00	89.06	C
ATOM	462	CB	ASP	A	60	-18.969	5.227	6.625	1.00	89.06	C
ATOM	463	O	ASP	A	60	-15.922	4.898	7.918	1.00	89.06	O
ATOM	464	CG	ASP	A	60	-19.969	6.363	6.438	1.00	89.06	C
ATOM	465	OD1	ASP	A	60	-19.547	7.539	6.371	1.00	89.06	O
ATOM	466	OD2	ASP	A	60	-21.188	6.082	6.363	1.00	89.06	O
ATOM	467	N	ASP	A	61	-16.328	3.574	6.188	1.00	92.44	N
ATOM	468	CA	ASP	A	61	-15.492	2.547	6.812	1.00	92.44	C
ATOM	469	C	ASP	A	61	-14.375	2.102	5.875	1.00	92.44	C
ATOM	470	CB	ASP	A	61	-16.344	1.346	7.223	1.00	92.44	C
ATOM	471	O	ASP	A	61	-13.742	1.071	6.105	1.00	92.44	O
ATOM	472	CG	ASP	A	61	-17.141	0.759	6.066	1.00	92.44	C
ATOM	473	OD1	ASP	A	61	-17.234	1.404	5.000	1.00	92.44	O
ATOM	474	OD2	ASP	A	61	-17.688	-0.356	6.227	1.00	92.44	O
ATOM	475	N	THR	A	62	-14.156	2.842	4.859	1.00	95.69	N
ATOM	476	CA	THR	A	62	-13.156	2.439	3.879	1.00	95.69	C
ATOM	477	C	THR	A	62	-12.094	3.525	3.709	1.00	95.69	C
ATOM	478	CB	THR	A	62	-13.797	2.129	2.514	1.00	95.69	C
ATOM	479	O	THR	A	62	-12.422	4.707	3.590	1.00	95.69	O
ATOM	480	CG2	THR	A	62	-12.758	1.621	1.519	1.00	95.69	C
ATOM	481	OG1	THR	A	62	-14.805	1.129	2.686	1.00	95.69	O
ATOM	482	N	TYR	A	63	-10.852	3.057	3.717	1.00	97.56	N
ATOM	483	CA	TYR	A	63	-9.680	3.900	3.496	1.00	97.56	C
ATOM	484	C	TYR	A	63	-8.859	3.391	2.318	1.00	97.56	C
ATOM	485	CB	TYR	A	63	-8.812	3.955	4.758	1.00	97.56	C
ATOM	486	O	TYR	A	63	-8.922	2.209	1.970	1.00	97.56	O
ATOM	487	CG	TYR	A	63	-9.500	4.590	5.938	1.00	97.56	C
ATOM	488	CD1	TYR	A	63	-9.188	5.887	6.344	1.00	97.56	C
ATOM	489	CD2	TYR	A	63	-10.469	3.896	6.656	1.00	97.56	C
ATOM	490	CE1	TYR	A	63	-9.812	6.477	7.434	1.00	97.56	C
ATOM	491	CE2	TYR	A	63	-11.109	4.477	7.750	1.00	97.56	C
ATOM	492	OH	TYR	A	63	-11.398	6.340	9.211	1.00	97.56	O
ATOM	493	CZ	TYR	A	63	-10.773	5.762	8.133	1.00	97.56	C
ATOM	494	N	GLN	A	64	-8.164	4.344	1.759	1.00	98.25	N
ATOM	495	CA	GLN	A	64	-7.422	3.957	0.561	1.00	98.25	C
ATOM	496	C	GLN	A	64	-6.012	4.535	0.575	1.00	98.25	C
ATOM	497	CB	GLN	A	64	-8.164	4.410	-0.697	1.00	98.25	C
ATOM	498	O	GLN	A	64	-5.785	5.621	1.114	1.00	98.25	O
ATOM	499	CG	GLN	A	64	-7.496	3.977	-1.995	1.00	98.25	C
ATOM	500	CD	GLN	A	64	-8.250	4.434	-3.227	1.00	98.25	C
ATOM	501	NE2	GLN	A	64	-7.695	5.406	-3.939	1.00	98.25	N
ATOM	502	OE1	GLN	A	64	-9.336	3.918	-3.535	1.00	98.25	O
ATOM	503	N	ALA	A	65	-5.090	3.750	0.045	1.00	97.56	N
ATOM	504	CA	ALA	A	65	-3.727	4.176	-0.266	1.00	97.56	C
ATOM	505	C	ALA	A	65	-3.311	3.707	-1.658	1.00	97.56	C
ATOM	506	CB	ALA	A	65	-2.750	3.645	0.782	1.00	97.56	C
ATOM	507	O	ALA	A	65	-3.748	2.652	-2.123	1.00	97.56	O
ATOM	508	N	THR	A	66	-2.576	4.625	-2.318	1.00	96.25	N
ATOM	509	CA	THR	A	66	-2.027	4.277	-3.623	1.00	96.25	C
ATOM	510	C	THR	A	66	-0.501	4.250	-3.576	1.00	96.25	C
ATOM	511	CB	THR	A	66	-2.490	5.266	-4.707	1.00	96.25	C

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ATOM	512	O	THR A 66	0.129	5.207	-3.121	1.00	96.25	O
ATOM	513	CG2	THR A 66	-1.966	4.863	-6.082	1.00	96.25	C
ATOM	514	OG1	THR A 66	-3.924	5.289	-4.742	1.00	96.25	O
ATOM	515	N	VAL A 67	0.010	3.131	-3.975	1.00	95.25	N
ATOM	516	CA	VAL A 67	1.455	2.963	-4.086	1.00	95.25	C
ATOM	517	C	VAL A 67	1.867	2.979	-5.555	1.00	95.25	C
ATOM	518	CB	VAL A 67	1.926	1.652	-3.414	1.00	95.25	C
ATOM	519	O	VAL A 67	1.339	2.211	-6.363	1.00	95.25	O
ATOM	520	CG1	VAL A 67	3.445	1.517	-3.502	1.00	95.25	C
ATOM	521	CG2	VAL A 67	1.465	1.604	-1.959	1.00	95.25	C
ATOM	522	N	THR A 68	2.822	3.932	-5.867	1.00	94.44	N
ATOM	523	CA	THR A 68	3.295	4.051	-7.242	1.00	94.44	C
ATOM	524	C	THR A 68	4.797	3.789	-7.324	1.00	94.44	C
ATOM	525	CB	THR A 68	2.982	5.445	-7.820	1.00	94.44	C
ATOM	526	O	THR A 68	5.570	4.344	-6.543	1.00	94.44	O
ATOM	527	CG2	THR A 68	3.426	5.547	-9.281	1.00	94.44	C
ATOM	528	OG1	THR A 68	1.571	5.680	-7.746	1.00	94.44	O
ATOM	529	N	GLU A 69	5.109	2.914	-8.219	1.00	92.50	N
ATOM	530	CA	GLU A 69	6.504	2.617	-8.531	1.00	92.50	C
ATOM	531	C	GLU A 69	6.777	2.740	-10.023	1.00	92.50	C
ATOM	532	CB	GLU A 69	6.875	1.214	-8.039	1.00	92.50	C
ATOM	533	O	GLU A 69	5.984	2.275	-10.852	1.00	92.50	O
ATOM	534	CG	GLU A 69	8.352	0.875	-8.211	1.00	92.50	C
ATOM	535	CD	GLU A 69	8.695	-0.540	-7.773	1.00	92.50	C
ATOM	536	OE1	GLU A 69	9.812	-1.017	-8.086	1.00	92.50	O
ATOM	537	OE2	GLU A 69	7.844	-1.175	-7.113	1.00	92.50	O
ATOM	538	N	THR A 70	7.840	3.443	-10.312	1.00	92.44	N
ATOM	539	CA	THR A 70	8.234	3.617	-11.711	1.00	92.44	C
ATOM	540	C	THR A 70	9.547	2.896	-12.000	1.00	92.44	C
ATOM	541	CB	THR A 70	8.367	5.105	-12.070	1.00	92.44	C
ATOM	542	O	THR A 70	10.492	2.988	-11.211	1.00	92.44	O
ATOM	543	CG2	THR A 70	8.688	5.289	-13.555	1.00	92.44	C
ATOM	544	OG1	THR A 70	7.141	5.781	-11.766	1.00	92.44	O
ATOM	545	N	GLU A 71	9.516	2.193	-13.078	1.00	91.44	N
ATOM	546	CA	GLU A 71	10.703	1.463	-13.500	1.00	91.44	C
ATOM	547	C	GLU A 71	11.070	1.790	-14.953	1.00	91.44	C
ATOM	548	CB	GLU A 71	10.500	-0.045	-13.344	1.00	91.44	C
ATOM	549	O	GLU A 71	10.188	1.867	-15.812	1.00	91.44	O
ATOM	550	CG	GLU A 71	11.703	-0.880	-13.734	1.00	91.44	C
ATOM	551	CD	GLU A 71	11.453	-2.377	-13.672	1.00	91.44	C
ATOM	552	OE1	GLU A 71	12.398	-3.166	-13.875	1.00	91.44	O
ATOM	553	OE2	GLU A 71	10.289	-2.764	-13.414	1.00	91.44	O
ATOM	554	N	GLU A 72	12.344	2.100	-15.133	1.00	91.50	N
ATOM	555	CA	GLU A 72	12.828	2.232	-16.500	1.00	91.50	C
ATOM	556	C	GLU A 72	13.148	0.870	-17.109	1.00	91.50	C
ATOM	557	CB	GLU A 72	14.062	3.135	-16.562	1.00	91.50	C
ATOM	558	O	GLU A 72	13.984	0.132	-16.594	1.00	91.50	O
ATOM	559	CG	GLU A 72	14.492	3.508	-17.969	1.00	91.50	C
ATOM	560	CD	GLU A 72	15.648	4.500	-18.000	1.00	91.50	C
ATOM	561	OE1	GLU A 72	16.219	4.734	-19.094	1.00	91.50	O
ATOM	562	OE2	GLU A 72	15.984	5.047	-16.922	1.00	91.50	O
ATOM	563	N	VAL A 73	12.461	0.515	-18.234	1.00	89.44	N
ATOM	564	CA	VAL A 73	12.617	-0.812	-18.828	1.00	89.44	C

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ATOM	565	C	VAL A 73	13.633	-0.757	-19.969	1.00	89.44	C
ATOM	566	CB	VAL A 73	11.266	-1.369	-19.328	1.00	89.44	C
ATOM	567	O	VAL A 73	14.328	-1.737	-20.234	1.00	89.44	O
ATOM	568	CG1	VAL A 73	10.344	-1.692	-18.156	1.00	89.44	C
ATOM	569	CG2	VAL A 73	10.609	-0.375	-20.281	1.00	89.44	C
ATOM	570	N	ALA A 74	13.742	0.337	-20.578	1.00	89.25	N
ATOM	571	CA	ALA A 74	14.703	0.668	-21.625	1.00	89.25	C
ATOM	572	C	ALA A 74	14.852	2.180	-21.766	1.00	89.25	C
ATOM	573	CB	ALA A 74	14.281	0.046	-22.953	1.00	89.25	C
ATOM	574	O	ALA A 74	14.062	2.945	-21.219	1.00	89.25	O
ATOM	575	N	PRO A 75	15.953	2.646	-22.391	1.00	91.50	N
ATOM	576	CA	PRO A 75	16.094	4.090	-22.594	1.00	91.50	C
ATOM	577	C	PRO A 75	14.883	4.711	-23.297	1.00	91.50	C
ATOM	578	CB	PRO A 75	17.344	4.211	-23.453	1.00	91.50	C
ATOM	579	O	PRO A 75	14.492	4.258	-24.375	1.00	91.50	O
ATOM	580	CG	PRO A 75	18.125	2.965	-23.172	1.00	91.50	C
ATOM	581	CD	PRO A 75	17.156	1.844	-22.938	1.00	91.50	C
ATOM	582	N	GLY A 76	14.125	5.551	-22.609	1.00	89.56	N
ATOM	583	CA	GLY A 76	12.984	6.270	-23.156	1.00	89.56	C
ATOM	584	C	GLY A 76	11.672	5.527	-22.984	1.00	89.56	C
ATOM	585	O	GLY A 76	10.633	5.973	-23.484	1.00	89.56	O
ATOM	586	N	LYS A 77	11.742	4.328	-22.266	1.00	92.56	N
ATOM	587	CA	LYS A 77	10.562	3.531	-21.953	1.00	92.56	C
ATOM	588	C	LYS A 77	10.453	3.301	-20.453	1.00	92.56	C
ATOM	589	CB	LYS A 77	10.602	2.191	-22.688	1.00	92.56	C
ATOM	590	O	LYS A 77	11.375	2.775	-19.828	1.00	92.56	O
ATOM	591	CG	LYS A 77	10.484	2.311	-24.203	1.00	92.56	C
ATOM	592	CD	LYS A 77	10.414	0.942	-24.859	1.00	92.56	C
ATOM	593	CE	LYS A 77	10.359	1.060	-26.375	1.00	92.56	C
ATOM	594	NZ	LYS A 77	10.359	-0.281	-27.047	1.00	92.56	N
ATOM	595	N	LYS A 78	9.344	3.729	-19.906	1.00	94.12	N
ATOM	596	CA	LYS A 78	9.102	3.564	-18.469	1.00	94.12	C
ATOM	597	C	LYS A 78	7.852	2.719	-18.219	1.00	94.12	C
ATOM	598	CB	LYS A 78	8.953	4.926	-17.797	1.00	94.12	C
ATOM	599	O	LYS A 78	6.945	2.680	-19.062	1.00	94.12	O
ATOM	600	CG	LYS A 78	10.219	5.773	-17.828	1.00	94.12	C
ATOM	601	CD	LYS A 78	10.031	7.086	-17.078	1.00	94.12	C
ATOM	602	CE	LYS A 78	11.297	7.930	-17.094	1.00	94.12	C
ATOM	603	NZ	LYS A 78	11.117	9.219	-16.359	1.00	94.12	N
ATOM	604	N	LYS A 79	8.008	1.979	-17.203	1.00	94.81	N
ATOM	605	CA	LYS A 79	6.824	1.260	-16.719	1.00	94.81	C
ATOM	606	C	LYS A 79	6.414	1.729	-15.336	1.00	94.81	C
ATOM	607	CB	LYS A 79	7.082	-0.247	-16.719	1.00	94.81	C
ATOM	608	O	LYS A 79	7.246	1.785	-14.422	1.00	94.81	O
ATOM	609	CG	LYS A 79	5.820	-1.091	-16.641	1.00	94.81	C
ATOM	610	CD	LYS A 79	6.117	-2.564	-16.891	1.00	94.81	C
ATOM	611	CE	LYS A 79	4.840	-3.391	-16.938	1.00	94.81	C
ATOM	612	NZ	LYS A 79	5.121	-4.836	-17.203	1.00	94.81	N
ATOM	613	N	VAL A 80	5.160	2.088	-15.180	1.00	95.12	N
ATOM	614	CA	VAL A 80	4.621	2.584	-13.914	1.00	95.12	C
ATOM	615	C	VAL A 80	3.695	1.537	-13.305	1.00	95.12	C
ATOM	616	CB	VAL A 80	3.863	3.918	-14.109	1.00	95.12	C
ATOM	617	O	VAL A 80	2.768	1.059	-13.961	1.00	95.12	O

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ATOM	618	CG1 VAL A 80	3.262	4.391	-12.789	1.00	95.12	C
ATOM	619	CG2 VAL A 80	4.797	4.980	-14.688	1.00	95.12	C
ATOM	620	N TYR A 81	3.949	1.145	-12.055	1.00	95.38	N
ATOM	621	CA TYR A 81	3.129	0.197	-11.305	1.00	95.38	C
ATOM	622	C TYR A 81	2.291	0.911	-10.258	1.00	95.38	C
ATOM	623	CB TYR A 81	4.004	-0.869	-10.641	1.00	95.38	C
ATOM	624	O TYR A 81	2.834	1.563	-9.359	1.00	95.38	O
ATOM	625	CG TYR A 81	4.906	-1.603	-11.609	1.00	95.38	C
ATOM	626	CD1 TYR A 81	4.461	-2.742	-12.273	1.00	95.38	C
ATOM	627	CD2 TYR A 81	6.199	-1.159	-11.852	1.00	95.38	C
ATOM	628	CE1 TYR A 81	5.285	-3.424	-13.164	1.00	95.38	C
ATOM	629	CE2 TYR A 81	7.035	-1.832	-12.742	1.00	95.38	C
ATOM	630	OH TYR A 81	7.391	-3.631	-14.266	1.00	95.38	O
ATOM	631	CZ TYR A 81	6.570	-2.961	-13.391	1.00	95.38	C
ATOM	632	N ASN A 82	0.996	0.767	-10.375	1.00	96.50	N
ATOM	633	CA ASN A 82	0.073	1.373	-9.422	1.00	96.50	C
ATOM	634	C ASN A 82	-0.677	0.316	-8.617	1.00	96.50	C
ATOM	635	CB ASN A 82	-0.916	2.291	-10.141	1.00	96.50	C
ATOM	636	O ASN A 82	-1.383	-0.519	-9.188	1.00	96.50	O
ATOM	637	CG ASN A 82	-0.294	3.613	-10.555	1.00	96.50	C
ATOM	638	ND2 ASN A 82	-0.782	4.184	-11.648	1.00	96.50	N
ATOM	639	OD1 ASN A 82	0.617	4.117	-9.891	1.00	96.50	O
ATOM	640	N ILE A 83	-0.475	0.332	-7.297	1.00	97.25	N
ATOM	641	CA ILE A 83	-1.222	-0.562	-6.418	1.00	97.25	C
ATOM	642	C ILE A 83	-2.156	0.251	-5.527	1.00	97.25	C
ATOM	643	CB ILE A 83	-0.275	-1.428	-5.559	1.00	97.25	C
ATOM	644	O ILE A 83	-1.701	1.068	-4.723	1.00	97.25	O
ATOM	645	CG1 ILE A 83	0.695	-2.209	-6.449	1.00	97.25	C
ATOM	646	CG2 ILE A 83	-1.077	-2.373	-4.656	1.00	97.25	C
ATOM	647	CD1 ILE A 83	1.909	-2.758	-5.711	1.00	97.25	C
ATOM	648	N VAL A 84	-3.379	0.026	-5.727	1.00	97.38	N
ATOM	649	CA VAL A 84	-4.387	0.696	-4.910	1.00	97.38	C
ATOM	650	C VAL A 84	-4.859	-0.241	-3.801	1.00	97.38	C
ATOM	651	CB VAL A 84	-5.586	1.164	-5.762	1.00	97.38	C
ATOM	652	O VAL A 84	-5.383	-1.323	-4.074	1.00	97.38	O
ATOM	653	CG1 VAL A 84	-6.602	1.913	-4.898	1.00	97.38	C
ATOM	654	CG2 VAL A 84	-5.113	2.043	-6.918	1.00	97.38	C
ATOM	655	N ILE A 85	-4.703	0.170	-2.547	1.00	97.81	N
ATOM	656	CA ILE A 85	-5.098	-0.656	-1.412	1.00	97.81	C
ATOM	657	C ILE A 85	-6.316	-0.039	-0.726	1.00	97.81	C
ATOM	658	CB ILE A 85	-3.941	-0.823	-0.402	1.00	97.81	C
ATOM	659	O ILE A 85	-6.230	1.056	-0.163	1.00	97.81	O
ATOM	660	CG1 ILE A 85	-2.707	-1.405	-1.098	1.00	97.81	C
ATOM	661	CG2 ILE A 85	-4.375	-1.704	0.774	1.00	97.81	C
ATOM	662	CD1 ILE A 85	-1.441	-1.360	-0.251	1.00	97.81	C
ATOM	663	N ASN A 86	-7.434	-0.725	-0.860	1.00	97.50	N
ATOM	664	CA ASN A 86	-8.641	-0.354	-0.132	1.00	97.50	C
ATOM	665	C ASN A 86	-8.766	-1.121	1.182	1.00	97.50	C
ATOM	666	CB ASN A 86	-9.883	-0.584	-0.999	1.00	97.50	C
ATOM	667	O ASN A 86	-8.766	-2.354	1.188	1.00	97.50	O
ATOM	668	CG ASN A 86	-9.969	0.382	-2.164	1.00	97.50	C
ATOM	669	ND2 ASN A 86	-10.328	-0.133	-3.334	1.00	97.50	N
ATOM	670	OD1 ASN A 86	-9.711	1.579	-2.014	1.00	97.50	O

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ATOM	671	N	VAL A 87	-8.883	-0.331	2.217	1.00	97.38	N
ATOM	672	CA	VAL A 87	-8.953	-0.971	3.525	1.00	97.38	C
ATOM	673	C	VAL A 87	-10.305	-0.673	4.172	1.00	97.38	C
ATOM	674	CB	VAL A 87	-7.809	-0.506	4.449	1.00	97.38	C
ATOM	675	O	VAL A 87	-10.648	0.489	4.402	1.00	97.38	O
ATOM	676	CG1	VAL A 87	-7.812	-1.295	5.758	1.00	97.38	C
ATOM	677	CG2	VAL A 87	-6.461	-0.651	3.742	1.00	97.38	C
ATOM	678	N	LYS A 88	-11.070	-1.718	4.336	1.00	96.62	N
ATOM	679	CA	LYS A 88	-12.289	-1.600	5.133	1.00	96.62	C
ATOM	680	C	LYS A 88	-12.008	-1.823	6.613	1.00	96.62	C
ATOM	681	CB	LYS A 88	-13.352	-2.594	4.645	1.00	96.62	C
ATOM	682	O	LYS A 88	-11.617	-2.922	7.016	1.00	96.62	O
ATOM	683	CG	LYS A 88	-14.727	-2.385	5.262	1.00	96.62	C
ATOM	684	CD	LYS A 88	-15.750	-3.338	4.664	1.00	96.62	C
ATOM	685	CE	LYS A 88	-17.141	-3.096	5.246	1.00	96.62	C
ATOM	686	NZ	LYS A 88	-18.156	-4.035	4.672	1.00	96.62	N
ATOM	687	N	ILE A 89	-12.125	-0.737	7.434	1.00	95.12	N
ATOM	688	CA	ILE A 89	-11.836	-0.848	8.859	1.00	95.12	C
ATOM	689	C	ILE A 89	-13.125	-1.111	9.633	1.00	95.12	C
ATOM	690	CB	ILE A 89	-11.141	0.425	9.391	1.00	95.12	C
ATOM	691	O	ILE A 89	-14.023	-0.270	9.656	1.00	95.12	O
ATOM	692	CG1	ILE A 89	-9.828	0.674	8.633	1.00	95.12	C
ATOM	693	CG2	ILE A 89	-10.891	0.312	10.898	1.00	95.12	C
ATOM	694	CD1	ILE A 89	-9.102	1.946	9.055	1.00	95.12	C
ATOM	695	N	LEU A 90	-13.258	-2.361	10.211	1.00	93.19	N
ATOM	696	CA	LEU A 90	-14.438	-2.805	10.938	1.00	93.19	C
ATOM	697	C	LEU A 90	-14.344	-2.416	12.414	1.00	93.19	C
ATOM	698	CB	LEU A 90	-14.609	-4.320	10.812	1.00	93.19	C
ATOM	699	O	LEU A 90	-13.250	-2.369	12.977	1.00	93.19	O
ATOM	700	CG	LEU A 90	-14.617	-4.883	9.383	1.00	93.19	C
ATOM	701	CD1	LEU A 90	-14.578	-6.406	9.422	1.00	93.19	C
ATOM	702	CD2	LEU A 90	-15.844	-4.387	8.625	1.00	93.19	C
ATOM	703	N	LYS A 91	-15.422	-1.953	13.016	1.00	86.81	N
ATOM	704	CA	LYS A 91	-15.469	-1.647	14.445	1.00	86.81	C
ATOM	705	C	LYS A 91	-15.469	-2.924	15.281	1.00	86.81	C
ATOM	706	CB	LYS A 91	-16.703	-0.804	14.773	1.00	86.81	C
ATOM	707	O	LYS A 91	-16.031	-3.943	14.867	1.00	86.81	O
ATOM	708	CG	LYS A 91	-16.672	0.589	14.156	1.00	86.81	C
ATOM	709	CD	LYS A 91	-17.828	1.443	14.672	1.00	86.81	C
ATOM	710	CE	LYS A 91	-17.828	2.830	14.039	1.00	86.81	C
ATOM	711	NZ	LYS A 91	-18.969	3.658	14.516	1.00	86.81	N
ATOM	712	N	LYS A 92	-14.594	-3.018	16.281	1.00	74.94	N
ATOM	713	CA	LYS A 92	-14.562	-4.176	17.172	1.00	74.94	C
ATOM	714	C	LYS A 92	-15.898	-4.371	17.875	1.00	74.94	C
ATOM	715	CB	LYS A 92	-13.445	-4.023	18.203	1.00	74.94	C
ATOM	716	O	LYS A 92	-16.578	-3.398	18.234	1.00	74.94	O
ATOM	717	CG	LYS A 92	-12.078	-4.488	17.719	1.00	74.94	C
ATOM	718	CD	LYS A 92	-11.062	-4.527	18.859	1.00	74.94	C
ATOM	719	CE	LYS A 92	-9.688	-4.930	18.359	1.00	74.94	C
ATOM	720	NZ	LYS A 92	-8.695	-4.996	19.484	1.00	74.94	N
ATOM	721	N	LYS A 93	-16.562	-5.535	17.688	1.00	57.88	N
ATOM	722	CA	LYS A 93	-17.781	-5.875	18.391	1.00	57.88	C
ATOM	723	C	LYS A 93	-17.547	-5.938	19.891	1.00	57.88	C

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ATOM	724	CB	LYS	A	93	-18.344	-7.211	17.891	1.00	57.88	C
ATOM	725	O	LYS	A	93	-16.547	-6.480	20.359	1.00	57.88	O
ATOM	726	CG	LYS	A	93	-19.828	-7.180	17.578	1.00	57.88	C
ATOM	727	CD	LYS	A	93	-20.312	-8.523	17.047	1.00	57.88	C
ATOM	728	CE	LYS	A	93	-21.797	-8.492	16.703	1.00	57.88	C
ATOM	729	NZ	LYS	A	93	-22.297	-9.828	16.281	1.00	57.88	N
ATOM	730	N	VAL	A	94	-18.031	-4.938	20.656	1.00	60.88	N
ATOM	731	CA	VAL	A	94	-18.016	-4.941	22.125	1.00	60.88	C
ATOM	732	C	VAL	A	94	-18.906	-6.070	22.641	1.00	60.88	C
ATOM	733	CB	VAL	A	94	-18.484	-3.586	22.688	1.00	60.88	C
ATOM	734	O	VAL	A	94	-20.047	-6.223	22.203	1.00	60.88	O
ATOM	735	CG1	VAL	A	94	-18.328	-3.557	24.219	1.00	60.88	C
ATOM	736	CG2	VAL	A	94	-17.719	-2.438	22.047	1.00	60.88	C
ATOM	737	N	LEU	A	95	-18.359	-7.242	23.016	1.00	50.00	N
ATOM	738	CA	LEU	A	95	-19.062	-8.297	23.719	1.00	50.00	C
ATOM	739	C	LEU	A	95	-19.719	-7.762	24.984	1.00	50.00	C
ATOM	740	CB	LEU	A	95	-18.109	-9.438	24.078	1.00	50.00	C
ATOM	741	O	LEU	A	95	-19.141	-6.926	25.688	1.00	50.00	O
ATOM	742	CG	LEU	A	95	-17.844	-10.469	22.969	1.00	50.00	C
ATOM	743	CD1	LEU	A	95	-16.359	-10.789	22.891	1.00	50.00	C
ATOM	744	CD2	LEU	A	95	-18.641	-11.742	23.234	1.00	50.00	C
TER											
ENDMDL											
MODEL 1											
ATOM	1	N	MET	A	1	32.188	0.732	-29.219	1.00	86.88	N
ATOM	2	CA	MET	A	1	31.625	0.379	-27.922	1.00	86.88	C
ATOM	3	C	MET	A	1	30.188	0.873	-27.781	1.00	86.88	C
ATOM	4	CB	MET	A	1	32.500	0.960	-26.797	1.00	86.88	C
ATOM	5	O	MET	A	1	29.906	2.033	-28.078	1.00	86.88	O
ATOM	6	CG	MET	A	1	32.000	0.582	-25.391	1.00	86.88	C
ATOM	7	SD	MET	A	1	33.094	1.244	-24.078	1.00	86.88	S
ATOM	8	CE	MET	A	1	34.062	-0.237	-23.688	1.00	86.88	C
ATOM	9	N	LYS	A	2	29.203	0.037	-27.609	1.00	89.50	N
ATOM	10	CA	LYS	A	2	27.797	0.307	-27.328	1.00	89.50	C
ATOM	11	C	LYS	A	2	27.438	-0.030	-25.891	1.00	89.50	C
ATOM	12	CB	LYS	A	2	26.906	-0.482	-28.297	1.00	89.50	C
ATOM	13	O	LYS	A	2	27.781	-1.108	-25.391	1.00	89.50	O
ATOM	14	CG	LYS	A	2	25.422	-0.166	-28.156	1.00	89.50	C
ATOM	15	CD	LYS	A	2	24.594	-0.911	-29.203	1.00	89.50	C
ATOM	16	CE	LYS	A	2	23.109	-0.582	-29.078	1.00	89.50	C
ATOM	17	NZ	LYS	A	2	22.297	-1.313	-30.094	1.00	89.50	N
ATOM	18	N	VAL	A	3	26.953	1.003	-25.141	1.00	91.50	N
ATOM	19	CA	VAL	A	3	26.531	0.823	-23.750	1.00	91.50	C
ATOM	20	C	VAL	A	3	25.000	0.834	-23.688	1.00	91.50	C
ATOM	21	CB	VAL	A	3	27.109	1.914	-22.828	1.00	91.50	C
ATOM	22	O	VAL	A	3	24.359	1.761	-24.188	1.00	91.50	O
ATOM	23	CG1	VAL	A	3	26.656	1.692	-21.391	1.00	91.50	C
ATOM	24	CG2	VAL	A	3	28.641	1.935	-22.922	1.00	91.50	C
ATOM	25	N	ILE	A	4	24.391	-0.156	-23.156	1.00	91.75	N
ATOM	26	CA	ILE	A	4	22.953	-0.276	-22.922	1.00	91.75	C
ATOM	27	C	ILE	A	4	22.672	-0.204	-21.422	1.00	91.75	C
ATOM	28	CB	ILE	A	4	22.406	-1.590	-23.516	1.00	91.75	C
ATOM	29	O	ILE	A	4	23.266	-0.936	-20.625	1.00	91.75	O

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ATOM	30	CG1 ILE A	4	22.688	-1.660	-25.016	1.00	91.75	C
ATOM	31	CG2 ILE A	4	20.906	-1.716	-23.219	1.00	91.75	C
ATOM	32	CD1 ILE A	4	22.438	-3.033	-25.625	1.00	91.75	C
ATOM	33	N LYS A	5	21.766	0.818	-21.094	1.00	92.31	N
ATOM	34	CA LYS A	5	21.359	0.940	-19.688	1.00	92.31	C
ATOM	35	C LYS A	5	19.938	0.420	-19.500	1.00	92.31	C
ATOM	36	CB LYS A	5	21.453	2.395	-19.234	1.00	92.31	C
ATOM	37	O LYS A	5	19.016	0.822	-20.203	1.00	92.31	O
ATOM	38	CG LYS A	5	22.875	2.930	-19.156	1.00	92.31	C
ATOM	39	CD LYS A	5	22.906	4.355	-18.625	1.00	92.31	C
ATOM	40	CE LYS A	5	24.328	4.910	-18.594	1.00	92.31	C
ATOM	41	NZ LYS A	5	24.359	6.320	-18.109	1.00	92.31	N
ATOM	42	N GLU A	6	19.781	-0.533	-18.641	1.00	92.81	N
ATOM	43	CA GLU A	6	18.484	-1.090	-18.297	1.00	92.81	C
ATOM	44	C GLU A	6	18.172	-0.858	-16.812	1.00	92.81	C
ATOM	45	CB GLU A	6	18.438	-2.586	-18.609	1.00	92.81	C
ATOM	46	O GLU A	6	18.984	-1.178	-15.945	1.00	92.81	O
ATOM	47	CG GLU A	6	18.578	-2.904	-20.094	1.00	92.81	C
ATOM	48	CD GLU A	6	18.484	-4.391	-20.391	1.00	92.81	C
ATOM	49	OE1 GLU A	6	18.219	-4.750	-21.562	1.00	92.81	O
ATOM	50	OE2 GLU A	6	18.672	-5.199	-19.469	1.00	92.81	O
ATOM	51	N GLU A	7	17.031	-0.216	-16.594	1.00	91.62	N
ATOM	52	CA GLU A	7	16.594	0.049	-15.227	1.00	91.62	C
ATOM	53	C GLU A	7	15.219	-0.543	-14.961	1.00	91.62	C
ATOM	54	CB GLU A	7	16.594	1.554	-14.945	1.00	91.62	C
ATOM	55	O GLU A	7	14.305	-0.375	-15.773	1.00	91.62	O
ATOM	56	CG GLU A	7	17.969	2.201	-15.008	1.00	91.62	C
ATOM	57	CD GLU A	7	17.953	3.682	-14.656	1.00	91.62	C
ATOM	58	OE1 GLU A	7	19.031	4.281	-14.500	1.00	91.62	O
ATOM	59	OE2 GLU A	7	16.844	4.246	-14.539	1.00	91.62	O
ATOM	60	N LYS A	8	15.172	-1.225	-13.938	1.00	90.31	N
ATOM	61	CA LYS A	8	13.906	-1.830	-13.523	1.00	90.31	C
ATOM	62	C LYS A	8	13.664	-1.624	-12.031	1.00	90.31	C
ATOM	63	CB LYS A	8	13.898	-3.322	-13.859	1.00	90.31	C
ATOM	64	O LYS A	8	14.555	-1.856	-11.211	1.00	90.31	O
ATOM	65	CG LYS A	8	12.570	-4.012	-13.562	1.00	90.31	C
ATOM	66	CD LYS A	8	12.625	-5.496	-13.906	1.00	90.31	C
ATOM	67	CE LYS A	8	11.320	-6.195	-13.555	1.00	90.31	C
ATOM	68	NZ LYS A	8	11.367	-7.652	-13.891	1.00	90.31	N
ATOM	69	N THR A	9	12.523	-1.135	-11.734	1.00	90.75	N
ATOM	70	CA THR A	9	12.125	-0.975	-10.344	1.00	90.75	C
ATOM	71	C THR A	9	10.898	-1.831	-10.031	1.00	90.75	C
ATOM	72	CB THR A	9	11.820	0.498	-10.016	1.00	90.75	C
ATOM	73	O THR A	9	9.906	-1.785	-10.750	1.00	90.75	O
ATOM	74	CG2 THR A	9	11.430	0.665	-8.547	1.00	90.75	C
ATOM	75	OG1 THR A	9	12.992	1.289	-10.273	1.00	90.75	O
ATOM	76	N THR A	10	11.023	-2.604	-9.023	1.00	92.88	N
ATOM	77	CA THR A	10	9.930	-3.447	-8.555	1.00	92.88	C
ATOM	78	C THR A	10	9.516	-3.055	-7.141	1.00	92.88	C
ATOM	79	CB THR A	10	10.328	-4.938	-8.586	1.00	92.88	C
ATOM	80	O THR A	10	10.367	-2.805	-6.285	1.00	92.88	O
ATOM	81	CG2 THR A	10	9.156	-5.820	-8.164	1.00	92.88	C
ATOM	82	OG1 THR A	10	10.727	-5.293	-9.914	1.00	92.88	O

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ATOM	83	N	ILE A 11	8.234	-3.018	-6.918	1.00	93.31	N
ATOM	84	CA	ILE A 11	7.707	-2.715	-5.594	1.00	93.31	C
ATOM	85	C	ILE A 11	6.938	-3.918	-5.055	1.00	93.31	C
ATOM	86	CB	ILE A 11	6.801	-1.464	-5.617	1.00	93.31	C
ATOM	87	O	ILE A 11	6.023	-4.422	-5.711	1.00	93.31	O
ATOM	88	CG1	ILE A 11	7.547	-0.276	-6.234	1.00	93.31	C
ATOM	89	CG2	ILE A 11	6.309	-1.128	-4.207	1.00	93.31	C
ATOM	90	CD1	ILE A 11	6.676	0.950	-6.465	1.00	93.31	C
ATOM	91	N	ASN A 12	7.410	-4.359	-3.840	1.00	94.38	N
ATOM	92	CA	ASN A 12	6.750	-5.480	-3.182	1.00	94.38	C
ATOM	93	C	ASN A 12	5.980	-5.027	-1.943	1.00	94.38	C
ATOM	94	CB	ASN A 12	7.766	-6.562	-2.809	1.00	94.38	C
ATOM	95	O	ASN A 12	6.543	-4.371	-1.063	1.00	94.38	O
ATOM	96	CG	ASN A 12	8.508	-7.105	-4.012	1.00	94.38	C
ATOM	97	ND2	ASN A 12	9.820	-7.246	-3.885	1.00	94.38	N
ATOM	98	OD1	ASN A 12	7.906	-7.391	-5.051	1.00	94.38	O
ATOM	99	N	PHE A 13	4.637	-5.387	-1.970	1.00	94.81	N
ATOM	100	CA	PHE A 13	3.809	-5.141	-0.794	1.00	94.81	C
ATOM	101	C	PHE A 13	3.562	-6.438	-0.029	1.00	94.81	C
ATOM	102	CB	PHE A 13	2.475	-4.508	-1.198	1.00	94.81	C
ATOM	103	O	PHE A 13	3.033	-7.402	-0.585	1.00	94.81	O
ATOM	104	CG	PHE A 13	2.611	-3.135	-1.799	1.00	94.81	C
ATOM	105	CD1	PHE A 13	2.533	-2.002	-1.000	1.00	94.81	C
ATOM	106	CD2	PHE A 13	2.818	-2.979	-3.164	1.00	94.81	C
ATOM	107	CE1	PHE A 13	2.660	-0.729	-1.554	1.00	94.81	C
ATOM	108	CE2	PHE A 13	2.945	-1.711	-3.725	1.00	94.81	C
ATOM	109	CZ	PHE A 13	2.865	-0.587	-2.918	1.00	94.81	C
ATOM	110	N	ASN A 14	4.047	-6.430	1.231	1.00	96.19	N
ATOM	111	CA	ASN A 14	3.762	-7.523	2.154	1.00	96.19	C
ATOM	112	C	ASN A 14	2.896	-7.059	3.322	1.00	96.19	C
ATOM	113	CB	ASN A 14	5.062	-8.141	2.670	1.00	96.19	C
ATOM	114	O	ASN A 14	3.398	-6.457	4.273	1.00	96.19	O
ATOM	115	CG	ASN A 14	5.934	-8.688	1.554	1.00	96.19	C
ATOM	116	ND2	ASN A 14	7.168	-8.195	1.474	1.00	96.19	N
ATOM	117	OD1	ASN A 14	5.500	-9.531	0.770	1.00	96.19	O
ATOM	118	N	ILE A 15	1.525	-7.438	3.207	1.00	97.06	N
ATOM	119	CA	ILE A 15	0.595	-6.918	4.203	1.00	97.06	C
ATOM	120	C	ILE A 15	0.107	-8.055	5.098	1.00	97.06	C
ATOM	121	CB	ILE A 15	-0.605	-6.207	3.539	1.00	97.06	C
ATOM	122	O	ILE A 15	-0.584	-8.961	4.633	1.00	97.06	O
ATOM	123	CG1	ILE A 15	-0.114	-5.188	2.504	1.00	97.06	C
ATOM	124	CG2	ILE A 15	-1.486	-5.531	4.594	1.00	97.06	C
ATOM	125	CD1	ILE A 15	-1.212	-4.648	1.596	1.00	97.06	C
ATOM	126	N	THR A 16	0.492	-7.918	6.355	1.00	97.31	N
ATOM	127	CA	THR A 16	0.133	-8.938	7.332	1.00	97.31	C
ATOM	128	C	THR A 16	-0.959	-8.430	8.273	1.00	97.31	C
ATOM	129	CB	THR A 16	1.356	-9.383	8.156	1.00	97.31	C
ATOM	130	O	THR A 16	-0.826	-7.359	8.867	1.00	97.31	O
ATOM	131	CG2	THR A 16	0.990	-10.492	9.133	1.00	97.31	C
ATOM	132	OG1	THR A 16	2.377	-9.859	7.270	1.00	97.31	O
ATOM	133	N	PHE A 17	-2.072	-9.234	8.320	1.00	97.25	N
ATOM	134	CA	PHE A 17	-3.189	-8.891	9.195	1.00	97.25	C
ATOM	135	C	PHE A 17	-3.262	-9.852	10.383	1.00	97.25	C

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ATOM	136	CB	PHE A 17	-4.508	-8.914	8.422	1.00	97.25	C
ATOM	137	O	PHE A 17	-3.221	-11.070	10.203	1.00	97.25	O
ATOM	138	CG	PHE A 17	-4.547	-7.957	7.262	1.00	97.25	C
ATOM	139	CD1	PHE A 17	-4.977	-6.648	7.438	1.00	97.25	C
ATOM	140	CD2	PHE A 17	-4.152	-8.367	5.992	1.00	97.25	C
ATOM	141	CE1	PHE A 17	-5.012	-5.758	6.367	1.00	97.25	C
ATOM	142	CE2	PHE A 17	-4.184	-7.484	4.918	1.00	97.25	C
ATOM	143	CZ	PHE A 17	-4.617	-6.180	5.105	1.00	97.25	C
ATOM	144	N	LYS A 18	-3.328	-9.219	11.516	1.00	96.19	N
ATOM	145	CA	LYS A 18	-3.557	-9.984	12.734	1.00	96.19	C
ATOM	146	C	LYS A 18	-4.887	-9.609	13.383	1.00	96.19	C
ATOM	147	CB	LYS A 18	-2.412	-9.773	13.727	1.00	96.19	C
ATOM	148	O	LYS A 18	-5.156	-8.430	13.609	1.00	96.19	O
ATOM	149	CG	LYS A 18	-2.488	-10.656	14.961	1.00	96.19	C
ATOM	150	CD	LYS A 18	-1.299	-10.430	15.891	1.00	96.19	C
ATOM	151	CE	LYS A 18	-1.394	-11.289	17.141	1.00	96.19	C
ATOM	152	NZ	LYS A 18	-0.231	-11.070	18.047	1.00	96.19	N
ATOM	153	N	ALA A 19	-5.715	-10.664	13.617	1.00	95.31	N
ATOM	154	CA	ALA A 19	-7.031	-10.414	14.203	1.00	95.31	C
ATOM	155	C	ALA A 19	-6.992	-10.508	15.719	1.00	95.31	C
ATOM	156	CB	ALA A 19	-8.062	-11.391	13.633	1.00	95.31	C
ATOM	157	O	ALA A 19	-6.547	-11.516	16.266	1.00	95.31	O
ATOM	158	N	ASP A 20	-7.285	-9.422	16.406	1.00	93.75	N
ATOM	159	CA	ASP A 20	-7.516	-9.352	17.844	1.00	93.75	C
ATOM	160	C	ASP A 20	-8.977	-9.039	18.141	1.00	93.75	C
ATOM	161	CB	ASP A 20	-6.609	-8.297	18.484	1.00	93.75	C
ATOM	162	O	ASP A 20	-9.328	-7.902	18.453	1.00	93.75	O
ATOM	163	CG	ASP A 20	-6.648	-8.320	20.000	1.00	93.75	C
ATOM	164	OD1	ASP A 20	-7.184	-9.289	20.578	1.00	93.75	O
ATOM	165	OD2	ASP A 20	-6.137	-7.363	20.609	1.00	93.75	O
ATOM	166	N	LEU A 21	-9.867	-10.000	17.797	1.00	91.12	N
ATOM	167	CA	LEU A 21	-11.312	-9.812	17.859	1.00	91.12	C
ATOM	168	C	LEU A 21	-11.906	-10.562	19.047	1.00	91.12	C
ATOM	169	CB	LEU A 21	-11.969	-10.281	16.547	1.00	91.12	C
ATOM	170	O	LEU A 21	-11.336	-11.555	19.500	1.00	91.12	O
ATOM	171	CG	LEU A 21	-11.500	-9.602	15.266	1.00	91.12	C
ATOM	172	CD1	LEU A 21	-11.977	-10.375	14.047	1.00	91.12	C
ATOM	173	CD2	LEU A 21	-11.984	-8.156	15.219	1.00	91.12	C
ATOM	174	N	PRO A 22	-13.031	-10.055	19.609	1.00	87.12	N
ATOM	175	CA	PRO A 22	-13.750	-10.859	20.594	1.00	87.12	C
ATOM	176	C	PRO A 22	-14.141	-12.234	20.062	1.00	87.12	C
ATOM	177	CB	PRO A 22	-14.992	-10.016	20.891	1.00	87.12	C
ATOM	178	O	PRO A 22	-14.305	-12.406	18.859	1.00	87.12	O
ATOM	179	CG	PRO A 22	-14.641	-8.633	20.438	1.00	87.12	C
ATOM	180	CD	PRO A 22	-13.648	-8.742	19.312	1.00	87.12	C
ATOM	181	N	GLU A 23	-14.258	-13.211	21.000	1.00	87.44	N
ATOM	182	CA	GLU A 23	-14.602	-14.578	20.609	1.00	87.44	C
ATOM	183	C	GLU A 23	-15.898	-14.609	19.812	1.00	87.44	C
ATOM	184	CB	GLU A 23	-14.719	-15.477	21.844	1.00	87.44	C
ATOM	185	O	GLU A 23	-16.859	-13.922	20.156	1.00	87.44	O
ATOM	186	CG	GLU A 23	-13.383	-15.898	22.422	1.00	87.44	C
ATOM	187	CD	GLU A 23	-13.508	-16.922	23.531	1.00	87.44	C
ATOM	188	OE1	GLU A 23	-12.469	-17.469	23.984	1.00	87.44	O

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ATOM	189	OE2 GLU A 23	-14.656	-17.203	23.953	1.00	87.44	O
ATOM	190	N GLY A 24	-15.805	-15.328	18.609	1.00	86.00	N
ATOM	191	CA GLY A 24	-17.016	-15.531	17.828	1.00	86.00	C
ATOM	192	C GLY A 24	-17.250	-14.453	16.781	1.00	86.00	C
ATOM	193	O GLY A 24	-18.219	-14.516	16.031	1.00	86.00	O
ATOM	194	N GLN A 25	-16.328	-13.422	16.703	1.00	89.44	N
ATOM	195	CA GLN A 25	-16.406	-12.359	15.711	1.00	89.44	C
ATOM	196	C GLN A 25	-15.438	-12.625	14.555	1.00	89.44	C
ATOM	197	CB GLN A 25	-16.109	-11.000	16.344	1.00	89.44	C
ATOM	198	O GLN A 25	-14.430	-13.320	14.727	1.00	89.44	O
ATOM	199	CG GLN A 25	-17.266	-10.430	17.141	1.00	89.44	C
ATOM	200	CD GLN A 25	-17.094	-8.953	17.469	1.00	89.44	C
ATOM	201	NE2 GLN A 25	-17.438	-8.570	18.688	1.00	89.44	N
ATOM	202	OE1 GLN A 25	-16.641	-8.172	16.625	1.00	89.44	O
ATOM	203	N THR A 26	-15.828	-12.188	13.383	1.00	94.00	N
ATOM	204	CA THR A 26	-14.984	-12.250	12.203	1.00	94.00	C
ATOM	205	C THR A 26	-14.766	-10.859	11.617	1.00	94.00	C
ATOM	206	CB THR A 26	-15.586	-13.180	11.133	1.00	94.00	C
ATOM	207	O THR A 26	-15.539	-9.945	11.875	1.00	94.00	O
ATOM	208	CG2 THR A 26	-15.742	-14.602	11.656	1.00	94.00	C
ATOM	209	OG1 THR A 26	-16.875	-12.672	10.750	1.00	94.00	O
ATOM	210	N ALA A 27	-13.633	-10.695	10.961	1.00	95.12	N
ATOM	211	CA ALA A 27	-13.344	-9.477	10.211	1.00	95.12	C
ATOM	212	C ALA A 27	-13.117	-9.773	8.734	1.00	95.12	C
ATOM	213	CB ALA A 27	-12.125	-8.766	10.797	1.00	95.12	C
ATOM	214	O ALA A 27	-12.609	-10.844	8.383	1.00	95.12	O
ATOM	215	N THR A 28	-13.648	-8.914	7.918	1.00	96.56	N
ATOM	216	CA THR A 28	-13.398	-9.008	6.480	1.00	96.56	C
ATOM	217	C THR A 28	-12.453	-7.902	6.023	1.00	96.56	C
ATOM	218	CB THR A 28	-14.719	-8.922	5.684	1.00	96.56	C
ATOM	219	O THR A 28	-12.633	-6.734	6.375	1.00	96.56	O
ATOM	220	CG2 THR A 28	-14.461	-9.094	4.188	1.00	96.56	C
ATOM	221	OG1 THR A 28	-15.609	-9.953	6.129	1.00	96.56	O
ATOM	222	N VAL A 29	-11.391	-8.336	5.297	1.00	97.12	N
ATOM	223	CA VAL A 29	-10.398	-7.395	4.805	1.00	97.12	C
ATOM	224	C VAL A 29	-10.398	-7.383	3.279	1.00	97.12	C
ATOM	225	CB VAL A 29	-8.984	-7.734	5.332	1.00	97.12	C
ATOM	226	O VAL A 29	-10.234	-8.430	2.645	1.00	97.12	O
ATOM	227	CG1 VAL A 29	-7.965	-6.703	4.855	1.00	97.12	C
ATOM	228	CG2 VAL A 29	-8.992	-7.816	6.859	1.00	97.12	C
ATOM	229	N LYS A 30	-10.672	-6.223	2.736	1.00	97.62	N
ATOM	230	CA LYS A 30	-10.555	-6.008	1.297	1.00	97.62	C
ATOM	231	C LYS A 30	-9.312	-5.195	0.962	1.00	97.62	C
ATOM	232	CB LYS A 30	-11.805	-5.305	0.756	1.00	97.62	C
ATOM	233	O LYS A 30	-9.148	-4.070	1.439	1.00	97.62	O
ATOM	234	CG LYS A 30	-11.844	-5.207	-0.762	1.00	97.62	C
ATOM	235	CD LYS A 30	-13.133	-4.543	-1.241	1.00	97.62	C
ATOM	236	CE LYS A 30	-13.172	-4.426	-2.760	1.00	97.62	C
ATOM	237	NZ LYS A 30	-14.438	-3.803	-3.236	1.00	97.62	N
ATOM	238	N VAL A 31	-8.422	-5.789	0.136	1.00	97.50	N
ATOM	239	CA VAL A 31	-7.176	-5.137	-0.245	1.00	97.50	C
ATOM	240	C VAL A 31	-7.164	-4.883	-1.750	1.00	97.50	C
ATOM	241	CB VAL A 31	-5.945	-5.980	0.162	1.00	97.50	C

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ATOM	242	O	VAL A 31	-7.371	-5.801	-2.543	1.00	97.50	O
ATOM	243	CG1	VAL A 31	-4.652	-5.199	-0.068	1.00	97.50	C
ATOM	244	CG2	VAL A 31	-6.059	-6.414	1.622	1.00	97.50	C
ATOM	245	N	GLN A 32	-6.906	-3.641	-2.135	1.00	97.44	N
ATOM	246	CA	GLN A 32	-6.887	-3.256	-3.543	1.00	97.44	C
ATOM	247	C	GLN A 32	-5.562	-2.594	-3.912	1.00	97.44	C
ATOM	248	CB	GLN A 32	-8.047	-2.316	-3.861	1.00	97.44	C
ATOM	249	O	GLN A 32	-5.105	-1.678	-3.223	1.00	97.44	O
ATOM	250	CG	GLN A 32	-9.422	-2.939	-3.643	1.00	97.44	C
ATOM	251	CD	GLN A 32	-10.555	-1.967	-3.906	1.00	97.44	C
ATOM	252	NE2	GLN A 32	-11.453	-2.336	-4.812	1.00	97.44	N
ATOM	253	OE1	GLN A 32	-10.625	-0.893	-3.299	1.00	97.44	O
ATOM	254	N	LEU A 33	-4.930	-3.168	-4.945	1.00	96.44	N
ATOM	255	CA	LEU A 33	-3.764	-2.520	-5.539	1.00	96.44	C
ATOM	256	C	LEU A 33	-4.168	-1.665	-6.734	1.00	96.44	C
ATOM	257	CB	LEU A 33	-2.729	-3.562	-5.969	1.00	96.44	C
ATOM	258	O	LEU A 33	-4.727	-2.176	-7.707	1.00	96.44	O
ATOM	259	CG	LEU A 33	-1.480	-3.031	-6.672	1.00	96.44	C
ATOM	260	CD1	LEU A 33	-0.620	-2.232	-5.699	1.00	96.44	C
ATOM	261	CD2	LEU A 33	-0.683	-4.176	-7.285	1.00	96.44	C
ATOM	262	N	ILE A 34	-3.902	-0.372	-6.668	1.00	95.56	N
ATOM	263	CA	ILE A 34	-4.234	0.596	-7.707	1.00	95.56	C
ATOM	264	C	ILE A 34	-2.959	1.254	-8.227	1.00	95.56	C
ATOM	265	CB	ILE A 34	-5.219	1.668	-7.184	1.00	95.56	C
ATOM	266	O	ILE A 34	-2.189	1.830	-7.449	1.00	95.56	O
ATOM	267	CG1	ILE A 34	-6.480	1.007	-6.617	1.00	95.56	C
ATOM	268	CG2	ILE A 34	-5.570	2.660	-8.297	1.00	95.56	C
ATOM	269	CD1	ILE A 34	-7.266	1.893	-5.664	1.00	95.56	C
ATOM	270	N	ALA A 35	-2.705	1.072	-9.453	1.00	93.50	N
ATOM	271	CA	ALA A 35	-1.541	1.686	-10.094	1.00	93.50	C
ATOM	272	C	ALA A 35	-1.966	2.680	-11.172	1.00	93.50	C
ATOM	273	CB	ALA A 35	-0.635	0.612	-10.688	1.00	93.50	C
ATOM	274	O	ALA A 35	-2.734	2.336	-12.070	1.00	93.50	O
ATOM	275	N	ASP A 36	-1.548	4.027	-10.992	1.00	92.62	N
ATOM	276	CA	ASP A 36	-1.854	5.113	-11.922	1.00	92.62	C
ATOM	277	C	ASP A 36	-3.361	5.250	-12.125	1.00	92.62	C
ATOM	278	CB	ASP A 36	-1.158	4.883	-13.266	1.00	92.62	C
ATOM	279	O	ASP A 36	-3.820	5.488	-13.242	1.00	92.62	O
ATOM	280	CG	ASP A 36	0.350	5.043	-13.180	1.00	92.62	C
ATOM	281	OD1	ASP A 36	0.843	5.723	-12.258	1.00	92.62	O
ATOM	282	OD2	ASP A 36	1.050	4.488	-14.055	1.00	92.62	O
ATOM	283	N	GLY A 37	-4.086	4.914	-11.086	1.00	92.75	N
ATOM	284	CA	GLY A 37	-5.520	5.168	-11.117	1.00	92.75	C
ATOM	285	C	GLY A 37	-6.324	3.990	-11.633	1.00	92.75	C
ATOM	286	O	GLY A 37	-7.551	4.066	-11.742	1.00	92.75	O
ATOM	287	N	LYS A 38	-5.641	2.881	-11.914	1.00	94.31	N
ATOM	288	CA	LYS A 38	-6.289	1.672	-12.414	1.00	94.31	C
ATOM	289	C	LYS A 38	-6.164	0.526	-11.414	1.00	94.31	C
ATOM	290	CB	LYS A 38	-5.691	1.260	-13.766	1.00	94.31	C
ATOM	291	O	LYS A 38	-5.074	0.261	-10.906	1.00	94.31	O
ATOM	292	CG	LYS A 38	-6.004	2.223	-14.898	1.00	94.31	C
ATOM	293	CD	LYS A 38	-5.465	1.712	-16.234	1.00	94.31	C
ATOM	294	CE	LYS A 38	-5.691	2.719	-17.344	1.00	94.31	C

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ATOM	295	NZ	LYS	A	38	-5.156	2.227	-18.656	1.00	94.31	N
ATOM	296	N	LEU	A	39	-7.305	-0.110	-11.203	1.00	95.62	N
ATOM	297	CA	LEU	A	39	-7.289	-1.279	-10.328	1.00	95.62	C
ATOM	298	C	LEU	A	39	-6.504	-2.422	-10.969	1.00	95.62	C
ATOM	299	CB	LEU	A	39	-8.711	-1.736	-10.016	1.00	95.62	C
ATOM	300	O	LEU	A	39	-6.875	-2.918	-12.031	1.00	95.62	O
ATOM	301	CG	LEU	A	39	-8.852	-2.941	-9.078	1.00	95.62	C
ATOM	302	CD1	LEU	A	39	-8.375	-2.582	-7.676	1.00	95.62	C
ATOM	303	CD2	LEU	A	39	-10.289	-3.439	-9.055	1.00	95.62	C
ATOM	304	N	GLU	A	40	-5.473	-2.877	-10.273	1.00	94.69	N
ATOM	305	CA	GLU	A	40	-4.602	-3.924	-10.797	1.00	94.69	C
ATOM	306	C	GLU	A	40	-4.941	-5.281	-10.195	1.00	94.69	C
ATOM	307	CB	GLU	A	40	-3.133	-3.582	-10.539	1.00	94.69	C
ATOM	308	O	GLU	A	40	-4.973	-6.293	-10.898	1.00	94.69	O
ATOM	309	CG	GLU	A	40	-2.641	-2.363	-11.305	1.00	94.69	C
ATOM	310	CD	GLU	A	40	-2.488	-2.611	-12.797	1.00	94.69	C
ATOM	311	OE1	GLU	A	40	-2.920	-1.757	-13.602	1.00	94.69	O
ATOM	312	OE2	GLU	A	40	-1.931	-3.672	-13.164	1.00	94.69	O
ATOM	313	N	LYS	A	41	-5.180	-5.230	-8.906	1.00	95.00	N
ATOM	314	CA	LYS	A	41	-5.449	-6.453	-8.156	1.00	95.00	C
ATOM	315	C	LYS	A	41	-6.383	-6.184	-6.980	1.00	95.00	C
ATOM	316	CB	LYS	A	41	-4.141	-7.074	-7.652	1.00	95.00	C
ATOM	317	O	LYS	A	41	-6.395	-5.078	-6.430	1.00	95.00	O
ATOM	318	CG	LYS	A	41	-3.285	-7.688	-8.750	1.00	95.00	C
ATOM	319	CD	LYS	A	41	-2.105	-8.461	-8.172	1.00	95.00	C
ATOM	320	CE	LYS	A	41	-1.243	-9.062	-9.273	1.00	95.00	C
ATOM	321	NZ	LYS	A	41	-0.113	-9.867	-8.711	1.00	95.00	N
ATOM	322	N	GLU	A	42	-7.176	-7.195	-6.652	1.00	96.38	N
ATOM	323	CA	GLU	A	42	-8.070	-7.129	-5.500	1.00	96.38	C
ATOM	324	C	GLU	A	42	-8.133	-8.469	-4.773	1.00	96.38	C
ATOM	325	CB	GLU	A	42	-9.477	-6.699	-5.934	1.00	96.38	C
ATOM	326	O	GLU	A	42	-8.234	-9.523	-5.406	1.00	96.38	O
ATOM	327	CG	GLU	A	42	-10.461	-6.586	-4.785	1.00	96.38	C
ATOM	328	CD	GLU	A	42	-11.852	-6.164	-5.230	1.00	96.38	C
ATOM	329	OE1	GLU	A	42	-12.766	-7.023	-5.277	1.00	96.38	O
ATOM	330	OE2	GLU	A	42	-12.031	-4.965	-5.535	1.00	96.38	O
ATOM	331	N	GLU	A	43	-8.047	-8.375	-3.439	1.00	96.94	N
ATOM	332	CA	GLU	A	43	-8.125	-9.586	-2.619	1.00	96.94	C
ATOM	333	C	GLU	A	43	-8.992	-9.352	-1.380	1.00	96.94	C
ATOM	334	CB	GLU	A	43	-6.730	-10.047	-2.207	1.00	96.94	C
ATOM	335	O	GLU	A	43	-8.906	-8.297	-0.748	1.00	96.94	O
ATOM	336	CG	GLU	A	43	-6.703	-11.430	-1.575	1.00	96.94	C
ATOM	337	CD	GLU	A	43	-5.305	-12.023	-1.477	1.00	96.94	C
ATOM	338	OE1	GLU	A	43	-5.113	-13.016	-0.742	1.00	96.94	O
ATOM	339	OE2	GLU	A	43	-4.391	-11.484	-2.141	1.00	96.94	O
ATOM	340	N	THR	A	44	-9.805	-10.320	-1.132	1.00	96.69	N
ATOM	341	CA	THR	A	44	-10.633	-10.266	0.069	1.00	96.69	C
ATOM	342	C	THR	A	44	-10.328	-11.445	0.987	1.00	96.69	C
ATOM	343	CB	THR	A	44	-12.125	-10.258	-0.285	1.00	96.69	C
ATOM	344	O	THR	A	44	-10.289	-12.594	0.538	1.00	96.69	O
ATOM	345	CG2	THR	A	44	-12.992	-10.164	0.971	1.00	96.69	C
ATOM	346	OG1	THR	A	44	-12.406	-9.125	-1.124	1.00	96.69	O
ATOM	347	N	ILE	A	45	-10.070	-11.164	2.281	1.00	96.81	N

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ATOM	348	CA	ILE A 45	-9.797	-12.242	3.225	1.00	96.81	C
ATOM	349	C	ILE A 45	-10.695	-12.086	4.453	1.00	96.81	C
ATOM	350	CB	ILE A 45	-8.312	-12.266	3.646	1.00	96.81	C
ATOM	351	O	ILE A 45	-11.141	-10.984	4.770	1.00	96.81	O
ATOM	352	CG1	ILE A 45	-7.922	-10.938	4.309	1.00	96.81	C
ATOM	353	CG2	ILE A 45	-7.414	-12.562	2.441	1.00	96.81	C
ATOM	354	CD1	ILE A 45	-6.551	-10.953	4.965	1.00	96.81	C
ATOM	355	N	THR A 46	-10.984	-13.242	5.027	1.00	96.00	N
ATOM	356	CA	THR A 46	-11.742	-13.281	6.277	1.00	96.00	C
ATOM	357	C	THR A 46	-10.836	-13.688	7.438	1.00	96.00	C
ATOM	358	CB	THR A 46	-12.922	-14.258	6.184	1.00	96.00	C
ATOM	359	O	THR A 46	-10.070	-14.648	7.332	1.00	96.00	O
ATOM	360	CG2	THR A 46	-13.727	-14.273	7.480	1.00	96.00	C
ATOM	361	OG1	THR A 46	-13.781	-13.859	5.105	1.00	96.00	O
ATOM	362	N	LEU A 47	-10.883	-12.930	8.570	1.00	95.81	N
ATOM	363	CA	LEU A 47	-10.039	-13.203	9.727	1.00	95.81	C
ATOM	364	C	LEU A 47	-10.883	-13.641	10.922	1.00	95.81	C
ATOM	365	CB	LEU A 47	-9.211	-11.969	10.094	1.00	95.81	C
ATOM	366	O	LEU A 47	-11.883	-13.008	11.250	1.00	95.81	O
ATOM	367	CG	LEU A 47	-8.281	-11.430	9.008	1.00	95.81	C
ATOM	368	CD1	LEU A 47	-7.750	-10.055	9.398	1.00	95.81	C
ATOM	369	CD2	LEU A 47	-7.133	-12.398	8.758	1.00	95.81	C
ATOM	370	N	LYS A 48	-10.484	-14.750	11.523	1.00	94.00	N
ATOM	371	CA	LYS A 48	-11.023	-15.164	12.812	1.00	94.00	C
ATOM	372	C	LYS A 48	-10.094	-14.758	13.953	1.00	94.00	C
ATOM	373	CB	LYS A 48	-11.242	-16.688	12.844	1.00	94.00	C
ATOM	374	O	LYS A 48	-8.906	-14.516	13.742	1.00	94.00	O
ATOM	375	CG	LYS A 48	-12.258	-17.172	11.828	1.00	94.00	C
ATOM	376	CD	LYS A 48	-12.422	-18.688	11.883	1.00	94.00	C
ATOM	377	CE	LYS A 48	-13.383	-19.188	10.820	1.00	94.00	C
ATOM	378	NZ	LYS A 48	-13.484	-20.688	10.820	1.00	94.00	N
ATOM	379	N	ASN A 49	-10.688	-14.695	15.180	1.00	92.56	N
ATOM	380	CA	ASN A 49	-9.891	-14.297	16.328	1.00	92.56	C
ATOM	381	C	ASN A 49	-8.609	-15.125	16.438	1.00	92.56	C
ATOM	382	CB	ASN A 49	-10.703	-14.422	17.625	1.00	92.56	C
ATOM	383	O	ASN A 49	-8.656	-16.359	16.375	1.00	92.56	O
ATOM	384	CG	ASN A 49	-9.953	-13.930	18.844	1.00	92.56	C
ATOM	385	ND2	ASN A 49	-10.047	-14.672	19.938	1.00	92.56	N
ATOM	386	OD1	ASN A 49	-9.289	-12.891	18.797	1.00	92.56	O
ATOM	387	N	GLY A 50	-7.379	-14.414	16.531	1.00	90.38	N
ATOM	388	CA	GLY A 50	-6.109	-15.094	16.719	1.00	90.38	C
ATOM	389	C	GLY A 50	-5.449	-15.508	15.422	1.00	90.38	C
ATOM	390	O	GLY A 50	-4.305	-15.969	15.414	1.00	90.38	O
ATOM	391	N	GLU A 51	-6.238	-15.242	14.320	1.00	96.19	N
ATOM	392	CA	GLU A 51	-5.730	-15.633	13.016	1.00	96.19	C
ATOM	393	C	GLU A 51	-4.824	-14.555	12.430	1.00	96.19	C
ATOM	394	CB	GLU A 51	-6.883	-15.930	12.055	1.00	96.19	C
ATOM	395	O	GLU A 51	-5.047	-13.359	12.648	1.00	96.19	O
ATOM	396	CG	GLU A 51	-6.449	-16.609	10.758	1.00	96.19	C
ATOM	397	CD	GLU A 51	-7.605	-16.891	9.812	1.00	96.19	C
ATOM	398	OE1	GLU A 51	-7.391	-17.547	8.766	1.00	96.19	O
ATOM	399	OE2	GLU A 51	-8.734	-16.453	10.117	1.00	96.19	O
ATOM	400	N	THR A 52	-3.773	-15.039	11.750	1.00	96.69	N

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ATOM	401	CA	THR	A	52	-2.873	-14.180	10.984	1.00	96.69	C
ATOM	402	C	THR	A	52	-2.875	-14.578	9.508	1.00	96.69	C
ATOM	403	CB	THR	A	52	-1.437	-14.250	11.539	1.00	96.69	C
ATOM	404	O	THR	A	52	-2.740	-15.758	9.180	1.00	96.69	O
ATOM	405	CG2	THR	A	52	-0.496	-13.359	10.734	1.00	96.69	C
ATOM	406	OG1	THR	A	52	-1.433	-13.820	12.906	1.00	96.69	O
ATOM	407	N	LYS	A	53	-3.090	-13.531	8.656	1.00	97.19	N
ATOM	408	CA	LYS	A	53	-3.033	-13.758	7.211	1.00	97.19	C
ATOM	409	C	LYS	A	53	-2.195	-12.688	6.516	1.00	97.19	C
ATOM	410	CB	LYS	A	53	-4.441	-13.789	6.617	1.00	97.19	C
ATOM	411	O	LYS	A	53	-2.168	-11.539	6.949	1.00	97.19	O
ATOM	412	CG	LYS	A	53	-5.234	-15.039	6.973	1.00	97.19	C
ATOM	413	CD	LYS	A	53	-6.492	-15.164	6.117	1.00	97.19	C
ATOM	414	CE	LYS	A	53	-7.234	-16.469	6.402	1.00	97.19	C
ATOM	415	NZ	LYS	A	53	-8.406	-16.641	5.500	1.00	97.19	N
ATOM	416	N	THR	A	54	-1.510	-13.133	5.465	1.00	96.81	N
ATOM	417	CA	THR	A	54	-0.649	-12.219	4.719	1.00	96.81	C
ATOM	418	C	THR	A	54	-1.103	-12.117	3.264	1.00	96.81	C
ATOM	419	CB	THR	A	54	0.821	-12.672	4.770	1.00	96.81	C
ATOM	420	O	THR	A	54	-1.382	-13.133	2.623	1.00	96.81	O
ATOM	421	CG2	THR	A	54	1.719	-11.719	3.990	1.00	96.81	C
ATOM	422	OG1	THR	A	54	1.256	-12.719	6.133	1.00	96.81	O
ATOM	423	N	VAL	A	55	-1.212	-10.844	2.768	1.00	96.00	N
ATOM	424	CA	VAL	A	55	-1.482	-10.562	1.361	1.00	96.00	C
ATOM	425	C	VAL	A	55	-0.246	-9.938	0.712	1.00	96.00	C
ATOM	426	CB	VAL	A	55	-2.697	-9.617	1.195	1.00	96.00	C
ATOM	427	O	VAL	A	55	0.302	-8.961	1.217	1.00	96.00	O
ATOM	428	CG1	VAL	A	55	-2.961	-9.336	-0.282	1.00	96.00	C
ATOM	429	CG2	VAL	A	55	-3.934	-10.227	1.854	1.00	96.00	C
ATOM	430	N	LYS	A	56	0.173	-10.570	-0.380	1.00	95.56	N
ATOM	431	CA	LYS	A	56	1.374	-10.102	-1.063	1.00	95.56	C
ATOM	432	C	LYS	A	56	1.048	-9.602	-2.469	1.00	95.56	C
ATOM	433	CB	LYS	A	56	2.424	-11.211	-1.131	1.00	95.56	C
ATOM	434	O	LYS	A	56	0.332	-10.273	-3.219	1.00	95.56	O
ATOM	435	CG	LYS	A	56	2.914	-11.680	0.230	1.00	95.56	C
ATOM	436	CD	LYS	A	56	3.979	-12.766	0.098	1.00	95.56	C
ATOM	437	CE	LYS	A	56	4.457	-13.250	1.459	1.00	95.56	C
ATOM	438	NZ	LYS	A	56	5.508	-14.305	1.334	1.00	95.56	N
ATOM	439	N	PHE	A	57	1.518	-8.430	-2.855	1.00	93.31	N
ATOM	440	CA	PHE	A	57	1.449	-7.867	-4.199	1.00	93.31	C
ATOM	441	C	PHE	A	57	2.838	-7.492	-4.699	1.00	93.31	C
ATOM	442	CB	PHE	A	57	0.535	-6.637	-4.219	1.00	93.31	C
ATOM	443	O	PHE	A	57	3.695	-7.074	-3.920	1.00	93.31	O
ATOM	444	CG	PHE	A	57	-0.865	-6.914	-3.742	1.00	93.31	C
ATOM	445	CD1	PHE	A	57	-1.695	-7.777	-4.445	1.00	93.31	C
ATOM	446	CD2	PHE	A	57	-1.352	-6.309	-2.592	1.00	93.31	C
ATOM	447	CE1	PHE	A	57	-2.992	-8.039	-4.004	1.00	93.31	C
ATOM	448	CE2	PHE	A	57	-2.646	-6.559	-2.146	1.00	93.31	C
ATOM	449	CZ	PHE	A	57	-3.465	-7.422	-2.854	1.00	93.31	C
ATOM	450	N	SER	A	58	2.998	-7.676	-5.922	1.00	92.81	N
ATOM	451	CA	SER	A	58	4.203	-7.184	-6.582	1.00	92.81	C
ATOM	452	C	SER	A	58	3.865	-6.465	-7.883	1.00	92.81	C
ATOM	453	CB	SER	A	58	5.164	-8.336	-6.867	1.00	92.81	C

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ATOM	454	O	SER A 58	3.057	-6.949	-8.680	1.00	92.81	O
ATOM	455	OG	SER A 58	6.332	-7.871	-7.520	1.00	92.81	O
ATOM	456	N	THR A 59	4.461	-5.320	-8.055	1.00	92.44	N
ATOM	457	CA	THR A 59	4.188	-4.574	-9.281	1.00	92.44	C
ATOM	458	C	THR A 59	5.418	-3.793	-9.727	1.00	92.44	C
ATOM	459	CB	THR A 59	3.002	-3.609	-9.094	1.00	92.44	C
ATOM	460	O	THR A 59	6.246	-3.408	-8.898	1.00	92.44	O
ATOM	461	CG2	THR A 59	3.344	-2.504	-8.102	1.00	92.44	C
ATOM	462	OG1	THR A 59	2.672	-3.018	-10.359	1.00	92.44	O
ATOM	463	N	GLU A 60	5.523	-3.631	-11.047	1.00	91.19	N
ATOM	464	CA	GLU A 60	6.535	-2.701	-11.539	1.00	91.19	C
ATOM	465	C	GLU A 60	6.199	-1.265	-11.156	1.00	91.19	C
ATOM	466	CB	GLU A 60	6.680	-2.816	-13.062	1.00	91.19	C
ATOM	467	O	GLU A 60	5.027	-0.907	-11.039	1.00	91.19	O
ATOM	468	CG	GLU A 60	7.266	-4.145	-13.523	1.00	91.19	C
ATOM	469	CD	GLU A 60	7.488	-4.211	-15.023	1.00	91.19	C
ATOM	470	OE1	GLU A 60	8.094	-5.195	-15.508	1.00	91.19	O
ATOM	471	OE2	GLU A 60	7.062	-3.266	-15.727	1.00	91.19	O
ATOM	472	N	ALA A 61	7.352	-0.521	-10.836	1.00	84.94	N
ATOM	473	CA	ALA A 61	7.152	0.865	-10.422	1.00	84.94	C
ATOM	474	C	ALA A 61	6.402	1.654	-11.492	1.00	84.94	C
ATOM	475	CB	ALA A 61	8.492	1.527	-10.117	1.00	84.94	C
ATOM	476	O	ALA A 61	6.734	1.568	-12.680	1.00	84.94	O
ATOM	477	N	LYS A 62	5.250	2.096	-11.102	1.00	88.06	N
ATOM	478	CA	LYS A 62	4.480	3.045	-11.906	1.00	88.06	C
ATOM	479	C	LYS A 62	4.531	4.445	-11.297	1.00	88.06	C
ATOM	480	CB	LYS A 62	3.029	2.584	-12.039	1.00	88.06	C
ATOM	481	O	LYS A 62	5.176	4.656	-10.266	1.00	88.06	O
ATOM	482	CG	LYS A 62	2.875	1.186	-12.617	1.00	88.06	C
ATOM	483	CD	LYS A 62	3.127	1.175	-14.117	1.00	88.06	C
ATOM	484	CE	LYS A 62	2.803	-0.181	-14.734	1.00	88.06	C
ATOM	485	NZ	LYS A 62	3.092	-0.210	-16.203	1.00	88.06	N
ATOM	486	N	GLU A 63	4.020	5.422	-11.945	1.00	88.94	N
ATOM	487	CA	GLU A 63	4.078	6.793	-11.453	1.00	88.94	C
ATOM	488	C	GLU A 63	3.486	6.902	-10.055	1.00	88.94	C
ATOM	489	CB	GLU A 63	3.346	7.738	-12.414	1.00	88.94	C
ATOM	490	O	GLU A 63	4.090	7.508	-9.164	1.00	88.94	O
ATOM	491	CG	GLU A 63	4.078	7.977	-13.727	1.00	88.94	C
ATOM	492	CD	GLU A 63	3.395	9.000	-14.617	1.00	88.94	C
ATOM	493	OE1	GLU A 63	4.031	9.484	-15.578	1.00	88.94	O
ATOM	494	OE2	GLU A 63	2.215	9.320	-14.352	1.00	88.94	O
ATOM	495	N	LYS A 64	2.420	6.242	-9.859	1.00	93.00	N
ATOM	496	CA	LYS A 64	1.702	6.289	-8.594	1.00	93.00	C
ATOM	497	C	LYS A 64	1.093	4.930	-8.258	1.00	93.00	C
ATOM	498	CB	LYS A 64	0.609	7.355	-8.633	1.00	93.00	C
ATOM	499	O	LYS A 64	0.392	4.336	-9.078	1.00	93.00	O
ATOM	500	CG	LYS A 64	-0.013	7.656	-7.273	1.00	93.00	C
ATOM	501	CD	LYS A 64	-0.989	8.820	-7.352	1.00	93.00	C
ATOM	502	CE	LYS A 64	-1.584	9.148	-5.988	1.00	93.00	C
ATOM	503	NZ	LYS A 64	-2.508	10.320	-6.051	1.00	93.00	N
ATOM	504	N	ILE A 65	1.392	4.430	-7.109	1.00	94.62	N
ATOM	505	CA	ILE A 65	0.858	3.156	-6.641	1.00	94.62	C
ATOM	506	C	ILE A 65	0.068	3.369	-5.352	1.00	94.62	C

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ATOM	507	CB	ILE A 65	1.983	2.121	-6.414	1.00	94.62	C
ATOM	508	O	ILE A 65	0.545	4.027	-4.426	1.00	94.62	O
ATOM	509	CG1	ILE A 65	2.760	1.886	-7.715	1.00	94.62	C
ATOM	510	CG2	ILE A 65	1.410	0.809	-5.875	1.00	94.62	C
ATOM	511	CD1	ILE A 65	4.039	1.082	-7.535	1.00	94.62	C
ATOM	512	N	GLU A 66	-1.158	2.756	-5.332	1.00	95.25	N
ATOM	513	CA	GLU A 66	-2.023	2.854	-4.160	1.00	95.25	C
ATOM	514	C	GLU A 66	-2.488	1.475	-3.699	1.00	95.25	C
ATOM	515	CB	GLU A 66	-3.230	3.744	-4.453	1.00	95.25	C
ATOM	516	O	GLU A 66	-2.859	0.633	-4.520	1.00	95.25	O
ATOM	517	CG	GLU A 66	-2.867	5.188	-4.777	1.00	95.25	C
ATOM	518	CD	GLU A 66	-4.070	6.043	-5.133	1.00	95.25	C
ATOM	519	OE1	GLU A 66	-4.168	6.504	-6.293	1.00	95.25	O
ATOM	520	OE2	GLU A 66	-4.926	6.258	-4.242	1.00	95.25	O
ATOM	521	N	VAL A 67	-2.322	1.292	-2.408	1.00	96.31	N
ATOM	522	CA	VAL A 67	-2.918	0.109	-1.796	1.00	96.31	C
ATOM	523	C	VAL A 67	-4.023	0.528	-0.828	1.00	96.31	C
ATOM	524	CB	VAL A 67	-1.860	-0.745	-1.062	1.00	96.31	C
ATOM	525	O	VAL A 67	-3.766	1.240	0.145	1.00	96.31	O
ATOM	526	CG1	VAL A 67	-2.506	-1.971	-0.419	1.00	96.31	C
ATOM	527	CG2	VAL A 67	-0.751	-1.164	-2.023	1.00	96.31	C
ATOM	528	N	LYS A 68	-5.219	0.170	-1.224	1.00	96.88	N
ATOM	529	CA	LYS A 68	-6.367	0.513	-0.395	1.00	96.88	C
ATOM	530	C	LYS A 68	-6.855	-0.697	0.396	1.00	96.88	C
ATOM	531	CB	LYS A 68	-7.504	1.069	-1.256	1.00	96.88	C
ATOM	532	O	LYS A 68	-7.121	-1.755	-0.178	1.00	96.88	O
ATOM	533	CG	LYS A 68	-7.199	2.422	-1.881	1.00	96.88	C
ATOM	534	CD	LYS A 68	-8.422	2.996	-2.590	1.00	96.88	C
ATOM	535	CE	LYS A 68	-8.133	4.375	-3.168	1.00	96.88	C
ATOM	536	NZ	LYS A 68	-9.336	4.953	-3.840	1.00	96.88	N
ATOM	537	N	ILE A 69	-6.973	-0.520	1.734	1.00	97.44	N
ATOM	538	CA	ILE A 69	-7.395	-1.608	2.607	1.00	97.44	C
ATOM	539	C	ILE A 69	-8.641	-1.192	3.385	1.00	97.44	C
ATOM	540	CB	ILE A 69	-6.266	-2.021	3.582	1.00	97.44	C
ATOM	541	O	ILE A 69	-8.664	-0.124	4.000	1.00	97.44	O
ATOM	542	CG1	ILE A 69	-5.016	-2.441	2.803	1.00	97.44	C
ATOM	543	CG2	ILE A 69	-6.738	-3.148	4.508	1.00	97.44	C
ATOM	544	CD1	ILE A 69	-3.730	-2.383	3.619	1.00	97.44	C
ATOM	545	N	GLU A 70	-9.594	-2.016	3.295	1.00	97.00	N
ATOM	546	CA	GLU A 70	-10.820	-1.819	4.066	1.00	97.00	C
ATOM	547	C	GLU A 70	-11.086	-3.004	4.988	1.00	97.00	C
ATOM	548	CB	GLU A 70	-12.008	-1.601	3.131	1.00	97.00	C
ATOM	549	O	GLU A 70	-11.125	-4.152	4.539	1.00	97.00	O
ATOM	550	CG	GLU A 70	-13.312	-1.296	3.857	1.00	97.00	C
ATOM	551	CD	GLU A 70	-14.484	-1.080	2.918	1.00	97.00	C
ATOM	552	OE1	GLU A 70	-15.352	-1.979	2.814	1.00	97.00	O
ATOM	553	OE2	GLU A 70	-14.539	-0.005	2.279	1.00	97.00	O
ATOM	554	N	VAL A 71	-11.289	-2.660	6.246	1.00	96.00	N
ATOM	555	CA	VAL A 71	-11.539	-3.699	7.238	1.00	96.00	C
ATOM	556	C	VAL A 71	-12.938	-3.523	7.828	1.00	96.00	C
ATOM	557	CB	VAL A 71	-10.477	-3.682	8.359	1.00	96.00	C
ATOM	558	O	VAL A 71	-13.297	-2.432	8.273	1.00	96.00	O
ATOM	559	CG1	VAL A 71	-10.695	-4.848	9.328	1.00	96.00	C

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ATOM	560	CG2 VAL A 71	-9.070	-3.727	7.770	1.00	96.00	C
ATOM	561	N THR A 72	-13.641	-4.656	7.801	1.00	94.62	N
ATOM	562	CA THR A 72	-15.000	-4.617	8.328	1.00	94.62	C
ATOM	563	C THR A 72	-15.195	-5.684	9.398	1.00	94.62	C
ATOM	564	CB THR A 72	-16.047	-4.812	7.207	1.00	94.62	C
ATOM	565	O THR A 72	-14.781	-6.832	9.227	1.00	94.62	O
ATOM	566	CG2 THR A 72	-16.000	-3.664	6.207	1.00	94.62	C
ATOM	567	OG1 THR A 72	-15.766	-6.043	6.523	1.00	94.62	O
ATOM	568	N VAL A 73	-15.719	-5.285	10.477	1.00	93.38	N
ATOM	569	CA VAL A 73	-16.156	-6.172	11.555	1.00	93.38	C
ATOM	570	C VAL A 73	-17.656	-5.984	11.805	1.00	93.38	C
ATOM	571	CB VAL A 73	-15.367	-5.914	12.859	1.00	93.38	C
ATOM	572	O VAL A 73	-18.109	-4.859	12.016	1.00	93.38	O
ATOM	573	CG1 VAL A 73	-15.844	-6.844	13.969	1.00	93.38	C
ATOM	574	CG2 VAL A 73	-13.867	-6.094	12.609	1.00	93.38	C
ATOM	575	N PRO A 74	-18.469	-7.031	11.656	1.00	90.00	N
ATOM	576	CA PRO A 74	-19.922	-6.902	11.859	1.00	90.00	C
ATOM	577	C PRO A 74	-20.281	-6.191	13.156	1.00	90.00	C
ATOM	578	CB PRO A 74	-20.406	-8.352	11.875	1.00	90.00	C
ATOM	579	O PRO A 74	-19.734	-6.527	14.219	1.00	90.00	O
ATOM	580	CG PRO A 74	-19.391	-9.102	11.078	1.00	90.00	C
ATOM	581	CD PRO A 74	-18.031	-8.492	11.328	1.00	90.00	C
ATOM	582	N GLY A 75	-21.219	-5.105	12.945	1.00	88.94	N
ATOM	583	CA GLY A 75	-21.688	-4.414	14.141	1.00	88.94	C
ATOM	584	C GLY A 75	-20.812	-3.234	14.523	1.00	88.94	C
ATOM	585	O GLY A 75	-21.062	-2.566	15.531	1.00	88.94	O
ATOM	586	N GLN A 76	-19.672	-2.949	13.719	1.00	89.56	N
ATOM	587	CA GLN A 76	-18.734	-1.846	13.922	1.00	89.56	C
ATOM	588	C GLN A 76	-18.547	-1.043	12.641	1.00	89.56	C
ATOM	589	CB GLN A 76	-17.391	-2.367	14.430	1.00	89.56	C
ATOM	590	O GLN A 76	-18.781	-1.552	11.547	1.00	89.56	O
ATOM	591	CG GLN A 76	-17.484	-3.104	15.758	1.00	89.56	C
ATOM	592	CD GLN A 76	-16.125	-3.543	16.266	1.00	89.56	C
ATOM	593	NE2 GLN A 76	-16.062	-4.734	16.859	1.00	89.56	N
ATOM	594	OE1 GLN A 76	-15.125	-2.816	16.141	1.00	89.56	O
ATOM	595	N GLU A 77	-18.234	0.262	12.773	1.00	92.25	N
ATOM	596	CA GLU A 77	-17.859	1.067	11.617	1.00	92.25	C
ATOM	597	C GLU A 77	-16.562	0.565	10.992	1.00	92.25	C
ATOM	598	CB GLU A 77	-17.719	2.541	12.008	1.00	92.25	C
ATOM	599	O GLU A 77	-15.641	0.159	11.695	1.00	92.25	O
ATOM	600	CG GLU A 77	-19.031	3.221	12.336	1.00	92.25	C
ATOM	601	CD GLU A 77	-18.906	4.719	12.547	1.00	92.25	C
ATOM	602	OE1 GLU A 77	-19.906	5.449	12.352	1.00	92.25	O
ATOM	603	OE2 GLU A 77	-17.797	5.168	12.906	1.00	92.25	O
ATOM	604	N PRO A 78	-16.516	0.480	9.648	1.00	93.75	N
ATOM	605	CA PRO A 78	-15.328	-0.023	8.945	1.00	93.75	C
ATOM	606	C PRO A 78	-14.078	0.814	9.219	1.00	93.75	C
ATOM	607	CB PRO A 78	-15.727	0.061	7.473	1.00	93.75	C
ATOM	608	O PRO A 78	-14.180	2.025	9.430	1.00	93.75	O
ATOM	609	CG PRO A 78	-17.219	0.140	7.488	1.00	93.75	C
ATOM	610	CD PRO A 78	-17.656	0.787	8.773	1.00	93.75	C
ATOM	611	N GLY A 79	-12.961	0.214	9.266	1.00	95.25	N
ATOM	612	CA GLY A 79	-11.656	0.850	9.250	1.00	95.25	C

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ATOM	613	C	GLY A 79	-10.977	0.790	7.898	1.00	95.25	C
ATOM	614	O	GLY A 79	-11.180	-0.160	7.137	1.00	95.25	O
ATOM	615	N	THR A 80	-10.234	1.903	7.570	1.00	96.44	N
ATOM	616	CA	THR A 80	-9.555	1.919	6.277	1.00	96.44	C
ATOM	617	C	THR A 80	-8.078	2.270	6.445	1.00	96.44	C
ATOM	618	CB	THR A 80	-10.211	2.920	5.312	1.00	96.44	C
ATOM	619	O	THR A 80	-7.711	3.006	7.363	1.00	96.44	O
ATOM	620	CG2	THR A 80	-11.680	2.570	5.078	1.00	96.44	C
ATOM	621	OG1	THR A 80	-10.133	4.238	5.867	1.00	96.44	O
ATOM	622	N	LEU A 81	-7.188	1.688	5.621	1.00	96.50	N
ATOM	623	CA	LEU A 81	-5.766	1.977	5.473	1.00	96.50	C
ATOM	624	C	LEU A 81	-5.402	2.166	4.004	1.00	96.50	C
ATOM	625	CB	LEU A 81	-4.926	0.851	6.078	1.00	96.50	C
ATOM	626	O	LEU A 81	-5.715	1.313	3.166	1.00	96.50	O
ATOM	627	CG	LEU A 81	-3.412	0.953	5.879	1.00	96.50	C
ATOM	628	CD1	LEU A 81	-2.865	2.180	6.602	1.00	96.50	C
ATOM	629	CD2	LEU A 81	-2.721	-0.315	6.367	1.00	96.50	C
ATOM	630	N	THR A 82	-4.867	3.344	3.744	1.00	96.38	N
ATOM	631	CA	THR A 82	-4.426	3.615	2.381	1.00	96.38	C
ATOM	632	C	THR A 82	-2.928	3.896	2.342	1.00	96.38	C
ATOM	633	CB	THR A 82	-5.191	4.809	1.775	1.00	96.38	C
ATOM	634	O	THR A 82	-2.432	4.754	3.076	1.00	96.38	O
ATOM	635	CG2	THR A 82	-4.762	5.059	0.333	1.00	96.38	C
ATOM	636	OG1	THR A 82	-6.598	4.531	1.803	1.00	96.38	O
ATOM	637	N	LEU A 83	-2.158	3.076	1.508	1.00	95.69	N
ATOM	638	CA	LEU A 83	-0.744	3.295	1.223	1.00	95.69	C
ATOM	639	C	LEU A 83	-0.552	3.842	-0.188	1.00	95.69	C
ATOM	640	CB	LEU A 83	0.044	1.992	1.388	1.00	95.69	C
ATOM	641	O	LEU A 83	-1.056	3.266	-1.155	1.00	95.69	O
ATOM	642	CG	LEU A 83	-0.135	1.256	2.717	1.00	95.69	C
ATOM	643	CD1	LEU A 83	0.402	-0.168	2.611	1.00	95.69	C
ATOM	644	CD2	LEU A 83	0.560	2.012	3.844	1.00	95.69	C
ATOM	645	N	THR A 84	0.100	5.023	-0.233	1.00	94.12	N
ATOM	646	CA	THR A 84	0.368	5.625	-1.535	1.00	94.12	C
ATOM	647	C	THR A 84	1.867	5.820	-1.742	1.00	94.12	C
ATOM	648	CB	THR A 84	-0.354	6.977	-1.687	1.00	94.12	C
ATOM	649	O	THR A 84	2.523	6.508	-0.957	1.00	94.12	O
ATOM	650	CG2	THR A 84	-0.154	7.551	-3.084	1.00	94.12	C
ATOM	651	OG1	THR A 84	-1.756	6.789	-1.454	1.00	94.12	O
ATOM	652	N	TYR A 85	2.316	5.109	-2.818	1.00	92.31	N
ATOM	653	CA	TYR A 85	3.717	5.277	-3.184	1.00	92.31	C
ATOM	654	C	TYR A 85	3.852	6.098	-4.461	1.00	92.31	C
ATOM	655	CB	TYR A 85	4.395	3.916	-3.363	1.00	92.31	C
ATOM	656	O	TYR A 85	3.266	5.754	-5.492	1.00	92.31	O
ATOM	657	CG	TYR A 85	5.859	4.008	-3.709	1.00	92.31	C
ATOM	658	CD1	TYR A 85	6.305	3.777	-5.012	1.00	92.31	C
ATOM	659	CD2	TYR A 85	6.805	4.324	-2.738	1.00	92.31	C
ATOM	660	CE1	TYR A 85	7.656	3.859	-5.336	1.00	92.31	C
ATOM	661	CE2	TYR A 85	8.156	4.410	-3.051	1.00	92.31	C
ATOM	662	OH	TYR A 85	9.914	4.258	-4.664	1.00	92.31	O
ATOM	663	CZ	TYR A 85	8.570	4.176	-4.352	1.00	92.31	C
ATOM	664	N	ASP A 86	4.605	7.266	-4.359	1.00	91.94	N
ATOM	665	CA	ASP A 86	4.918	8.133	-5.488	1.00	91.94	C

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ATOM	666	C	ASP A 86	6.359	7.938	-5.953	1.00	91.94	C
ATOM	667	CB	ASP A 86	4.680	9.602	-5.121	1.00	91.94	C
ATOM	668	O	ASP A 86	7.301	8.289	-5.238	1.00	91.94	O
ATOM	669	CG	ASP A 86	4.770	10.539	-6.316	1.00	91.94	C
ATOM	670	OD1	ASP A 86	5.617	10.312	-7.207	1.00	91.94	O
ATOM	671	OD2	ASP A 86	3.984	11.508	-6.363	1.00	91.94	O
ATOM	672	N	SER A 87	6.457	7.367	-7.203	1.00	86.69	N
ATOM	673	CA	SER A 87	7.777	6.992	-7.699	1.00	86.69	C
ATOM	674	C	SER A 87	8.578	8.219	-8.117	1.00	86.69	C
ATOM	675	CB	SER A 87	7.652	6.031	-8.883	1.00	86.69	C
ATOM	676	O	SER A 87	9.812	8.180	-8.148	1.00	86.69	O
ATOM	677	OG	SER A 87	7.012	6.660	-9.977	1.00	86.69	O
ATOM	678	N	LYS A 88	7.914	9.359	-8.375	1.00	86.25	N
ATOM	679	CA	LYS A 88	8.602	10.586	-8.773	1.00	86.25	C
ATOM	680	C	LYS A 88	9.312	11.219	-7.578	1.00	86.25	C
ATOM	681	CB	LYS A 88	7.613	11.578	-9.383	1.00	86.25	C
ATOM	682	O	LYS A 88	10.445	11.680	-7.703	1.00	86.25	O
ATOM	683	CG	LYS A 88	7.094	11.172	-10.758	1.00	86.25	C
ATOM	684	CD	LYS A 88	6.227	12.258	-11.375	1.00	86.25	C
ATOM	685	CE	LYS A 88	5.664	11.828	-12.719	1.00	86.25	C
ATOM	686	NZ	LYS A 88	4.789	12.883	-13.312	1.00	86.25	N
ATOM	687	N	THR A 89	8.617	11.156	-6.395	1.00	89.50	N
ATOM	688	CA	THR A 89	9.148	11.781	-5.188	1.00	89.50	C
ATOM	689	C	THR A 89	9.703	10.719	-4.234	1.00	89.50	C
ATOM	690	CB	THR A 89	8.070	12.609	-4.465	1.00	89.50	C
ATOM	691	O	THR A 89	10.289	11.055	-3.203	1.00	89.50	O
ATOM	692	CG2	THR A 89	7.547	13.727	-5.363	1.00	89.50	C
ATOM	693	OG1	THR A 89	6.984	11.750	-4.098	1.00	89.50	O
ATOM	694	N	GLU A 90	9.523	9.477	-4.680	1.00	86.06	N
ATOM	695	CA	GLU A 90	9.945	8.352	-3.842	1.00	86.06	C
ATOM	696	C	GLU A 90	9.414	8.500	-2.418	1.00	86.06	C
ATOM	697	CB	GLU A 90	11.469	8.242	-3.824	1.00	86.06	C
ATOM	698	O	GLU A 90	10.148	8.289	-1.451	1.00	86.06	O
ATOM	699	CG	GLU A 90	12.078	7.910	-5.180	1.00	86.06	C
ATOM	700	CD	GLU A 90	13.570	7.613	-5.113	1.00	86.06	C
ATOM	701	OE1	GLU A 90	14.062	6.797	-5.922	1.00	86.06	O
ATOM	702	OE2	GLU A 90	14.250	8.211	-4.246	1.00	86.06	O
ATOM	703	N	LYS A 91	8.227	8.922	-2.277	1.00	90.06	N
ATOM	704	CA	LYS A 91	7.562	9.156	-0.999	1.00	90.06	C
ATOM	705	C	LYS A 91	6.418	8.172	-0.784	1.00	90.06	C
ATOM	706	CB	LYS A 91	7.031	10.594	-0.923	1.00	90.06	C
ATOM	707	O	LYS A 91	5.652	7.891	-1.706	1.00	90.06	O
ATOM	708	CG	LYS A 91	8.117	11.641	-0.712	1.00	90.06	C
ATOM	709	CD	LYS A 91	7.520	13.023	-0.479	1.00	90.06	C
ATOM	710	CE	LYS A 91	8.602	14.078	-0.320	1.00	90.06	C
ATOM	711	NZ	LYS A 91	8.023	15.438	-0.077	1.00	90.06	N
ATOM	712	N	LEU A 92	6.340	7.586	0.529	1.00	92.31	N
ATOM	713	CA	LEU A 92	5.230	6.734	0.942	1.00	92.31	C
ATOM	714	C	LEU A 92	4.297	7.477	1.894	1.00	92.31	C
ATOM	715	CB	LEU A 92	5.754	5.461	1.613	1.00	92.31	C
ATOM	716	O	LEU A 92	4.742	8.016	2.910	1.00	92.31	O
ATOM	717	CG	LEU A 92	4.695	4.480	2.129	1.00	92.31	C
ATOM	718	CD1	LEU A 92	3.975	3.818	0.961	1.00	92.31	C

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ATOM	719	CD2 LEU A 92	5.336	3.434	3.035	1.00	92.31	C
ATOM	720	N THR A 93	3.061	7.586	1.555	1.00	94.81	N
ATOM	721	CA THR A 93	2.045	8.195	2.406	1.00	94.81	C
ATOM	722	C THR A 93	1.098	7.137	2.961	1.00	94.81	C
ATOM	723	CB THR A 93	1.238	9.258	1.640	1.00	94.81	C
ATOM	724	O THR A 93	0.635	6.266	2.225	1.00	94.81	O
ATOM	725	CG2 THR A 93	0.251	9.969	2.561	1.00	94.81	C
ATOM	726	OG1 THR A 93	2.139	10.227	1.084	1.00	94.81	O
ATOM	727	N VAL A 94	0.766	7.344	4.250	1.00	95.50	N
ATOM	728	CA VAL A 94	-0.111	6.383	4.910	1.00	95.50	C
ATOM	729	C VAL A 94	-1.294	7.113	5.543	1.00	95.50	C
ATOM	730	CB VAL A 94	0.647	5.566	5.984	1.00	95.50	C
ATOM	731	O VAL A 94	-1.107	8.055	6.316	1.00	95.50	O
ATOM	732	CG1 VAL A 94	-0.282	4.551	6.648	1.00	95.50	C
ATOM	733	CG2 VAL A 94	1.855	4.867	5.367	1.00	95.50	C
ATOM	734	N GLU A 95	-2.439	6.746	5.129	1.00	95.69	N
ATOM	735	CA GLU A 95	-3.668	7.277	5.711	1.00	95.69	C
ATOM	736	C GLU A 95	-4.480	6.180	6.387	1.00	95.69	C
ATOM	737	CB GLU A 95	-4.512	7.973	4.641	1.00	95.69	C
ATOM	738	O GLU A 95	-4.727	5.129	5.793	1.00	95.69	O
ATOM	739	CG GLU A 95	-3.828	9.172	3.998	1.00	95.69	C
ATOM	740	CD GLU A 95	-4.684	9.859	2.945	1.00	95.69	C
ATOM	741	OE1 GLU A 95	-5.234	10.953	3.227	1.00	95.69	O
ATOM	742	OE2 GLU A 95	-4.809	9.305	1.832	1.00	95.69	O
ATOM	743	N VAL A 96	-4.973	6.484	7.711	1.00	94.31	N
ATOM	744	CA VAL A 96	-5.645	5.426	8.453	1.00	94.31	C
ATOM	745	C VAL A 96	-6.938	5.961	9.062	1.00	94.31	C
ATOM	746	CB VAL A 96	-4.734	4.848	9.562	1.00	94.31	C
ATOM	747	O VAL A 96	-6.961	7.059	9.625	1.00	94.31	O
ATOM	748	CG1 VAL A 96	-5.457	3.742	10.336	1.00	94.31	C
ATOM	749	CG2 VAL A 96	-3.432	4.320	8.961	1.00	94.31	C
ATOM	750	N THR A 97	-7.965	5.297	8.812	1.00	93.50	N
ATOM	751	CA THR A 97	-9.188	5.422	9.602	1.00	93.50	C
ATOM	752	C THR A 97	-9.305	4.273	10.602	1.00	93.50	C
ATOM	753	CB THR A 97	-10.430	5.449	8.703	1.00	93.50	C
ATOM	754	O THR A 97	-9.594	3.139	10.227	1.00	93.50	O
ATOM	755	CG2 THR A 97	-11.695	5.695	9.516	1.00	93.50	C
ATOM	756	OG1 THR A 97	-10.289	6.496	7.734	1.00	93.50	O
ATOM	757	N PRO A 98	-9.039	4.562	11.938	1.00	89.44	N
ATOM	758	CA PRO A 98	-8.727	3.539	12.938	1.00	89.44	C
ATOM	759	C PRO A 98	-9.984	2.908	13.547	1.00	89.44	C
ATOM	760	CB PRO A 98	-7.941	4.312	14.000	1.00	89.44	C
ATOM	761	O PRO A 98	-9.906	2.252	14.586	1.00	89.44	O
ATOM	762	CG PRO A 98	-8.508	5.695	13.969	1.00	89.44	C
ATOM	763	CD PRO A 98	-8.922	6.004	12.555	1.00	89.44	C
ATOM	764	N ASN A 99	-11.141	2.879	13.062	1.00	89.62	N
ATOM	765	CA ASN A 99	-12.359	2.355	13.680	1.00	89.62	C
ATOM	766	C ASN A 99	-12.180	0.912	14.133	1.00	89.62	C
ATOM	767	CB ASN A 99	-13.539	2.463	12.703	1.00	89.62	C
ATOM	768	O ASN A 99	-12.516	0.571	15.273	1.00	89.62	O
ATOM	769	CG ASN A 99	-13.938	3.898	12.430	1.00	89.62	C
ATOM	770	ND2 ASN A 99	-14.250	4.195	11.172	1.00	89.62	N
ATOM	771	OD1 ASN A 99	-13.961	4.734	13.336	1.00	89.62	O

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ATOM	772	N	VAL A 100	-11.625	0.010	13.398	1.00	92.50	N
ATOM	773	CA	VAL A 100	-11.438	-1.404	13.703	1.00	92.50	C
ATOM	774	C	VAL A 100	-9.977	-1.786	13.508	1.00	92.50	C
ATOM	775	CB	VAL A 100	-12.344	-2.301	12.836	1.00	92.50	C
ATOM	776	O	VAL A 100	-9.617	-2.963	13.594	1.00	92.50	O
ATOM	777	CG1	VAL A 100	-13.820	-2.055	13.156	1.00	92.50	C
ATOM	778	CG2	VAL A 100	-12.070	-2.055	11.352	1.00	92.50	C
ATOM	779	N	ILE A 101	-9.125	-0.775	13.211	1.00	93.56	N
ATOM	780	CA	ILE A 101	-7.684	-0.949	13.062	1.00	93.56	C
ATOM	781	C	ILE A 101	-6.977	-0.480	14.336	1.00	93.56	C
ATOM	782	CB	ILE A 101	-7.145	-0.182	11.836	1.00	93.56	C
ATOM	783	O	ILE A 101	-7.027	0.703	14.680	1.00	93.56	O
ATOM	784	CG1	ILE A 101	-7.785	-0.717	10.547	1.00	93.56	C
ATOM	785	CG2	ILE A 101	-5.617	-0.276	11.766	1.00	93.56	C
ATOM	786	CD1	ILE A 101	-7.430	0.082	9.305	1.00	93.56	C
ATOM	787	N	LYS A 102	-6.258	-1.288	15.023	1.00	91.00	N
ATOM	788	CA	LYS A 102	-5.633	-1.000	16.312	1.00	91.00	C
ATOM	789	C	LYS A 102	-4.199	-0.514	16.125	1.00	91.00	C
ATOM	790	CB	LYS A 102	-5.660	-2.236	17.203	1.00	91.00	C
ATOM	791	O	LYS A 102	-3.764	0.420	16.812	1.00	91.00	O
ATOM	792	CG	LYS A 102	-7.047	-2.615	17.703	1.00	91.00	C
ATOM	793	CD	LYS A 102	-6.984	-3.701	18.766	1.00	91.00	C
ATOM	794	CE	LYS A 102	-8.367	-4.004	19.344	1.00	91.00	C
ATOM	795	NZ	LYS A 102	-8.305	-5.066	20.391	1.00	91.00	N
ATOM	796	N	LYS A 103	-3.594	-1.151	15.273	1.00	92.75	N
ATOM	797	CA	LYS A 103	-2.168	-0.896	15.102	1.00	92.75	C
ATOM	798	C	LYS A 103	-1.738	-1.115	13.648	1.00	92.75	C
ATOM	799	CB	LYS A 103	-1.347	-1.791	16.031	1.00	92.75	C
ATOM	800	O	LYS A 103	-2.191	-2.059	13.000	1.00	92.75	O
ATOM	801	CG	LYS A 103	0.144	-1.488	16.031	1.00	92.75	C
ATOM	802	CD	LYS A 103	0.899	-2.379	17.000	1.00	92.75	C
ATOM	803	CE	LYS A 103	2.393	-2.080	17.000	1.00	92.75	C
ATOM	804	NZ	LYS A 103	3.131	-2.928	17.984	1.00	92.75	N
ATOM	805	N	VAL A 104	-0.850	-0.158	13.219	1.00	95.31	N
ATOM	806	CA	VAL A 104	-0.253	-0.316	11.898	1.00	95.31	C
ATOM	807	C	VAL A 104	1.252	-0.068	11.977	1.00	95.31	C
ATOM	808	CB	VAL A 104	-0.897	0.638	10.867	1.00	95.31	C
ATOM	809	O	VAL A 104	1.691	0.958	12.500	1.00	95.31	O
ATOM	810	CG1	VAL A 104	-0.220	0.497	9.508	1.00	95.31	C
ATOM	811	CG2	VAL A 104	-2.396	0.365	10.750	1.00	95.31	C
ATOM	812	N	ASP A 105	1.938	-1.076	11.562	1.00	95.06	N
ATOM	813	CA	ASP A 105	3.387	-0.945	11.438	1.00	95.06	C
ATOM	814	C	ASP A 105	3.830	-1.077	9.984	1.00	95.06	C
ATOM	815	CB	ASP A 105	4.094	-1.992	12.305	1.00	95.06	C
ATOM	816	O	ASP A 105	3.479	-2.047	9.312	1.00	95.06	O
ATOM	817	CG	ASP A 105	3.855	-1.798	13.789	1.00	95.06	C
ATOM	818	OD1	ASP A 105	4.195	-0.721	14.328	1.00	95.06	O
ATOM	819	OD2	ASP A 105	3.326	-2.730	14.430	1.00	95.06	O
ATOM	820	N	VAL A 106	4.656	-0.050	9.602	1.00	95.19	N
ATOM	821	CA	VAL A 106	5.105	-0.060	8.211	1.00	95.19	C
ATOM	822	C	VAL A 106	6.633	-0.059	8.164	1.00	95.19	C
ATOM	823	CB	VAL A 106	4.547	1.146	7.426	1.00	95.19	C
ATOM	824	O	VAL A 106	7.281	0.753	8.820	1.00	95.19	O

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ATOM	825	CG1 VAL A 106	5.008	1.103	5.969	1.00	95.19	C
ATOM	826	CG2 VAL A 106	3.021	1.176	7.504	1.00	95.19	C
ATOM	827	N ASN A 107	7.188	-1.010	7.457	1.00	94.44	N
ATOM	828	CA ASN A 107	8.625	-1.089	7.211	1.00	94.44	C
ATOM	829	C ASN A 107	8.938	-1.070	5.715	1.00	94.44	C
ATOM	830	CB ASN A 107	9.211	-2.344	7.859	1.00	94.44	C
ATOM	831	O ASN A 107	8.367	-1.849	4.949	1.00	94.44	O
ATOM	832	CG ASN A 107	10.727	-2.393	7.766	1.00	94.44	C
ATOM	833	ND2 ASN A 107	11.250	-3.484	7.227	1.00	94.44	N
ATOM	834	OD1 ASN A 107	11.414	-1.456	8.180	1.00	94.44	O
ATOM	835	N VAL A 108	9.844	-0.185	5.406	1.00	93.31	N
ATOM	836	CA VAL A 108	10.219	-0.051	4.000	1.00	93.31	C
ATOM	837	C VAL A 108	11.695	-0.384	3.826	1.00	93.31	C
ATOM	838	CB VAL A 108	9.922	1.369	3.469	1.00	93.31	C
ATOM	839	O VAL A 108	12.555	0.166	4.527	1.00	93.31	O
ATOM	840	CG1 VAL A 108	10.266	1.470	1.982	1.00	93.31	C
ATOM	841	CG2 VAL A 108	8.461	1.738	3.713	1.00	93.31	C
ATOM	842	N THR A 109	11.945	-1.301	2.957	1.00	93.69	N
ATOM	843	CA THR A 109	13.328	-1.630	2.635	1.00	93.69	C
ATOM	844	C THR A 109	13.586	-1.477	1.139	1.00	93.69	C
ATOM	845	CB THR A 109	13.680	-3.064	3.074	1.00	93.69	C
ATOM	846	O THR A 109	12.688	-1.677	0.324	1.00	93.69	O
ATOM	847	CG2 THR A 109	13.539	-3.229	4.582	1.00	93.69	C
ATOM	848	OG1 THR A 109	12.805	-3.986	2.418	1.00	93.69	O
ATOM	849	N LYS A 110	14.766	-0.983	0.841	1.00	92.81	N
ATOM	850	CA LYS A 110	15.180	-0.769	-0.542	1.00	92.81	C
ATOM	851	C LYS A 110	16.438	-1.577	-0.870	1.00	92.81	C
ATOM	852	CB LYS A 110	15.430	0.717	-0.804	1.00	92.81	C
ATOM	853	O LYS A 110	17.406	-1.556	-0.116	1.00	92.81	O
ATOM	854	CG LYS A 110	15.812	1.036	-2.242	1.00	92.81	C
ATOM	855	CD LYS A 110	16.062	2.525	-2.434	1.00	92.81	C
ATOM	856	CE LYS A 110	16.500	2.838	-3.859	1.00	92.81	C
ATOM	857	NZ LYS A 110	16.781	4.297	-4.047	1.00	92.81	N
ATOM	858	N ASP A 111	16.266	-2.387	-1.924	1.00	94.19	N
ATOM	859	CA ASP A 111	17.391	-3.184	-2.396	1.00	94.19	C
ATOM	860	C ASP A 111	17.781	-2.807	-3.826	1.00	94.19	C
ATOM	861	CB ASP A 111	17.078	-4.676	-2.316	1.00	94.19	C
ATOM	862	O ASP A 111	16.938	-2.824	-4.723	1.00	94.19	O
ATOM	863	CG ASP A 111	18.281	-5.562	-2.568	1.00	94.19	C
ATOM	864	OD1 ASP A 111	19.266	-5.492	-1.798	1.00	94.19	O
ATOM	865	OD2 ASP A 111	18.250	-6.340	-3.547	1.00	94.19	O
ATOM	866	N VAL A 112	19.078	-2.535	-3.969	1.00	94.50	N
ATOM	867	CA VAL A 112	19.578	-2.162	-5.293	1.00	94.50	C
ATOM	868	C VAL A 112	20.609	-3.176	-5.766	1.00	94.50	C
ATOM	869	CB VAL A 112	20.172	-0.739	-5.293	1.00	94.50	C
ATOM	870	O VAL A 112	21.562	-3.473	-5.047	1.00	94.50	O
ATOM	871	CG1 VAL A 112	20.688	-0.369	-6.684	1.00	94.50	C
ATOM	872	CG2 VAL A 112	19.141	0.279	-4.809	1.00	94.50	C
ATOM	873	N LYS A 113	20.328	-3.812	-6.891	1.00	93.75	N
ATOM	874	CA LYS A 113	21.266	-4.746	-7.512	1.00	93.75	C
ATOM	875	C LYS A 113	21.781	-4.211	-8.852	1.00	93.75	C
ATOM	876	CB LYS A 113	20.609	-6.113	-7.711	1.00	93.75	C
ATOM	877	O LYS A 113	20.984	-3.818	-9.711	1.00	93.75	O

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ATOM	878	CG	LYS A 113	20.328	-6.859	-6.414	1.00	93.75	C
ATOM	879	CD	LYS A 113	19.750	-8.242	-6.680	1.00	93.75	C
ATOM	880	CE	LYS A 113	19.375	-8.953	-5.387	1.00	93.75	C
ATOM	881	NZ	LYS A 113	18.719	-10.266	-5.645	1.00	93.75	N
ATOM	882	N	GLU A 114	23.094	-4.059	-8.953	1.00	94.94	N
ATOM	883	CA	GLU A 114	23.703	-3.607	-10.203	1.00	94.94	C
ATOM	884	C	GLU A 114	24.547	-4.711	-10.836	1.00	94.94	C
ATOM	885	CB	GLU A 114	24.547	-2.357	-9.977	1.00	94.94	C
ATOM	886	O	GLU A 114	25.234	-5.453	-10.133	1.00	94.94	O
ATOM	887	CG	GLU A 114	23.766	-1.153	-9.484	1.00	94.94	C
ATOM	888	CD	GLU A 114	24.625	0.065	-9.211	1.00	94.94	C
ATOM	889	OE1	GLU A 114	24.328	1.155	-9.750	1.00	94.94	O
ATOM	890	OE2	GLU A 114	25.609	-0.072	-8.461	1.00	94.94	O
ATOM	891	N	SER A 115	24.266	-4.914	-12.094	1.00	93.88	N
ATOM	892	CA	SER A 115	25.094	-5.883	-12.805	1.00	93.88	C
ATOM	893	C	SER A 115	25.547	-5.336	-14.148	1.00	93.88	C
ATOM	894	CB	SER A 115	24.328	-7.191	-13.008	1.00	93.88	C
ATOM	895	O	SER A 115	24.969	-4.387	-14.672	1.00	93.88	O
ATOM	896	OG	SER A 115	23.219	-6.996	-13.875	1.00	93.88	O
ATOM	897	N	LYS A 116	26.750	-5.793	-14.445	1.00	94.06	N
ATOM	898	CA	LYS A 116	27.344	-5.395	-15.727	1.00	94.06	C
ATOM	899	C	LYS A 116	27.672	-6.613	-16.578	1.00	94.06	C
ATOM	900	CB	LYS A 116	28.594	-4.547	-15.500	1.00	94.06	C
ATOM	901	O	LYS A 116	28.234	-7.594	-16.078	1.00	94.06	O
ATOM	902	CG	LYS A 116	29.172	-3.947	-16.781	1.00	94.06	C
ATOM	903	CD	LYS A 116	30.375	-3.068	-16.484	1.00	94.06	C
ATOM	904	CE	LYS A 116	30.984	-2.504	-17.766	1.00	94.06	C
ATOM	905	NZ	LYS A 116	32.188	-1.682	-17.484	1.00	94.06	N
ATOM	906	N	GLU A 117	27.156	-6.582	-17.844	1.00	93.31	N
ATOM	907	CA	GLU A 117	27.438	-7.652	-18.781	1.00	93.31	C
ATOM	908	C	GLU A 117	28.172	-7.125	-20.016	1.00	93.31	C
ATOM	909	CB	GLU A 117	26.141	-8.352	-19.203	1.00	93.31	C
ATOM	910	O	GLU A 117	27.750	-6.137	-20.625	1.00	93.31	O
ATOM	911	CG	GLU A 117	26.375	-9.602	-20.062	1.00	93.31	C
ATOM	912	CD	GLU A 117	25.078	-10.266	-20.500	1.00	93.31	C
ATOM	913	OE1	GLU A 117	25.141	-11.273	-21.234	1.00	93.31	O
ATOM	914	OE2	GLU A 117	24.000	-9.766	-20.125	1.00	93.31	O
ATOM	915	N	VAL A 118	29.344	-7.754	-20.297	1.00	93.75	N
ATOM	916	CA	VAL A 118	30.141	-7.332	-21.438	1.00	93.75	C
ATOM	917	C	VAL A 118	30.141	-8.422	-22.516	1.00	93.75	C
ATOM	918	CB	VAL A 118	31.594	-6.996	-21.031	1.00	93.75	C
ATOM	919	O	VAL A 118	30.469	-9.578	-22.234	1.00	93.75	O
ATOM	920	CG1	VAL A 118	32.406	-6.512	-22.234	1.00	93.75	C
ATOM	921	CG2	VAL A 118	31.594	-5.945	-19.922	1.00	93.75	C
ATOM	922	N	LYS A 119	29.578	-8.086	-23.703	1.00	91.44	N
ATOM	923	CA	LYS A 119	29.562	-9.039	-24.812	1.00	91.44	C
ATOM	924	C	LYS A 119	30.188	-8.430	-26.062	1.00	91.44	C
ATOM	925	CB	LYS A 119	28.125	-9.484	-25.109	1.00	91.44	C
ATOM	926	O	LYS A 119	30.078	-7.227	-26.297	1.00	91.44	O
ATOM	927	CG	LYS A 119	27.516	-10.359	-24.016	1.00	91.44	C
ATOM	928	CD	LYS A 119	26.141	-10.867	-24.422	1.00	91.44	C
ATOM	929	CE	LYS A 119	25.531	-11.758	-23.344	1.00	91.44	C
ATOM	930	NZ	LYS A 119	24.172	-12.258	-23.734	1.00	91.44	N

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ATOM	931	N	THR A 120	30.984	-9.234	-26.781	1.00	92.06	N
ATOM	932	CA	THR A 120	31.500	-8.844	-28.078	1.00	92.06	C
ATOM	933	C	THR A 120	30.688	-9.492	-29.203	1.00	92.06	C
ATOM	934	CB	THR A 120	32.969	-9.234	-28.234	1.00	92.06	C
ATOM	935	O	THR A 120	30.500	-10.711	-29.219	1.00	92.06	O
ATOM	936	CG2	THR A 120	33.562	-8.734	-29.562	1.00	92.06	C
ATOM	937	OG1	THR A 120	33.750	-8.664	-27.172	1.00	92.06	O
ATOM	938	N	ASN A 121	29.875	-8.695	-30.031	1.00	85.94	N
ATOM	939	CA	ASN A 121	29.000	-9.258	-31.062	1.00	85.94	C
ATOM	940	C	ASN A 121	29.812	-9.734	-32.281	1.00	85.94	C
ATOM	941	CB	ASN A 121	27.953	-8.234	-31.500	1.00	85.94	C
ATOM	942	O	ASN A 121	31.047	-9.695	-32.250	1.00	85.94	O
ATOM	943	CG	ASN A 121	28.562	-7.039	-32.219	1.00	85.94	C
ATOM	944	ND2	ASN A 121	27.781	-5.980	-32.375	1.00	85.94	N
ATOM	945	OD1	ASN A 121	29.734	-7.066	-32.594	1.00	85.94	O
ATOM	946	N	GLU A 122	29.312	-10.430	-33.250	1.00	88.94	N
ATOM	947	CA	GLU A 122	29.875	-11.094	-34.406	1.00	88.94	C
ATOM	948	C	GLU A 122	30.609	-10.102	-35.312	1.00	88.94	C
ATOM	949	CB	GLU A 122	28.797	-11.820	-35.219	1.00	88.94	C
ATOM	950	O	GLU A 122	31.484	-10.484	-36.094	1.00	88.94	O
ATOM	951	CG	GLU A 122	28.156	-12.977	-34.469	1.00	88.94	C
ATOM	952	CD	GLU A 122	27.125	-13.734	-35.281	1.00	88.94	C
ATOM	953	OE1	GLU A 122	26.969	-14.961	-35.094	1.00	88.94	O
ATOM	954	OE2	GLU A 122	26.469	-13.094	-36.156	1.00	88.94	O
ATOM	955	N	ASN A 123	30.375	-8.664	-35.062	1.00	86.06	N
ATOM	956	CA	ASN A 123	30.984	-7.609	-35.844	1.00	86.06	C
ATOM	957	C	ASN A 123	32.188	-6.977	-35.156	1.00	86.06	C
ATOM	958	CB	ASN A 123	29.938	-6.539	-36.188	1.00	86.06	C
ATOM	959	O	ASN A 123	32.750	-6.008	-35.656	1.00	86.06	O
ATOM	960	CG	ASN A 123	28.797	-7.086	-37.031	1.00	86.06	C
ATOM	961	ND2	ASN A 123	27.594	-6.582	-36.781	1.00	86.06	N
ATOM	962	OD1	ASN A 123	28.984	-7.949	-37.875	1.00	86.06	O
ATOM	963	N	GLY A 124	32.594	-7.598	-33.906	1.00	85.12	N
ATOM	964	CA	GLY A 124	33.750	-7.059	-33.219	1.00	85.12	C
ATOM	965	C	GLY A 124	33.438	-5.828	-32.406	1.00	85.12	C
ATOM	966	O	GLY A 124	34.344	-5.145	-31.922	1.00	85.12	O
ATOM	967	N	GLU A 125	32.125	-5.496	-32.344	1.00	89.94	N
ATOM	968	CA	GLU A 125	31.594	-4.438	-31.484	1.00	89.94	C
ATOM	969	C	GLU A 125	31.438	-4.914	-30.031	1.00	89.94	C
ATOM	970	CB	GLU A 125	30.250	-3.939	-32.031	1.00	89.94	C
ATOM	971	O	GLU A 125	30.953	-6.020	-29.797	1.00	89.94	O
ATOM	972	CG	GLU A 125	29.719	-2.711	-31.297	1.00	89.94	C
ATOM	973	CD	GLU A 125	28.375	-2.236	-31.844	1.00	89.94	C
ATOM	974	OE1	GLU A 125	27.859	-1.202	-31.359	1.00	89.94	O
ATOM	975	OE2	GLU A 125	27.844	-2.904	-32.750	1.00	89.94	O
ATOM	976	N	VAL A 126	31.969	-4.176	-29.031	1.00	92.31	N
ATOM	977	CA	VAL A 126	31.812	-4.457	-27.594	1.00	92.31	C
ATOM	978	C	VAL A 126	30.484	-3.887	-27.109	1.00	92.31	C
ATOM	979	CB	VAL A 126	32.969	-3.879	-26.766	1.00	92.31	C
ATOM	980	O	VAL A 126	30.203	-2.703	-27.312	1.00	92.31	O
ATOM	981	CG1	VAL A 126	32.781	-4.168	-25.281	1.00	92.31	C
ATOM	982	CG2	VAL A 126	34.312	-4.449	-27.250	1.00	92.31	C
ATOM	983	N	ILE A 127	29.578	-4.738	-26.609	1.00	91.50	N

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ATOM	984	CA	ILE A 127	28.312	-4.324	-26.031	1.00	91.50	C
ATOM	985	C	ILE A 127	28.375	-4.469	-24.516	1.00	91.50	C
ATOM	986	CB	ILE A 127	27.141	-5.145	-26.609	1.00	91.50	C
ATOM	987	O	ILE A 127	28.578	-5.566	-24.000	1.00	91.50	O
ATOM	988	CG1	ILE A 127	27.078	-5.012	-28.125	1.00	91.50	C
ATOM	989	CG2	ILE A 127	25.812	-4.699	-25.969	1.00	91.50	C
ATOM	990	CD1	ILE A 127	26.094	-5.949	-28.797	1.00	91.50	C
ATOM	991	N	ILE A 128	28.297	-3.266	-23.844	1.00	93.25	N
ATOM	992	CA	ILE A 128	28.219	-3.250	-22.391	1.00	93.25	C
ATOM	993	C	ILE A 128	26.781	-3.029	-21.953	1.00	93.25	C
ATOM	994	CB	ILE A 128	29.141	-2.162	-21.781	1.00	93.25	C
ATOM	995	O	ILE A 128	26.156	-2.027	-22.312	1.00	93.25	O
ATOM	996	CG1	ILE A 128	30.578	-2.365	-22.250	1.00	93.25	C
ATOM	997	CG2	ILE A 128	29.047	-2.164	-20.266	1.00	93.25	C
ATOM	998	CD1	ILE A 128	31.516	-1.214	-21.906	1.00	93.25	C
ATOM	999	N	THR A 129	26.250	-3.992	-21.281	1.00	93.62	N
ATOM	1000	CA	THR A 129	24.922	-3.844	-20.719	1.00	93.62	C
ATOM	1001	C	THR A 129	24.984	-3.609	-19.203	1.00	93.62	C
ATOM	1002	CB	THR A 129	24.047	-5.082	-21.000	1.00	93.62	C
ATOM	1003	O	THR A 129	25.453	-4.473	-18.453	1.00	93.62	O
ATOM	1004	CG2	THR A 129	22.625	-4.883	-20.500	1.00	93.62	C
ATOM	1005	OG1	THR A 129	24.016	-5.316	-22.422	1.00	93.62	O
ATOM	1006	N	GLU A 130	24.594	-2.412	-18.828	1.00	94.88	N
ATOM	1007	CA	GLU A 130	24.484	-2.078	-17.406	1.00	94.88	C
ATOM	1008	C	GLU A 130	23.047	-2.227	-16.922	1.00	94.88	C
ATOM	1009	CB	GLU A 130	24.984	-0.653	-17.156	1.00	94.88	C
ATOM	1010	O	GLU A 130	22.125	-1.615	-17.469	1.00	94.88	O
ATOM	1011	CG	GLU A 130	26.453	-0.438	-17.516	1.00	94.88	C
ATOM	1012	CD	GLU A 130	26.938	0.978	-17.250	1.00	94.88	C
ATOM	1013	OE1	GLU A 130	28.156	1.207	-17.250	1.00	94.88	O
ATOM	1014	OE2	GLU A 130	26.078	1.865	-17.047	1.00	94.88	O
ATOM	1015	N	LYS A 131	22.828	-3.115	-15.992	1.00	94.62	N
ATOM	1016	CA	LYS A 131	21.500	-3.367	-15.445	1.00	94.62	C
ATOM	1017	C	LYS A 131	21.406	-2.881	-14.000	1.00	94.62	C
ATOM	1018	CB	LYS A 131	21.172	-4.855	-15.516	1.00	94.62	C
ATOM	1019	O	LYS A 131	22.281	-3.160	-13.180	1.00	94.62	O
ATOM	1020	CG	LYS A 131	21.078	-5.398	-16.938	1.00	94.62	C
ATOM	1021	CD	LYS A 131	20.734	-6.883	-16.953	1.00	94.62	C
ATOM	1022	CE	LYS A 131	20.719	-7.445	-18.359	1.00	94.62	C
ATOM	1023	NZ	LYS A 131	20.438	-8.914	-18.375	1.00	94.62	N
ATOM	1024	N	LYS A 132	20.453	-2.043	-13.781	1.00	93.88	N
ATOM	1025	CA	LYS A 132	20.125	-1.599	-12.430	1.00	93.88	C
ATOM	1026	C	LYS A 132	18.734	-2.068	-12.023	1.00	93.88	C
ATOM	1027	CB	LYS A 132	20.219	-0.075	-12.328	1.00	93.88	C
ATOM	1028	O	LYS A 132	17.750	-1.724	-12.672	1.00	93.88	O
ATOM	1029	CG	LYS A 132	20.047	0.462	-10.914	1.00	93.88	C
ATOM	1030	CD	LYS A 132	20.188	1.978	-10.867	1.00	93.88	C
ATOM	1031	CE	LYS A 132	20.016	2.518	-9.453	1.00	93.88	C
ATOM	1032	NZ	LYS A 132	20.172	4.000	-9.406	1.00	93.88	N
ATOM	1033	N	GLU A 133	18.672	-2.912	-11.039	1.00	94.62	N
ATOM	1034	CA	GLU A 133	17.406	-3.408	-10.516	1.00	94.62	C
ATOM	1035	C	GLU A 133	17.156	-2.906	-9.094	1.00	94.62	C
ATOM	1036	CB	GLU A 133	17.359	-4.938	-10.547	1.00	94.62	C

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ATOM	1037	O	GLU A 133	18.000	-3.094	-8.211	1.00	94.62	O
ATOM	1038	CG	GLU A 133	17.422	-5.527	-11.945	1.00	94.62	C
ATOM	1039	CD	GLU A 133	17.359	-7.047	-11.961	1.00	94.62	C
ATOM	1040	OE1	GLU A 133	17.016	-7.629	-13.016	1.00	94.62	O
ATOM	1041	OE2	GLU A 133	17.656	-7.660	-10.914	1.00	94.62	O
ATOM	1042	N	THR A 134	16.156	-2.176	-8.977	1.00	93.44	N
ATOM	1043	CA	THR A 134	15.758	-1.661	-7.672	1.00	93.44	C
ATOM	1044	C	THR A 134	14.508	-2.377	-7.176	1.00	93.44	C
ATOM	1045	CB	THR A 134	15.500	-0.144	-7.730	1.00	93.44	C
ATOM	1046	O	THR A 134	13.531	-2.518	-7.914	1.00	93.44	O
ATOM	1047	CG2	THR A 134	15.117	0.398	-6.355	1.00	93.44	C
ATOM	1048	OG1	THR A 134	16.688	0.522	-8.180	1.00	93.44	O
ATOM	1049	N	THR A 135	14.617	-2.930	-5.973	1.00	94.31	N
ATOM	1050	CA	THR A 135	13.453	-3.549	-5.336	1.00	94.31	C
ATOM	1051	C	THR A 135	13.062	-2.789	-4.074	1.00	94.31	C
ATOM	1052	CB	THR A 135	13.734	-5.023	-4.988	1.00	94.31	C
ATOM	1053	O	THR A 135	13.891	-2.594	-3.180	1.00	94.31	O
ATOM	1054	CG2	THR A 135	12.492	-5.688	-4.395	1.00	94.31	C
ATOM	1055	OG1	THR A 135	14.109	-5.727	-6.180	1.00	94.31	O
ATOM	1056	N	ILE A 136	11.836	-2.311	-3.988	1.00	93.50	N
ATOM	1057	CA	ILE A 136	11.297	-1.656	-2.805	1.00	93.50	C
ATOM	1058	C	ILE A 136	10.328	-2.600	-2.090	1.00	93.50	C
ATOM	1059	CB	ILE A 136	10.578	-0.334	-3.168	1.00	93.50	C
ATOM	1060	O	ILE A 136	9.359	-3.074	-2.688	1.00	93.50	O
ATOM	1061	CG1	ILE A 136	11.547	0.615	-3.885	1.00	93.50	C
ATOM	1062	CG2	ILE A 136	9.992	0.325	-1.916	1.00	93.50	C
ATOM	1063	CD1	ILE A 136	10.875	1.835	-4.500	1.00	93.50	C
ATOM	1064	N	ASN A 137	10.703	-2.949	-0.845	1.00	94.56	N
ATOM	1065	CA	ASN A 137	9.828	-3.807	-0.049	1.00	94.56	C
ATOM	1066	C	ASN A 137	9.055	-3.006	0.997	1.00	94.56	C
ATOM	1067	CB	ASN A 137	10.641	-4.918	0.624	1.00	94.56	C
ATOM	1068	O	ASN A 137	9.656	-2.301	1.811	1.00	94.56	O
ATOM	1069	CG	ASN A 137	11.297	-5.848	-0.376	1.00	94.56	C
ATOM	1070	ND2	ASN A 137	12.617	-5.727	-0.515	1.00	94.56	N
ATOM	1071	OD1	ASN A 137	10.633	-6.660	-1.020	1.00	94.56	O
ATOM	1072	N	ILE A 138	7.688	-3.102	0.858	1.00	95.00	N
ATOM	1073	CA	ILE A 138	6.828	-2.439	1.832	1.00	95.00	C
ATOM	1074	C	ILE A 138	6.117	-3.486	2.688	1.00	95.00	C
ATOM	1075	CB	ILE A 138	5.793	-1.521	1.141	1.00	95.00	C
ATOM	1076	O	ILE A 138	5.250	-4.215	2.197	1.00	95.00	O
ATOM	1077	CG1	ILE A 138	6.504	-0.489	0.258	1.00	95.00	C
ATOM	1078	CG2	ILE A 138	4.902	-0.833	2.178	1.00	95.00	C
ATOM	1079	CD1	ILE A 138	5.562	0.336	-0.610	1.00	95.00	C
ATOM	1080	N	ASP A 139	6.570	-3.578	3.900	1.00	96.19	N
ATOM	1081	CA	ASP A 139	5.973	-4.516	4.848	1.00	96.19	C
ATOM	1082	C	ASP A 139	5.012	-3.801	5.797	1.00	96.19	C
ATOM	1083	CB	ASP A 139	7.062	-5.234	5.645	1.00	96.19	C
ATOM	1084	O	ASP A 139	5.402	-2.863	6.496	1.00	96.19	O
ATOM	1085	CG	ASP A 139	8.008	-6.043	4.770	1.00	96.19	C
ATOM	1086	OD1	ASP A 139	7.543	-6.969	4.070	1.00	96.19	O
ATOM	1087	OD2	ASP A 139	9.219	-5.750	4.785	1.00	96.19	O
ATOM	1088	N	VAL A 140	3.754	-4.301	5.742	1.00	96.75	N
ATOM	1089	CA	VAL A 140	2.727	-3.672	6.566	1.00	96.75	C

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ATOM	1090	C	VAL A 140	2.141	-4.695	7.539	1.00	96.75	C
ATOM	1091	CB	VAL A 140	1.605	-3.053	5.703	1.00	96.75	C
ATOM	1092	O	VAL A 140	1.719	-5.777	7.125	1.00	96.75	O
ATOM	1093	CG1	VAL A 140	0.608	-2.293	6.578	1.00	96.75	C
ATOM	1094	CG2	VAL A 140	2.199	-2.131	4.641	1.00	96.75	C
ATOM	1095	N	ASN A 141	2.260	-4.391	8.766	1.00	96.50	N
ATOM	1096	CA	ASN A 141	1.608	-5.191	9.797	1.00	96.50	C
ATOM	1097	C	ASN A 141	0.397	-4.477	10.383	1.00	96.50	C
ATOM	1098	CB	ASN A 141	2.602	-5.551	10.898	1.00	96.50	C
ATOM	1099	O	ASN A 141	0.522	-3.371	10.914	1.00	96.50	O
ATOM	1100	CG	ASN A 141	3.736	-6.430	10.406	1.00	96.50	C
ATOM	1101	ND2	ASN A 141	4.949	-5.891	10.422	1.00	96.50	N
ATOM	1102	OD1	ASN A 141	3.521	-7.578	10.016	1.00	96.50	O
ATOM	1103	N	VAL A 142	-0.817	-5.160	10.188	1.00	96.19	N
ATOM	1104	CA	VAL A 142	-2.059	-4.539	10.641	1.00	96.19	C
ATOM	1105	C	VAL A 142	-2.719	-5.406	11.703	1.00	96.19	C
ATOM	1106	CB	VAL A 142	-3.033	-4.305	9.461	1.00	96.19	C
ATOM	1107	O	VAL A 142	-2.906	-6.609	11.508	1.00	96.19	O
ATOM	1108	CG1	VAL A 142	-4.293	-3.584	9.938	1.00	96.19	C
ATOM	1109	CG2	VAL A 142	-2.348	-3.508	8.352	1.00	96.19	C
ATOM	1110	N	THR A 143	-2.938	-4.816	12.852	1.00	95.19	N
ATOM	1111	CA	THR A 143	-3.736	-5.492	13.867	1.00	95.19	C
ATOM	1112	C	THR A 143	-5.180	-5.004	13.836	1.00	95.19	C
ATOM	1113	CB	THR A 143	-3.150	-5.273	15.273	1.00	95.19	C
ATOM	1114	O	THR A 143	-5.441	-3.803	13.938	1.00	95.19	O
ATOM	1115	CG2	THR A 143	-3.953	-6.027	16.328	1.00	95.19	C
ATOM	1116	OG1	THR A 143	-1.795	-5.738	15.305	1.00	95.19	O
ATOM	1117	N	VAL A 144	-6.086	-6.012	13.586	1.00	93.62	N
ATOM	1118	CA	VAL A 144	-7.512	-5.719	13.484	1.00	93.62	C
ATOM	1119	C	VAL A 144	-8.211	-6.086	14.789	1.00	93.62	C
ATOM	1120	CB	VAL A 144	-8.156	-6.469	12.297	1.00	93.62	C
ATOM	1121	O	VAL A 144	-7.992	-7.172	15.336	1.00	93.62	O
ATOM	1122	CG1	VAL A 144	-9.648	-6.137	12.195	1.00	93.62	C
ATOM	1123	CG2	VAL A 144	-7.441	-6.129	10.992	1.00	93.62	C
TER									
ENDMDL									
MODEL	1								
ATOM	1	N	MET A 1	-25.672	8.898	35.062	1.00	89.38	N
ATOM	2	CA	MET A 1	-24.625	8.156	34.375	1.00	89.38	C
ATOM	3	C	MET A 1	-24.391	8.734	32.969	1.00	89.38	C
ATOM	4	CB	MET A 1	-24.984	6.676	34.281	1.00	89.38	C
ATOM	5	O	MET A 1	-25.359	9.008	32.250	1.00	89.38	O
ATOM	6	CG	MET A 1	-23.891	5.820	33.656	1.00	89.38	C
ATOM	7	SD	MET A 1	-24.297	4.031	33.688	1.00	89.38	S
ATOM	8	CE	MET A 1	-22.734	3.336	33.094	1.00	89.38	C
ATOM	9	N	THR A 2	-23.203	9.117	32.688	1.00	93.69	N
ATOM	10	CA	THR A 2	-22.766	9.523	31.359	1.00	93.69	C
ATOM	11	C	THR A 2	-21.797	8.508	30.781	1.00	93.69	C
ATOM	12	CB	THR A 2	-22.109	10.922	31.391	1.00	93.69	C
ATOM	13	O	THR A 2	-20.828	8.117	31.422	1.00	93.69	O
ATOM	14	CG2	THR A 2	-21.734	11.367	29.984	1.00	93.69	C
ATOM	15	OG1	THR A 2	-23.031	11.867	31.938	1.00	93.69	O
ATOM	16	N	VAL A 3	-22.078	8.000	29.594	1.00	93.50	N

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ATOM	17	CA	VAL	A	3	-21.188	7.105	28.875	1.00	93.50	C
ATOM	18	C	VAL	A	3	-20.609	7.820	27.656	1.00	93.50	C
ATOM	19	CB	VAL	A	3	-21.922	5.812	28.438	1.00	93.50	C
ATOM	20	O	VAL	A	3	-21.359	8.367	26.828	1.00	93.50	O
ATOM	21	CG1	VAL	A	3	-20.969	4.887	27.672	1.00	93.50	C
ATOM	22	CG2	VAL	A	3	-22.500	5.098	29.656	1.00	93.50	C
ATOM	23	N	ILE	A	4	-19.266	7.891	27.641	1.00	93.12	N
ATOM	24	CA	ILE	A	4	-18.547	8.469	26.516	1.00	93.12	C
ATOM	25	C	ILE	A	4	-17.844	7.359	25.734	1.00	93.12	C
ATOM	26	CB	ILE	A	4	-17.516	9.523	26.984	1.00	93.12	C
ATOM	27	O	ILE	A	4	-17.047	6.594	26.297	1.00	93.12	O
ATOM	28	CG1	ILE	A	4	-18.234	10.633	27.781	1.00	93.12	C
ATOM	29	CG2	ILE	A	4	-16.750	10.102	25.797	1.00	93.12	C
ATOM	30	CD1	ILE	A	4	-17.281	11.562	28.516	1.00	93.12	C
ATOM	31	N	GLU	A	5	-18.156	7.281	24.391	1.00	94.62	N
ATOM	32	CA	GLU	A	5	-17.516	6.277	23.531	1.00	94.62	C
ATOM	33	C	GLU	A	5	-16.609	6.934	22.500	1.00	94.62	C
ATOM	34	CB	GLU	A	5	-18.578	5.418	22.844	1.00	94.62	C
ATOM	35	O	GLU	A	5	-17.031	7.840	21.781	1.00	94.62	O
ATOM	36	CG	GLU	A	5	-19.406	4.570	23.797	1.00	94.62	C
ATOM	37	CD	GLU	A	5	-20.406	3.674	23.078	1.00	94.62	C
ATOM	38	OE1	GLU	A	5	-21.125	2.904	23.766	1.00	94.62	O
ATOM	39	OE2	GLU	A	5	-20.484	3.742	21.844	1.00	94.62	O
ATOM	40	N	GLU	A	6	-15.391	6.496	22.516	1.00	92.81	N
ATOM	41	CA	GLU	A	6	-14.398	6.930	21.547	1.00	92.81	C
ATOM	42	C	GLU	A	6	-13.836	5.746	20.766	1.00	92.81	C
ATOM	43	CB	GLU	A	6	-13.266	7.695	22.234	1.00	92.81	C
ATOM	44	O	GLU	A	6	-13.289	4.812	21.344	1.00	92.81	O
ATOM	45	CG	GLU	A	6	-12.234	8.258	21.266	1.00	92.81	C
ATOM	46	CD	GLU	A	6	-11.102	8.992	21.969	1.00	92.81	C
ATOM	47	OE1	GLU	A	6	-10.125	9.398	21.281	1.00	92.81	O
ATOM	48	OE2	GLU	A	6	-11.188	9.172	23.203	1.00	92.81	O
ATOM	49	N	ASN	A	7	-14.172	5.805	19.438	1.00	93.75	N
ATOM	50	CA	ASN	A	7	-13.680	4.730	18.578	1.00	93.75	C
ATOM	51	C	ASN	A	7	-12.758	5.262	17.500	1.00	93.75	C
ATOM	52	CB	ASN	A	7	-14.852	3.971	17.953	1.00	93.75	C
ATOM	53	O	ASN	A	7	-13.078	6.238	16.812	1.00	93.75	O
ATOM	54	CG	ASN	A	7	-15.797	3.391	19.000	1.00	93.75	C
ATOM	55	ND2	ASN	A	7	-17.062	3.773	18.922	1.00	93.75	N
ATOM	56	OD1	ASN	A	7	-15.383	2.604	19.859	1.00	93.75	O
ATOM	57	N	LYS	A	8	-11.617	4.648	17.453	1.00	94.50	N
ATOM	58	CA	LYS	A	8	-10.648	5.008	16.422	1.00	94.50	C
ATOM	59	C	LYS	A	8	-10.172	3.773	15.656	1.00	94.50	C
ATOM	60	CB	LYS	A	8	-9.445	5.734	17.031	1.00	94.50	C
ATOM	61	O	LYS	A	8	-9.883	2.740	16.266	1.00	94.50	O
ATOM	62	CG	LYS	A	8	-8.461	6.270	16.000	1.00	94.50	C
ATOM	63	CD	LYS	A	8	-7.309	7.012	16.672	1.00	94.50	C
ATOM	64	CE	LYS	A	8	-6.305	7.523	15.656	1.00	94.50	C
ATOM	65	NZ	LYS	A	8	-5.191	8.281	16.297	1.00	94.50	N
ATOM	66	N	THR	A	9	-10.188	3.908	14.406	1.00	95.75	N
ATOM	67	CA	THR	A	9	-9.664	2.836	13.570	1.00	95.75	C
ATOM	68	C	THR	A	9	-8.508	3.336	12.711	1.00	95.75	C
ATOM	69	CB	THR	A	9	-10.766	2.248	12.664	1.00	95.75	C

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ATOM	70	O	THR	A	9	-8.641	4.336	12.000	1.00	95.75	O
ATOM	71	CG2	THR	A	9	-10.219	1.113	11.805	1.00	95.75	C
ATOM	72	OG1	THR	A	9	-11.828	1.743	13.477	1.00	95.75	O
ATOM	73	N	THR	A	10	-7.379	2.625	12.797	1.00	96.31	N
ATOM	74	CA	THR	A	10	-6.172	2.908	12.031	1.00	96.31	C
ATOM	75	C	THR	A	10	-5.895	1.795	11.023	1.00	96.31	C
ATOM	76	CB	THR	A	10	-4.949	3.082	12.953	1.00	96.31	C
ATOM	77	O	THR	A	10	-5.945	0.613	11.367	1.00	96.31	O
ATOM	78	CG2	THR	A	10	-3.703	3.445	12.156	1.00	96.31	C
ATOM	79	OG1	THR	A	10	-5.219	4.121	13.898	1.00	96.31	O
ATOM	80	N	VAL	A	11	-5.625	2.201	9.773	1.00	96.88	N
ATOM	81	CA	VAL	A	11	-5.281	1.237	8.734	1.00	96.88	C
ATOM	82	C	VAL	A	11	-3.814	1.400	8.344	1.00	96.88	C
ATOM	83	CB	VAL	A	11	-6.188	1.396	7.492	1.00	96.88	C
ATOM	84	O	VAL	A	11	-3.385	2.492	7.961	1.00	96.88	O
ATOM	85	CG1	VAL	A	11	-5.922	0.279	6.484	1.00	96.88	C
ATOM	86	CG2	VAL	A	11	-7.656	1.412	7.902	1.00	96.88	C
ATOM	87	N	ASN	A	12	-3.092	0.271	8.438	1.00	97.50	N
ATOM	88	CA	ASN	A	12	-1.674	0.254	8.094	1.00	97.50	C
ATOM	89	C	ASN	A	12	-1.409	-0.580	6.848	1.00	97.50	C
ATOM	90	CB	ASN	A	12	-0.844	-0.271	9.273	1.00	97.50	C
ATOM	91	O	ASN	A	12	-1.898	-1.705	6.730	1.00	97.50	O
ATOM	92	CG	ASN	A	12	-0.985	0.583	10.516	1.00	97.50	C
ATOM	93	ND2	ASN	A	12	-1.526	-0.001	11.578	1.00	97.50	N
ATOM	94	OD1	ASN	A	12	-0.613	1.760	10.523	1.00	97.50	O
ATOM	95	N	PHE	A	13	-0.631	0.050	5.922	1.00	97.81	N
ATOM	96	CA	PHE	A	13	-0.144	-0.678	4.758	1.00	97.81	C
ATOM	97	C	PHE	A	13	1.365	-0.876	4.832	1.00	97.81	C
ATOM	98	CB	PHE	A	13	-0.511	0.063	3.467	1.00	97.81	C
ATOM	99	O	PHE	A	13	2.123	0.096	4.871	1.00	97.81	O
ATOM	100	CG	PHE	A	13	-1.993	0.183	3.236	1.00	97.81	C
ATOM	101	CD1	PHE	A	13	-2.672	-0.763	2.479	1.00	97.81	C
ATOM	102	CD2	PHE	A	13	-2.709	1.242	3.779	1.00	97.81	C
ATOM	103	CE1	PHE	A	13	-4.043	-0.655	2.264	1.00	97.81	C
ATOM	104	CE2	PHE	A	13	-4.082	1.357	3.568	1.00	97.81	C
ATOM	105	CZ	PHE	A	13	-4.746	0.408	2.811	1.00	97.81	C
ATOM	106	N	ASN	A	14	1.745	-2.109	4.930	1.00	98.00	N
ATOM	107	CA	ASN	A	14	3.150	-2.502	4.891	1.00	98.00	C
ATOM	108	C	ASN	A	14	3.482	-3.271	3.617	1.00	98.00	C
ATOM	109	CB	ASN	A	14	3.508	-3.336	6.125	1.00	98.00	C
ATOM	110	O	ASN	A	14	3.195	-4.465	3.516	1.00	98.00	O
ATOM	111	CG	ASN	A	14	3.154	-2.639	7.422	1.00	98.00	C
ATOM	112	ND2	ASN	A	14	2.180	-3.184	8.141	1.00	98.00	N
ATOM	113	OD1	ASN	A	14	3.750	-1.618	7.777	1.00	98.00	O
ATOM	114	N	ILE	A	15	4.145	-2.549	2.684	1.00	98.44	N
ATOM	115	CA	ILE	A	15	4.355	-3.141	1.367	1.00	98.44	C
ATOM	116	C	ILE	A	15	5.844	-3.424	1.162	1.00	98.44	C
ATOM	117	CB	ILE	A	15	3.826	-2.223	0.243	1.00	98.44	C
ATOM	118	O	ILE	A	15	6.652	-2.498	1.078	1.00	98.44	O
ATOM	119	CG1	ILE	A	15	2.396	-1.765	0.558	1.00	98.44	C
ATOM	120	CG2	ILE	A	15	3.889	-2.936	-1.110	1.00	98.44	C
ATOM	121	CD1	ILE	A	15	1.927	-0.585	-0.282	1.00	98.44	C
ATOM	122	N	THR	A	16	6.133	-4.699	1.061	1.00	98.50	N

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ATOM	123	CA	THR	A	16	7.508	-5.137	0.853	1.00	98.50	C
ATOM	124	C	THR	A	16	7.738	-5.520	-0.607	1.00	98.50	C
ATOM	125	CB	THR	A	16	7.859	-6.332	1.759	1.00	98.50	C
ATOM	126	O	THR	A	16	6.992	-6.320	-1.171	1.00	98.50	O
ATOM	127	CG2	THR	A	16	9.297	-6.777	1.547	1.00	98.50	C
ATOM	128	OG1	THR	A	16	7.684	-5.953	3.129	1.00	98.50	O
ATOM	129	N	PHE	A	17	8.773	-4.883	-1.188	1.00	98.38	N
ATOM	130	CA	PHE	A	17	9.133	-5.168	-2.572	1.00	98.38	C
ATOM	131	C	PHE	A	17	10.445	-5.941	-2.641	1.00	98.38	C
ATOM	132	CB	PHE	A	17	9.250	-3.869	-3.375	1.00	98.38	C
ATOM	133	O	PHE	A	17	11.445	-5.527	-2.055	1.00	98.38	O
ATOM	134	CG	PHE	A	17	7.977	-3.064	-3.416	1.00	98.38	C
ATOM	135	CD1	PHE	A	17	7.000	-3.330	-4.367	1.00	98.38	C
ATOM	136	CD2	PHE	A	17	7.758	-2.043	-2.500	1.00	98.38	C
ATOM	137	CE1	PHE	A	17	5.820	-2.588	-4.406	1.00	98.38	C
ATOM	138	CE2	PHE	A	17	6.582	-1.297	-2.533	1.00	98.38	C
ATOM	139	CZ	PHE	A	17	5.617	-1.570	-3.488	1.00	98.38	C
ATOM	140	N	LYS	A	18	10.398	-7.023	-3.363	1.00	98.12	N
ATOM	141	CA	LYS	A	18	11.586	-7.832	-3.648	1.00	98.12	C
ATOM	142	C	LYS	A	18	11.891	-7.848	-5.145	1.00	98.12	C
ATOM	143	CB	LYS	A	18	11.391	-9.258	-3.139	1.00	98.12	C
ATOM	144	O	LYS	A	18	11.047	-8.234	-5.953	1.00	98.12	O
ATOM	145	CG	LYS	A	18	11.156	-9.359	-1.639	1.00	98.12	C
ATOM	146	CD	LYS	A	18	10.992	-10.805	-1.191	1.00	98.12	C
ATOM	147	CE	LYS	A	18	10.727	-10.898	0.305	1.00	98.12	C
ATOM	148	NZ	LYS	A	18	10.477	-12.312	0.734	1.00	98.12	N
ATOM	149	N	ALA	A	19	13.109	-7.418	-5.426	1.00	97.69	N
ATOM	150	CA	ALA	A	19	13.469	-7.348	-6.840	1.00	97.69	C
ATOM	151	C	ALA	A	19	14.297	-8.555	-7.262	1.00	97.69	C
ATOM	152	CB	ALA	A	19	14.227	-6.055	-7.133	1.00	97.69	C
ATOM	153	O	ALA	A	19	15.344	-8.828	-6.676	1.00	97.69	O
ATOM	154	N	GLU	A	20	13.781	-9.328	-8.242	1.00	96.19	N
ATOM	155	CA	GLU	A	20	14.492	-10.391	-8.945	1.00	96.19	C
ATOM	156	C	GLU	A	20	14.711	-10.039	-10.406	1.00	96.19	C
ATOM	157	CB	GLU	A	20	13.719	-11.711	-8.828	1.00	96.19	C
ATOM	158	O	GLU	A	20	13.945	-10.453	-11.281	1.00	96.19	O
ATOM	159	CG	GLU	A	20	13.547	-12.203	-7.398	1.00	96.19	C
ATOM	160	CD	GLU	A	20	12.844	-13.547	-7.309	1.00	96.19	C
ATOM	161	OE1	GLU	A	20	12.586	-14.023	-6.180	1.00	96.19	O
ATOM	162	OE2	GLU	A	20	12.562	-14.141	-8.375	1.00	96.19	O
ATOM	163	N	LEU	A	21	15.695	-9.211	-10.625	1.00	94.94	N
ATOM	164	CA	LEU	A	21	15.953	-8.609	-11.930	1.00	94.94	C
ATOM	165	C	LEU	A	21	17.250	-9.148	-12.539	1.00	94.94	C
ATOM	166	CB	LEU	A	21	16.031	-7.086	-11.812	1.00	94.94	C
ATOM	167	O	LEU	A	21	18.094	-9.680	-11.820	1.00	94.94	O
ATOM	168	CG	LEU	A	21	14.805	-6.391	-11.219	1.00	94.94	C
ATOM	169	CD1	LEU	A	21	15.148	-4.965	-10.797	1.00	94.94	C
ATOM	170	CD2	LEU	A	21	13.641	-6.391	-12.211	1.00	94.94	C
ATOM	171	N	PRO	A	22	17.375	-9.062	-13.844	1.00	92.31	N
ATOM	172	CA	PRO	A	22	18.688	-9.359	-14.430	1.00	92.31	C
ATOM	173	C	PRO	A	22	19.781	-8.445	-13.906	1.00	92.31	C
ATOM	174	CB	PRO	A	22	18.453	-9.133	-15.930	1.00	92.31	C
ATOM	175	O	PRO	A	22	19.500	-7.352	-13.406	1.00	92.31	O

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ATOM	176	CG	PRO A 22	16.969	-9.180	-16.109	1.00	92.31	C
ATOM	177	CD	PRO A 22	16.328	-8.711	-14.836	1.00	92.31	C
ATOM	178	N	GLU A 23	21.031	-8.945	-13.992	1.00	91.88	N
ATOM	179	CA	GLU A 23	22.188	-8.195	-13.500	1.00	91.88	C
ATOM	180	C	GLU A 23	22.250	-6.809	-14.133	1.00	91.88	C
ATOM	181	CB	GLU A 23	23.484	-8.961	-13.781	1.00	91.88	C
ATOM	182	O	GLU A 23	22.125	-6.672	-15.352	1.00	91.88	O
ATOM	183	CG	GLU A 23	24.703	-8.375	-13.078	1.00	91.88	C
ATOM	184	CD	GLU A 23	25.969	-9.180	-13.312	1.00	91.88	C
ATOM	185	OE1	GLU A 23	27.047	-8.766	-12.836	1.00	91.88	O
ATOM	186	OE2	GLU A 23	25.891	-10.234	-13.977	1.00	91.88	O
ATOM	187	N	GLY A 24	22.328	-5.734	-13.336	1.00	91.81	N
ATOM	188	CA	GLY A 24	22.469	-4.371	-13.812	1.00	91.81	C
ATOM	189	C	GLY A 24	21.141	-3.662	-14.008	1.00	91.81	C
ATOM	190	O	GLY A 24	21.109	-2.457	-14.273	1.00	91.81	O
ATOM	191	N	ALA A 25	20.078	-4.430	-13.883	1.00	94.62	N
ATOM	192	CA	ALA A 25	18.766	-3.832	-14.062	1.00	94.62	C
ATOM	193	C	ALA A 25	18.250	-3.229	-12.758	1.00	94.62	C
ATOM	194	CB	ALA A 25	17.781	-4.871	-14.586	1.00	94.62	C
ATOM	195	O	ALA A 25	18.688	-3.621	-11.672	1.00	94.62	O
ATOM	196	N	THR A 26	17.375	-2.182	-12.883	1.00	96.75	N
ATOM	197	CA	THR A 26	16.703	-1.554	-11.750	1.00	96.75	C
ATOM	198	C	THR A 26	15.195	-1.464	-11.992	1.00	96.75	C
ATOM	199	CB	THR A 26	17.266	-0.148	-11.469	1.00	96.75	C
ATOM	200	O	THR A 26	14.742	-1.523	-13.133	1.00	96.75	O
ATOM	201	CG2	THR A 26	18.750	-0.204	-11.156	1.00	96.75	C
ATOM	202	OG1	THR A 26	17.062	0.677	-12.625	1.00	96.75	O
ATOM	203	N	ALA A 27	14.492	-1.460	-10.891	1.00	97.94	N
ATOM	204	CA	ALA A 27	13.047	-1.260	-10.961	1.00	97.94	C
ATOM	205	C	ALA A 27	12.633	-0.011	-10.188	1.00	97.94	C
ATOM	206	CB	ALA A 27	12.312	-2.484	-10.422	1.00	97.94	C
ATOM	207	O	ALA A 27	13.023	0.174	-9.039	1.00	97.94	O
ATOM	208	N	LYS A 28	11.875	0.877	-10.875	1.00	98.31	N
ATOM	209	CA	LYS A 28	11.266	2.035	-10.227	1.00	98.31	C
ATOM	210	C	LYS A 28	9.828	1.736	-9.812	1.00	98.31	C
ATOM	211	CB	LYS A 28	11.305	3.250	-11.156	1.00	98.31	C
ATOM	212	O	LYS A 28	9.008	1.320	-10.641	1.00	98.31	O
ATOM	213	CG	LYS A 28	10.836	4.543	-10.500	1.00	98.31	C
ATOM	214	CD	LYS A 28	10.945	5.723	-11.461	1.00	98.31	C
ATOM	215	CE	LYS A 28	10.453	7.012	-10.812	1.00	98.31	C
ATOM	216	NZ	LYS A 28	10.625	8.188	-11.727	1.00	98.31	N
ATOM	217	N	VAL A 29	9.531	1.897	-8.477	1.00	98.50	N
ATOM	218	CA	VAL A 29	8.203	1.605	-7.941	1.00	98.50	C
ATOM	219	C	VAL A 29	7.574	2.881	-7.383	1.00	98.50	C
ATOM	220	CB	VAL A 29	8.258	0.515	-6.848	1.00	98.50	C
ATOM	221	O	VAL A 29	8.180	3.562	-6.555	1.00	98.50	O
ATOM	222	CG1	VAL A 29	6.852	0.201	-6.332	1.00	98.50	C
ATOM	223	CG2	VAL A 29	8.922	-0.748	-7.387	1.00	98.50	C
ATOM	224	N	THR A 30	6.383	3.180	-7.883	1.00	98.56	N
ATOM	225	CA	THR A 30	5.594	4.289	-7.363	1.00	98.56	C
ATOM	226	C	THR A 30	4.344	3.781	-6.652	1.00	98.56	C
ATOM	227	CB	THR A 30	5.191	5.266	-8.484	1.00	98.56	C
ATOM	228	O	THR A 30	3.547	3.047	-7.238	1.00	98.56	O

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ATOM	229	CG2 THR A 30	4.457	6.477	-7.922	1.00	98.56	C
ATOM	230	OG1 THR A 30	6.367	5.707	-9.172	1.00	98.56	O
ATOM	231	N VAL A 31	4.195	4.156	-5.367	1.00	98.62	N
ATOM	232	CA VAL A 31	3.051	3.746	-4.562	1.00	98.62	C
ATOM	233	C VAL A 31	2.211	4.969	-4.195	1.00	98.62	C
ATOM	234	CB VAL A 31	3.494	3.000	-3.283	1.00	98.62	C
ATOM	235	O VAL A 31	2.717	5.918	-3.594	1.00	98.62	O
ATOM	236	CG1 VAL A 31	2.289	2.391	-2.568	1.00	98.62	C
ATOM	237	CG2 VAL A 31	4.520	1.921	-3.623	1.00	98.62	C
ATOM	238	N LYS A 32	0.935	4.941	-4.547	1.00	98.56	N
ATOM	239	CA LYS A 32	0.003	6.023	-4.234	1.00	98.56	C
ATOM	240	C LYS A 32	-1.084	5.551	-3.273	1.00	98.56	C
ATOM	241	CB LYS A 32	-0.630	6.574	-5.512	1.00	98.56	C
ATOM	242	O LYS A 32	-1.706	4.508	-3.496	1.00	98.56	O
ATOM	243	CG LYS A 32	0.364	7.215	-6.469	1.00	98.56	C
ATOM	244	CD LYS A 32	-0.326	7.746	-7.719	1.00	98.56	C
ATOM	245	CE LYS A 32	0.675	8.336	-8.703	1.00	98.56	C
ATOM	246	NZ LYS A 32	-0.001	8.891	-9.914	1.00	98.56	N
ATOM	247	N LEU A 33	-1.240	6.348	-2.207	1.00	98.44	N
ATOM	248	CA LEU A 33	-2.332	6.121	-1.264	1.00	98.44	C
ATOM	249	C LEU A 33	-3.492	7.070	-1.539	1.00	98.44	C
ATOM	250	CB LEU A 33	-1.842	6.301	0.176	1.00	98.44	C
ATOM	251	O LEU A 33	-3.336	8.289	-1.459	1.00	98.44	O
ATOM	252	CG LEU A 33	-2.879	6.074	1.277	1.00	98.44	C
ATOM	253	CD1 LEU A 33	-3.314	4.613	1.304	1.00	98.44	C
ATOM	254	CD2 LEU A 33	-2.320	6.496	2.633	1.00	98.44	C
ATOM	255	N ILE A 34	-4.629	6.477	-1.832	1.00	98.12	N
ATOM	256	CA ILE A 34	-5.828	7.234	-2.180	1.00	98.12	C
ATOM	257	C ILE A 34	-6.961	6.879	-1.218	1.00	98.12	C
ATOM	258	CB ILE A 34	-6.262	6.969	-3.639	1.00	98.12	C
ATOM	259	O ILE A 34	-7.309	5.707	-1.063	1.00	98.12	O
ATOM	260	CG1 ILE A 34	-5.109	7.277	-4.602	1.00	98.12	C
ATOM	261	CG2 ILE A 34	-7.504	7.793	-3.992	1.00	98.12	C
ATOM	262	CD1 ILE A 34	-5.223	6.570	-5.945	1.00	98.12	C
ATOM	263	N ALA A 35	-7.434	7.910	-0.558	1.00	97.00	N
ATOM	264	CA ALA A 35	-8.555	7.711	0.363	1.00	97.00	C
ATOM	265	C ALA A 35	-9.781	8.500	-0.088	1.00	97.00	C
ATOM	266	CB ALA A 35	-8.148	8.125	1.778	1.00	97.00	C
ATOM	267	O ALA A 35	-9.695	9.703	-0.328	1.00	97.00	O
ATOM	268	N ASP A 36	-10.922	7.797	-0.302	1.00	95.69	N
ATOM	269	CA ASP A 36	-12.180	8.383	-0.753	1.00	95.69	C
ATOM	270	C ASP A 36	-11.984	9.180	-2.037	1.00	95.69	C
ATOM	271	CB ASP A 36	-12.781	9.266	0.337	1.00	95.69	C
ATOM	272	O ASP A 36	-12.508	10.289	-2.168	1.00	95.69	O
ATOM	273	CG ASP A 36	-13.266	8.484	1.542	1.00	95.69	C
ATOM	274	OD1 ASP A 36	-13.602	7.289	1.397	1.00	95.69	O
ATOM	275	OD2 ASP A 36	-13.320	9.070	2.646	1.00	95.69	O
ATOM	276	N GLY A 37	-11.070	8.711	-2.809	1.00	95.88	N
ATOM	277	CA GLY A 37	-10.898	9.297	-4.129	1.00	95.88	C
ATOM	278	C GLY A 37	-9.875	10.422	-4.152	1.00	95.88	C
ATOM	279	O GLY A 37	-9.633	11.023	-5.199	1.00	95.88	O
ATOM	280	N LYS A 38	-9.234	10.664	-3.023	1.00	97.38	N
ATOM	281	CA LYS A 38	-8.258	11.750	-2.941	1.00	97.38	C

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ATOM	282	C	LYS A 38	-6.855	11.211	-2.666	1.00	97.38	C
ATOM	283	CB	LYS A 38	-8.656	12.750	-1.854	1.00	97.38	C
ATOM	284	O	LYS A 38	-6.668	10.391	-1.761	1.00	97.38	O
ATOM	285	CG	LYS A 38	-9.969	13.477	-2.129	1.00	97.38	C
ATOM	286	CD	LYS A 38	-10.297	14.469	-1.025	1.00	97.38	C
ATOM	287	CE	LYS A 38	-11.641	15.148	-1.268	1.00	97.38	C
ATOM	288	NZ	LYS A 38	-11.906	16.219	-0.257	1.00	97.38	N
ATOM	289	N	LEU A 39	-5.961	11.664	-3.424	1.00	97.69	N
ATOM	290	CA	LEU A 39	-4.566	11.305	-3.178	1.00	97.69	C
ATOM	291	C	LEU A 39	-4.082	11.891	-1.855	1.00	97.69	C
ATOM	292	CB	LEU A 39	-3.678	11.789	-4.324	1.00	97.69	C
ATOM	293	O	LEU A 39	-4.020	13.109	-1.696	1.00	97.69	O
ATOM	294	CG	LEU A 39	-2.186	11.469	-4.211	1.00	97.69	C
ATOM	295	CD1	LEU A 39	-1.966	9.961	-4.262	1.00	97.69	C
ATOM	296	CD2	LEU A 39	-1.400	12.164	-5.312	1.00	97.69	C
ATOM	297	N	ILE A 40	-3.664	11.055	-0.954	1.00	96.50	N
ATOM	298	CA	ILE A 40	-3.283	11.484	0.388	1.00	96.50	C
ATOM	299	C	ILE A 40	-1.763	11.445	0.531	1.00	96.50	C
ATOM	300	CB	ILE A 40	-3.945	10.602	1.471	1.00	96.50	C
ATOM	301	O	ILE A 40	-1.181	12.242	1.272	1.00	96.50	O
ATOM	302	CG1	ILE A 40	-5.473	10.648	1.334	1.00	96.50	C
ATOM	303	CG2	ILE A 40	-3.508	11.047	2.871	1.00	96.50	C
ATOM	304	CD1	ILE A 40	-6.074	12.023	1.570	1.00	96.50	C
ATOM	305	N	ASP A 41	-1.065	10.453	-0.151	1.00	97.69	N
ATOM	306	CA	ASP A 41	0.378	10.258	-0.051	1.00	97.69	C
ATOM	307	C	ASP A 41	0.918	9.508	-1.268	1.00	97.69	C
ATOM	308	CB	ASP A 41	0.731	9.500	1.231	1.00	97.69	C
ATOM	309	O	ASP A 41	0.159	8.859	-1.989	1.00	97.69	O
ATOM	310	CG	ASP A 41	2.162	9.734	1.682	1.00	97.69	C
ATOM	311	OD1	ASP A 41	2.900	10.484	1.009	1.00	97.69	O
ATOM	312	OD2	ASP A 41	2.559	9.156	2.717	1.00	97.69	O
ATOM	313	N	GLU A 42	2.223	9.688	-1.524	1.00	98.31	N
ATOM	314	CA	GLU A 42	2.908	9.031	-2.637	1.00	98.31	C
ATOM	315	C	GLU A 42	4.383	8.812	-2.322	1.00	98.31	C
ATOM	316	CB	GLU A 42	2.760	9.859	-3.918	1.00	98.31	C
ATOM	317	O	GLU A 42	5.059	9.711	-1.820	1.00	98.31	O
ATOM	318	CG	GLU A 42	3.506	9.281	-5.109	1.00	98.31	C
ATOM	319	CD	GLU A 42	3.381	10.133	-6.367	1.00	98.31	C
ATOM	320	OE1	GLU A 42	4.176	9.938	-7.312	1.00	98.31	O
ATOM	321	OE2	GLU A 42	2.482	11.000	-6.402	1.00	98.31	O
ATOM	322	N	LYS A 43	4.809	7.602	-2.643	1.00	98.50	N
ATOM	323	CA	LYS A 43	6.219	7.273	-2.453	1.00	98.50	C
ATOM	324	C	LYS A 43	6.797	6.598	-3.691	1.00	98.50	C
ATOM	325	CB	LYS A 43	6.402	6.375	-1.229	1.00	98.50	C
ATOM	326	O	LYS A 43	6.129	5.781	-4.328	1.00	98.50	O
ATOM	327	CG	LYS A 43	6.043	7.043	0.090	1.00	98.50	C
ATOM	328	CD	LYS A 43	6.289	6.113	1.271	1.00	98.50	C
ATOM	329	CE	LYS A 43	5.906	6.773	2.590	1.00	98.50	C
ATOM	330	NZ	LYS A 43	6.254	5.910	3.760	1.00	98.50	N
ATOM	331	N	THR A 44	8.047	7.000	-4.004	1.00	98.44	N
ATOM	332	CA	THR A 44	8.766	6.383	-5.109	1.00	98.44	C
ATOM	333	C	THR A 44	10.094	5.805	-4.633	1.00	98.44	C
ATOM	334	CB	THR A 44	9.016	7.395	-6.242	1.00	98.44	C

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ATOM	335	O	THR	A	44	10.859	6.480	-3.936	1.00	98.44	O
ATOM	336	CG2	THR	A	44	9.766	6.746	-7.402	1.00	98.44	C
ATOM	337	OG1	THR	A	44	7.762	7.895	-6.719	1.00	98.44	O
ATOM	338	N	ILE	A	45	10.281	4.516	-5.023	1.00	98.44	N
ATOM	339	CA	ILE	A	45	11.531	3.869	-4.652	1.00	98.44	C
ATOM	340	C	ILE	A	45	12.164	3.215	-5.883	1.00	98.44	C
ATOM	341	CB	ILE	A	45	11.320	2.820	-3.539	1.00	98.44	C
ATOM	342	O	ILE	A	45	11.477	2.955	-6.875	1.00	98.44	O
ATOM	343	CG1	ILE	A	45	10.391	1.706	-4.027	1.00	98.44	C
ATOM	344	CG2	ILE	A	45	10.766	3.484	-2.273	1.00	98.44	C
ATOM	345	CD1	ILE	A	45	10.289	0.523	-3.072	1.00	98.44	C
ATOM	346	N	THR	A	46	13.469	3.043	-5.781	1.00	98.25	N
ATOM	347	CA	THR	A	46	14.203	2.309	-6.809	1.00	98.25	C
ATOM	348	C	THR	A	46	14.883	1.079	-6.211	1.00	98.25	C
ATOM	349	CB	THR	A	46	15.258	3.201	-7.488	1.00	98.25	C
ATOM	350	O	THR	A	46	15.516	1.164	-5.160	1.00	98.25	O
ATOM	351	CG2	THR	A	46	15.984	2.445	-8.594	1.00	98.25	C
ATOM	352	OG1	THR	A	46	14.609	4.348	-8.055	1.00	98.25	O
ATOM	353	N	LEU	A	47	14.773	-0.090	-6.902	1.00	98.06	N
ATOM	354	CA	LEU	A	47	15.336	-1.354	-6.438	1.00	98.06	C
ATOM	355	C	LEU	A	47	16.344	-1.897	-7.441	1.00	98.06	C
ATOM	356	CB	LEU	A	47	14.227	-2.383	-6.207	1.00	98.06	C
ATOM	357	O	LEU	A	47	16.094	-1.897	-8.648	1.00	98.06	O
ATOM	358	CG	LEU	A	47	13.219	-2.059	-5.098	1.00	98.06	C
ATOM	359	CD1	LEU	A	47	11.875	-2.707	-5.398	1.00	98.06	C
ATOM	360	CD2	LEU	A	47	13.750	-2.518	-3.744	1.00	98.06	C
ATOM	361	N	LYS	A	48	17.484	-2.281	-6.898	1.00	96.81	N
ATOM	362	CA	LYS	A	48	18.422	-3.076	-7.680	1.00	96.81	C
ATOM	363	C	LYS	A	48	18.125	-4.566	-7.559	1.00	96.81	C
ATOM	364	CB	LYS	A	48	19.859	-2.799	-7.234	1.00	96.81	C
ATOM	365	O	LYS	A	48	17.312	-4.973	-6.719	1.00	96.81	O
ATOM	366	CG	LYS	A	48	20.297	-1.356	-7.430	1.00	96.81	C
ATOM	367	CD	LYS	A	48	21.719	-1.130	-6.914	1.00	96.81	C
ATOM	368	CE	LYS	A	48	22.125	0.334	-7.020	1.00	96.81	C
ATOM	369	NZ	LYS	A	48	23.469	0.579	-6.426	1.00	96.81	N
ATOM	370	N	ASN	A	49	18.828	-5.320	-8.516	1.00	96.12	N
ATOM	371	CA	ASN	A	49	18.641	-6.770	-8.469	1.00	96.12	C
ATOM	372	C	ASN	A	49	18.953	-7.336	-7.090	1.00	96.12	C
ATOM	373	CB	ASN	A	49	19.500	-7.449	-9.539	1.00	96.12	C
ATOM	374	O	ASN	A	49	20.031	-7.066	-6.535	1.00	96.12	O
ATOM	375	CG	ASN	A	49	19.344	-8.953	-9.539	1.00	96.12	C
ATOM	376	ND2	ASN	A	49	20.422	-9.664	-9.867	1.00	96.12	N
ATOM	377	OD1	ASN	A	49	18.266	-9.484	-9.250	1.00	96.12	O
ATOM	378	N	GLY	A	50	18.047	-8.055	-6.418	1.00	95.81	N
ATOM	379	CA	GLY	A	50	18.234	-8.711	-5.133	1.00	95.81	C
ATOM	380	C	GLY	A	50	17.891	-7.824	-3.951	1.00	95.81	C
ATOM	381	O	GLY	A	50	17.906	-8.273	-2.805	1.00	95.81	O
ATOM	382	N	GLU	A	51	17.516	-6.566	-4.297	1.00	97.81	N
ATOM	383	CA	GLU	A	51	17.234	-5.617	-3.227	1.00	97.81	C
ATOM	384	C	GLU	A	51	15.805	-5.773	-2.715	1.00	97.81	C
ATOM	385	CB	GLU	A	51	17.469	-4.180	-3.705	1.00	97.81	C
ATOM	386	O	GLU	A	51	14.906	-6.137	-3.475	1.00	97.81	O
ATOM	387	CG	GLU	A	51	17.422	-3.146	-2.590	1.00	97.81	C

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ATOM	388	CD	GLU	A	51	17.734	-1.735	-3.066	1.00	97.81	C
ATOM	389	OE1	GLU	A	51	17.781	-0.807	-2.229	1.00	97.81	O
ATOM	390	OE2	GLU	A	51	17.938	-1.559	-4.289	1.00	97.81	O
ATOM	391	N	THR	A	52	15.672	-5.555	-1.413	1.00	98.31	N
ATOM	392	CA	THR	A	52	14.367	-5.543	-0.749	1.00	98.31	C
ATOM	393	C	THR	A	52	14.133	-4.203	-0.052	1.00	98.31	C
ATOM	394	CB	THR	A	52	14.258	-6.684	0.276	1.00	98.31	C
ATOM	395	O	THR	A	52	15.008	-3.713	0.670	1.00	98.31	O
ATOM	396	CG2	THR	A	52	12.922	-6.633	1.011	1.00	98.31	C
ATOM	397	OG1	THR	A	52	14.367	-7.941	-0.404	1.00	98.31	O
ATOM	398	N	LYS	A	53	12.938	-3.578	-0.380	1.00	98.50	N
ATOM	399	CA	LYS	A	53	12.555	-2.354	0.314	1.00	98.50	C
ATOM	400	C	LYS	A	53	11.094	-2.406	0.751	1.00	98.50	C
ATOM	401	CB	LYS	A	53	12.789	-1.133	-0.579	1.00	98.50	C
ATOM	402	O	LYS	A	53	10.266	-3.061	0.109	1.00	98.50	O
ATOM	403	CG	LYS	A	53	14.258	-0.805	-0.802	1.00	98.50	C
ATOM	404	CD	LYS	A	53	14.430	0.499	-1.571	1.00	98.50	C
ATOM	405	CE	LYS	A	53	15.891	0.892	-1.689	1.00	98.50	C
ATOM	406	NZ	LYS	A	53	16.078	2.115	-2.527	1.00	98.50	N
ATOM	407	N	THR	A	54	10.844	-1.716	1.890	1.00	98.31	N
ATOM	408	CA	THR	A	54	9.492	-1.676	2.432	1.00	98.31	C
ATOM	409	C	THR	A	54	8.961	-0.247	2.443	1.00	98.31	C
ATOM	410	CB	THR	A	54	9.445	-2.256	3.857	1.00	98.31	C
ATOM	411	O	THR	A	54	9.664	0.684	2.834	1.00	98.31	O
ATOM	412	CG2	THR	A	54	8.031	-2.188	4.430	1.00	98.31	C
ATOM	413	OG1	THR	A	54	9.867	-3.625	3.824	1.00	98.31	O
ATOM	414	N	VAL	A	55	7.711	-0.121	1.961	1.00	98.12	N
ATOM	415	CA	VAL	A	55	6.992	1.146	2.027	1.00	98.12	C
ATOM	416	C	VAL	A	55	5.816	1.023	2.990	1.00	98.12	C
ATOM	417	CB	VAL	A	55	6.496	1.592	0.633	1.00	98.12	C
ATOM	418	O	VAL	A	55	5.051	0.058	2.926	1.00	98.12	O
ATOM	419	CG1	VAL	A	55	5.625	2.842	0.744	1.00	98.12	C
ATOM	420	CG2	VAL	A	55	7.684	1.843	-0.298	1.00	98.12	C
ATOM	421	N	LYS	A	56	5.695	2.086	3.861	1.00	98.12	N
ATOM	422	CA	LYS	A	56	4.648	2.043	4.875	1.00	98.12	C
ATOM	423	C	LYS	A	56	3.727	3.254	4.766	1.00	98.12	C
ATOM	424	CB	LYS	A	56	5.258	1.974	6.277	1.00	98.12	C
ATOM	425	O	LYS	A	56	4.191	4.379	4.570	1.00	98.12	O
ATOM	426	CG	LYS	A	56	6.098	0.728	6.527	1.00	98.12	C
ATOM	427	CD	LYS	A	56	6.660	0.706	7.941	1.00	98.12	C
ATOM	428	CE	LYS	A	56	7.535	-0.518	8.180	1.00	98.12	C
ATOM	429	NZ	LYS	A	56	8.086	-0.543	9.562	1.00	98.12	N
ATOM	430	N	PHE	A	57	2.445	2.980	4.887	1.00	97.50	N
ATOM	431	CA	PHE	A	57	1.419	4.012	5.000	1.00	97.50	C
ATOM	432	C	PHE	A	57	0.543	3.770	6.223	1.00	97.50	C
ATOM	433	CB	PHE	A	57	0.556	4.051	3.736	1.00	97.50	C
ATOM	434	O	PHE	A	57	0.301	2.621	6.605	1.00	97.50	O
ATOM	435	CG	PHE	A	57	1.302	4.488	2.504	1.00	97.50	C
ATOM	436	CD1	PHE	A	57	1.633	5.824	2.314	1.00	97.50	C
ATOM	437	CD2	PHE	A	57	1.673	3.566	1.537	1.00	97.50	C
ATOM	438	CE1	PHE	A	57	2.324	6.234	1.177	1.00	97.50	C
ATOM	439	CE2	PHE	A	57	2.363	3.967	0.397	1.00	97.50	C
ATOM	440	CZ	PHE	A	57	2.688	5.301	0.218	1.00	97.50	C

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ATOM	441	N	GLU A 58	0.182	4.902	6.789	1.00	95.88	N
ATOM	442	CA	GLU A 58	-0.781	4.895	7.887	1.00	95.88	C
ATOM	443	C	GLU A 58	-1.876	5.934	7.664	1.00	95.88	C
ATOM	444	CB	GLU A 58	-0.077	5.148	9.219	1.00	95.88	C
ATOM	445	O	GLU A 58	-1.589	7.082	7.324	1.00	95.88	O
ATOM	446	CG	GLU A 58	-1.010	5.117	10.422	1.00	95.88	C
ATOM	447	CD	GLU A 58	-0.305	5.418	11.734	1.00	95.88	C
ATOM	448	OE1	GLU A 58	-0.954	5.953	12.664	1.00	95.88	O
ATOM	449	OE2	GLU A 58	0.906	5.121	11.836	1.00	95.88	O
ATOM	450	N	THR A 59	-3.127	5.453	7.848	1.00	95.56	N
ATOM	451	CA	THR A 59	-4.230	6.395	7.680	1.00	95.56	C
ATOM	452	C	THR A 59	-5.410	6.008	8.562	1.00	95.56	C
ATOM	453	CB	THR A 59	-4.688	6.465	6.211	1.00	95.56	C
ATOM	454	O	THR A 59	-5.543	4.848	8.961	1.00	95.56	O
ATOM	455	CG2	THR A 59	-5.293	5.141	5.758	1.00	95.56	C
ATOM	456	OG1	THR A 59	-5.668	7.500	6.070	1.00	95.56	O
ATOM	457	N	ASP A 60	-6.141	7.082	8.945	1.00	94.12	N
ATOM	458	CA	ASP A 60	-7.418	6.793	9.586	1.00	94.12	C
ATOM	459	C	ASP A 60	-8.375	6.102	8.617	1.00	94.12	C
ATOM	460	CB	ASP A 60	-8.055	8.078	10.125	1.00	94.12	C
ATOM	461	O	ASP A 60	-8.242	6.238	7.402	1.00	94.12	O
ATOM	462	CG	ASP A 60	-7.230	8.727	11.227	1.00	94.12	C
ATOM	463	OD1	ASP A 60	-6.570	8.000	12.008	1.00	94.12	O
ATOM	464	OD2	ASP A 60	-7.242	9.977	11.320	1.00	94.12	O
ATOM	465	N	GLU A 61	-9.242	5.258	9.289	1.00	89.88	N
ATOM	466	CA	GLU A 61	-10.180	4.527	8.445	1.00	89.88	C
ATOM	467	C	GLU A 61	-11.086	5.480	7.680	1.00	89.88	C
ATOM	468	CB	GLU A 61	-11.023	3.564	9.289	1.00	89.88	C
ATOM	469	O	GLU A 61	-11.617	6.438	8.250	1.00	89.88	O
ATOM	470	CG	GLU A 61	-11.938	2.664	8.469	1.00	89.88	C
ATOM	471	CD	GLU A 61	-12.758	1.706	9.320	1.00	89.88	C
ATOM	472	OE1	GLU A 61	-13.211	0.664	8.797	1.00	89.88	O
ATOM	473	OE2	GLU A 61	-12.945	2.000	10.523	1.00	89.88	O
ATOM	474	N	LYS A 62	-11.062	5.285	6.383	1.00	92.88	N
ATOM	475	CA	LYS A 62	-11.977	5.965	5.473	1.00	92.88	C
ATOM	476	C	LYS A 62	-12.922	4.973	4.805	1.00	92.88	C
ATOM	477	CB	LYS A 62	-11.203	6.750	4.414	1.00	92.88	C
ATOM	478	O	LYS A 62	-12.805	3.762	5.004	1.00	92.88	O
ATOM	479	CG	LYS A 62	-10.258	7.793	4.988	1.00	92.88	C
ATOM	480	CD	LYS A 62	-11.016	8.945	5.629	1.00	92.88	C
ATOM	481	CE	LYS A 62	-10.070	10.039	6.109	1.00	92.88	C
ATOM	482	NZ	LYS A 62	-10.805	11.172	6.738	1.00	92.88	N
ATOM	483	N	GLU A 63	-13.938	5.555	4.168	1.00	94.00	N
ATOM	484	CA	GLU A 63	-14.875	4.637	3.520	1.00	94.00	C
ATOM	485	C	GLU A 63	-14.148	3.713	2.543	1.00	94.00	C
ATOM	486	CB	GLU A 63	-15.969	5.414	2.789	1.00	94.00	C
ATOM	487	O	GLU A 63	-14.352	2.496	2.564	1.00	94.00	O
ATOM	488	CG	GLU A 63	-17.062	4.531	2.189	1.00	94.00	C
ATOM	489	CD	GLU A 63	-18.188	5.320	1.538	1.00	94.00	C
ATOM	490	OE1	GLU A 63	-19.016	4.715	0.829	1.00	94.00	O
ATOM	491	OE2	GLU A 63	-18.234	6.555	1.738	1.00	94.00	O
ATOM	492	N	THR A 64	-13.352	4.297	1.701	1.00	97.12	N
ATOM	493	CA	THR A 64	-12.578	3.543	0.717	1.00	97.12	C

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ATOM	494	C	THR	A	64	-11.125	3.994	0.710	1.00	97.12	C
ATOM	495	CB	THR	A	64	-13.172	3.699	-0.695	1.00	97.12	C
ATOM	496	O	THR	A	64	-10.836	5.191	0.648	1.00	97.12	O
ATOM	497	CG2	THR	A	64	-12.414	2.848	-1.708	1.00	97.12	C
ATOM	498	OG1	THR	A	64	-14.547	3.289	-0.677	1.00	97.12	O
ATOM	499	N	ILE	A	65	-10.180	3.045	0.850	1.00	97.69	N
ATOM	500	CA	ILE	A	65	-8.750	3.305	0.750	1.00	97.69	C
ATOM	501	C	ILE	A	65	-8.156	2.477	-0.385	1.00	97.69	C
ATOM	502	CB	ILE	A	65	-8.023	2.994	2.080	1.00	97.69	C
ATOM	503	O	ILE	A	65	-8.328	1.256	-0.429	1.00	97.69	O
ATOM	504	CG1	ILE	A	65	-8.656	3.787	3.230	1.00	97.69	C
ATOM	505	CG2	ILE	A	65	-6.527	3.295	1.962	1.00	97.69	C
ATOM	506	CD1	ILE	A	65	-8.188	3.350	4.613	1.00	97.69	C
ATOM	507	N	THR	A	66	-7.547	3.123	-1.312	1.00	98.06	N
ATOM	508	CA	THR	A	66	-6.934	2.469	-2.463	1.00	98.06	C
ATOM	509	C	THR	A	66	-5.430	2.717	-2.490	1.00	98.06	C
ATOM	510	CB	THR	A	66	-7.559	2.955	-3.783	1.00	98.06	C
ATOM	511	O	THR	A	66	-4.977	3.846	-2.281	1.00	98.06	O
ATOM	512	CG2	THR	A	66	-6.926	2.258	-4.980	1.00	98.06	C
ATOM	513	OG1	THR	A	66	-8.969	2.676	-3.770	1.00	98.06	O
ATOM	514	N	VAL	A	67	-4.660	1.661	-2.662	1.00	98.31	N
ATOM	515	CA	VAL	A	67	-3.229	1.752	-2.928	1.00	98.31	C
ATOM	516	C	VAL	A	67	-2.947	1.373	-4.379	1.00	98.31	C
ATOM	517	CB	VAL	A	67	-2.416	0.848	-1.974	1.00	98.31	C
ATOM	518	O	VAL	A	67	-3.309	0.281	-4.824	1.00	98.31	O
ATOM	519	CG1	VAL	A	67	-0.932	0.875	-2.338	1.00	98.31	C
ATOM	520	CG2	VAL	A	67	-2.621	1.282	-0.524	1.00	98.31	C
ATOM	521	N	GLU	A	68	-2.391	2.344	-5.062	1.00	98.44	N
ATOM	522	CA	GLU	A	68	-1.998	2.104	-6.449	1.00	98.44	C
ATOM	523	C	GLU	A	68	-0.484	1.962	-6.578	1.00	98.44	C
ATOM	524	CB	GLU	A	68	-2.500	3.232	-7.355	1.00	98.44	C
ATOM	525	O	GLU	A	68	0.264	2.854	-6.172	1.00	98.44	O
ATOM	526	CG	GLU	A	68	-4.012	3.277	-7.500	1.00	98.44	C
ATOM	527	CD	GLU	A	68	-4.488	4.289	-8.531	1.00	98.44	C
ATOM	528	OE1	GLU	A	68	-5.684	4.266	-8.898	1.00	98.44	O
ATOM	529	OE2	GLU	A	68	-3.656	5.117	-8.969	1.00	98.44	O
ATOM	530	N	ILE	A	69	-0.045	0.828	-7.156	1.00	98.56	N
ATOM	531	CA	ILE	A	69	1.380	0.560	-7.312	1.00	98.56	C
ATOM	532	C	ILE	A	69	1.720	0.428	-8.797	1.00	98.56	C
ATOM	533	CB	ILE	A	69	1.802	-0.716	-6.551	1.00	98.56	C
ATOM	534	O	ILE	A	69	1.057	-0.309	-9.523	1.00	98.56	O
ATOM	535	CG1	ILE	A	69	1.491	-0.574	-5.055	1.00	98.56	C
ATOM	536	CG2	ILE	A	69	3.287	-1.012	-6.773	1.00	98.56	C
ATOM	537	CD1	ILE	A	69	1.540	-1.886	-4.285	1.00	98.56	C
ATOM	538	N	THR	A	70	2.678	1.171	-9.180	1.00	98.31	N
ATOM	539	CA	THR	A	70	3.227	1.043	-10.523	1.00	98.31	C
ATOM	540	C	THR	A	70	4.695	0.627	-10.477	1.00	98.31	C
ATOM	541	CB	THR	A	70	3.092	2.359	-11.312	1.00	98.31	C
ATOM	542	O	THR	A	70	5.492	1.243	-9.766	1.00	98.31	O
ATOM	543	CG2	THR	A	70	3.598	2.201	-12.742	1.00	98.31	C
ATOM	544	OG1	THR	A	70	1.713	2.750	-11.344	1.00	98.31	O
ATOM	545	N	VAL	A	71	5.020	-0.414	-11.234	1.00	98.00	N
ATOM	546	CA	VAL	A	71	6.387	-0.910	-11.297	1.00	98.00	C

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ATOM	547	C	VAL A 71	6.930	-0.755	-12.719	1.00	98.00	C
ATOM	548	CB	VAL A 71	6.480	-2.387	-10.852	1.00	98.00	C
ATOM	549	O	VAL A 71	6.332	-1.257	-13.672	1.00	98.00	O
ATOM	550	CG1	VAL A 71	7.934	-2.852	-10.820	1.00	98.00	C
ATOM	551	CG2	VAL A 71	5.828	-2.570	-9.484	1.00	98.00	C
ATOM	552	N	GLU A 72	8.062	-0.104	-12.758	1.00	97.31	N
ATOM	553	CA	GLU A 72	8.672	0.112	-14.062	1.00	97.31	C
ATOM	554	C	GLU A 72	10.086	-0.452	-14.109	1.00	97.31	C
ATOM	555	CB	GLU A 72	8.688	1.604	-14.406	1.00	97.31	C
ATOM	556	O	GLU A 72	10.938	-0.089	-13.289	1.00	97.31	O
ATOM	557	CG	GLU A 72	7.305	2.230	-14.500	1.00	97.31	C
ATOM	558	CD	GLU A 72	7.336	3.713	-14.828	1.00	97.31	C
ATOM	559	OE1	GLU A 72	6.551	4.488	-14.234	1.00	97.31	O
ATOM	560	OE2	GLU A 72	8.156	4.105	-15.695	1.00	97.31	O
ATOM	561	N	VAL A 73	10.289	-1.358	-15.008	1.00	95.94	N
ATOM	562	CA	VAL A 73	11.602	-1.881	-15.359	1.00	95.94	C
ATOM	563	C	VAL A 73	11.969	-1.438	-16.781	1.00	95.94	C
ATOM	564	CB	VAL A 73	11.648	-3.422	-15.258	1.00	95.94	C
ATOM	565	O	VAL A 73	11.195	-1.641	-17.719	1.00	95.94	O
ATOM	566	CG1	VAL A 73	13.039	-3.945	-15.594	1.00	95.94	C
ATOM	567	CG2	VAL A 73	11.227	-3.873	-13.859	1.00	95.94	C
ATOM	568	N	PRO A 74	13.117	-0.713	-16.922	1.00	94.69	N
ATOM	569	CA	PRO A 74	13.492	-0.220	-18.250	1.00	94.69	C
ATOM	570	C	PRO A 74	13.430	-1.305	-19.312	1.00	94.69	C
ATOM	571	CB	PRO A 74	14.930	0.267	-18.047	1.00	94.69	C
ATOM	572	O	PRO A 74	13.953	-2.406	-19.125	1.00	94.69	O
ATOM	573	CG	PRO A 74	15.016	0.627	-16.594	1.00	94.69	C
ATOM	574	CD	PRO A 74	14.172	-0.338	-15.812	1.00	94.69	C
ATOM	575	N	GLY A 75	12.727	-1.031	-20.422	1.00	92.94	N
ATOM	576	CA	GLY A 75	12.656	-1.943	-21.547	1.00	92.94	C
ATOM	577	C	GLY A 75	11.523	-2.945	-21.438	1.00	92.94	C
ATOM	578	O	GLY A 75	11.391	-3.832	-22.281	1.00	92.94	O
ATOM	579	N	LYS A 76	10.734	-2.867	-20.406	1.00	93.94	N
ATOM	580	CA	LYS A 76	9.625	-3.793	-20.172	1.00	93.94	C
ATOM	581	C	LYS A 76	8.312	-3.043	-20.000	1.00	93.94	C
ATOM	582	CB	LYS A 76	9.898	-4.660	-18.938	1.00	93.94	C
ATOM	583	O	LYS A 76	8.305	-1.857	-19.656	1.00	93.94	O
ATOM	584	CG	LYS A 76	11.242	-5.379	-18.984	1.00	93.94	C
ATOM	585	CD	LYS A 76	11.242	-6.512	-20.000	1.00	93.94	C
ATOM	586	CE	LYS A 76	12.531	-7.320	-19.938	1.00	93.94	C
ATOM	587	NZ	LYS A 76	12.586	-8.352	-21.016	1.00	93.94	N
ATOM	588	N	LYS A 77	7.289	-3.689	-20.344	1.00	95.38	N
ATOM	589	CA	LYS A 77	5.969	-3.139	-20.047	1.00	95.38	C
ATOM	590	C	LYS A 77	5.750	-3.010	-18.547	1.00	95.38	C
ATOM	591	CB	LYS A 77	4.875	-4.012	-20.672	1.00	95.38	C
ATOM	592	O	LYS A 77	6.035	-3.941	-17.797	1.00	95.38	O
ATOM	593	CG	LYS A 77	3.482	-3.400	-20.594	1.00	95.38	C
ATOM	594	CD	LYS A 77	2.453	-4.270	-21.312	1.00	95.38	C
ATOM	595	CE	LYS A 77	1.033	-3.795	-21.031	1.00	95.38	C
ATOM	596	NZ	LYS A 77	0.454	-3.070	-22.203	1.00	95.38	N
ATOM	597	N	PRO A 78	5.199	-1.854	-18.078	1.00	96.44	N
ATOM	598	CA	PRO A 78	5.020	-1.627	-16.641	1.00	96.44	C
ATOM	599	C	PRO A 78	3.990	-2.568	-16.016	1.00	96.44	C

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ATOM	600	CB	PRO A 78	4.543	-0.174	-16.578	1.00	96.44	C
ATOM	601	O	PRO A 78	3.029	-2.965	-16.688	1.00	96.44	O
ATOM	602	CG	PRO A 78	5.000	0.441	-17.859	1.00	96.44	C
ATOM	603	CD	PRO A 78	5.039	-0.627	-18.906	1.00	96.44	C
ATOM	604	N	GLY A 79	4.254	-2.994	-14.789	1.00	96.94	N
ATOM	605	CA	GLY A 79	3.275	-3.691	-13.969	1.00	96.94	C
ATOM	606	C	GLY A 79	2.449	-2.760	-13.102	1.00	96.94	C
ATOM	607	O	GLY A 79	2.936	-1.716	-12.664	1.00	96.94	O
ATOM	608	N	LYS A 80	1.173	-3.090	-12.969	1.00	98.12	N
ATOM	609	CA	LYS A 80	0.266	-2.293	-12.148	1.00	98.12	C
ATOM	610	C	LYS A 80	-0.502	-3.172	-11.164	1.00	98.12	C
ATOM	611	CB	LYS A 80	-0.711	-1.514	-13.031	1.00	98.12	C
ATOM	612	O	LYS A 80	-0.940	-4.270	-11.516	1.00	98.12	O
ATOM	613	CG	LYS A 80	-0.049	-0.467	-13.914	1.00	98.12	C
ATOM	614	CD	LYS A 80	-1.079	0.327	-14.711	1.00	98.12	C
ATOM	615	CE	LYS A 80	-0.415	1.336	-15.633	1.00	98.12	C
ATOM	616	NZ	LYS A 80	-1.420	2.094	-16.438	1.00	98.12	N
ATOM	617	N	LEU A 81	-0.562	-2.750	-9.930	1.00	98.25	N
ATOM	618	CA	LEU A 81	-1.341	-3.395	-8.875	1.00	98.25	C
ATOM	619	C	LEU A 81	-2.217	-2.379	-8.148	1.00	98.25	C
ATOM	620	CB	LEU A 81	-0.416	-4.098	-7.879	1.00	98.25	C
ATOM	621	O	LEU A 81	-1.762	-1.281	-7.820	1.00	98.25	O
ATOM	622	CG	LEU A 81	-1.099	-4.848	-6.734	1.00	98.25	C
ATOM	623	CD1	LEU A 81	-0.343	-6.133	-6.418	1.00	98.25	C
ATOM	624	CD2	LEU A 81	-1.196	-3.963	-5.496	1.00	98.25	C
ATOM	625	N	THR A 82	-3.471	-2.680	-8.039	1.00	98.12	N
ATOM	626	CA	THR A 82	-4.398	-1.858	-7.273	1.00	98.12	C
ATOM	627	C	THR A 82	-5.035	-2.670	-6.148	1.00	98.12	C
ATOM	628	CB	THR A 82	-5.500	-1.271	-8.172	1.00	98.12	C
ATOM	629	O	THR A 82	-5.570	-3.756	-6.387	1.00	98.12	O
ATOM	630	CG2	THR A 82	-6.410	-0.333	-7.387	1.00	98.12	C
ATOM	631	OG1	THR A 82	-4.895	-0.541	-9.250	1.00	98.12	O
ATOM	632	N	LEU A 83	-4.910	-2.180	-4.969	1.00	97.81	N
ATOM	633	CA	LEU A 83	-5.523	-2.748	-3.773	1.00	97.81	C
ATOM	634	C	LEU A 83	-6.551	-1.789	-3.184	1.00	97.81	C
ATOM	635	CB	LEU A 83	-4.457	-3.078	-2.727	1.00	97.81	C
ATOM	636	O	LEU A 83	-6.238	-0.630	-2.904	1.00	97.81	O
ATOM	637	CG	LEU A 83	-4.961	-3.619	-1.389	1.00	97.81	C
ATOM	638	CD1	LEU A 83	-5.484	-5.043	-1.556	1.00	97.81	C
ATOM	639	CD2	LEU A 83	-3.857	-3.568	-0.338	1.00	97.81	C
ATOM	640	N	THR A 84	-7.730	-2.285	-3.051	1.00	97.50	N
ATOM	641	CA	THR A 84	-8.789	-1.435	-2.514	1.00	97.50	C
ATOM	642	C	THR A 84	-9.414	-2.066	-1.274	1.00	97.50	C
ATOM	643	CB	THR A 84	-9.883	-1.169	-3.566	1.00	97.50	C
ATOM	644	O	THR A 84	-9.875	-3.207	-1.320	1.00	97.50	O
ATOM	645	CG2	THR A 84	-10.945	-0.224	-3.023	1.00	97.50	C
ATOM	646	OG1	THR A 84	-9.281	-0.580	-4.730	1.00	97.50	O
ATOM	647	N	TYR A 85	-9.352	-1.334	-0.196	1.00	96.94	N
ATOM	648	CA	TYR A 85	-10.031	-1.717	1.037	1.00	96.94	C
ATOM	649	C	TYR A 85	-11.281	-0.873	1.255	1.00	96.94	C
ATOM	650	CB	TYR A 85	-9.086	-1.573	2.236	1.00	96.94	C
ATOM	651	O	TYR A 85	-11.211	0.359	1.263	1.00	96.94	O
ATOM	652	CG	TYR A 85	-9.742	-1.863	3.564	1.00	96.94	C

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ATOM	653	CD1 TYR A 85	-9.898	-0.863	4.520	1.00	96.94	C
ATOM	654	CD2 TYR A 85	-10.211	-3.139	3.863	1.00	96.94	C
ATOM	655	CE1 TYR A 85	-10.500	-1.126	5.746	1.00	96.94	C
ATOM	656	CE2 TYR A 85	-10.820	-3.412	5.086	1.00	96.94	C
ATOM	657	OH TYR A 85	-11.555	-2.668	7.230	1.00	96.94	O
ATOM	658	CZ TYR A 85	-10.961	-2.402	6.020	1.00	96.94	C
ATOM	659	N ASN A 86	-12.383	-1.613	1.404	1.00	95.81	N
ATOM	660	CA ASN A 86	-13.648	-0.956	1.700	1.00	95.81	C
ATOM	661	C ASN A 86	-14.109	-1.247	3.125	1.00	95.81	C
ATOM	662	CB ASN A 86	-14.719	-1.380	0.694	1.00	95.81	C
ATOM	663	O ASN A 86	-14.453	-2.387	3.451	1.00	95.81	O
ATOM	664	CG ASN A 86	-16.000	-0.588	0.842	1.00	95.81	C
ATOM	665	ND2 ASN A 86	-16.438	0.055	-0.238	1.00	95.81	N
ATOM	666	OD1 ASN A 86	-16.609	-0.555	1.918	1.00	95.81	O
ATOM	667	N SER A 87	-14.102	-0.137	3.918	1.00	91.94	N
ATOM	668	CA SER A 87	-14.406	-0.321	5.332	1.00	91.94	C
ATOM	669	C SER A 87	-15.883	-0.640	5.543	1.00	91.94	C
ATOM	670	CB SER A 87	-14.031	0.927	6.129	1.00	91.94	C
ATOM	671	O SER A 87	-16.250	-1.311	6.508	1.00	91.94	O
ATOM	672	OG SER A 87	-14.789	2.045	5.707	1.00	91.94	O
ATOM	673	N LYS A 88	-16.766	-0.260	4.676	1.00	90.75	N
ATOM	674	CA LYS A 88	-18.188	-0.525	4.797	1.00	90.75	C
ATOM	675	C LYS A 88	-18.500	-1.994	4.527	1.00	90.75	C
ATOM	676	CB LYS A 88	-18.984	0.364	3.838	1.00	90.75	C
ATOM	677	O LYS A 88	-19.219	-2.633	5.301	1.00	90.75	O
ATOM	678	CG LYS A 88	-20.500	0.295	4.035	1.00	90.75	C
ATOM	679	CD LYS A 88	-21.219	1.302	3.152	1.00	90.75	C
ATOM	680	CE LYS A 88	-22.734	1.244	3.359	1.00	90.75	C
ATOM	681	NZ LYS A 88	-23.453	2.102	2.377	1.00	90.75	N
ATOM	682	N THR A 89	-17.844	-2.490	3.521	1.00	94.25	N
ATOM	683	CA THR A 89	-18.141	-3.861	3.117	1.00	94.25	C
ATOM	684	C THR A 89	-17.094	-4.824	3.678	1.00	94.25	C
ATOM	685	CB THR A 89	-18.188	-3.992	1.584	1.00	94.25	C
ATOM	686	O THR A 89	-17.203	-6.039	3.516	1.00	94.25	O
ATOM	687	CG2 THR A 89	-19.266	-3.092	0.991	1.00	94.25	C
ATOM	688	OG1 THR A 89	-16.922	-3.619	1.035	1.00	94.25	O
ATOM	689	N LYS A 90	-16.125	-4.262	4.406	1.00	88.81	N
ATOM	690	CA LYS A 90	-15.000	-5.027	4.934	1.00	88.81	C
ATOM	691	C LYS A 90	-14.359	-5.887	3.846	1.00	88.81	C
ATOM	692	CB LYS A 90	-15.453	-5.910	6.098	1.00	88.81	C
ATOM	693	O LYS A 90	-14.000	-7.039	4.090	1.00	88.81	O
ATOM	694	CG LYS A 90	-16.156	-5.152	7.215	1.00	88.81	C
ATOM	695	CD LYS A 90	-15.227	-4.145	7.875	1.00	88.81	C
ATOM	696	CE LYS A 90	-15.906	-3.436	9.039	1.00	88.81	C
ATOM	697	NZ LYS A 90	-15.188	-2.186	9.422	1.00	88.81	N
ATOM	698	N SER A 91	-14.352	-5.379	2.625	1.00	93.06	N
ATOM	699	CA SER A 91	-13.797	-6.129	1.503	1.00	93.06	C
ATOM	700	C SER A 91	-12.430	-5.594	1.104	1.00	93.06	C
ATOM	701	CB SER A 91	-14.742	-6.070	0.303	1.00	93.06	C
ATOM	702	O SER A 91	-12.156	-4.398	1.248	1.00	93.06	O
ATOM	703	OG SER A 91	-14.938	-4.734	-0.126	1.00	93.06	O
ATOM	704	N LEU A 92	-11.531	-6.484	0.734	1.00	95.00	N
ATOM	705	CA LEU A 92	-10.219	-6.230	0.143	1.00	95.00	C

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ATOM	706	C	LEU A 92	-10.164	-6.730	-1.296	1.00	95.00	C
ATOM	707	CB	LEU A 92	-9.117	-6.902	0.970	1.00	95.00	C
ATOM	708	O	LEU A 92	-10.305	-7.930	-1.547	1.00	95.00	O
ATOM	709	CG	LEU A 92	-7.676	-6.555	0.594	1.00	95.00	C
ATOM	710	CD1	LEU A 92	-7.438	-5.055	0.759	1.00	95.00	C
ATOM	711	CD2	LEU A 92	-6.695	-7.355	1.440	1.00	95.00	C
ATOM	712	N	GLU A 93	-10.000	-5.758	-2.211	1.00	96.62	N
ATOM	713	CA	GLU A 93	-9.945	-6.098	-3.629	1.00	96.62	C
ATOM	714	C	GLU A 93	-8.562	-5.832	-4.207	1.00	96.62	C
ATOM	715	CB	GLU A 93	-11.008	-5.316	-4.410	1.00	96.62	C
ATOM	716	O	GLU A 93	-7.980	-4.770	-3.971	1.00	96.62	O
ATOM	717	CG	GLU A 93	-12.438	-5.660	-4.020	1.00	96.62	C
ATOM	718	CD	GLU A 93	-13.477	-4.883	-4.816	1.00	96.62	C
ATOM	719	OE1	GLU A 93	-14.688	-5.152	-4.652	1.00	96.62	O
ATOM	720	OE2	GLU A 93	-13.078	-4.004	-5.609	1.00	96.62	O
ATOM	721	N	VAL A 94	-8.086	-6.820	-4.996	1.00	96.81	N
ATOM	722	CA	VAL A 94	-6.762	-6.688	-5.594	1.00	96.81	C
ATOM	723	C	VAL A 94	-6.855	-6.887	-7.105	1.00	96.81	C
ATOM	724	CB	VAL A 94	-5.762	-7.699	-4.984	1.00	96.81	C
ATOM	725	O	VAL A 94	-7.438	-7.871	-7.574	1.00	96.81	O
ATOM	726	CG1	VAL A 94	-4.375	-7.520	-5.602	1.00	96.81	C
ATOM	727	CG2	VAL A 94	-5.703	-7.539	-3.467	1.00	96.81	C
ATOM	728	N	LYS A 95	-6.359	-5.891	-7.785	1.00	97.62	N
ATOM	729	CA	LYS A 95	-6.234	-5.984	-9.234	1.00	97.62	C
ATOM	730	C	LYS A 95	-4.770	-5.926	-9.664	1.00	97.62	C
ATOM	731	CB	LYS A 95	-7.023	-4.871	-9.922	1.00	97.62	C
ATOM	732	O	LYS A 95	-4.035	-5.023	-9.258	1.00	97.62	O
ATOM	733	CG	LYS A 95	-8.531	-4.953	-9.695	1.00	97.62	C
ATOM	734	CD	LYS A 95	-9.258	-3.832	-10.422	1.00	97.62	C
ATOM	735	CE	LYS A 95	-10.758	-3.865	-10.141	1.00	97.62	C
ATOM	736	NZ	LYS A 95	-11.461	-2.682	-10.719	1.00	97.62	N
ATOM	737	N	VAL A 96	-4.387	-6.961	-10.477	1.00	96.94	N
ATOM	738	CA	VAL A 96	-2.979	-7.012	-10.852	1.00	96.94	C
ATOM	739	C	VAL A 96	-2.850	-7.117	-12.367	1.00	96.94	C
ATOM	740	CB	VAL A 96	-2.252	-8.195	-10.172	1.00	96.94	C
ATOM	741	O	VAL A 96	-3.502	-7.957	-12.992	1.00	96.94	O
ATOM	742	CG1	VAL A 96	-0.762	-8.180	-10.508	1.00	96.94	C
ATOM	743	CG2	VAL A 96	-2.457	-8.148	-8.656	1.00	96.94	C
ATOM	744	N	ASP A 97	-2.094	-6.168	-12.891	1.00	94.81	N
ATOM	745	CA	ASP A 97	-1.550	-6.359	-14.234	1.00	94.81	C
ATOM	746	C	ASP A 97	-0.133	-6.926	-14.180	1.00	94.81	C
ATOM	747	CB	ASP A 97	-1.559	-5.043	-15.008	1.00	94.81	C
ATOM	748	O	ASP A 97	0.827	-6.188	-13.945	1.00	94.81	O
ATOM	749	CG	ASP A 97	-1.276	-5.223	-16.484	1.00	94.81	C
ATOM	750	OD1	ASP A 97	-0.688	-6.258	-16.875	1.00	94.81	O
ATOM	751	OD2	ASP A 97	-1.643	-4.324	-17.281	1.00	94.81	O
ATOM	752	N	LYS A 98	0.060	-8.289	-14.320	1.00	85.94	N
ATOM	753	CA	LYS A 98	1.202	-9.117	-13.953	1.00	85.94	C
ATOM	754	C	LYS A 98	2.357	-8.930	-14.930	1.00	85.94	C
ATOM	755	CB	LYS A 98	0.797	-10.594	-13.898	1.00	85.94	C
ATOM	756	O	LYS A 98	3.377	-9.617	-14.836	1.00	85.94	O
ATOM	757	CG	LYS A 98	-0.132	-10.938	-12.742	1.00	85.94	C
ATOM	758	CD	LYS A 98	-0.422	-12.430	-12.680	1.00	85.94	C

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ATOM	759	CE	LYS	A	98	-1.319	-12.781	-11.500	1.00	85.94	C
ATOM	760	NZ	LYS	A	98	-1.584	-14.242	-11.422	1.00	85.94	N
ATOM	761	N	ASN	A	99	2.645	-7.883	-15.586	1.00	93.12	N
ATOM	762	CA	ASN	A	99	3.785	-7.684	-16.484	1.00	93.12	C
ATOM	763	C	ASN	A	99	5.105	-7.945	-15.758	1.00	93.12	C
ATOM	764	CB	ASN	A	99	3.770	-6.270	-17.062	1.00	93.12	C
ATOM	765	O	ASN	A	99	5.469	-9.102	-15.516	1.00	93.12	O
ATOM	766	CG	ASN	A	99	2.549	-6.008	-17.922	1.00	93.12	C
ATOM	767	ND2	ASN	A	99	1.970	-4.820	-17.781	1.00	93.12	N
ATOM	768	OD1	ASN	A	99	2.131	-6.863	-18.703	1.00	93.12	O
ATOM	769	N	VAL	A	100	5.625	-7.129	-14.969	1.00	94.25	N
ATOM	770	CA	VAL	A	100	6.891	-7.262	-14.258	1.00	94.25	C
ATOM	771	C	VAL	A	100	6.625	-7.691	-12.812	1.00	94.25	C
ATOM	772	CB	VAL	A	100	7.699	-5.945	-14.281	1.00	94.25	C
ATOM	773	O	VAL	A	100	7.562	-7.855	-12.031	1.00	94.25	O
ATOM	774	CG1	VAL	A	100	8.188	-5.641	-15.695	1.00	94.25	C
ATOM	775	CG2	VAL	A	100	6.859	-4.793	-13.742	1.00	94.25	C
ATOM	776	N	ILE	A	101	5.410	-7.926	-12.406	1.00	96.38	N
ATOM	777	CA	ILE	A	101	5.043	-8.406	-11.078	1.00	96.38	C
ATOM	778	C	ILE	A	101	4.930	-9.930	-11.094	1.00	96.38	C
ATOM	779	CB	ILE	A	101	3.717	-7.773	-10.602	1.00	96.38	C
ATOM	780	O	ILE	A	101	4.020	-10.484	-11.711	1.00	96.38	O
ATOM	781	CG1	ILE	A	101	3.857	-6.254	-10.492	1.00	96.38	C
ATOM	782	CG2	ILE	A	101	3.285	-8.383	-9.258	1.00	96.38	C
ATOM	783	CD1	ILE	A	101	2.545	-5.527	-10.234	1.00	96.38	C
ATOM	784	N	LYS	A	102	5.762	-10.680	-10.359	1.00	95.12	N
ATOM	785	CA	LYS	A	102	5.863	-12.133	-10.383	1.00	95.12	C
ATOM	786	C	LYS	A	102	4.953	-12.766	-9.336	1.00	95.12	C
ATOM	787	CB	LYS	A	102	7.312	-12.570	-10.156	1.00	95.12	C
ATOM	788	O	LYS	A	102	4.340	-13.805	-9.586	1.00	95.12	O
ATOM	789	CG	LYS	A	102	8.227	-12.312	-11.344	1.00	95.12	C
ATOM	790	CD	LYS	A	102	9.547	-13.062	-11.203	1.00	95.12	C
ATOM	791	CE	LYS	A	102	10.422	-12.898	-12.438	1.00	95.12	C
ATOM	792	NZ	LYS	A	102	11.719	-13.617	-12.297	1.00	95.12	N
ATOM	793	N	LYS	A	103	4.980	-12.109	-8.273	1.00	96.00	N
ATOM	794	CA	LYS	A	103	4.246	-12.680	-7.148	1.00	96.00	C
ATOM	795	C	LYS	A	103	3.721	-11.586	-6.227	1.00	96.00	C
ATOM	796	CB	LYS	A	103	5.137	-13.641	-6.363	1.00	96.00	C
ATOM	797	O	LYS	A	103	4.398	-10.578	-5.996	1.00	96.00	O
ATOM	798	CG	LYS	A	103	4.398	-14.430	-5.285	1.00	96.00	C
ATOM	799	CD	LYS	A	103	5.324	-15.398	-4.566	1.00	96.00	C
ATOM	800	CE	LYS	A	103	4.590	-16.172	-3.475	1.00	96.00	C
ATOM	801	NZ	LYS	A	103	5.480	-17.156	-2.803	1.00	96.00	N
ATOM	802	N	VAL	A	104	2.410	-11.852	-5.742	1.00	97.50	N
ATOM	803	CA	VAL	A	104	1.805	-10.953	-4.758	1.00	97.50	C
ATOM	804	C	VAL	A	104	1.259	-11.773	-3.586	1.00	97.50	C
ATOM	805	CB	VAL	A	104	0.678	-10.102	-5.383	1.00	97.50	C
ATOM	806	O	VAL	A	104	0.457	-12.688	-3.779	1.00	97.50	O
ATOM	807	CG1	VAL	A	104	0.054	-9.180	-4.340	1.00	97.50	C
ATOM	808	CG2	VAL	A	104	1.216	-9.297	-6.562	1.00	97.50	C
ATOM	809	N	GLU	A	105	1.781	-11.516	-2.381	1.00	97.25	N
ATOM	810	CA	GLU	A	105	1.266	-12.109	-1.150	1.00	97.25	C
ATOM	811	C	GLU	A	105	0.650	-11.047	-0.244	1.00	97.25	C

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ATOM	812	CB	GLU A 105	2.375	-12.859	-0.406	1.00	97.25	C
ATOM	813	O	GLU A 105	1.261	-10.000	0.002	1.00	97.25	O
ATOM	814	CG	GLU A 105	2.969	-14.016	-1.192	1.00	97.25	C
ATOM	815	CD	GLU A 105	4.113	-14.711	-0.468	1.00	97.25	C
ATOM	816	OE1	GLU A 105	3.910	-15.828	0.051	1.00	97.25	O
ATOM	817	OE2	GLU A 105	5.219	-14.125	-0.418	1.00	97.25	O
ATOM	818	N	ILE A 106	-0.553	-11.336	0.248	1.00	96.44	N
ATOM	819	CA	ILE A 106	-1.254	-10.367	1.081	1.00	96.44	C
ATOM	820	C	ILE A 106	-1.701	-11.023	2.381	1.00	96.44	C
ATOM	821	CB	ILE A 106	-2.469	-9.758	0.342	1.00	96.44	C
ATOM	822	O	ILE A 106	-2.219	-12.148	2.369	1.00	96.44	O
ATOM	823	CG1	ILE A 106	-2.027	-9.125	-0.982	1.00	96.44	C
ATOM	824	CG2	ILE A 106	-3.184	-8.734	1.228	1.00	96.44	C
ATOM	825	CD1	ILE A 106	-3.176	-8.805	-1.929	1.00	96.44	C
ATOM	826	N	LYS A 107	-1.443	-10.312	3.410	1.00	95.88	N
ATOM	827	CA	LYS A 107	-1.920	-10.711	4.730	1.00	95.88	C
ATOM	828	C	LYS A 107	-2.613	-9.555	5.441	1.00	95.88	C
ATOM	829	CB	LYS A 107	-0.763	-11.234	5.586	1.00	95.88	C
ATOM	830	O	LYS A 107	-2.078	-8.445	5.500	1.00	95.88	O
ATOM	831	CG	LYS A 107	-1.194	-11.820	6.922	1.00	95.88	C
ATOM	832	CD	LYS A 107	-0.004	-12.344	7.711	1.00	95.88	C
ATOM	833	CE	LYS A 107	-0.427	-12.875	9.078	1.00	95.88	C
ATOM	834	NZ	LYS A 107	0.739	-13.383	9.859	1.00	95.88	N
ATOM	835	N	LYS A 108	-3.816	-9.734	5.887	1.00	94.00	N
ATOM	836	CA	LYS A 108	-4.578	-8.742	6.641	1.00	94.00	C
ATOM	837	C	LYS A 108	-4.805	-9.203	8.078	1.00	94.00	C
ATOM	838	CB	LYS A 108	-5.922	-8.469	5.965	1.00	94.00	C
ATOM	839	O	LYS A 108	-5.203	-10.344	8.320	1.00	94.00	O
ATOM	840	CG	LYS A 108	-6.770	-7.422	6.676	1.00	94.00	C
ATOM	841	CD	LYS A 108	-8.141	-7.281	6.027	1.00	94.00	C
ATOM	842	CE	LYS A 108	-9.062	-6.406	6.863	1.00	94.00	C
ATOM	843	NZ	LYS A 108	-10.453	-6.379	6.309	1.00	94.00	N
ATOM	844	N	GLU A 109	-4.543	-8.359	8.953	1.00	95.88	N
ATOM	845	CA	GLU A 109	-4.770	-8.656	10.359	1.00	95.88	C
ATOM	846	C	GLU A 109	-5.402	-7.469	11.078	1.00	95.88	C
ATOM	847	CB	GLU A 109	-3.455	-9.047	11.047	1.00	95.88	C
ATOM	848	O	GLU A 109	-5.137	-6.316	10.742	1.00	95.88	O
ATOM	849	CG	GLU A 109	-2.783	-10.266	10.438	1.00	95.88	C
ATOM	850	CD	GLU A 109	-1.421	-10.570	11.039	1.00	95.88	C
ATOM	851	OE1	GLU A 109	-0.867	-11.656	10.781	1.00	95.88	O
ATOM	852	OE2	GLU A 109	-0.904	-9.703	11.781	1.00	95.88	O
ATOM	853	N	THR A 110	-6.230	-7.746	12.008	1.00	95.00	N
ATOM	854	CA	THR A 110	-6.961	-6.738	12.766	1.00	95.00	C
ATOM	855	C	THR A 110	-6.750	-6.930	14.266	1.00	95.00	C
ATOM	856	CB	THR A 110	-8.469	-6.785	12.445	1.00	95.00	C
ATOM	857	O	THR A 110	-6.840	-8.047	14.766	1.00	95.00	O
ATOM	858	CG2	THR A 110	-9.219	-5.664	13.156	1.00	95.00	C
ATOM	859	OG1	THR A 110	-8.656	-6.645	11.031	1.00	95.00	O
ATOM	860	N	THR A 111	-6.422	-5.820	14.883	1.00	95.81	N
ATOM	861	CA	THR A 111	-6.285	-5.859	16.328	1.00	95.81	C
ATOM	862	C	THR A 111	-7.168	-4.801	16.984	1.00	95.81	C
ATOM	863	CB	THR A 111	-4.820	-5.641	16.766	1.00	95.81	C
ATOM	864	O	THR A 111	-7.309	-3.691	16.469	1.00	95.81	O

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ATOM	865	CG2 THR A 111	-3.930	-6.773	16.250	1.00	95.81	C
ATOM	866	OG1 THR A 111	-4.348	-4.402	16.219	1.00	95.81	O
ATOM	867	N LYS A 112	-7.844	-5.117	18.016	1.00	95.00	N
ATOM	868	CA LYS A 112	-8.719	-4.227	18.766	1.00	95.00	C
ATOM	869	C LYS A 112	-8.242	-4.086	20.219	1.00	95.00	C
ATOM	870	CB LYS A 112	-10.156	-4.734	18.750	1.00	95.00	C
ATOM	871	O LYS A 112	-7.859	-5.070	20.844	1.00	95.00	O
ATOM	872	CG LYS A 112	-10.820	-4.637	17.375	1.00	95.00	C
ATOM	873	CD LYS A 112	-12.273	-5.098	17.422	1.00	95.00	C
ATOM	874	CE LYS A 112	-12.898	-5.121	16.031	1.00	95.00	C
ATOM	875	NZ LYS A 112	-14.344	-5.496	16.094	1.00	95.00	N
ATOM	876	N GLU A 113	-8.125	-2.902	20.578	1.00	94.00	N
ATOM	877	CA GLU A 113	-7.824	-2.596	21.969	1.00	94.00	C
ATOM	878	C GLU A 113	-8.961	-1.805	22.609	1.00	94.00	C
ATOM	879	CB GLU A 113	-6.512	-1.817	22.078	1.00	94.00	C
ATOM	880	O GLU A 113	-9.406	-0.792	22.078	1.00	94.00	O
ATOM	881	CG GLU A 113	-5.285	-2.625	21.688	1.00	94.00	C
ATOM	882	CD GLU A 113	-3.979	-1.869	21.875	1.00	94.00	C
ATOM	883	OE1 GLU A 113	-2.896	-2.461	21.672	1.00	94.00	O
ATOM	884	OE2 GLU A 113	-4.039	-0.675	22.250	1.00	94.00	O
ATOM	885	N GLU A 114	-9.492	-2.346	23.719	1.00	94.06	N
ATOM	886	CA GLU A 114	-10.586	-1.691	24.422	1.00	94.06	C
ATOM	887	C GLU A 114	-10.148	-1.217	25.812	1.00	94.06	C
ATOM	888	CB GLU A 114	-11.789	-2.635	24.547	1.00	94.06	C
ATOM	889	O GLU A 114	-9.438	-1.932	26.516	1.00	94.06	O
ATOM	890	CG GLU A 114	-12.383	-3.053	23.219	1.00	94.06	C
ATOM	891	CD GLU A 114	-13.508	-4.070	23.344	1.00	94.06	C
ATOM	892	OE1 GLU A 114	-14.070	-4.488	22.312	1.00	94.06	O
ATOM	893	OE2 GLU A 114	-13.820	-4.445	24.500	1.00	94.06	O
ATOM	894	N THR A 115	-10.461	0.002	26.031	1.00	93.00	N
ATOM	895	CA THR A 115	-10.219	0.536	27.375	1.00	93.00	C
ATOM	896	C THR A 115	-11.500	1.117	27.969	1.00	93.00	C
ATOM	897	CB THR A 115	-9.125	1.618	27.344	1.00	93.00	C
ATOM	898	O THR A 115	-12.375	1.575	27.234	1.00	93.00	O
ATOM	899	CG2 THR A 115	-7.793	1.046	26.875	1.00	93.00	C
ATOM	900	OG1 THR A 115	-9.523	2.676	26.469	1.00	93.00	O
ATOM	901	N GLU A 116	-11.727	0.854	29.156	1.00	93.69	N
ATOM	902	CA GLU A 116	-12.836	1.413	29.922	1.00	93.69	C
ATOM	903	C GLU A 116	-12.344	2.102	31.188	1.00	93.69	C
ATOM	904	CB GLU A 116	-13.852	0.320	30.281	1.00	93.69	C
ATOM	905	O GLU A 116	-11.523	1.548	31.922	1.00	93.69	O
ATOM	906	CG GLU A 116	-15.102	0.841	30.969	1.00	93.69	C
ATOM	907	CD GLU A 116	-16.141	-0.241	31.234	1.00	93.69	C
ATOM	908	OE1 GLU A 116	-16.984	-0.064	32.156	1.00	93.69	O
ATOM	909	OE2 GLU A 116	-16.094	-1.273	30.531	1.00	93.69	O
ATOM	910	N GLU A 117	-12.766	3.340	31.266	1.00	91.38	N
ATOM	911	CA GLU A 117	-12.453	4.094	32.469	1.00	91.38	C
ATOM	912	C GLU A 117	-13.727	4.621	33.125	1.00	91.38	C
ATOM	913	CB GLU A 117	-11.508	5.254	32.156	1.00	91.38	C
ATOM	914	O GLU A 117	-14.633	5.105	32.438	1.00	91.38	O
ATOM	915	CG GLU A 117	-10.125	4.816	31.688	1.00	91.38	C
ATOM	916	CD GLU A 117	-9.188	5.977	31.422	1.00	91.38	C
ATOM	917	OE1 GLU A 117	-8.008	5.734	31.078	1.00	91.38	O

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ATOM	918	OE2 GLU A 117	-9.625	7.141	31.578	1.00	91.38	O
ATOM	919	N GLU A 118	-13.828	4.387	34.312	1.00	93.69	N
ATOM	920	CA GLU A 118	-14.953	4.883	35.094	1.00	93.69	C
ATOM	921	C GLU A 118	-14.508	5.977	36.062	1.00	93.69	C
ATOM	922	CB GLU A 118	-15.609	3.736	35.875	1.00	93.69	C
ATOM	923	O GLU A 118	-13.523	5.805	36.781	1.00	93.69	O
ATOM	924	CG GLU A 118	-16.844	4.152	36.656	1.00	93.69	C
ATOM	925	CD GLU A 118	-17.500	3.004	37.406	1.00	93.69	C
ATOM	926	OE1 GLU A 118	-18.266	3.260	38.375	1.00	93.69	O
ATOM	927	OE2 GLU A 118	-17.250	1.837	37.031	1.00	93.69	O
ATOM	928	N THR A 119	-15.219	7.105	35.969	1.00	92.69	N
ATOM	929	CA THR A 119	-14.977	8.195	36.906	1.00	92.69	C
ATOM	930	C THR A 119	-16.297	8.750	37.438	1.00	92.69	C
ATOM	931	CB THR A 119	-14.172	9.336	36.250	1.00	92.69	C
ATOM	932	O THR A 119	-17.375	8.320	37.000	1.00	92.69	O
ATOM	933	CG2 THR A 119	-12.820	8.828	35.750	1.00	92.69	C
ATOM	934	OG1 THR A 119	-14.914	9.867	35.156	1.00	92.69	O
ATOM	935	N THR A 120	-16.281	9.586	38.500	1.00	93.06	N
ATOM	936	CA THR A 120	-17.422	10.305	39.031	1.00	93.06	C
ATOM	937	C THR A 120	-17.250	11.812	38.875	1.00	93.06	C
ATOM	938	CB THR A 120	-17.641	9.969	40.531	1.00	93.06	C
ATOM	939	O THR A 120	-16.188	12.352	39.156	1.00	93.06	O
ATOM	940	CG2 THR A 120	-18.953	10.570	41.031	1.00	93.06	C
ATOM	941	OG1 THR A 120	-17.688	8.547	40.688	1.00	93.06	O
ATOM	942	N ASP A 121	-18.203	12.484	38.188	1.00	89.62	N
ATOM	943	CA ASP A 121	-18.078	13.922	37.938	1.00	89.62	C
ATOM	944	C ASP A 121	-18.375	14.695	39.219	1.00	89.62	C
ATOM	945	CB ASP A 121	-19.016	14.367	36.844	1.00	89.62	C
ATOM	946	O ASP A 121	-18.656	14.102	40.281	1.00	89.62	O
ATOM	947	CG ASP A 121	-20.484	14.320	37.250	1.00	89.62	C
ATOM	948	OD1 ASP A 121	-20.781	14.203	38.438	1.00	89.62	O
ATOM	949	OD2 ASP A 121	-21.344	14.391	36.344	1.00	89.62	O
ATOM	950	N SER A 122	-18.188	16.000	39.281	1.00	90.31	N
ATOM	951	CA SER A 122	-18.328	16.859	40.438	1.00	90.31	C
ATOM	952	C SER A 122	-19.734	16.781	41.031	1.00	90.31	C
ATOM	953	CB SER A 122	-18.000	18.312	40.094	1.00	90.31	C
ATOM	954	O SER A 122	-19.922	17.031	42.219	1.00	90.31	O
ATOM	955	OG SER A 122	-16.641	18.438	39.688	1.00	90.31	O
ATOM	956	N ASP A 123	-20.719	16.359	40.188	1.00	92.38	N
ATOM	957	CA ASP A 123	-22.109	16.281	40.625	1.00	92.38	C
ATOM	958	C ASP A 123	-22.453	14.883	41.156	1.00	92.38	C
ATOM	959	CB ASP A 123	-23.047	16.672	39.500	1.00	92.38	C
ATOM	960	O ASP A 123	-23.594	14.625	41.531	1.00	92.38	O
ATOM	961	CG ASP A 123	-22.906	18.125	39.062	1.00	92.38	C
ATOM	962	OD1 ASP A 123	-22.906	19.016	39.938	1.00	92.38	O
ATOM	963	OD2 ASP A 123	-22.781	18.359	37.844	1.00	92.38	O
ATOM	964	N GLY A 124	-21.359	13.961	41.281	1.00	89.19	N
ATOM	965	CA GLY A 124	-21.609	12.609	41.781	1.00	89.19	C
ATOM	966	C GLY A 124	-22.141	11.672	40.719	1.00	89.19	C
ATOM	967	O GLY A 124	-22.547	10.555	41.000	1.00	89.19	O
ATOM	968	N ASN A 125	-22.172	12.219	39.500	1.00	91.75	N
ATOM	969	CA ASN A 125	-22.609	11.367	38.375	1.00	91.75	C
ATOM	970	C ASN A 125	-21.484	10.445	37.906	1.00	91.75	C

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ATOM	971	CB	ASN A 125	-23.125	12.219	37.219	1.00	91.75	C
ATOM	972	O	ASN A 125	-20.328	10.859	37.812	1.00	91.75	O
ATOM	973	CG	ASN A 125	-24.281	13.117	37.625	1.00	91.75	C
ATOM	974	ND2	ASN A 125	-24.484	14.195	36.875	1.00	91.75	N
ATOM	975	OD1	ASN A 125	-24.984	12.852	38.594	1.00	91.75	O
ATOM	976	N	LYS A 126	-21.750	9.117	37.688	1.00	94.19	N
ATOM	977	CA	LYS A 126	-20.828	8.148	37.094	1.00	94.19	C
ATOM	978	C	LYS A 126	-20.531	8.484	35.625	1.00	94.19	C
ATOM	979	CB	LYS A 126	-21.391	6.730	37.188	1.00	94.19	C
ATOM	980	O	LYS A 126	-21.453	8.781	34.844	1.00	94.19	O
ATOM	981	CG	LYS A 126	-20.391	5.637	36.875	1.00	94.19	C
ATOM	982	CD	LYS A 126	-20.969	4.250	37.094	1.00	94.19	C
ATOM	983	CE	LYS A 126	-19.984	3.152	36.750	1.00	94.19	C
ATOM	984	NZ	LYS A 126	-20.547	1.793	37.000	1.00	94.19	N
ATOM	985	N	ILE A 127	-19.266	8.570	35.281	1.00	93.62	N
ATOM	986	CA	ILE A 127	-18.828	8.727	33.875	1.00	93.62	C
ATOM	987	C	ILE A 127	-18.062	7.484	33.438	1.00	93.62	C
ATOM	988	CB	ILE A 127	-17.953	9.984	33.719	1.00	93.62	C
ATOM	989	O	ILE A 127	-17.109	7.070	34.094	1.00	93.62	O
ATOM	990	CG1	ILE A 127	-18.719	11.242	34.156	1.00	93.62	C
ATOM	991	CG2	ILE A 127	-17.484	10.117	32.250	1.00	93.62	C
ATOM	992	CD1	ILE A 127	-17.859	12.492	34.219	1.00	93.62	C
ATOM	993	N	ILE A 128	-18.562	6.797	32.406	1.00	94.94	N
ATOM	994	CA	ILE A 128	-17.875	5.652	31.812	1.00	94.94	C
ATOM	995	C	ILE A 128	-17.312	6.039	30.438	1.00	94.94	C
ATOM	996	CB	ILE A 128	-18.828	4.441	31.656	1.00	94.94	C
ATOM	997	O	ILE A 128	-18.047	6.504	29.562	1.00	94.94	O
ATOM	998	CG1	ILE A 128	-19.391	4.043	33.031	1.00	94.94	C
ATOM	999	CG2	ILE A 128	-18.109	3.264	31.000	1.00	94.94	C
ATOM	1000	CD1	ILE A 128	-20.531	3.035	32.969	1.00	94.94	C
ATOM	1001	N	LYS A 129	-16.000	6.020	30.375	1.00	93.62	N
ATOM	1002	CA	LYS A 129	-15.359	6.250	29.078	1.00	93.62	C
ATOM	1003	C	LYS A 129	-14.898	4.938	28.453	1.00	93.62	C
ATOM	1004	CB	LYS A 129	-14.180	7.211	29.234	1.00	93.62	C
ATOM	1005	O	LYS A 129	-14.055	4.238	29.031	1.00	93.62	O
ATOM	1006	CG	LYS A 129	-14.578	8.609	29.672	1.00	93.62	C
ATOM	1007	CD	LYS A 129	-13.367	9.531	29.750	1.00	93.62	C
ATOM	1008	CE	LYS A 129	-13.750	10.922	30.234	1.00	93.62	C
ATOM	1009	NZ	LYS A 129	-12.562	11.828	30.312	1.00	93.62	N
ATOM	1010	N	LYS A 130	-15.453	4.590	27.391	1.00	95.38	N
ATOM	1011	CA	LYS A 130	-15.070	3.406	26.625	1.00	95.38	C
ATOM	1012	C	LYS A 130	-14.305	3.787	25.359	1.00	95.38	C
ATOM	1013	CB	LYS A 130	-16.297	2.580	26.266	1.00	95.38	C
ATOM	1014	O	LYS A 130	-14.742	4.652	24.594	1.00	95.38	O
ATOM	1015	CG	LYS A 130	-17.078	2.068	27.469	1.00	95.38	C
ATOM	1016	CD	LYS A 130	-18.297	1.242	27.031	1.00	95.38	C
ATOM	1017	CE	LYS A 130	-19.078	0.738	28.234	1.00	95.38	C
ATOM	1018	NZ	LYS A 130	-20.266	-0.071	27.828	1.00	95.38	N
ATOM	1019	N	LYS A 131	-13.148	3.293	25.297	1.00	94.88	N
ATOM	1020	CA	LYS A 131	-12.328	3.527	24.125	1.00	94.88	C
ATOM	1021	C	LYS A 131	-12.039	2.223	23.375	1.00	94.88	C
ATOM	1022	CB	LYS A 131	-11.016	4.207	24.500	1.00	94.88	C
ATOM	1023	O	LYS A 131	-11.641	1.229	24.000	1.00	94.88	O

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ATOM	1024	CG	LYS A 131	-10.164	4.641	23.312	1.00	94.88	C
ATOM	1025	CD	LYS A 131	-8.930	5.414	23.766	1.00	94.88	C
ATOM	1026	CE	LYS A 131	-8.070	5.832	22.578	1.00	94.88	C
ATOM	1027	NZ	LYS A 131	-6.871	6.605	23.016	1.00	94.88	N
ATOM	1028	N	THR A 132	-12.352	2.246	22.125	1.00	95.19	N
ATOM	1029	CA	THR A 132	-12.016	1.136	21.250	1.00	95.19	C
ATOM	1030	C	THR A 132	-11.078	1.597	20.141	1.00	95.19	C
ATOM	1031	CB	THR A 132	-13.273	0.502	20.641	1.00	95.19	C
ATOM	1032	O	THR A 132	-11.414	2.500	19.375	1.00	95.19	O
ATOM	1033	CG2	THR A 132	-12.922	-0.744	19.828	1.00	95.19	C
ATOM	1034	OG1	THR A 132	-14.180	0.141	21.688	1.00	95.19	O
ATOM	1035	N	ASN A 133	-9.859	1.026	20.156	1.00	95.38	N
ATOM	1036	CA	ASN A 133	-8.922	1.264	19.062	1.00	95.38	C
ATOM	1037	C	ASN A 133	-8.758	0.028	18.188	1.00	95.38	C
ATOM	1038	CB	ASN A 133	-7.562	1.706	19.609	1.00	95.38	C
ATOM	1039	O	ASN A 133	-8.391	-1.041	18.672	1.00	95.38	O
ATOM	1040	CG	ASN A 133	-7.617	3.061	20.297	1.00	95.38	C
ATOM	1041	ND2	ASN A 133	-6.781	3.250	21.312	1.00	95.38	N
ATOM	1042	OD1	ASN A 133	-8.406	3.928	19.906	1.00	95.38	O
ATOM	1043	N	THR A 134	-9.133	0.183	17.031	1.00	95.88	N
ATOM	1044	CA	THR A 134	-8.977	-0.893	16.047	1.00	95.88	C
ATOM	1045	C	THR A 134	-7.824	-0.597	15.094	1.00	95.88	C
ATOM	1046	CB	THR A 134	-10.273	-1.107	15.242	1.00	95.88	C
ATOM	1047	O	THR A 134	-7.715	0.513	14.570	1.00	95.88	O
ATOM	1048	CG2	THR A 134	-10.125	-2.273	14.273	1.00	95.88	C
ATOM	1049	OG1	THR A 134	-11.352	-1.384	16.141	1.00	95.88	O
ATOM	1050	N	THR A 135	-6.914	-1.577	14.961	1.00	96.88	N
ATOM	1051	CA	THR A 135	-5.828	-1.479	13.992	1.00	96.88	C
ATOM	1052	C	THR A 135	-5.969	-2.541	12.906	1.00	96.88	C
ATOM	1053	CB	THR A 135	-4.453	-1.624	14.680	1.00	96.88	C
ATOM	1054	O	THR A 135	-6.027	-3.736	13.203	1.00	96.88	O
ATOM	1055	CG2	THR A 135	-3.318	-1.484	13.672	1.00	96.88	C
ATOM	1056	OG1	THR A 135	-4.316	-0.608	15.680	1.00	96.88	O
ATOM	1057	N	ILE A 136	-6.043	-2.080	11.633	1.00	96.38	N
ATOM	1058	CA	ILE A 136	-6.043	-2.959	10.469	1.00	96.38	C
ATOM	1059	C	ILE A 136	-4.676	-2.916	9.789	1.00	96.38	C
ATOM	1060	CB	ILE A 136	-7.152	-2.568	9.469	1.00	96.38	C
ATOM	1061	O	ILE A 136	-4.234	-1.857	9.336	1.00	96.38	O
ATOM	1062	CG1	ILE A 136	-8.523	-2.596	10.156	1.00	96.38	C
ATOM	1063	CG2	ILE A 136	-7.133	-3.496	8.250	1.00	96.38	C
ATOM	1064	CD1	ILE A 136	-9.625	-1.915	9.359	1.00	96.38	C
ATOM	1065	N	ASN A 137	-4.035	-4.086	9.773	1.00	97.06	N
ATOM	1066	CA	ASN A 137	-2.742	-4.199	9.102	1.00	97.06	C
ATOM	1067	C	ASN A 137	-2.854	-4.977	7.793	1.00	97.06	C
ATOM	1068	CB	ASN A 137	-1.715	-4.859	10.023	1.00	97.06	C
ATOM	1069	O	ASN A 137	-3.248	-6.141	7.793	1.00	97.06	O
ATOM	1070	CG	ASN A 137	-1.408	-4.020	11.250	1.00	97.06	C
ATOM	1071	ND2	ASN A 137	-1.743	-4.543	12.430	1.00	97.06	N
ATOM	1072	OD1	ASN A 137	-0.875	-2.914	11.148	1.00	97.06	O
ATOM	1073	N	ILE A 138	-2.498	-4.266	6.703	1.00	97.31	N
ATOM	1074	CA	ILE A 138	-2.449	-4.906	5.395	1.00	97.31	C
ATOM	1075	C	ILE A 138	-0.998	-5.055	4.945	1.00	97.31	C
ATOM	1076	CB	ILE A 138	-3.258	-4.113	4.344	1.00	97.31	C

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ATOM	1077	O	ILE A 138	-0.334	-4.062	4.637	1.00	97.31	O
ATOM	1078	CG1	ILE A 138	-4.719	-3.975	4.789	1.00	97.31	C
ATOM	1079	CG2	ILE A 138	-3.164	-4.785	2.971	1.00	97.31	C
ATOM	1080	CD1	ILE A 138	-5.516	-2.957	3.984	1.00	97.31	C
ATOM	1081	N	ASN A 139	-0.541	-6.301	4.996	1.00	97.69	N
ATOM	1082	CA	ASN A 139	0.843	-6.598	4.637	1.00	97.69	C
ATOM	1083	C	ASN A 139	0.945	-7.215	3.248	1.00	97.69	C
ATOM	1084	CB	ASN A 139	1.480	-7.520	5.680	1.00	97.69	C
ATOM	1085	O	ASN A 139	0.312	-8.234	2.969	1.00	97.69	O
ATOM	1086	CG	ASN A 139	1.436	-6.941	7.078	1.00	97.69	C
ATOM	1087	ND2	ASN A 139	0.592	-7.512	7.930	1.00	97.69	N
ATOM	1088	OD1	ASN A 139	2.152	-5.988	7.395	1.00	97.69	O
ATOM	1089	N	LEU A 140	1.693	-6.492	2.387	1.00	97.69	N
ATOM	1090	CA	LEU A 140	1.891	-6.945	1.015	1.00	97.69	C
ATOM	1091	C	LEU A 140	3.359	-7.266	0.753	1.00	97.69	C
ATOM	1092	CB	LEU A 140	1.402	-5.887	0.024	1.00	97.69	C
ATOM	1093	O	LEU A 140	4.246	-6.520	1.178	1.00	97.69	O
ATOM	1094	CG	LEU A 140	-0.113	-5.762	-0.143	1.00	97.69	C
ATOM	1095	CD1	LEU A 140	-0.713	-4.984	1.023	1.00	97.69	C
ATOM	1096	CD2	LEU A 140	-0.451	-5.090	-1.471	1.00	97.69	C
ATOM	1097	N	THR A 141	3.564	-8.398	0.184	1.00	98.12	N
ATOM	1098	CA	THR A 141	4.871	-8.711	-0.378	1.00	98.12	C
ATOM	1099	C	THR A 141	4.781	-8.898	-1.890	1.00	98.12	C
ATOM	1100	CB	THR A 141	5.461	-9.984	0.263	1.00	98.12	C
ATOM	1101	O	THR A 141	4.023	-9.742	-2.373	1.00	98.12	O
ATOM	1102	CG2	THR A 141	6.855	-10.273	-0.283	1.00	98.12	C
ATOM	1103	OG1	THR A 141	5.547	-9.797	1.682	1.00	98.12	O
ATOM	1104	N	ILE A 142	5.570	-8.039	-2.645	1.00	98.06	N
ATOM	1105	CA	ILE A 142	5.531	-8.062	-4.102	1.00	98.06	C
ATOM	1106	C	ILE A 142	6.902	-8.445	-4.648	1.00	98.06	C
ATOM	1107	CB	ILE A 142	5.094	-6.695	-4.676	1.00	98.06	C
ATOM	1108	O	ILE A 142	7.910	-7.820	-4.316	1.00	98.06	O
ATOM	1109	CG1	ILE A 142	3.730	-6.285	-4.102	1.00	98.06	C
ATOM	1110	CG2	ILE A 142	5.047	-6.742	-6.207	1.00	98.06	C
ATOM	1111	CD1	ILE A 142	3.354	-4.836	-4.375	1.00	98.06	C
ATOM	1112	N	THR A 143	6.887	-9.500	-5.410	1.00	97.88	N
ATOM	1113	CA	THR A 143	8.117	-9.883	-6.102	1.00	97.88	C
ATOM	1114	C	THR A 143	8.109	-9.367	-7.539	1.00	97.88	C
ATOM	1115	CB	THR A 143	8.305	-11.414	-6.102	1.00	97.88	C
ATOM	1116	O	THR A 143	7.172	-9.633	-8.297	1.00	97.88	O
ATOM	1117	CG2	THR A 143	9.633	-11.805	-6.746	1.00	97.88	C
ATOM	1118	OG1	THR A 143	8.281	-11.891	-4.754	1.00	97.88	O
ATOM	1119	N	ILE A 144	9.133	-8.531	-7.809	1.00	97.00	N
ATOM	1120	CA	ILE A 144	9.266	-7.914	-9.125	1.00	97.00	C
ATOM	1121	C	ILE A 144	10.273	-8.695	-9.961	1.00	97.00	C
ATOM	1122	CB	ILE A 144	9.695	-6.434	-9.008	1.00	97.00	C
ATOM	1123	O	ILE A 144	11.367	-9.023	-9.484	1.00	97.00	O
ATOM	1124	CG1	ILE A 144	8.664	-5.641	-8.203	1.00	97.00	C
ATOM	1125	CG2	ILE A 144	9.891	-5.820	-10.398	1.00	97.00	C
ATOM	1126	CD1	ILE A 144	9.156	-4.277	-7.730	1.00	97.00	C
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ATOM	1	N	ALA	A	1	20.125	10.484	-23.469	1.00	62.28	N
ATOM	2	CA	ALA	A	1	19.172	10.383	-22.359	1.00	62.28	C
ATOM	3	C	ALA	A	1	19.469	9.180	-21.484	1.00	62.28	C
ATOM	4	CB	ALA	A	1	17.750	10.305	-22.906	1.00	62.28	C
ATOM	5	O	ALA	A	1	19.781	8.094	-21.984	1.00	62.28	O
ATOM	6	N	LYS	A	2	20.031	9.367	-20.328	1.00	78.44	N
ATOM	7	CA	LYS	A	2	20.250	8.406	-19.250	1.00	78.44	C
ATOM	8	C	LYS	A	2	18.953	7.727	-18.828	1.00	78.44	C
ATOM	9	CB	LYS	A	2	20.891	9.094	-18.031	1.00	78.44	C
ATOM	10	O	LYS	A	2	17.906	8.367	-18.781	1.00	78.44	O
ATOM	11	CG	LYS	A	2	22.281	9.664	-18.312	1.00	78.44	C
ATOM	12	CD	LYS	A	2	22.922	10.211	-17.031	1.00	78.44	C
ATOM	13	CE	LYS	A	2	24.297	10.805	-17.312	1.00	78.44	C
ATOM	14	NZ	LYS	A	2	24.906	11.375	-16.078	1.00	78.44	N
ATOM	15	N	GLY	A	3	18.688	6.430	-19.219	1.00	87.62	N
ATOM	16	CA	GLY	A	3	17.547	5.633	-18.812	1.00	87.62	C
ATOM	17	C	GLY	A	3	17.109	5.898	-17.375	1.00	87.62	C
ATOM	18	O	GLY	A	3	17.891	6.434	-16.578	1.00	87.62	O
ATOM	19	N	THR	A	4	15.828	5.844	-17.047	1.00	93.19	N
ATOM	20	CA	THR	A	4	15.227	5.996	-15.727	1.00	93.19	C
ATOM	21	C	THR	A	4	14.992	4.633	-15.086	1.00	93.19	C
ATOM	22	CB	THR	A	4	13.898	6.770	-15.805	1.00	93.19	C
ATOM	23	O	THR	A	4	14.875	3.623	-15.781	1.00	93.19	O
ATOM	24	CG2	THR	A	4	14.117	8.180	-16.359	1.00	93.19	C
ATOM	25	OG1	THR	A	4	12.992	6.070	-16.656	1.00	93.19	O
ATOM	26	N	VAL	A	5	15.102	4.570	-13.758	1.00	95.88	N
ATOM	27	CA	VAL	A	5	14.781	3.383	-12.977	1.00	95.88	C
ATOM	28	C	VAL	A	5	13.547	3.654	-12.109	1.00	95.88	C
ATOM	29	CB	VAL	A	5	15.969	2.941	-12.094	1.00	95.88	C
ATOM	30	O	VAL	A	5	13.523	4.617	-11.344	1.00	95.88	O
ATOM	31	CG1	VAL	A	5	15.680	1.592	-11.438	1.00	95.88	C
ATOM	32	CG2	VAL	A	5	17.250	2.873	-12.922	1.00	95.88	C
ATOM	33	N	THR	A	6	12.523	2.863	-12.273	1.00	97.06	N
ATOM	34	CA	THR	A	6	11.273	3.000	-11.531	1.00	97.06	C
ATOM	35	C	THR	A	6	11.094	1.847	-10.555	1.00	97.06	C
ATOM	36	CB	THR	A	6	10.070	3.059	-12.484	1.00	97.06	C
ATOM	37	O	THR	A	6	11.266	0.681	-10.914	1.00	97.06	O
ATOM	38	CG2	THR	A	6	8.758	3.191	-11.711	1.00	97.06	C
ATOM	39	OG1	THR	A	6	10.211	4.188	-13.359	1.00	97.06	O
ATOM	40	N	GLY	A	7	10.867	2.094	-9.273	1.00	97.69	N
ATOM	41	CA	GLY	A	7	10.516	1.137	-8.234	1.00	97.69	C
ATOM	42	C	GLY	A	7	9.125	1.359	-7.664	1.00	97.69	C
ATOM	43	O	GLY	A	7	8.727	2.500	-7.414	1.00	97.69	O
ATOM	44	N	THR	A	8	8.414	0.289	-7.535	1.00	98.06	N
ATOM	45	CA	THR	A	8	7.066	0.339	-6.973	1.00	98.06	C
ATOM	46	C	THR	A	8	6.910	-0.683	-5.848	1.00	98.06	C
ATOM	47	CB	THR	A	8	6.000	0.083	-8.055	1.00	98.06	C
ATOM	48	O	THR	A	8	7.277	-1.849	-6.008	1.00	98.06	O
ATOM	49	CG2	THR	A	8	4.594	0.140	-7.465	1.00	98.06	C
ATOM	50	OG1	THR	A	8	6.117	1.078	-9.078	1.00	98.06	O
ATOM	51	N	ILE	A	9	6.508	-0.286	-4.652	1.00	98.19	N
ATOM	52	CA	ILE	A	9	6.148	-1.184	-3.561	1.00	98.19	C
ATOM	53	C	ILE	A	9	4.648	-1.102	-3.297	1.00	98.19	C

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ATOM	54	CB	ILE	A	9	6.938	-0.853	-2.275	1.00	98.19	C
ATOM	55	O	ILE	A	9	4.109	-0.014	-3.078	1.00	98.19	O
ATOM	56	CG1	ILE	A	9	8.438	-1.080	-2.496	1.00	98.19	C
ATOM	57	CG2	ILE	A	9	6.426	-1.686	-1.097	1.00	98.19	C
ATOM	58	CD1	ILE	A	9	9.312	-0.656	-1.321	1.00	98.19	C
ATOM	59	N	ASN	A	10	4.004	-2.236	-3.430	1.00	97.50	N
ATOM	60	CA	ASN	A	10	2.598	-2.389	-3.070	1.00	97.50	C
ATOM	61	C	ASN	A	10	2.436	-3.076	-1.718	1.00	97.50	C
ATOM	62	CB	ASN	A	10	1.849	-3.168	-4.156	1.00	97.50	C
ATOM	63	O	ASN	A	10	2.941	-4.180	-1.514	1.00	97.50	O
ATOM	64	CG	ASN	A	10	1.912	-2.490	-5.508	1.00	97.50	C
ATOM	65	ND2	ASN	A	10	2.508	-3.168	-6.484	1.00	97.50	N
ATOM	66	OD1	ASN	A	10	1.431	-1.367	-5.680	1.00	97.50	O
ATOM	67	N	ILE	A	11	1.792	-2.445	-0.729	1.00	97.50	N
ATOM	68	CA	ILE	A	11	1.475	-3.074	0.550	1.00	97.50	C
ATOM	69	C	ILE	A	11	-0.031	-3.301	0.653	1.00	97.50	C
ATOM	70	CB	ILE	A	11	1.971	-2.219	1.737	1.00	97.50	C
ATOM	71	O	ILE	A	11	-0.803	-2.346	0.771	1.00	97.50	O
ATOM	72	CG1	ILE	A	11	3.461	-1.896	1.579	1.00	97.50	C
ATOM	73	CG2	ILE	A	11	1.702	-2.932	3.066	1.00	97.50	C
ATOM	74	CD1	ILE	A	11	3.992	-0.905	2.605	1.00	97.50	C
ATOM	75	N	ASN	A	12	-0.354	-4.582	0.542	1.00	96.12	N
ATOM	76	CA	ASN	A	12	-1.751	-4.988	0.641	1.00	96.12	C
ATOM	77	C	ASN	A	12	-2.152	-5.266	2.086	1.00	96.12	C
ATOM	78	CB	ASN	A	12	-2.014	-6.219	-0.228	1.00	96.12	C
ATOM	79	O	ASN	A	12	-1.544	-6.098	2.756	1.00	96.12	O
ATOM	80	CG	ASN	A	12	-1.725	-5.973	-1.695	1.00	96.12	C
ATOM	81	ND2	ASN	A	12	-1.086	-6.938	-2.344	1.00	96.12	N
ATOM	82	OD1	ASN	A	12	-2.070	-4.922	-2.240	1.00	96.12	O
ATOM	83	N	TYR	A	13	-3.178	-4.488	2.617	1.00	95.81	N
ATOM	84	CA	TYR	A	13	-3.650	-4.652	3.988	1.00	95.81	C
ATOM	85	C	TYR	A	13	-4.996	-5.363	4.020	1.00	95.81	C
ATOM	86	CB	TYR	A	13	-3.764	-3.289	4.680	1.00	95.81	C
ATOM	87	O	TYR	A	13	-5.902	-5.027	3.254	1.00	95.81	O
ATOM	88	CG	TYR	A	13	-2.434	-2.627	4.938	1.00	95.81	C
ATOM	89	CD1	TYR	A	13	-1.728	-2.871	6.113	1.00	95.81	C
ATOM	90	CD2	TYR	A	13	-1.880	-1.754	4.008	1.00	95.81	C
ATOM	91	CE1	TYR	A	13	-0.501	-2.260	6.355	1.00	95.81	C
ATOM	92	CE2	TYR	A	13	-0.654	-1.138	4.242	1.00	95.81	C
ATOM	93	OH	TYR	A	13	1.240	-0.790	5.652	1.00	95.81	O
ATOM	94	CZ	TYR	A	13	0.027	-1.396	5.414	1.00	95.81	C
ATOM	95	N	THR	A	14	-5.031	-6.406	4.809	1.00	96.31	N
ATOM	96	CA	THR	A	14	-6.285	-7.039	5.188	1.00	96.31	C
ATOM	97	C	THR	A	14	-6.492	-6.969	6.699	1.00	96.31	C
ATOM	98	CB	THR	A	14	-6.328	-8.508	4.730	1.00	96.31	C
ATOM	99	O	THR	A	14	-5.684	-7.496	7.469	1.00	96.31	O
ATOM	100	CG2	THR	A	14	-7.664	-9.156	5.086	1.00	96.31	C
ATOM	101	OG1	THR	A	14	-6.148	-8.570	3.311	1.00	96.31	O
ATOM	102	N	VAL	A	15	-7.516	-6.219	7.102	1.00	95.12	N
ATOM	103	CA	VAL	A	15	-7.848	-6.113	8.516	1.00	95.12	C
ATOM	104	C	VAL	A	15	-9.219	-6.734	8.773	1.00	95.12	C
ATOM	105	CB	VAL	A	15	-7.828	-4.645	9.000	1.00	95.12	C
ATOM	106	O	VAL	A	15	-10.203	-6.371	8.133	1.00	95.12	O

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ATOM	107	CG1 VAL A 15	-8.016	-4.566	10.516	1.00	95.12	C
ATOM	108	CG2 VAL A 15	-6.523	-3.963	8.586	1.00	95.12	C
ATOM	109	N THR A 16	-9.227	-7.652	9.695	1.00	94.94	N
ATOM	110	CA THR A 16	-10.477	-8.312	10.055	1.00	94.94	C
ATOM	111	C THR A 16	-10.812	-8.062	11.523	1.00	94.94	C
ATOM	112	CB THR A 16	-10.406	-9.828	9.789	1.00	94.94	C
ATOM	113	O THR A 16	-9.984	-8.312	12.406	1.00	94.94	O
ATOM	114	CG2 THR A 16	-11.734	-10.500	10.109	1.00	94.94	C
ATOM	115	OG1 THR A 16	-10.086	-10.047	8.406	1.00	94.94	O
ATOM	116	N TRP A 17	-12.008	-7.387	11.727	1.00	93.69	N
ATOM	117	CA TRP A 17	-12.555	-7.227	13.070	1.00	93.69	C
ATOM	118	C TRP A 17	-13.633	-8.266	13.344	1.00	93.69	C
ATOM	119	CB TRP A 17	-13.125	-5.816	13.250	1.00	93.69	C
ATOM	120	O TRP A 17	-14.422	-8.602	12.461	1.00	93.69	O
ATOM	121	CG TRP A 17	-12.094	-4.727	13.148	1.00	93.69	C
ATOM	122	CD1 TRP A 17	-11.320	-4.227	14.156	1.00	93.69	C
ATOM	123	CD2 TRP A 17	-11.742	-4.000	11.969	1.00	93.69	C
ATOM	124	CE2 TRP A 17	-10.742	-3.072	12.336	1.00	93.69	C
ATOM	125	CE3 TRP A 17	-12.164	-4.043	10.641	1.00	93.69	C
ATOM	126	NE1 TRP A 17	-10.500	-3.230	13.680	1.00	93.69	N
ATOM	127	CH2 TRP A 17	-10.594	-2.258	10.125	1.00	93.69	C
ATOM	128	CZ2 TRP A 17	-10.156	-2.195	11.422	1.00	93.69	C
ATOM	129	CZ3 TRP A 17	-11.586	-3.170	9.727	1.00	93.69	C
ATOM	130	N THR A 18	-13.570	-8.859	14.562	1.00	90.75	N
ATOM	131	CA THR A 18	-14.656	-9.734	15.000	1.00	90.75	C
ATOM	132	C THR A 18	-15.445	-9.086	16.141	1.00	90.75	C
ATOM	133	CB THR A 18	-14.133	-11.102	15.453	1.00	90.75	C
ATOM	134	O THR A 18	-14.875	-8.727	17.172	1.00	90.75	O
ATOM	135	CG2 THR A 18	-15.281	-12.039	15.820	1.00	90.75	C
ATOM	136	OG1 THR A 18	-13.375	-11.695	14.391	1.00	90.75	O
ATOM	137	N LYS A 19	-16.750	-8.836	15.891	1.00	84.81	N
ATOM	138	CA LYS A 19	-17.672	-8.297	16.891	1.00	84.81	C
ATOM	139	C LYS A 19	-18.906	-9.172	17.031	1.00	84.81	C
ATOM	140	CB LYS A 19	-18.078	-6.867	16.531	1.00	84.81	C
ATOM	141	O LYS A 19	-19.609	-9.422	16.047	1.00	84.81	O
ATOM	142	CG LYS A 19	-18.906	-6.172	17.578	1.00	84.81	C
ATOM	143	CD LYS A 19	-19.281	-4.758	17.172	1.00	84.81	C
ATOM	144	CE LYS A 19	-20.125	-4.059	18.234	1.00	84.81	C
ATOM	145	NZ LYS A 19	-20.734	-2.797	17.719	1.00	84.81	N
ATOM	146	N ASP A 20	-19.078	-9.711	18.328	1.00	85.56	N
ATOM	147	CA ASP A 20	-20.250	-10.531	18.594	1.00	85.56	C
ATOM	148	C ASP A 20	-20.344	-11.703	17.625	1.00	85.56	C
ATOM	149	CB ASP A 20	-21.531	-9.688	18.531	1.00	85.56	C
ATOM	150	O ASP A 20	-21.422	-12.031	17.141	1.00	85.56	O
ATOM	151	CG ASP A 20	-21.547	-8.555	19.531	1.00	85.56	C
ATOM	152	OD1 ASP A 20	-21.016	-8.719	20.656	1.00	85.56	O
ATOM	153	OD2 ASP A 20	-22.109	-7.484	19.219	1.00	85.56	O
ATOM	154	N GLY A 21	-19.188	-12.250	17.219	1.00	84.44	N
ATOM	155	CA GLY A 21	-19.156	-13.422	16.359	1.00	84.44	C
ATOM	156	C GLY A 21	-19.234	-13.078	14.891	1.00	84.44	C
ATOM	157	O GLY A 21	-19.203	-13.969	14.039	1.00	84.44	O
ATOM	158	N LYS A 22	-19.281	-11.812	14.617	1.00	86.62	N
ATOM	159	CA LYS A 22	-19.359	-11.383	13.219	1.00	86.62	C

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ATOM	160	C	LYS	A	22	-18.016	-10.797	12.758	1.00	86.62	C
ATOM	161	CB	LYS	A	22	-20.469	-10.359	13.039	1.00	86.62	C
ATOM	162	O	LYS	A	22	-17.375	-10.039	13.492	1.00	86.62	O
ATOM	163	CG	LYS	A	22	-21.859	-10.883	13.391	1.00	86.62	C
ATOM	164	CD	LYS	A	22	-22.922	-9.797	13.242	1.00	86.62	C
ATOM	165	CE	LYS	A	22	-24.297	-10.297	13.672	1.00	86.62	C
ATOM	166	NZ	LYS	A	22	-25.312	-9.211	13.609	1.00	86.62	N
ATOM	167	N	LYS	A	23	-17.703	-11.148	11.492	1.00	92.00	N
ATOM	168	CA	LYS	A	23	-16.453	-10.680	10.922	1.00	92.00	C
ATOM	169	C	LYS	A	23	-16.672	-9.453	10.039	1.00	92.00	C
ATOM	170	CB	LYS	A	23	-15.781	-11.797	10.109	1.00	92.00	C
ATOM	171	O	LYS	A	23	-17.609	-9.414	9.250	1.00	92.00	O
ATOM	172	CG	LYS	A	23	-15.297	-12.969	10.945	1.00	92.00	C
ATOM	173	CD	LYS	A	23	-14.570	-14.000	10.102	1.00	92.00	C
ATOM	174	CE	LYS	A	23	-14.094	-15.180	10.938	1.00	92.00	C
ATOM	175	NZ	LYS	A	23	-13.398	-16.203	10.102	1.00	92.00	N
ATOM	176	N	ILE	A	24	-15.859	-8.469	10.242	1.00	92.62	N
ATOM	177	CA	ILE	A	24	-15.773	-7.262	9.422	1.00	92.62	C
ATOM	178	C	ILE	A	24	-14.383	-7.156	8.797	1.00	92.62	C
ATOM	179	CB	ILE	A	24	-16.094	-5.992	10.250	1.00	92.62	C
ATOM	180	O	ILE	A	24	-13.383	-7.051	9.516	1.00	92.62	O
ATOM	181	CG1	ILE	A	24	-17.422	-6.148	10.969	1.00	92.62	C
ATOM	182	CG2	ILE	A	24	-16.094	-4.750	9.352	1.00	92.62	C
ATOM	183	CD1	ILE	A	24	-17.547	-5.297	12.227	1.00	92.62	C
ATOM	184	N	THR	A	25	-14.406	-7.215	7.484	1.00	94.31	N
ATOM	185	CA	THR	A	25	-13.117	-7.258	6.809	1.00	94.31	C
ATOM	186	C	THR	A	25	-12.906	-6.008	5.957	1.00	94.31	C
ATOM	187	CB	THR	A	25	-12.984	-8.508	5.926	1.00	94.31	C
ATOM	188	O	THR	A	25	-13.805	-5.609	5.207	1.00	94.31	O
ATOM	189	CG2	THR	A	25	-11.625	-8.562	5.238	1.00	94.31	C
ATOM	190	OG1	THR	A	25	-13.141	-9.680	6.738	1.00	94.31	O
ATOM	191	N	LEU	A	26	-11.781	-5.355	6.090	1.00	95.50	N
ATOM	192	CA	LEU	A	26	-11.320	-4.227	5.285	1.00	95.50	C
ATOM	193	C	LEU	A	26	-10.062	-4.594	4.508	1.00	95.50	C
ATOM	194	CB	LEU	A	26	-11.047	-3.010	6.176	1.00	95.50	C
ATOM	195	O	LEU	A	26	-9.094	-5.105	5.082	1.00	95.50	O
ATOM	196	CG	LEU	A	26	-10.383	-1.812	5.496	1.00	95.50	C
ATOM	197	CD1	LEU	A	26	-11.344	-1.156	4.512	1.00	95.50	C
ATOM	198	CD2	LEU	A	26	-9.906	-0.805	6.539	1.00	95.50	C
ATOM	199	N	ASN	A	27	-10.109	-4.449	3.135	1.00	95.81	N
ATOM	200	CA	ASN	A	27	-8.961	-4.648	2.256	1.00	95.81	C
ATOM	201	C	ASN	A	27	-8.586	-3.365	1.522	1.00	95.81	C
ATOM	202	CB	ASN	A	27	-9.234	-5.773	1.253	1.00	95.81	C
ATOM	203	O	ASN	A	27	-9.445	-2.715	0.924	1.00	95.81	O
ATOM	204	CG	ASN	A	27	-9.594	-7.082	1.928	1.00	95.81	C
ATOM	205	ND2	ASN	A	27	-10.859	-7.469	1.846	1.00	95.81	N
ATOM	206	OD1	ASN	A	27	-8.734	-7.742	2.518	1.00	95.81	O
ATOM	207	N	PHE	A	28	-7.383	-2.971	1.614	1.00	95.56	N
ATOM	208	CA	PHE	A	28	-6.926	-1.835	0.822	1.00	95.56	C
ATOM	209	C	PHE	A	28	-5.434	-1.942	0.532	1.00	95.56	C
ATOM	210	CB	PHE	A	28	-7.227	-0.519	1.545	1.00	95.56	C
ATOM	211	O	PHE	A	28	-4.734	-2.756	1.139	1.00	95.56	O
ATOM	212	CG	PHE	A	28	-6.449	-0.335	2.820	1.00	95.56	C

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ATOM	213	CD1 PHE A 28	-6.844	-0.978	3.988	1.00	95.56	C
ATOM	214	CD2 PHE A 28	-5.328	0.480	2.854	1.00	95.56	C
ATOM	215	CE1 PHE A 28	-6.129	-0.811	5.172	1.00	95.56	C
ATOM	216	CE2 PHE A 28	-4.605	0.653	4.031	1.00	95.56	C
ATOM	217	CZ PHE A 28	-5.008	0.007	5.191	1.00	95.56	C
ATOM	218	N THR A 29	-5.012	-1.240	-0.474	1.00	95.88	N
ATOM	219	CA THR A 29	-3.625	-1.279	-0.926	1.00	95.88	C
ATOM	220	C THR A 29	-2.996	0.109	-0.857	1.00	95.88	C
ATOM	221	CB THR A 29	-3.521	-1.822	-2.363	1.00	95.88	C
ATOM	222	O THR A 29	-3.625	1.102	-1.230	1.00	95.88	O
ATOM	223	CG2 THR A 29	-2.072	-1.842	-2.840	1.00	95.88	C
ATOM	224	OG1 THR A 29	-4.043	-3.156	-2.402	1.00	95.88	O
ATOM	225	N VAL A 30	-1.807	0.171	-0.318	1.00	96.19	N
ATOM	226	CA VAL A 30	-0.971	1.366	-0.382	1.00	96.19	C
ATOM	227	C VAL A 30	0.157	1.154	-1.390	1.00	96.19	C
ATOM	228	CB VAL A 30	-0.389	1.727	1.003	1.00	96.19	C
ATOM	229	O VAL A 30	0.898	0.173	-1.304	1.00	96.19	O
ATOM	230	CG1 VAL A 30	0.542	2.934	0.899	1.00	96.19	C
ATOM	231	CG2 VAL A 30	-1.514	1.999	2.000	1.00	96.19	C
ATOM	232	N THR A 31	0.223	2.068	-2.422	1.00	96.81	N
ATOM	233	CA THR A 31	1.224	1.960	-3.479	1.00	96.81	C
ATOM	234	C THR A 31	2.201	3.129	-3.418	1.00	96.81	C
ATOM	235	CB THR A 31	0.565	1.909	-4.871	1.00	96.81	C
ATOM	236	O THR A 31	1.787	4.289	-3.336	1.00	96.81	O
ATOM	237	CG2 THR A 31	1.614	1.801	-5.973	1.00	96.81	C
ATOM	238	OG1 THR A 31	-0.304	0.772	-4.938	1.00	96.81	O
ATOM	239	N VAL A 32	3.469	2.852	-3.354	1.00	96.69	N
ATOM	240	CA VAL A 32	4.516	3.867	-3.422	1.00	96.69	C
ATOM	241	C VAL A 32	5.395	3.621	-4.645	1.00	96.69	C
ATOM	242	CB VAL A 32	5.375	3.883	-2.141	1.00	96.69	C
ATOM	243	O VAL A 32	5.930	2.523	-4.820	1.00	96.69	O
ATOM	244	CG1 VAL A 32	6.426	4.988	-2.209	1.00	96.69	C
ATOM	245	CG2 VAL A 32	4.492	4.059	-0.907	1.00	96.69	C
ATOM	246	N THR A 33	5.508	4.660	-5.484	1.00	97.12	N
ATOM	247	CA THR A 33	6.309	4.582	-6.703	1.00	97.12	C
ATOM	248	C THR A 33	7.312	5.734	-6.762	1.00	97.12	C
ATOM	249	CB THR A 33	5.422	4.605	-7.961	1.00	97.12	C
ATOM	250	O THR A 33	6.961	6.883	-6.488	1.00	97.12	O
ATOM	251	CG2 THR A 33	6.262	4.539	-9.227	1.00	97.12	C
ATOM	252	OG1 THR A 33	4.531	3.484	-7.930	1.00	97.12	O
ATOM	253	N GLU A 34	8.523	5.422	-7.094	1.00	97.06	N
ATOM	254	CA GLU A 34	9.547	6.434	-7.328	1.00	97.06	C
ATOM	255	C GLU A 34	10.336	6.137	-8.594	1.00	97.06	C
ATOM	256	CB GLU A 34	10.492	6.523	-6.129	1.00	97.06	C
ATOM	257	O GLU A 34	10.555	4.973	-8.945	1.00	97.06	O
ATOM	258	CG GLU A 34	9.812	6.953	-4.836	1.00	97.06	C
ATOM	259	CD GLU A 34	9.391	8.414	-4.836	1.00	97.06	C
ATOM	260	OE1 GLU A 34	8.594	8.812	-3.957	1.00	97.06	O
ATOM	261	OE2 GLU A 34	9.859	9.164	-5.723	1.00	97.06	O
ATOM	262	N THR A 35	10.641	7.184	-9.242	1.00	95.69	N
ATOM	263	CA THR A 35	11.438	7.098	-10.461	1.00	95.69	C
ATOM	264	C THR A 35	12.656	8.016	-10.375	1.00	95.69	C
ATOM	265	CB THR A 35	10.602	7.457	-11.703	1.00	95.69	C

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ATOM	266	O	THR	A	35	12.531	9.188	-10.023	1.00	95.69	O
ATOM	267	CG2	THR	A	35	11.430	7.328	-12.977	1.00	95.69	C
ATOM	268	OG1	THR	A	35	9.477	6.582	-11.789	1.00	95.69	O
ATOM	269	N	LEU	A	36	13.859	7.418	-10.617	1.00	95.38	N
ATOM	270	CA	LEU	A	36	15.070	8.227	-10.602	1.00	95.38	C
ATOM	271	C	LEU	A	36	15.898	7.992	-11.867	1.00	95.38	C
ATOM	272	CB	LEU	A	36	15.914	7.898	-9.367	1.00	95.38	C
ATOM	273	O	LEU	A	36	15.789	6.938	-12.500	1.00	95.38	O
ATOM	274	CG	LEU	A	36	15.281	8.219	-8.016	1.00	95.38	C
ATOM	275	CD1	LEU	A	36	16.203	7.789	-6.879	1.00	95.38	C
ATOM	276	CD2	LEU	A	36	14.953	9.703	-7.910	1.00	95.38	C
ATOM	277	N	LYS	A	37	16.641	8.922	-12.234	1.00	91.31	N
ATOM	278	CA	LYS	A	37	17.672	8.812	-13.266	1.00	91.31	C
ATOM	279	C	LYS	A	37	19.062	9.094	-12.695	1.00	91.31	C
ATOM	280	CB	LYS	A	37	17.375	9.773	-14.414	1.00	91.31	C
ATOM	281	O	LYS	A	37	19.188	9.695	-11.625	1.00	91.31	O
ATOM	282	CG	LYS	A	37	17.406	11.242	-14.023	1.00	91.31	C
ATOM	283	CD	LYS	A	37	17.062	12.148	-15.195	1.00	91.31	C
ATOM	284	CE	LYS	A	37	17.188	13.625	-14.820	1.00	91.31	C
ATOM	285	NZ	LYS	A	37	16.875	14.516	-15.977	1.00	91.31	N
ATOM	286	N	GLU	A	38	20.125	8.578	-13.391	1.00	86.62	N
ATOM	287	CA	GLU	A	38	21.500	8.836	-12.977	1.00	86.62	C
ATOM	288	C	GLU	A	38	21.750	10.328	-12.812	1.00	86.62	C
ATOM	289	CB	GLU	A	38	22.484	8.242	-13.992	1.00	86.62	C
ATOM	290	O	GLU	A	38	21.406	11.125	-13.688	1.00	86.62	O
ATOM	291	CG	GLU	A	38	23.922	8.234	-13.516	1.00	86.62	C
ATOM	292	CD	GLU	A	38	24.844	7.402	-14.398	1.00	86.62	C
ATOM	293	OE1	GLU	A	38	26.031	7.258	-14.055	1.00	86.62	O
ATOM	294	OE2	GLU	A	38	24.359	6.887	-15.430	1.00	86.62	O
ATOM	295	N	GLY	A	39	22.281	10.727	-11.656	1.00	87.38	N
ATOM	296	CA	GLY	A	39	22.547	12.133	-11.383	1.00	87.38	C
ATOM	297	C	GLY	A	39	21.500	12.781	-10.492	1.00	87.38	C
ATOM	298	O	GLY	A	39	21.719	13.867	-9.961	1.00	87.38	O
ATOM	299	N	ASP	A	40	20.359	12.016	-10.398	1.00	91.25	N
ATOM	300	CA	ASP	A	40	19.328	12.539	-9.508	1.00	91.25	C
ATOM	301	C	ASP	A	40	19.797	12.500	-8.055	1.00	91.25	C
ATOM	302	CB	ASP	A	40	18.031	11.742	-9.664	1.00	91.25	C
ATOM	303	O	ASP	A	40	20.516	11.586	-7.645	1.00	91.25	O
ATOM	304	CG	ASP	A	40	17.281	12.094	-10.930	1.00	91.25	C
ATOM	305	OD1	ASP	A	40	17.672	13.047	-11.633	1.00	91.25	O
ATOM	306	OD2	ASP	A	40	16.266	11.414	-11.219	1.00	91.25	O
ATOM	307	N	ALA	A	41	19.578	13.555	-7.352	1.00	92.06	N
ATOM	308	CA	ALA	A	41	19.766	13.531	-5.902	1.00	92.06	C
ATOM	309	C	ALA	A	41	18.781	12.578	-5.234	1.00	92.06	C
ATOM	310	CB	ALA	A	41	19.625	14.938	-5.324	1.00	92.06	C
ATOM	311	O	ALA	A	41	17.766	12.219	-5.820	1.00	92.06	O
ATOM	312	N	ALA	A	42	19.219	12.008	-4.145	1.00	94.12	N
ATOM	313	CA	ALA	A	42	18.297	11.211	-3.344	1.00	94.12	C
ATOM	314	C	ALA	A	42	17.000	11.969	-3.094	1.00	94.12	C
ATOM	315	CB	ALA	A	42	18.938	10.820	-2.018	1.00	94.12	C
ATOM	316	O	ALA	A	42	17.000	13.195	-2.936	1.00	94.12	O
ATOM	317	N	LYS	A	43	15.812	11.242	-3.219	1.00	94.19	N
ATOM	318	CA	LYS	A	43	14.484	11.805	-2.990	1.00	94.19	C

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ATOM	319	C	LYS A 43	13.859	11.242	-1.720	1.00	94.19	C
ATOM	320	CB	LYS A 43	13.570	11.539	-4.188	1.00	94.19	C
ATOM	321	O	LYS A 43	13.938	10.039	-1.462	1.00	94.19	O
ATOM	322	CG	LYS A 43	13.953	12.305	-5.445	1.00	94.19	C
ATOM	323	CD	LYS A 43	12.945	12.086	-6.566	1.00	94.19	C
ATOM	324	CE	LYS A 43	13.344	12.836	-7.828	1.00	94.19	C
ATOM	325	NZ	LYS A 43	12.375	12.594	-8.945	1.00	94.19	N
ATOM	326	N	GLU A 44	13.500	12.156	-0.876	1.00	96.94	N
ATOM	327	CA	GLU A 44	12.734	11.812	0.317	1.00	96.94	C
ATOM	328	C	GLU A 44	11.352	12.461	0.299	1.00	96.94	C
ATOM	329	CB	GLU A 44	13.492	12.219	1.582	1.00	96.94	C
ATOM	330	O	GLU A 44	11.227	13.641	-0.044	1.00	96.94	O
ATOM	331	CG	GLU A 44	12.852	11.719	2.869	1.00	96.94	C
ATOM	332	CD	GLU A 44	13.703	11.984	4.102	1.00	96.94	C
ATOM	333	OE1	GLU A 44	13.297	11.586	5.219	1.00	96.94	O
ATOM	334	OE2	GLU A 44	14.789	12.594	3.951	1.00	96.94	O
ATOM	335	N	LYS A 45	10.344	11.641	0.512	1.00	96.12	N
ATOM	336	CA	LYS A 45	8.969	12.133	0.466	1.00	96.12	C
ATOM	337	C	LYS A 45	8.156	11.609	1.646	1.00	96.12	C
ATOM	338	CB	LYS A 45	8.305	11.742	-0.851	1.00	96.12	C
ATOM	339	O	LYS A 45	8.383	10.492	2.111	1.00	96.12	O
ATOM	340	CG	LYS A 45	6.922	12.344	-1.051	1.00	96.12	C
ATOM	341	CD	LYS A 45	6.316	11.930	-2.385	1.00	96.12	C
ATOM	342	CE	LYS A 45	4.914	12.492	-2.564	1.00	96.12	C
ATOM	343	NZ	LYS A 45	4.320	12.102	-3.879	1.00	96.12	N
ATOM	344	N	GLU A 46	7.387	12.500	2.219	1.00	97.44	N
ATOM	345	CA	GLU A 46	6.422	12.141	3.254	1.00	97.44	C
ATOM	346	C	GLU A 46	5.020	12.617	2.885	1.00	97.44	C
ATOM	347	CB	GLU A 46	6.836	12.727	4.605	1.00	97.44	C
ATOM	348	O	GLU A 46	4.832	13.773	2.484	1.00	97.44	O
ATOM	349	CG	GLU A 46	5.945	12.297	5.762	1.00	97.44	C
ATOM	350	CD	GLU A 46	6.426	12.812	7.109	1.00	97.44	C
ATOM	351	OE1	GLU A 46	5.773	12.516	8.141	1.00	97.44	O
ATOM	352	OE2	GLU A 46	7.457	13.516	7.141	1.00	97.44	O
ATOM	353	N	THR A 47	4.062	11.656	2.963	1.00	97.00	N
ATOM	354	CA	THR A 47	2.680	12.008	2.662	1.00	97.00	C
ATOM	355	C	THR A 47	1.738	11.461	3.730	1.00	97.00	C
ATOM	356	CB	THR A 47	2.256	11.477	1.280	1.00	97.00	C
ATOM	357	O	THR A 47	2.059	10.484	4.406	1.00	97.00	O
ATOM	358	CG2	THR A 47	3.150	12.031	0.178	1.00	97.00	C
ATOM	359	OG1	THR A 47	2.348	10.047	1.277	1.00	97.00	O
ATOM	360	N	THR A 48	0.698	12.234	3.955	1.00	97.00	N
ATOM	361	CA	THR A 48	-0.408	11.812	4.805	1.00	97.00	C
ATOM	362	C	THR A 48	-1.729	11.867	4.043	1.00	97.00	C
ATOM	363	CB	THR A 48	-0.505	12.680	6.074	1.00	97.00	C
ATOM	364	O	THR A 48	-2.035	12.875	3.398	1.00	97.00	O
ATOM	365	CG2	THR A 48	-1.612	12.180	6.996	1.00	97.00	C
ATOM	366	OG1	THR A 48	0.744	12.633	6.773	1.00	97.00	O
ATOM	367	N	GLU A 49	-2.443	10.758	4.027	1.00	97.38	N
ATOM	368	CA	GLU A 49	-3.729	10.680	3.340	1.00	97.38	C
ATOM	369	C	GLU A 49	-4.820	10.141	4.262	1.00	97.38	C
ATOM	370	CB	GLU A 49	-3.615	9.797	2.092	1.00	97.38	C
ATOM	371	O	GLU A 49	-4.566	9.250	5.078	1.00	97.38	O

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ATOM	372	CG	GLU A 49	-2.711	10.367	1.013	1.00	97.38	C
ATOM	373	CD	GLU A 49	-2.580	9.469	-0.203	1.00	97.38	C
ATOM	374	OE1	GLU A 49	-1.927	9.867	-1.192	1.00	97.38	O
ATOM	375	OE2	GLU A 49	-3.135	8.344	-0.167	1.00	97.38	O
ATOM	376	N	LYS A 50	-5.867	10.797	4.215	1.00	96.81	N
ATOM	377	CA	LYS A 50	-7.043	10.367	4.965	1.00	96.81	C
ATOM	378	C	LYS A 50	-8.164	9.938	4.027	1.00	96.81	C
ATOM	379	CB	LYS A 50	-7.531	11.492	5.879	1.00	96.81	C
ATOM	380	O	LYS A 50	-8.508	10.648	3.080	1.00	96.81	O
ATOM	381	CG	LYS A 50	-8.703	11.102	6.770	1.00	96.81	C
ATOM	382	CD	LYS A 50	-9.133	12.258	7.668	1.00	96.81	C
ATOM	383	CE	LYS A 50	-10.328	11.883	8.531	1.00	96.81	C
ATOM	384	NZ	LYS A 50	-10.750	13.008	9.414	1.00	96.81	N
ATOM	385	N	THR A 51	-8.727	8.719	4.254	1.00	96.94	N
ATOM	386	CA	THR A 51	-9.836	8.211	3.455	1.00	96.94	C
ATOM	387	C	THR A 51	-10.953	7.688	4.352	1.00	96.94	C
ATOM	388	CB	THR A 51	-9.375	7.098	2.498	1.00	96.94	C
ATOM	389	O	THR A 51	-10.688	7.074	5.391	1.00	96.94	O
ATOM	390	CG2	THR A 51	-10.516	6.637	1.602	1.00	96.94	C
ATOM	391	OG1	THR A 51	-8.305	7.590	1.677	1.00	96.94	O
ATOM	392	N	GLU A 52	-12.141	7.988	4.008	1.00	96.94	N
ATOM	393	CA	GLU A 52	-13.328	7.465	4.672	1.00	96.94	C
ATOM	394	C	GLU A 52	-14.070	6.473	3.779	1.00	96.94	C
ATOM	395	CB	GLU A 52	-14.266	8.602	5.086	1.00	96.94	C
ATOM	396	O	GLU A 52	-14.305	6.746	2.600	1.00	96.94	O
ATOM	397	CG	GLU A 52	-13.656	9.562	6.098	1.00	96.94	C
ATOM	398	CD	GLU A 52	-14.594	10.695	6.484	1.00	96.94	C
ATOM	399	OE1	GLU A 52	-14.211	11.539	7.332	1.00	96.94	O
ATOM	400	OE2	GLU A 52	-15.719	10.750	5.934	1.00	96.94	O
ATOM	401	N	THR A 53	-14.336	5.324	4.309	1.00	96.62	N
ATOM	402	CA	THR A 53	-15.047	4.297	3.559	1.00	96.62	C
ATOM	403	C	THR A 53	-16.000	3.531	4.465	1.00	96.62	C
ATOM	404	CB	THR A 53	-14.062	3.309	2.898	1.00	96.62	C
ATOM	405	O	THR A 53	-16.141	3.852	5.648	1.00	96.62	O
ATOM	406	CG2	THR A 53	-13.328	2.477	3.947	1.00	96.62	C
ATOM	407	OG1	THR A 53	-14.789	2.432	2.029	1.00	96.62	O
ATOM	408	N	GLU A 54	-16.766	2.664	3.895	1.00	95.56	N
ATOM	409	CA	GLU A 54	-17.719	1.832	4.621	1.00	95.56	C
ATOM	410	C	GLU A 54	-17.484	0.350	4.336	1.00	95.56	C
ATOM	411	CB	GLU A 54	-19.156	2.219	4.258	1.00	95.56	C
ATOM	412	O	GLU A 54	-17.047	-0.017	3.242	1.00	95.56	O
ATOM	413	CG	GLU A 54	-19.547	3.609	4.727	1.00	95.56	C
ATOM	414	CD	GLU A 54	-20.984	3.973	4.375	1.00	95.56	C
ATOM	415	OE1	GLU A 54	-21.578	4.852	5.047	1.00	95.56	O
ATOM	416	OE2	GLU A 54	-21.531	3.375	3.416	1.00	95.56	O
ATOM	417	N	VAL A 55	-17.594	-0.420	5.402	1.00	94.56	N
ATOM	418	CA	VAL A 55	-17.547	-1.871	5.250	1.00	94.56	C
ATOM	419	C	VAL A 55	-18.797	-2.496	5.859	1.00	94.56	C
ATOM	420	CB	VAL A 55	-16.281	-2.469	5.898	1.00	94.56	C
ATOM	421	O	VAL A 55	-19.422	-1.915	6.750	1.00	94.56	O
ATOM	422	CG1	VAL A 55	-15.031	-1.997	5.172	1.00	94.56	C
ATOM	423	CG2	VAL A 55	-16.219	-2.096	7.379	1.00	94.56	C
ATOM	424	N	THR A 56	-19.234	-3.533	5.316	1.00	92.00	N

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ATOM	425	CA	THR	A	56	-20.438	-4.219	5.770	1.00	92.00	C
ATOM	426	C	THR	A	56	-20.094	-5.570	6.387	1.00	92.00	C
ATOM	427	CB	THR	A	56	-21.438	-4.418	4.609	1.00	92.00	C
ATOM	428	O	THR	A	56	-19.266	-6.305	5.859	1.00	92.00	O
ATOM	429	CG2	THR	A	56	-22.750	-5.004	5.113	1.00	92.00	C
ATOM	430	OG1	THR	A	56	-21.703	-3.152	3.990	1.00	92.00	O
ATOM	431	N	ASP	A	57	-20.688	-5.789	7.617	1.00	91.06	N
ATOM	432	CA	ASP	A	57	-20.484	-7.102	8.227	1.00	91.06	C
ATOM	433	C	ASP	A	57	-21.375	-8.156	7.570	1.00	91.06	C
ATOM	434	CB	ASP	A	57	-20.766	-7.043	9.727	1.00	91.06	C
ATOM	435	O	ASP	A	57	-22.062	-7.871	6.590	1.00	91.06	O
ATOM	436	CG	ASP	A	57	-22.234	-6.887	10.062	1.00	91.06	C
ATOM	437	OD1	ASP	A	57	-23.078	-6.992	9.141	1.00	91.06	O
ATOM	438	OD2	ASP	A	57	-22.547	-6.648	11.242	1.00	91.06	O
ATOM	439	N	SER	A	58	-21.312	-9.391	7.988	1.00	87.00	N
ATOM	440	CA	SER	A	58	-22.016	-10.516	7.383	1.00	87.00	C
ATOM	441	C	SER	A	58	-23.531	-10.352	7.516	1.00	87.00	C
ATOM	442	CB	SER	A	58	-21.578	-11.828	8.031	1.00	87.00	C
ATOM	443	O	SER	A	58	-24.297	-10.984	6.789	1.00	87.00	O
ATOM	444	OG	SER	A	58	-21.766	-11.789	9.430	1.00	87.00	O
ATOM	445	N	ASP	A	59	-24.031	-9.438	8.328	1.00	88.56	N
ATOM	446	CA	ASP	A	59	-25.453	-9.211	8.539	1.00	88.56	C
ATOM	447	C	ASP	A	59	-25.938	-8.008	7.746	1.00	88.56	C
ATOM	448	CB	ASP	A	59	-25.750	-9.023	10.031	1.00	88.56	C
ATOM	449	O	ASP	A	59	-27.125	-7.660	7.801	1.00	88.56	O
ATOM	450	CG	ASP	A	59	-25.562	-10.289	10.844	1.00	88.56	C
ATOM	451	OD1	ASP	A	59	-25.672	-11.398	10.281	1.00	88.56	O
ATOM	452	OD2	ASP	A	59	-25.297	-10.180	12.062	1.00	88.56	O
ATOM	453	N	GLY	A	60	-25.125	-7.348	7.117	1.00	89.62	N
ATOM	454	CA	GLY	A	60	-25.531	-6.234	6.277	1.00	89.62	C
ATOM	455	C	GLY	A	60	-25.406	-4.891	6.965	1.00	89.62	C
ATOM	456	O	GLY	A	60	-25.781	-3.859	6.406	1.00	89.62	O
ATOM	457	N	THR	A	61	-24.875	-4.961	8.227	1.00	91.81	N
ATOM	458	CA	THR	A	61	-24.672	-3.705	8.938	1.00	91.81	C
ATOM	459	C	THR	A	61	-23.469	-2.959	8.383	1.00	91.81	C
ATOM	460	CB	THR	A	61	-24.484	-3.939	10.445	1.00	91.81	C
ATOM	461	O	THR	A	61	-22.391	-3.537	8.234	1.00	91.81	O
ATOM	462	CG2	THR	A	61	-24.359	-2.619	11.195	1.00	91.81	C
ATOM	463	OG1	THR	A	61	-25.625	-4.652	10.953	1.00	91.81	O
ATOM	464	N	LYS	A	62	-23.625	-1.729	8.062	1.00	94.31	N
ATOM	465	CA	LYS	A	62	-22.578	-0.896	7.496	1.00	94.31	C
ATOM	466	C	LYS	A	62	-21.781	-0.196	8.594	1.00	94.31	C
ATOM	467	CB	LYS	A	62	-23.156	0.137	6.531	1.00	94.31	C
ATOM	468	O	LYS	A	62	-22.359	0.388	9.508	1.00	94.31	O
ATOM	469	CG	LYS	A	62	-23.781	-0.465	5.281	1.00	94.31	C
ATOM	470	CD	LYS	A	62	-24.266	0.614	4.324	1.00	94.31	C
ATOM	471	CE	LYS	A	62	-24.891	0.013	3.070	1.00	94.31	C
ATOM	472	NZ	LYS	A	62	-25.344	1.067	2.117	1.00	94.31	N
ATOM	473	N	TYR	A	63	-20.438	-0.260	8.531	1.00	93.88	N
ATOM	474	CA	TYR	A	63	-19.531	0.390	9.477	1.00	93.88	C
ATOM	475	C	TYR	A	63	-18.719	1.479	8.781	1.00	93.88	C
ATOM	476	CB	TYR	A	63	-18.594	-0.637	10.109	1.00	93.88	C
ATOM	477	O	TYR	A	63	-18.234	1.285	7.664	1.00	93.88	O

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ATOM	478	CG	TYR	A	63	-19.297	-1.653	10.977	1.00	93.88	C
ATOM	479	CD1	TYR	A	63	-19.328	-1.522	12.359	1.00	93.88	C
ATOM	480	CD2	TYR	A	63	-19.953	-2.746	10.406	1.00	93.88	C
ATOM	481	CE1	TYR	A	63	-19.969	-2.457	13.164	1.00	93.88	C
ATOM	482	CE2	TYR	A	63	-20.594	-3.688	11.195	1.00	93.88	C
ATOM	483	OH	TYR	A	63	-21.250	-4.465	13.359	1.00	93.88	O
ATOM	484	CZ	TYR	A	63	-20.609	-3.535	12.570	1.00	93.88	C
ATOM	485	N	LYS	A	64	-18.719	2.613	9.430	1.00	96.06	N
ATOM	486	CA	LYS	A	64	-17.844	3.666	8.930	1.00	96.06	C
ATOM	487	C	LYS	A	64	-16.391	3.383	9.289	1.00	96.06	C
ATOM	488	CB	LYS	A	64	-18.266	5.027	9.492	1.00	96.06	C
ATOM	489	O	LYS	A	64	-16.094	3.000	10.422	1.00	96.06	O
ATOM	490	CG	LYS	A	64	-17.516	6.203	8.883	1.00	96.06	C
ATOM	491	CD	LYS	A	64	-18.000	7.531	9.453	1.00	96.06	C
ATOM	492	CE	LYS	A	64	-17.203	8.703	8.898	1.00	96.06	C
ATOM	493	NZ	LYS	A	64	-17.656	10.000	9.469	1.00	96.06	N
ATOM	494	N	VAL	A	65	-15.484	3.529	8.242	1.00	96.62	N
ATOM	495	CA	VAL	A	65	-14.055	3.303	8.461	1.00	96.62	C
ATOM	496	C	VAL	A	65	-13.273	4.547	8.047	1.00	96.62	C
ATOM	497	CB	VAL	A	65	-13.555	2.072	7.668	1.00	96.62	C
ATOM	498	O	VAL	A	65	-13.469	5.086	6.957	1.00	96.62	O
ATOM	499	CG1	VAL	A	65	-12.062	1.850	7.914	1.00	96.62	C
ATOM	500	CG2	VAL	A	65	-14.352	0.830	8.055	1.00	96.62	C
ATOM	501	N	THR	A	66	-12.531	5.043	8.938	1.00	97.12	N
ATOM	502	CA	THR	A	66	-11.570	6.102	8.641	1.00	97.12	C
ATOM	503	C	THR	A	66	-10.148	5.547	8.609	1.00	97.12	C
ATOM	504	CB	THR	A	66	-11.656	7.246	9.664	1.00	97.12	C
ATOM	505	O	THR	A	66	-9.703	4.914	9.570	1.00	97.12	O
ATOM	506	CG2	THR	A	66	-10.711	8.383	9.297	1.00	97.12	C
ATOM	507	OG1	THR	A	66	-13.000	7.750	9.695	1.00	97.12	O
ATOM	508	N	ILE	A	67	-9.406	5.777	7.492	1.00	97.56	N
ATOM	509	CA	ILE	A	67	-8.039	5.293	7.301	1.00	97.56	C
ATOM	510	C	ILE	A	67	-7.086	6.480	7.164	1.00	97.56	C
ATOM	511	CB	ILE	A	67	-7.934	4.375	6.066	1.00	97.56	C
ATOM	512	O	ILE	A	67	-7.270	7.332	6.293	1.00	97.56	O
ATOM	513	CG1	ILE	A	67	-8.992	3.268	6.129	1.00	97.56	C
ATOM	514	CG2	ILE	A	67	-6.527	3.779	5.953	1.00	97.56	C
ATOM	515	CD1	ILE	A	67	-9.211	2.539	4.812	1.00	97.56	C
ATOM	516	N	ASN	A	68	-6.199	6.551	8.016	1.00	97.75	N
ATOM	517	CA	ASN	A	68	-5.113	7.520	7.930	1.00	97.75	C
ATOM	518	C	ASN	A	68	-3.787	6.840	7.590	1.00	97.75	C
ATOM	519	CB	ASN	A	68	-4.988	8.305	9.234	1.00	97.75	C
ATOM	520	O	ASN	A	68	-3.285	6.027	8.367	1.00	97.75	O
ATOM	521	CG	ASN	A	68	-6.215	9.148	9.523	1.00	97.75	C
ATOM	522	ND2	ASN	A	68	-6.895	8.844	10.625	1.00	97.75	N
ATOM	523	OD1	ASN	A	68	-6.551	10.062	8.766	1.00	97.75	O
ATOM	524	N	VAL	A	69	-3.250	7.199	6.410	1.00	97.75	N
ATOM	525	CA	VAL	A	69	-2.023	6.559	5.945	1.00	97.75	C
ATOM	526	C	VAL	A	69	-0.885	7.574	5.930	1.00	97.75	C
ATOM	527	CB	VAL	A	69	-2.203	5.934	4.543	1.00	97.75	C
ATOM	528	O	VAL	A	69	-0.990	8.625	5.289	1.00	97.75	O
ATOM	529	CG1	VAL	A	69	-0.916	5.254	4.086	1.00	97.75	C
ATOM	530	CG2	VAL	A	69	-3.365	4.941	4.547	1.00	97.75	C

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ATOM	531	N	LYS A 70	0.058	7.344	6.699	1.00	97.88	N
ATOM	532	CA	LYS A 70	1.312	8.086	6.633	1.00	97.88	C
ATOM	533	C	LYS A 70	2.408	7.266	5.965	1.00	97.88	C
ATOM	534	CB	LYS A 70	1.756	8.516	8.031	1.00	97.88	C
ATOM	535	O	LYS A 70	2.697	6.145	6.391	1.00	97.88	O
ATOM	536	CG	LYS A 70	2.943	9.469	8.039	1.00	97.88	C
ATOM	537	CD	LYS A 70	3.305	9.898	9.461	1.00	97.88	C
ATOM	538	CE	LYS A 70	4.504	10.836	9.469	1.00	97.88	C
ATOM	539	NZ	LYS A 70	4.871	11.250	10.859	1.00	97.88	N
ATOM	540	N	THR A 71	2.971	7.855	4.871	1.00	97.81	N
ATOM	541	CA	THR A 71	4.020	7.172	4.121	1.00	97.81	C
ATOM	542	C	THR A 71	5.293	8.008	4.090	1.00	97.81	C
ATOM	543	CB	THR A 71	3.566	6.863	2.682	1.00	97.81	C
ATOM	544	O	THR A 71	5.250	9.203	3.805	1.00	97.81	O
ATOM	545	CG2	THR A 71	4.609	6.031	1.944	1.00	97.81	C
ATOM	546	OG1	THR A 71	2.332	6.137	2.721	1.00	97.81	O
ATOM	547	N	LYS A 72	6.363	7.391	4.473	1.00	97.88	N
ATOM	548	CA	LYS A 72	7.699	7.953	4.297	1.00	97.88	C
ATOM	549	C	LYS A 72	8.531	7.105	3.340	1.00	97.88	C
ATOM	550	CB	LYS A 72	8.414	8.070	5.648	1.00	97.88	C
ATOM	551	O	LYS A 72	8.625	5.887	3.500	1.00	97.88	O
ATOM	552	CG	LYS A 72	7.758	9.055	6.609	1.00	97.88	C
ATOM	553	CD	LYS A 72	8.539	9.164	7.910	1.00	97.88	C
ATOM	554	CE	LYS A 72	7.848	10.094	8.898	1.00	97.88	C
ATOM	555	NZ	LYS A 72	8.609	10.195	10.188	1.00	97.88	N
ATOM	556	N	SER A 73	9.039	7.758	2.273	1.00	97.94	N
ATOM	557	CA	SER A 73	9.859	7.020	1.319	1.00	97.94	C
ATOM	558	C	SER A 73	11.172	7.742	1.038	1.00	97.94	C
ATOM	559	CB	SER A 73	9.094	6.801	0.012	1.00	97.94	C
ATOM	560	O	SER A 73	11.242	8.969	1.114	1.00	97.94	O
ATOM	561	OG	SER A 73	8.859	8.039	-0.643	1.00	97.94	O
ATOM	562	N	LYS A 74	12.148	6.977	0.854	1.00	97.62	N
ATOM	563	CA	LYS A 74	13.461	7.449	0.429	1.00	97.62	C
ATOM	564	C	LYS A 74	13.984	6.637	-0.754	1.00	97.62	C
ATOM	565	CB	LYS A 74	14.453	7.379	1.589	1.00	97.62	C
ATOM	566	O	LYS A 74	14.070	5.410	-0.683	1.00	97.62	O
ATOM	567	CG	LYS A 74	15.820	7.980	1.272	1.00	97.62	C
ATOM	568	CD	LYS A 74	16.766	7.895	2.467	1.00	97.62	C
ATOM	569	CE	LYS A 74	18.125	8.477	2.146	1.00	97.62	C
ATOM	570	NZ	LYS A 74	19.047	8.398	3.316	1.00	97.62	N
ATOM	571	N	ALA A 75	14.266	7.312	-1.839	1.00	97.50	N
ATOM	572	CA	ALA A 75	14.812	6.676	-3.037	1.00	97.50	C
ATOM	573	C	ALA A 75	16.156	7.270	-3.412	1.00	97.50	C
ATOM	574	CB	ALA A 75	13.828	6.812	-4.199	1.00	97.50	C
ATOM	575	O	ALA A 75	16.359	8.484	-3.346	1.00	97.50	O
ATOM	576	N	GLU A 76	17.062	6.438	-3.762	1.00	96.62	N
ATOM	577	CA	GLU A 76	18.375	6.867	-4.215	1.00	96.62	C
ATOM	578	C	GLU A 76	18.969	5.879	-5.219	1.00	96.62	C
ATOM	579	CB	GLU A 76	19.328	7.039	-3.027	1.00	96.62	C
ATOM	580	O	GLU A 76	18.625	4.691	-5.199	1.00	96.62	O
ATOM	581	CG	GLU A 76	19.625	5.746	-2.283	1.00	96.62	C
ATOM	582	CD	GLU A 76	20.562	5.930	-1.107	1.00	96.62	C
ATOM	583	OE1	GLU A 76	20.578	5.078	-0.193	1.00	96.62	O

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ATOM	584	OE2 GLU A 76	21.312	6.941	-1.101	1.00	96.62	O
ATOM	585	N LEU A 77	19.703	6.414	-6.180	1.00	93.62	N
ATOM	586	CA LEU A 77	20.469	5.590	-7.105	1.00	93.62	C
ATOM	587	C LEU A 77	21.891	5.379	-6.598	1.00	93.62	C
ATOM	588	CB LEU A 77	20.500	6.230	-8.500	1.00	93.62	C
ATOM	589	O LEU A 77	22.641	6.344	-6.430	1.00	93.62	O
ATOM	590	CG LEU A 77	19.250	6.039	-9.359	1.00	93.62	C
ATOM	591	CD1 LEU A 77	19.312	6.922	-10.602	1.00	93.62	C
ATOM	592	CD2 LEU A 77	19.094	4.574	-9.750	1.00	93.62	C
ATOM	593	N LYS A 78	22.203	4.141	-6.098	1.00	89.50	N
ATOM	594	CA LYS A 78	23.531	3.768	-5.641	1.00	89.50	C
ATOM	595	C LYS A 78	24.094	2.619	-6.473	1.00	89.50	C
ATOM	596	CB LYS A 78	23.500	3.377	-4.164	1.00	89.50	C
ATOM	597	O LYS A 78	23.453	1.581	-6.629	1.00	89.50	O
ATOM	598	CG LYS A 78	24.875	3.221	-3.535	1.00	89.50	C
ATOM	599	CD LYS A 78	24.781	2.916	-2.047	1.00	89.50	C
ATOM	600	CE LYS A 78	26.156	2.727	-1.425	1.00	89.50	C
ATOM	601	NZ LYS A 78	26.078	2.438	0.038	1.00	89.50	N
ATOM	602	N ASP A 79	25.250	2.854	-7.051	1.00	88.00	N
ATOM	603	CA ASP A 79	25.969	1.782	-7.734	1.00	88.00	C
ATOM	604	C ASP A 79	25.109	1.171	-8.844	1.00	88.00	C
ATOM	605	CB ASP A 79	26.391	0.700	-6.738	1.00	88.00	C
ATOM	606	O ASP A 79	25.047	-0.052	-8.984	1.00	88.00	O
ATOM	607	CG ASP A 79	27.344	1.213	-5.676	1.00	88.00	C
ATOM	608	OD1 ASP A 79	28.156	2.113	-5.973	1.00	88.00	O
ATOM	609	OD2 ASP A 79	27.281	0.709	-4.531	1.00	88.00	O
ATOM	610	N GLY A 80	24.359	1.996	-9.562	1.00	88.81	N
ATOM	611	CA GLY A 80	23.594	1.530	-10.711	1.00	88.81	C
ATOM	612	C GLY A 80	22.281	0.878	-10.328	1.00	88.81	C
ATOM	613	O GLY A 80	21.703	0.133	-11.117	1.00	88.81	O
ATOM	614	N LYS A 81	21.891	1.087	-9.094	1.00	93.19	N
ATOM	615	CA LYS A 81	20.641	0.499	-8.617	1.00	93.19	C
ATOM	616	C LYS A 81	19.797	1.533	-7.883	1.00	93.19	C
ATOM	617	CB LYS A 81	20.922	-0.691	-7.699	1.00	93.19	C
ATOM	618	O LYS A 81	20.328	2.379	-7.156	1.00	93.19	O
ATOM	619	CG LYS A 81	21.734	-1.802	-8.359	1.00	93.19	C
ATOM	620	CD LYS A 81	22.016	-2.934	-7.383	1.00	93.19	C
ATOM	621	CE LYS A 81	22.891	-4.016	-8.023	1.00	93.19	C
ATOM	622	NZ LYS A 81	23.188	-5.121	-7.066	1.00	93.19	N
ATOM	623	N LEU A 82	18.531	1.474	-8.219	1.00	96.31	N
ATOM	624	CA LEU A 82	17.578	2.203	-7.383	1.00	96.31	C
ATOM	625	C LEU A 82	17.328	1.461	-6.074	1.00	96.31	C
ATOM	626	CB LEU A 82	16.266	2.414	-8.125	1.00	96.31	C
ATOM	627	O LEU A 82	17.062	0.255	-6.078	1.00	96.31	O
ATOM	628	CG LEU A 82	15.125	3.055	-7.328	1.00	96.31	C
ATOM	629	CD1 LEU A 82	15.211	4.574	-7.414	1.00	96.31	C
ATOM	630	CD2 LEU A 82	13.773	2.561	-7.824	1.00	96.31	C
ATOM	631	N VAL A 83	17.547	2.127	-4.926	1.00	97.00	N
ATOM	632	CA VAL A 83	17.156	1.629	-3.611	1.00	97.00	C
ATOM	633	C VAL A 83	15.977	2.443	-3.080	1.00	97.00	C
ATOM	634	CB VAL A 83	18.328	1.678	-2.611	1.00	97.00	C
ATOM	635	O VAL A 83	16.109	3.643	-2.820	1.00	97.00	O
ATOM	636	CG1 VAL A 83	17.922	1.091	-1.263	1.00	97.00	C

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ATOM	637	CG2 VAL A 83	19.547	0.933	-3.174	1.00	97.00	C
ATOM	638	N LEU A 84	14.789	1.857	-3.004	1.00	98.19	N
ATOM	639	CA LEU A 84	13.562	2.475	-2.508	1.00	98.19	C
ATOM	640	C LEU A 84	13.203	1.929	-1.131	1.00	98.19	C
ATOM	641	CB LEU A 84	12.414	2.236	-3.484	1.00	98.19	C
ATOM	642	O LEU A 84	12.914	0.738	-0.985	1.00	98.19	O
ATOM	643	CG LEU A 84	11.039	2.766	-3.057	1.00	98.19	C
ATOM	644	CD1 LEU A 84	11.102	4.273	-2.842	1.00	98.19	C
ATOM	645	CD2 LEU A 84	9.984	2.408	-4.094	1.00	98.19	C
ATOM	646	N ASN A 85	13.297	2.797	-0.123	1.00	98.00	N
ATOM	647	CA ASN A 85	12.906	2.488	1.247	1.00	98.00	C
ATOM	648	C ASN A 85	11.570	3.133	1.604	1.00	98.00	C
ATOM	649	CB ASN A 85	13.984	2.930	2.232	1.00	98.00	C
ATOM	650	O ASN A 85	11.406	4.348	1.482	1.00	98.00	O
ATOM	651	CG ASN A 85	15.297	2.197	2.025	1.00	98.00	C
ATOM	652	ND2 ASN A 85	16.312	2.912	1.543	1.00	98.00	N
ATOM	653	OD1 ASN A 85	15.406	0.998	2.297	1.00	98.00	O
ATOM	654	N VAL A 86	10.625	2.303	2.053	1.00	98.06	N
ATOM	655	CA VAL A 86	9.281	2.797	2.320	1.00	98.06	C
ATOM	656	C VAL A 86	8.875	2.438	3.746	1.00	98.06	C
ATOM	657	CB VAL A 86	8.258	2.230	1.312	1.00	98.06	C
ATOM	658	O VAL A 86	9.086	1.310	4.195	1.00	98.06	O
ATOM	659	CG1 VAL A 86	6.836	2.629	1.704	1.00	98.06	C
ATOM	660	CG2 VAL A 86	8.578	2.709	-0.103	1.00	98.06	C
ATOM	661	N GLU A 87	8.445	3.426	4.527	1.00	97.81	N
ATOM	662	CA GLU A 87	7.789	3.254	5.816	1.00	97.81	C
ATOM	663	C GLU A 87	6.328	3.695	5.754	1.00	97.81	C
ATOM	664	CB GLU A 87	8.523	4.035	6.906	1.00	97.81	C
ATOM	665	O GLU A 87	6.031	4.832	5.383	1.00	97.81	O
ATOM	666	CG GLU A 87	7.945	3.848	8.297	1.00	97.81	C
ATOM	667	CD GLU A 87	8.680	4.637	9.367	1.00	97.81	C
ATOM	668	OE1 GLU A 87	8.219	4.660	10.531	1.00	97.81	O
ATOM	669	OE2 GLU A 87	9.727	5.242	9.039	1.00	97.81	O
ATOM	670	N VAL A 88	5.391	2.771	6.086	1.00	97.88	N
ATOM	671	CA VAL A 88	3.963	3.070	6.039	1.00	97.88	C
ATOM	672	C VAL A 88	3.350	2.877	7.422	1.00	97.88	C
ATOM	673	CB VAL A 88	3.232	2.189	5.000	1.00	97.88	C
ATOM	674	O VAL A 88	3.576	1.854	8.070	1.00	97.88	O
ATOM	675	CG1 VAL A 88	1.734	2.490	4.996	1.00	97.88	C
ATOM	676	CG2 VAL A 88	3.826	2.396	3.609	1.00	97.88	C
ATOM	677	N THR A 89	2.717	3.846	7.930	1.00	97.44	N
ATOM	678	CA THR A 89	1.894	3.762	9.133	1.00	97.44	C
ATOM	679	C THR A 89	0.420	3.971	8.797	1.00	97.44	C
ATOM	680	CB THR A 89	2.334	4.797	10.188	1.00	97.44	C
ATOM	681	O THR A 89	0.049	4.996	8.219	1.00	97.44	O
ATOM	682	CG2 THR A 89	1.503	4.676	11.461	1.00	97.44	C
ATOM	683	OG1 THR A 89	3.715	4.582	10.508	1.00	97.44	O
ATOM	684	N VAL A 90	-0.417	2.951	9.109	1.00	97.50	N
ATOM	685	CA VAL A 90	-1.850	3.010	8.844	1.00	97.50	C
ATOM	686	C VAL A 90	-2.621	3.029	10.164	1.00	97.50	C
ATOM	687	CB VAL A 90	-2.312	1.820	7.973	1.00	97.50	C
ATOM	688	O VAL A 90	-2.451	2.141	11.000	1.00	97.50	O
ATOM	689	CG1 VAL A 90	-3.812	1.909	7.691	1.00	97.50	C

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ATOM	690	CG2 VAL A 90	-1.522	1.777	6.668	1.00	97.50	C
ATOM	691	N ASN A 91	-3.361	4.066	10.359	1.00	97.50	N
ATOM	692	CA ASN A 91	-4.297	4.156	11.477	1.00	97.50	C
ATOM	693	C ASN A 91	-5.742	4.027	11.008	1.00	97.50	C
ATOM	694	CB ASN A 91	-4.098	5.465	12.234	1.00	97.50	C
ATOM	695	O ASN A 91	-6.211	4.828	10.195	1.00	97.50	O
ATOM	696	CG ASN A 91	-2.740	5.555	12.906	1.00	97.50	C
ATOM	697	ND2 ASN A 91	-1.899	6.461	12.422	1.00	97.50	N
ATOM	698	OD1 ASN A 91	-2.449	4.816	13.852	1.00	97.50	O
ATOM	699	N ILE A 92	-6.375	3.012	11.539	1.00	97.25	N
ATOM	700	CA ILE A 92	-7.738	2.703	11.117	1.00	97.25	C
ATOM	701	C ILE A 92	-8.688	2.859	12.305	1.00	97.25	C
ATOM	702	CB ILE A 92	-7.840	1.277	10.531	1.00	97.25	C
ATOM	703	O ILE A 92	-8.406	2.387	13.406	1.00	97.25	O
ATOM	704	CG1 ILE A 92	-6.805	1.082	9.414	1.00	97.25	C
ATOM	705	CG2 ILE A 92	-9.258	1.005	10.023	1.00	97.25	C
ATOM	706	CD1 ILE A 92	-6.539	-0.376	9.070	1.00	97.25	C
ATOM	707	N THR A 93	-9.734	3.621	12.055	1.00	95.88	N
ATOM	708	CA THR A 93	-10.805	3.738	13.047	1.00	95.88	C
ATOM	709	C THR A 93	-12.102	3.148	12.500	1.00	95.88	C
ATOM	710	CB THR A 93	-11.031	5.207	13.445	1.00	95.88	C
ATOM	711	O THR A 93	-12.617	3.602	11.477	1.00	95.88	O
ATOM	712	CG2 THR A 93	-12.109	5.320	14.523	1.00	95.88	C
ATOM	713	OG1 THR A 93	-9.805	5.754	13.953	1.00	95.88	O
ATOM	714	N LEU A 94	-12.547	2.076	13.148	1.00	95.69	N
ATOM	715	CA LEU A 94	-13.844	1.468	12.867	1.00	95.69	C
ATOM	716	C LEU A 94	-14.891	1.949	13.867	1.00	95.69	C
ATOM	717	CB LEU A 94	-13.742	-0.059	12.914	1.00	95.69	C
ATOM	718	O LEU A 94	-14.688	1.861	15.078	1.00	95.69	O
ATOM	719	CG LEU A 94	-14.984	-0.835	12.484	1.00	95.69	C
ATOM	720	CD1 LEU A 94	-15.156	-0.767	10.969	1.00	95.69	C
ATOM	721	CD2 LEU A 94	-14.898	-2.283	12.953	1.00	95.69	C
ATOM	722	N THR A 95	-16.016	2.514	13.375	1.00	94.19	N
ATOM	723	CA THR A 95	-17.062	3.059	14.227	1.00	94.19	C
ATOM	724	C THR A 95	-18.328	2.223	14.109	1.00	94.19	C
ATOM	725	CB THR A 95	-17.375	4.523	13.859	1.00	94.19	C
ATOM	726	O THR A 95	-18.828	1.983	13.008	1.00	94.19	O
ATOM	727	CG2 THR A 95	-18.406	5.117	14.812	1.00	94.19	C
ATOM	728	OG1 THR A 95	-16.172	5.293	13.938	1.00	94.19	O
ATOM	729	N ASP A 96	-18.766	1.776	15.273	1.00	91.75	N
ATOM	730	CA ASP A 96	-20.047	1.079	15.359	1.00	91.75	C
ATOM	731	C ASP A 96	-21.219	2.041	15.141	1.00	91.75	C
ATOM	732	CB ASP A 96	-20.188	0.385	16.719	1.00	91.75	C
ATOM	733	O ASP A 96	-21.359	3.020	15.875	1.00	91.75	O
ATOM	734	CG ASP A 96	-21.406	-0.513	16.797	1.00	91.75	C
ATOM	735	OD1 ASP A 96	-22.453	-0.172	16.219	1.00	91.75	O
ATOM	736	OD2 ASP A 96	-21.328	-1.570	17.469	1.00	91.75	O
ATOM	737	N PRO A 97	-22.047	1.764	14.172	1.00	92.19	N
ATOM	738	CA PRO A 97	-23.125	2.695	13.828	1.00	92.19	C
ATOM	739	C PRO A 97	-24.203	2.756	14.898	1.00	92.19	C
ATOM	740	CB PRO A 97	-23.672	2.127	12.523	1.00	92.19	C
ATOM	741	O PRO A 97	-24.922	3.760	15.008	1.00	92.19	O
ATOM	742	CG PRO A 97	-23.297	0.683	12.539	1.00	92.19	C

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ATOM	743	CD	PRO	A	97	-21.969	0.551	13.227	1.00	92.19	C
ATOM	744	N	GLU	A	98	-24.344	1.644	15.633	1.00	90.06	N
ATOM	745	CA	GLU	A	98	-25.422	1.554	16.609	1.00	90.06	C
ATOM	746	C	GLU	A	98	-25.062	2.256	17.906	1.00	90.06	C
ATOM	747	CB	GLU	A	98	-25.781	0.090	16.875	1.00	90.06	C
ATOM	748	O	GLU	A	98	-25.875	2.986	18.469	1.00	90.06	O
ATOM	749	CG	GLU	A	98	-26.391	-0.629	15.680	1.00	90.06	C
ATOM	750	CD	GLU	A	98	-26.781	-2.068	15.977	1.00	90.06	C
ATOM	751	OE1	GLU	A	98	-27.375	-2.730	15.102	1.00	90.06	O
ATOM	752	OE2	GLU	A	98	-26.469	-2.541	17.094	1.00	90.06	O
ATOM	753	N	THR	A	99	-23.797	2.078	18.328	1.00	91.56	N
ATOM	754	CA	THR	A	99	-23.406	2.559	19.656	1.00	91.56	C
ATOM	755	C	THR	A	99	-22.500	3.779	19.531	1.00	91.56	C
ATOM	756	CB	THR	A	99	-22.688	1.457	20.453	1.00	91.56	C
ATOM	757	O	THR	A	99	-22.328	4.531	20.500	1.00	91.56	O
ATOM	758	CG2	THR	A	99	-23.562	0.205	20.562	1.00	91.56	C
ATOM	759	OG1	THR	A	99	-21.469	1.120	19.797	1.00	91.56	O
ATOM	760	N	GLY	A	100	-21.922	3.998	18.328	1.00	91.12	N
ATOM	761	CA	GLY	A	100	-20.922	5.035	18.156	1.00	91.12	C
ATOM	762	C	GLY	A	100	-19.562	4.645	18.703	1.00	91.12	C
ATOM	763	O	GLY	A	100	-18.625	5.441	18.672	1.00	91.12	O
ATOM	764	N	GLU	A	101	-19.391	3.428	19.188	1.00	92.38	N
ATOM	765	CA	GLU	A	101	-18.125	2.920	19.703	1.00	92.38	C
ATOM	766	C	GLU	A	101	-17.062	2.844	18.609	1.00	92.38	C
ATOM	767	CB	GLU	A	101	-18.312	1.544	20.344	1.00	92.38	C
ATOM	768	O	GLU	A	101	-17.359	2.449	17.469	1.00	92.38	O
ATOM	769	CG	GLU	A	101	-17.109	1.047	21.109	1.00	92.38	C
ATOM	770	CD	GLU	A	101	-17.281	-0.349	21.688	1.00	92.38	C
ATOM	771	OE1	GLU	A	101	-16.312	-0.915	22.234	1.00	92.38	O
ATOM	772	OE2	GLU	A	101	-18.422	-0.883	21.594	1.00	92.38	O
ATOM	773	N	LYS	A	102	-15.875	3.258	19.000	1.00	94.19	N
ATOM	774	CA	LYS	A	102	-14.773	3.279	18.031	1.00	94.19	C
ATOM	775	C	LYS	A	102	-13.719	2.234	18.375	1.00	94.19	C
ATOM	776	CB	LYS	A	102	-14.141	4.668	17.984	1.00	94.19	C
ATOM	777	O	LYS	A	102	-13.438	1.993	19.562	1.00	94.19	O
ATOM	778	CG	LYS	A	102	-15.094	5.770	17.547	1.00	94.19	C
ATOM	779	CD	LYS	A	102	-14.391	7.125	17.484	1.00	94.19	C
ATOM	780	CE	LYS	A	102	-15.344	8.227	17.016	1.00	94.19	C
ATOM	781	NZ	LYS	A	102	-14.664	9.555	16.969	1.00	94.19	N
ATOM	782	N	LYS	A	103	-13.227	1.537	17.406	1.00	94.06	N
ATOM	783	CA	LYS	A	103	-12.086	0.632	17.531	1.00	94.06	C
ATOM	784	C	LYS	A	103	-10.930	1.077	16.641	1.00	94.06	C
ATOM	785	CB	LYS	A	103	-12.500	-0.799	17.188	1.00	94.06	C
ATOM	786	O	LYS	A	103	-11.062	1.131	15.422	1.00	94.06	O
ATOM	787	CG	LYS	A	103	-11.391	-1.825	17.375	1.00	94.06	C
ATOM	788	CD	LYS	A	103	-11.102	-2.059	18.859	1.00	94.06	C
ATOM	789	CE	LYS	A	103	-10.141	-3.221	19.062	1.00	94.06	C
ATOM	790	NZ	LYS	A	103	-9.844	-3.443	20.516	1.00	94.06	N
ATOM	791	N	GLU	A	104	-9.836	1.349	17.312	1.00	95.81	N
ATOM	792	CA	GLU	A	104	-8.656	1.832	16.594	1.00	95.81	C
ATOM	793	C	GLU	A	104	-7.652	0.705	16.359	1.00	95.81	C
ATOM	794	CB	GLU	A	104	-7.988	2.973	17.375	1.00	95.81	C
ATOM	795	O	GLU	A	104	-7.445	-0.141	17.234	1.00	95.81	O

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ATOM	796	CG	GLU A 104	-8.859	4.219	17.500	1.00	95.81	C
ATOM	797	CD	GLU A 104	-8.148	5.379	18.172	1.00	95.81	C
ATOM	798	OE1	GLU A 104	-8.711	6.496	18.219	1.00	95.81	O
ATOM	799	OE2	GLU A 104	-7.016	5.168	18.672	1.00	95.81	O
ATOM	800	N	THR A 105	-7.074	0.682	15.133	1.00	95.19	N
ATOM	801	CA	THR A 105	-6.039	-0.272	14.758	1.00	95.19	C
ATOM	802	C	THR A 105	-4.895	0.432	14.031	1.00	95.19	C
ATOM	803	CB	THR A 105	-6.602	-1.390	13.867	1.00	95.19	C
ATOM	804	O	THR A 105	-5.125	1.234	13.125	1.00	95.19	O
ATOM	805	CG2	THR A 105	-5.551	-2.457	13.586	1.00	95.19	C
ATOM	806	OG1	THR A 105	-7.723	-1.999	14.523	1.00	95.19	O
ATOM	807	N	THR A 106	-3.715	0.202	14.578	1.00	95.69	N
ATOM	808	CA	THR A 106	-2.533	0.767	13.938	1.00	95.69	C
ATOM	809	C	THR A 106	-1.673	-0.333	13.328	1.00	95.69	C
ATOM	810	CB	THR A 106	-1.690	1.581	14.938	1.00	95.69	C
ATOM	811	O	THR A 106	-1.400	-1.349	13.969	1.00	95.69	O
ATOM	812	CG2	THR A 106	-0.455	2.170	14.266	1.00	95.69	C
ATOM	813	OG1	THR A 106	-2.488	2.646	15.469	1.00	95.69	O
ATOM	814	N	LEU A 107	-1.272	-0.199	12.039	1.00	96.38	N
ATOM	815	CA	LEU A 107	-0.385	-1.109	11.320	1.00	96.38	C
ATOM	816	C	LEU A 107	0.839	-0.371	10.789	1.00	96.38	C
ATOM	817	CB	LEU A 107	-1.129	-1.785	10.164	1.00	96.38	C
ATOM	818	O	LEU A 107	0.711	0.691	10.180	1.00	96.38	O
ATOM	819	CG	LEU A 107	-2.439	-2.488	10.523	1.00	96.38	C
ATOM	820	CD1	LEU A 107	-3.219	-2.828	9.258	1.00	96.38	C
ATOM	821	CD2	LEU A 107	-2.168	-3.744	11.344	1.00	96.38	C
ATOM	822	N	ASN A 108	2.008	-0.905	11.109	1.00	96.19	N
ATOM	823	CA	ASN A 108	3.264	-0.359	10.609	1.00	96.19	C
ATOM	824	C	ASN A 108	3.996	-1.361	9.719	1.00	96.19	C
ATOM	825	CB	ASN A 108	4.160	0.077	11.773	1.00	96.19	C
ATOM	826	O	ASN A 108	4.090	-2.543	10.062	1.00	96.19	O
ATOM	827	CG	ASN A 108	3.518	1.141	12.641	1.00	96.19	C
ATOM	828	ND2	ASN A 108	3.270	0.807	13.898	1.00	96.19	N
ATOM	829	OD1	ASN A 108	3.244	2.252	12.180	1.00	96.19	O
ATOM	830	N	LYS A 109	4.414	-0.839	8.578	1.00	97.12	N
ATOM	831	CA	LYS A 109	5.195	-1.699	7.691	1.00	97.12	C
ATOM	832	C	LYS A 109	6.324	-0.921	7.023	1.00	97.12	C
ATOM	833	CB	LYS A 109	4.293	-2.326	6.625	1.00	97.12	C
ATOM	834	O	LYS A 109	6.133	0.216	6.590	1.00	97.12	O
ATOM	835	CG	LYS A 109	4.988	-3.371	5.766	1.00	97.12	C
ATOM	836	CD	LYS A 109	5.332	-4.617	6.566	1.00	97.12	C
ATOM	837	CE	LYS A 109	5.875	-5.727	5.676	1.00	97.12	C
ATOM	838	NZ	LYS A 109	6.219	-6.949	6.461	1.00	97.12	N
ATOM	839	N	THR A 110	7.527	-1.554	7.102	1.00	97.38	N
ATOM	840	CA	THR A 110	8.688	-1.040	6.387	1.00	97.38	C
ATOM	841	C	THR A 110	9.156	-2.033	5.328	1.00	97.38	C
ATOM	842	CB	THR A 110	9.852	-0.734	7.352	1.00	97.38	C
ATOM	843	O	THR A 110	9.211	-3.238	5.578	1.00	97.38	O
ATOM	844	CG2	THR A 110	11.070	-0.210	6.602	1.00	97.38	C
ATOM	845	OG1	THR A 110	9.430	0.254	8.305	1.00	97.38	O
ATOM	846	N	GLU A 111	9.461	-1.485	4.145	1.00	98.12	N
ATOM	847	CA	GLU A 111	9.922	-2.322	3.041	1.00	98.12	C
ATOM	848	C	GLU A 111	11.031	-1.631	2.248	1.00	98.12	C

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ATOM	849	CB	GLU A 111	8.758	-2.686	2.117	1.00	98.12	C
ATOM	850	O	GLU A 111	11.094	-0.401	2.201	1.00	98.12	O
ATOM	851	CG	GLU A 111	7.699	-3.557	2.775	1.00	98.12	C
ATOM	852	CD	GLU A 111	8.203	-4.941	3.145	1.00	98.12	C
ATOM	853	OE1	GLU A 111	7.680	-5.543	4.109	1.00	98.12	O
ATOM	854	OE2	GLU A 111	9.133	-5.430	2.465	1.00	98.12	O
ATOM	855	N	THR A 112	11.875	-2.529	1.744	1.00	97.62	N
ATOM	856	CA	THR A 112	12.938	-2.051	0.871	1.00	97.62	C
ATOM	857	C	THR A 112	12.906	-2.773	-0.473	1.00	97.62	C
ATOM	858	CB	THR A 112	14.320	-2.240	1.521	1.00	97.62	C
ATOM	859	O	THR A 112	12.633	-3.975	-0.531	1.00	97.62	O
ATOM	860	CG2	THR A 112	15.438	-1.802	0.580	1.00	97.62	C
ATOM	861	OG1	THR A 112	14.391	-1.460	2.723	1.00	97.62	O
ATOM	862	N	LEU A 113	13.055	-1.979	-1.576	1.00	97.81	N
ATOM	863	CA	LEU A 113	13.156	-2.510	-2.932	1.00	97.81	C
ATOM	864	C	LEU A 113	14.406	-1.995	-3.627	1.00	97.81	C
ATOM	865	CB	LEU A 113	11.914	-2.131	-3.746	1.00	97.81	C
ATOM	866	O	LEU A 113	14.719	-0.804	-3.557	1.00	97.81	O
ATOM	867	CG	LEU A 113	11.953	-2.463	-5.238	1.00	97.81	C
ATOM	868	CD1	LEU A 113	11.906	-3.971	-5.449	1.00	97.81	C
ATOM	869	CD2	LEU A 113	10.805	-1.775	-5.973	1.00	97.81	C
ATOM	870	N	THR A 114	15.164	-2.963	-4.223	1.00	97.31	N
ATOM	871	CA	THR A 114	16.297	-2.600	-5.070	1.00	97.31	C
ATOM	872	C	THR A 114	16.047	-2.998	-6.520	1.00	97.31	C
ATOM	873	CB	THR A 114	17.594	-3.262	-4.578	1.00	97.31	C
ATOM	874	O	THR A 114	15.578	-4.109	-6.789	1.00	97.31	O
ATOM	875	CG2	THR A 114	17.938	-2.812	-3.162	1.00	97.31	C
ATOM	876	OG1	THR A 114	17.438	-4.688	-4.590	1.00	97.31	O
ATOM	877	N	VAL A 115	16.203	-2.018	-7.410	1.00	97.00	N
ATOM	878	CA	VAL A 115	15.992	-2.264	-8.836	1.00	97.00	C
ATOM	879	C	VAL A 115	17.266	-1.911	-9.609	1.00	97.00	C
ATOM	880	CB	VAL A 115	14.789	-1.457	-9.375	1.00	97.00	C
ATOM	881	O	VAL A 115	17.703	-0.759	-9.602	1.00	97.00	O
ATOM	882	CG1	VAL A 115	14.516	-1.816	-10.836	1.00	97.00	C
ATOM	883	CG2	VAL A 115	13.555	-1.704	-8.523	1.00	97.00	C
ATOM	884	N	PRO A 116	17.844	-2.889	-10.273	1.00	94.94	N
ATOM	885	CA	PRO A 116	19.031	-2.582	-11.062	1.00	94.94	C
ATOM	886	C	PRO A 116	18.719	-1.780	-12.320	1.00	94.94	C
ATOM	887	CB	PRO A 116	19.578	-3.965	-11.414	1.00	94.94	C
ATOM	888	O	PRO A 116	17.641	-1.941	-12.914	1.00	94.94	O
ATOM	889	CG	PRO A 116	18.406	-4.883	-11.320	1.00	94.94	C
ATOM	890	CD	PRO A 116	17.453	-4.320	-10.320	1.00	94.94	C
ATOM	891	N	GLN A 117	19.656	-0.854	-12.680	1.00	91.62	N
ATOM	892	CA	GLN A 117	19.594	-0.153	-13.961	1.00	91.62	C
ATOM	893	C	GLN A 117	19.844	-1.109	-15.125	1.00	91.62	C
ATOM	894	CB	GLN A 117	20.609	0.990	-13.992	1.00	91.62	C
ATOM	895	O	GLN A 117	20.797	-1.886	-15.102	1.00	91.62	O
ATOM	896	CG	GLN A 117	20.594	1.785	-15.289	1.00	91.62	C
ATOM	897	CD	GLN A 117	19.312	2.576	-15.484	1.00	91.62	C
ATOM	898	NE2	GLN A 117	18.672	2.385	-16.625	1.00	91.62	N
ATOM	899	OE1	GLN A 117	18.922	3.354	-14.617	1.00	91.62	O
ATOM	900	N	ALA A 118	18.922	-1.178	-15.953	1.00	92.06	N
ATOM	901	CA	ALA A 118	19.125	-1.973	-17.172	1.00	92.06	C

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ATOM	902	C	ALA A 118	20.094	-1.280	-18.125	1.00	92.06	C
ATOM	903	CB	ALA A 118	17.797	-2.232	-17.859	1.00	92.06	C
ATOM	904	O	ALA A 118	20.219	-0.053	-18.109	1.00	92.06	O
ATOM	905	N	VAL A 119	20.891	-2.123	-18.812	1.00	90.94	N
ATOM	906	CA	VAL A 119	21.875	-1.595	-19.766	1.00	90.94	C
ATOM	907	C	VAL A 119	21.641	-2.225	-21.141	1.00	90.94	C
ATOM	908	CB	VAL A 119	23.312	-1.846	-19.297	1.00	90.94	C
ATOM	909	O	VAL A 119	21.281	-3.398	-21.234	1.00	90.94	O
ATOM	910	CG1	VAL A 119	24.312	-1.334	-20.328	1.00	90.94	C
ATOM	911	CG2	VAL A 119	23.562	-1.183	-17.938	1.00	90.94	C
ATOM	912	N	ASP A 120	21.656	-1.333	-22.109	1.00	90.00	N
ATOM	913	CA	ASP A 120	21.609	-1.841	-23.469	1.00	90.00	C
ATOM	914	C	ASP A 120	22.797	-2.760	-23.766	1.00	90.00	C
ATOM	915	CB	ASP A 120	21.578	-0.684	-24.484	1.00	90.00	C
ATOM	916	O	ASP A 120	23.938	-2.338	-23.672	1.00	90.00	O
ATOM	917	CG	ASP A 120	21.375	-1.144	-25.906	1.00	90.00	C
ATOM	918	OD1	ASP A 120	22.016	-2.123	-26.344	1.00	90.00	O
ATOM	919	OD2	ASP A 120	20.547	-0.519	-26.609	1.00	90.00	O
ATOM	920	N	PRO A 121	22.484	-4.051	-24.250	1.00	87.69	N
ATOM	921	CA	PRO A 121	23.594	-4.996	-24.406	1.00	87.69	C
ATOM	922	C	PRO A 121	24.531	-4.613	-25.562	1.00	87.69	C
ATOM	923	CB	PRO A 121	22.875	-6.320	-24.703	1.00	87.69	C
ATOM	924	O	PRO A 121	25.703	-4.973	-25.547	1.00	87.69	O
ATOM	925	CG	PRO A 121	21.516	-5.922	-25.172	1.00	87.69	C
ATOM	926	CD	PRO A 121	21.141	-4.625	-24.516	1.00	87.69	C
ATOM	927	N	LYS A 122	24.016	-3.848	-26.484	1.00	90.69	N
ATOM	928	CA	LYS A 122	24.797	-3.506	-27.672	1.00	90.69	C
ATOM	929	C	LYS A 122	25.719	-2.312	-27.391	1.00	90.69	C
ATOM	930	CB	LYS A 122	23.891	-3.209	-28.859	1.00	90.69	C
ATOM	931	O	LYS A 122	26.891	-2.318	-27.781	1.00	90.69	O
ATOM	932	CG	LYS A 122	23.141	-4.422	-29.391	1.00	90.69	C
ATOM	933	CD	LYS A 122	22.312	-4.082	-30.625	1.00	90.69	C
ATOM	934	CE	LYS A 122	21.500	-5.277	-31.094	1.00	90.69	C
ATOM	935	NZ	LYS A 122	20.672	-4.938	-32.281	1.00	90.69	N
ATOM	936	N	THR A 123	25.031	-1.365	-26.703	1.00	91.00	N
ATOM	937	CA	THR A 123	25.750	-0.107	-26.531	1.00	91.00	C
ATOM	938	C	THR A 123	26.422	-0.044	-25.172	1.00	91.00	C
ATOM	939	CB	THR A 123	24.812	1.100	-26.703	1.00	91.00	C
ATOM	940	O	THR A 123	27.375	0.721	-24.969	1.00	91.00	O
ATOM	941	CG2	THR A 123	24.094	1.059	-28.047	1.00	91.00	C
ATOM	942	OG1	THR A 123	23.828	1.083	-25.656	1.00	91.00	O
ATOM	943	N	GLY A 124	25.906	-0.836	-24.203	1.00	88.62	N
ATOM	944	CA	GLY A 124	26.359	-0.743	-22.828	1.00	88.62	C
ATOM	945	C	GLY A 124	25.797	0.455	-22.078	1.00	88.62	C
ATOM	946	O	GLY A 124	26.172	0.716	-20.938	1.00	88.62	O
ATOM	947	N	LEU A 125	24.891	1.221	-22.719	1.00	88.44	N
ATOM	948	CA	LEU A 125	24.328	2.438	-22.141	1.00	88.44	C
ATOM	949	C	LEU A 125	23.078	2.129	-21.312	1.00	88.44	C
ATOM	950	CB	LEU A 125	24.000	3.451	-23.234	1.00	88.44	C
ATOM	951	O	LEU A 125	22.344	1.182	-21.625	1.00	88.44	O
ATOM	952	CG	LEU A 125	25.188	4.008	-24.016	1.00	88.44	C
ATOM	953	CD1	LEU A 125	24.703	4.871	-25.172	1.00	88.44	C
ATOM	954	CD2	LEU A 125	26.109	4.809	-23.109	1.00	88.44	C

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ATOM	955	N	PRO A 126	22.953	2.967	-20.219	1.00	89.69	N
ATOM	956	CA	PRO A 126	21.750	2.779	-19.391	1.00	89.69	C
ATOM	957	C	PRO A 126	20.453	2.953	-20.172	1.00	89.69	C
ATOM	958	CB	PRO A 126	21.891	3.867	-18.312	1.00	89.69	C
ATOM	959	O	PRO A 126	20.391	3.791	-21.078	1.00	89.69	O
ATOM	960	CG	PRO A 126	23.344	4.176	-18.266	1.00	89.69	C
ATOM	961	CD	PRO A 126	23.922	4.000	-19.656	1.00	89.69	C
ATOM	962	N	LYS A 127	19.453	2.023	-19.906	1.00	91.25	N
ATOM	963	CA	LYS A 127	18.078	2.162	-20.422	1.00	91.25	C
ATOM	964	C	LYS A 127	17.062	2.064	-19.281	1.00	91.25	C
ATOM	965	CB	LYS A 127	17.797	1.099	-21.469	1.00	91.25	C
ATOM	966	O	LYS A 127	17.422	1.767	-18.141	1.00	91.25	O
ATOM	967	CG	LYS A 127	17.750	-0.322	-20.938	1.00	91.25	C
ATOM	968	CD	LYS A 127	17.438	-1.330	-22.031	1.00	91.25	C
ATOM	969	CE	LYS A 127	17.312	-2.742	-21.469	1.00	91.25	C
ATOM	970	NZ	LYS A 127	16.875	-3.715	-22.516	1.00	91.25	N
ATOM	971	N	ASP A 128	15.875	2.443	-19.562	1.00	93.81	N
ATOM	972	CA	ASP A 128	14.797	2.432	-18.578	1.00	93.81	C
ATOM	973	C	ASP A 128	14.617	1.041	-17.984	1.00	93.81	C
ATOM	974	CB	ASP A 128	13.484	2.900	-19.219	1.00	93.81	C
ATOM	975	O	ASP A 128	14.695	0.036	-18.688	1.00	93.81	O
ATOM	976	CG	ASP A 128	13.516	4.363	-19.641	1.00	93.81	C
ATOM	977	OD1	ASP A 128	14.445	5.090	-19.234	1.00	93.81	O
ATOM	978	OD2	ASP A 128	12.594	4.793	-20.359	1.00	93.81	O
ATOM	979	N	SER A 129	14.453	0.918	-16.656	1.00	95.38	N
ATOM	980	CA	SER A 129	14.148	-0.311	-15.922	1.00	95.38	C
ATOM	981	C	SER A 129	13.102	-0.072	-14.844	1.00	95.38	C
ATOM	982	CB	SER A 129	15.422	-0.882	-15.289	1.00	95.38	C
ATOM	983	O	SER A 129	12.836	1.072	-14.469	1.00	95.38	O
ATOM	984	OG	SER A 129	15.961	0.020	-14.336	1.00	95.38	O
ATOM	985	N	SER A 130	12.461	-1.213	-14.469	1.00	97.19	N
ATOM	986	CA	SER A 130	11.438	-1.113	-13.438	1.00	97.19	C
ATOM	987	C	SER A 130	11.367	-2.389	-12.602	1.00	97.19	C
ATOM	988	CB	SER A 130	10.062	-0.831	-14.055	1.00	97.19	C
ATOM	989	O	SER A 130	11.789	-3.455	-13.055	1.00	97.19	O
ATOM	990	OG	SER A 130	9.664	-1.901	-14.891	1.00	97.19	O
ATOM	991	N	GLY A 131	11.062	-2.293	-11.391	1.00	97.62	N
ATOM	992	CA	GLY A 131	10.812	-3.379	-10.453	1.00	97.62	C
ATOM	993	C	GLY A 131	9.672	-3.096	-9.500	1.00	97.62	C
ATOM	994	O	GLY A 131	9.391	-1.937	-9.188	1.00	97.62	O
ATOM	995	N	THR A 132	8.977	-4.148	-9.203	1.00	98.12	N
ATOM	996	CA	THR A 132	7.832	-4.051	-8.297	1.00	98.12	C
ATOM	997	C	THR A 132	7.941	-5.090	-7.184	1.00	98.12	C
ATOM	998	CB	THR A 132	6.504	-4.238	-9.055	1.00	98.12	C
ATOM	999	O	THR A 132	8.383	-6.215	-7.414	1.00	98.12	O
ATOM	1000	CG2	THR A 132	5.316	-4.164	-8.094	1.00	98.12	C
ATOM	1001	OG1	THR A 132	6.375	-3.215	-10.039	1.00	98.12	O
ATOM	1002	N	LYS A 133	7.691	-4.648	-5.938	1.00	97.75	N
ATOM	1003	CA	LYS A 133	7.570	-5.527	-4.781	1.00	97.75	C
ATOM	1004	C	LYS A 133	6.188	-5.414	-4.145	1.00	97.75	C
ATOM	1005	CB	LYS A 133	8.648	-5.207	-3.746	1.00	97.75	C
ATOM	1006	O	LYS A 133	5.680	-4.309	-3.941	1.00	97.75	O
ATOM	1007	CG	LYS A 133	8.664	-6.152	-2.555	1.00	97.75	C

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ATOM	1008	CD	LYS A 133	9.812	-5.832	-1.604	1.00	97.75	C
ATOM	1009	CE	LYS A 133	9.859	-6.805	-0.433	1.00	97.75	C
ATOM	1010	NZ	LYS A 133	10.961	-6.484	0.514	1.00	97.75	N
ATOM	1011	N	THR A 134	5.559	-6.602	-3.943	1.00	97.88	N
ATOM	1012	CA	THR A 134	4.254	-6.652	-3.293	1.00	97.88	C
ATOM	1013	C	THR A 134	4.336	-7.414	-1.973	1.00	97.88	C
ATOM	1014	CB	THR A 134	3.203	-7.312	-4.203	1.00	97.88	C
ATOM	1015	O	THR A 134	4.906	-8.508	-1.914	1.00	97.88	O
ATOM	1016	CG2	THR A 134	1.839	-7.367	-3.521	1.00	97.88	C
ATOM	1017	OG1	THR A 134	3.088	-6.559	-5.418	1.00	97.88	O
ATOM	1018	N	VAL A 135	3.826	-6.820	-0.896	1.00	95.94	N
ATOM	1019	CA	VAL A 135	3.777	-7.461	0.415	1.00	95.94	C
ATOM	1020	C	VAL A 135	2.357	-7.395	0.972	1.00	95.94	C
ATOM	1021	CB	VAL A 135	4.770	-6.809	1.402	1.00	95.94	C
ATOM	1022	O	VAL A 135	1.610	-6.461	0.670	1.00	95.94	O
ATOM	1023	CG1	VAL A 135	6.211	-7.012	0.934	1.00	95.94	C
ATOM	1024	CG2	VAL A 135	4.461	-5.320	1.564	1.00	95.94	C
ATOM	1025	N	THR A 136	2.006	-8.445	1.687	1.00	95.69	N
ATOM	1026	CA	THR A 136	0.682	-8.516	2.297	1.00	95.69	C
ATOM	1027	C	THR A 136	0.784	-8.438	3.818	1.00	95.69	C
ATOM	1028	CB	THR A 136	-0.050	-9.812	1.897	1.00	95.69	C
ATOM	1029	O	THR A 136	1.614	-9.117	4.426	1.00	95.69	O
ATOM	1030	CG2	THR A 136	-1.423	-9.898	2.557	1.00	95.69	C
ATOM	1031	OG1	THR A 136	-0.213	-9.844	0.474	1.00	95.69	O
ATOM	1032	N	VAL A 137	-0.047	-7.551	4.418	1.00	94.00	N
ATOM	1033	CA	VAL A 137	-0.186	-7.438	5.867	1.00	94.00	C
ATOM	1034	C	VAL A 137	-1.593	-7.855	6.285	1.00	94.00	C
ATOM	1035	CB	VAL A 137	0.110	-6.000	6.352	1.00	94.00	C
ATOM	1036	O	VAL A 137	-2.582	-7.285	5.816	1.00	94.00	O
ATOM	1037	CG1	VAL A 137	-0.055	-5.895	7.867	1.00	94.00	C
ATOM	1038	CG2	VAL A 137	1.517	-5.574	5.934	1.00	94.00	C
ATOM	1039	N	ASN A 138	-1.708	-8.938	7.062	1.00	94.12	N
ATOM	1040	CA	ASN A 138	-2.984	-9.391	7.605	1.00	94.12	C
ATOM	1041	C	ASN A 138	-3.078	-9.133	9.109	1.00	94.12	C
ATOM	1042	CB	ASN A 138	-3.193	-10.883	7.309	1.00	94.12	C
ATOM	1043	O	ASN A 138	-2.141	-9.430	9.852	1.00	94.12	O
ATOM	1044	CG	ASN A 138	-3.223	-11.180	5.824	1.00	94.12	C
ATOM	1045	ND2	ASN A 138	-2.299	-12.023	5.367	1.00	94.12	N
ATOM	1046	OD1	ASN A 138	-4.070	-10.664	5.090	1.00	94.12	O
ATOM	1047	N	LYS A 139	-4.125	-8.484	9.430	1.00	94.38	N
ATOM	1048	CA	LYS A 139	-4.352	-8.242	10.852	1.00	94.38	C
ATOM	1049	C	LYS A 139	-5.773	-8.625	11.258	1.00	94.38	C
ATOM	1050	CB	LYS A 139	-4.094	-6.773	11.195	1.00	94.38	C
ATOM	1051	O	LYS A 139	-6.738	-8.266	10.570	1.00	94.38	O
ATOM	1052	CG	LYS A 139	-4.305	-6.434	12.664	1.00	94.38	C
ATOM	1053	CD	LYS A 139	-3.174	-6.969	13.531	1.00	94.38	C
ATOM	1054	CE	LYS A 139	-3.260	-6.434	14.953	1.00	94.38	C
ATOM	1055	NZ	LYS A 139	-2.104	-6.883	15.789	1.00	94.38	N
ATOM	1056	N	THR A 140	-5.875	-9.453	12.359	1.00	92.81	N
ATOM	1057	CA	THR A 140	-7.152	-9.781	12.984	1.00	92.81	C
ATOM	1058	C	THR A 140	-7.277	-9.102	14.344	1.00	92.81	C
ATOM	1059	CB	THR A 140	-7.320	-11.305	13.141	1.00	92.81	C
ATOM	1060	O	THR A 140	-6.379	-9.211	15.180	1.00	92.81	O

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ATOM	1061	CG2 THR A 140	-8.664	-11.641	13.781	1.00	92.81	C
ATOM	1062	OG1 THR A 140	-7.246	-11.930	11.852	1.00	92.81	O
ATOM	1063	N VAL A 141	-8.359	-8.328	14.555	1.00	89.44	N
ATOM	1064	CA VAL A 141	-8.586	-7.566	15.781	1.00	89.44	C
ATOM	1065	C VAL A 141	-9.875	-8.047	16.453	1.00	89.44	C
ATOM	1066	CB VAL A 141	-8.672	-6.051	15.500	1.00	89.44	C
ATOM	1067	O VAL A 141	-10.906	-8.188	15.797	1.00	89.44	O
ATOM	1068	CG1 VAL A 141	-8.844	-5.266	16.797	1.00	89.44	C
ATOM	1069	CG2 VAL A 141	-7.430	-5.578	14.742	1.00	89.44	C
ATOM	1070	N GLU A 142	-9.742	-8.484	17.734	1.00	86.06	N
ATOM	1071	CA GLU A 142	-10.945	-8.789	18.500	1.00	86.06	C
ATOM	1072	C GLU A 142	-11.547	-7.531	19.109	1.00	86.06	C
ATOM	1073	CB GLU A 142	-10.633	-9.812	19.609	1.00	86.06	C
ATOM	1074	O GLU A 142	-10.852	-6.770	19.797	1.00	86.06	O
ATOM	1075	CG GLU A 142	-10.336	-11.211	19.078	1.00	86.06	C
ATOM	1076	CD GLU A 142	-10.180	-12.242	20.188	1.00	86.06	C
ATOM	1077	OE1 GLU A 142	-10.039	-13.445	19.875	1.00	86.06	O
ATOM	1078	OE2 GLU A 142	-10.195	-11.844	21.375	1.00	86.06	O
ATOM	1079	N TRP A 143	-12.734	-7.234	18.719	1.00	81.94	N
ATOM	1080	CA TRP A 143	-13.523	-6.125	19.250	1.00	81.94	C
ATOM	1081	C TRP A 143	-14.320	-6.559	20.469	1.00	81.94	C
ATOM	1082	CB TRP A 143	-14.477	-5.582	18.172	1.00	81.94	C
ATOM	1083	O TRP A 143	-15.125	-7.492	20.406	1.00	81.94	O
ATOM	1084	CG TRP A 143	-15.062	-4.246	18.500	1.00	81.94	C
ATOM	1085	CD1 TRP A 143	-15.148	-3.662	19.734	1.00	81.94	C
ATOM	1086	CD2 TRP A 143	-15.656	-3.322	17.594	1.00	81.94	C
ATOM	1087	CE2 TRP A 143	-16.078	-2.201	18.328	1.00	81.94	C
ATOM	1088	CE3 TRP A 143	-15.875	-3.336	16.203	1.00	81.94	C
ATOM	1089	NE1 TRP A 143	-15.758	-2.434	19.641	1.00	81.94	N
ATOM	1090	CH2 TRP A 143	-16.906	-1.142	16.391	1.00	81.94	C
ATOM	1091	CZ2 TRP A 143	-16.703	-1.103	17.734	1.00	81.94	C
ATOM	1092	CZ3 TRP A 143	-16.500	-2.242	15.617	1.00	81.94	C

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ATOM	1	N GLU A 8	-34.844	5.156	22.859	1.00	80.25	N
ATOM	2	CA GLU A 8	-33.938	5.695	21.844	1.00	80.25	C
ATOM	3	C GLU A 8	-32.969	4.629	21.344	1.00	80.25	C
ATOM	4	CB GLU A 8	-33.188	6.898	22.375	1.00	80.25	C
ATOM	5	O GLU A 8	-32.344	3.943	22.141	1.00	80.25	O
ATOM	6	CG GLU A 8	-32.469	7.711	21.297	1.00	80.25	C
ATOM	7	CD GLU A 8	-31.781	8.961	21.844	1.00	80.25	C
ATOM	8	OE1 GLU A 8	-31.266	9.766	21.047	1.00	80.25	O
ATOM	9	OE2 GLU A 8	-31.781	9.133	23.078	1.00	80.25	O
ATOM	10	N VAL A 9	-33.219	4.016	20.266	1.00	88.62	N
ATOM	11	CA VAL A 9	-32.344	3.074	19.562	1.00	88.62	C
ATOM	12	C VAL A 9	-31.031	3.756	19.188	1.00	88.62	C
ATOM	13	CB VAL A 9	-33.031	2.510	18.297	1.00	88.62	C
ATOM	14	O VAL A 9	-31.031	4.844	18.609	1.00	88.62	O
ATOM	15	CG1 VAL A 9	-32.094	1.535	17.562	1.00	88.62	C
ATOM	16	CG2 VAL A 9	-34.344	1.826	18.656	1.00	88.62	C
ATOM	17	N LYS A 10	-29.969	3.291	19.641	1.00	90.75	N
ATOM	18	CA LYS A 10	-28.625	3.766	19.297	1.00	90.75	C
ATOM	19	C LYS A 10	-28.031	2.965	18.141	1.00	90.75	C

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ATOM	20	CB	LYS	A	10	-27.703	3.688	20.516	1.00	90.75	C
ATOM	21	O	LYS	A	10	-28.141	1.737	18.109	1.00	90.75	O
ATOM	22	CG	LYS	A	10	-28.109	4.617	21.656	1.00	90.75	C
ATOM	23	CD	LYS	A	10	-27.156	4.500	22.844	1.00	90.75	C
ATOM	24	CE	LYS	A	10	-27.594	5.383	24.000	1.00	90.75	C
ATOM	25	NZ	LYS	A	10	-26.703	5.215	25.188	1.00	90.75	N
ATOM	26	N	TYR	A	11	-27.406	3.596	17.172	1.00	92.38	N
ATOM	27	CA	TYR	A	11	-26.781	2.975	16.016	1.00	92.38	C
ATOM	28	C	TYR	A	11	-25.266	3.090	16.078	1.00	92.38	C
ATOM	29	CB	TYR	A	11	-27.312	3.617	14.719	1.00	92.38	C
ATOM	30	O	TYR	A	11	-24.734	4.172	16.328	1.00	92.38	O
ATOM	31	CG	TYR	A	11	-28.766	3.361	14.461	1.00	92.38	C
ATOM	32	CD1	TYR	A	11	-29.188	2.303	13.656	1.00	92.38	C
ATOM	33	CD2	TYR	A	11	-29.750	4.180	15.023	1.00	92.38	C
ATOM	34	CE1	TYR	A	11	-30.531	2.066	13.414	1.00	92.38	C
ATOM	35	CE2	TYR	A	11	-31.094	3.953	14.789	1.00	92.38	C
ATOM	36	OH	TYR	A	11	-32.812	2.664	13.750	1.00	92.38	O
ATOM	37	CZ	TYR	A	11	-31.484	2.895	13.984	1.00	92.38	C
ATOM	38	N	TYR	A	12	-24.641	2.014	15.883	1.00	93.50	N
ATOM	39	CA	TYR	A	12	-23.188	1.968	15.883	1.00	93.50	C
ATOM	40	C	TYR	A	12	-22.656	1.368	14.586	1.00	93.50	C
ATOM	41	CB	TYR	A	12	-22.672	1.157	17.078	1.00	93.50	C
ATOM	42	O	TYR	A	12	-23.297	0.506	13.984	1.00	93.50	O
ATOM	43	CG	TYR	A	12	-23.031	1.762	18.422	1.00	93.50	C
ATOM	44	CD1	TYR	A	12	-22.141	2.609	19.078	1.00	93.50	C
ATOM	45	CD2	TYR	A	12	-24.250	1.487	19.031	1.00	93.50	C
ATOM	46	CE1	TYR	A	12	-22.453	3.166	20.312	1.00	93.50	C
ATOM	47	CE2	TYR	A	12	-24.578	2.039	20.266	1.00	93.50	C
ATOM	48	OH	TYR	A	12	-24.000	3.426	22.109	1.00	93.50	O
ATOM	49	CZ	TYR	A	12	-23.672	2.877	20.891	1.00	93.50	C
ATOM	50	N	VAL	A	13	-21.484	1.840	14.219	1.00	94.88	N
ATOM	51	CA	VAL	A	13	-20.781	1.242	13.094	1.00	94.88	C
ATOM	52	C	VAL	A	13	-19.375	0.845	13.516	1.00	94.88	C
ATOM	53	CB	VAL	A	13	-20.719	2.205	11.883	1.00	94.88	C
ATOM	54	O	VAL	A	13	-18.688	1.608	14.195	1.00	94.88	O
ATOM	55	CG1	VAL	A	13	-19.797	3.383	12.180	1.00	94.88	C
ATOM	56	CG2	VAL	A	13	-20.266	1.462	10.633	1.00	94.88	C
ATOM	57	N	LYS	A	14	-19.062	-0.369	13.289	1.00	95.88	N
ATOM	58	CA	LYS	A	14	-17.703	-0.895	13.461	1.00	95.88	C
ATOM	59	C	LYS	A	14	-17.078	-1.233	12.109	1.00	95.88	C
ATOM	60	CB	LYS	A	14	-17.719	-2.133	14.359	1.00	95.88	C
ATOM	61	O	LYS	A	14	-17.594	-2.074	11.367	1.00	95.88	O
ATOM	62	CG	LYS	A	14	-16.328	-2.672	14.688	1.00	95.88	C
ATOM	63	CD	LYS	A	14	-16.406	-3.893	15.594	1.00	95.88	C
ATOM	64	CE	LYS	A	14	-15.023	-4.426	15.938	1.00	95.88	C
ATOM	65	NZ	LYS	A	14	-15.094	-5.605	16.844	1.00	95.88	N
ATOM	66	N	VAL	A	15	-16.000	-0.521	11.727	1.00	96.44	N
ATOM	67	CA	VAL	A	15	-15.289	-0.758	10.477	1.00	96.44	C
ATOM	68	C	VAL	A	15	-13.930	-1.396	10.773	1.00	96.44	C
ATOM	69	CB	VAL	A	15	-15.094	0.548	9.672	1.00	96.44	C
ATOM	70	O	VAL	A	15	-13.141	-0.852	11.539	1.00	96.44	O
ATOM	71	CG1	VAL	A	15	-14.484	0.257	8.305	1.00	96.44	C
ATOM	72	CG2	VAL	A	15	-16.422	1.278	9.523	1.00	96.44	C

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ATOM	73	N	GLU A 16	-13.742	-2.561	10.234	1.00	97.69	N
ATOM	74	CA	GLU A 16	-12.461	-3.262	10.328	1.00	97.69	C
ATOM	75	C	GLU A 16	-11.781	-3.359	8.961	1.00	97.69	C
ATOM	76	CB	GLU A 16	-12.656	-4.660	10.922	1.00	97.69	C
ATOM	77	O	GLU A 16	-12.344	-3.918	8.023	1.00	97.69	O
ATOM	78	CG	GLU A 16	-13.281	-4.656	12.305	1.00	97.69	C
ATOM	79	CD	GLU A 16	-13.547	-6.055	12.844	1.00	97.69	C
ATOM	80	OE1	GLU A 16	-13.477	-6.250	14.078	1.00	97.69	O
ATOM	81	OE2	GLU A 16	-13.820	-6.961	12.031	1.00	97.69	O
ATOM	82	N	ILE A 17	-10.531	-2.846	8.898	1.00	97.81	N
ATOM	83	CA	ILE A 17	-9.828	-2.871	7.625	1.00	97.81	C
ATOM	84	C	ILE A 17	-8.523	-3.648	7.773	1.00	97.81	C
ATOM	85	CB	ILE A 17	-9.539	-1.442	7.109	1.00	97.81	C
ATOM	86	O	ILE A 17	-7.754	-3.416	8.711	1.00	97.81	O
ATOM	87	CG1	ILE A 17	-10.852	-0.668	6.930	1.00	97.81	C
ATOM	88	CG2	ILE A 17	-8.750	-1.488	5.797	1.00	97.81	C
ATOM	89	CD1	ILE A 17	-10.664	0.782	6.504	1.00	97.81	C
ATOM	90	N	THR A 18	-8.375	-4.578	6.918	1.00	98.31	N
ATOM	91	CA	THR A 18	-7.102	-5.270	6.770	1.00	98.31	C
ATOM	92	C	THR A 18	-6.457	-4.934	5.430	1.00	98.31	C
ATOM	93	CB	THR A 18	-7.277	-6.797	6.891	1.00	98.31	C
ATOM	94	O	THR A 18	-7.062	-5.141	4.375	1.00	98.31	O
ATOM	95	CG2	THR A 18	-5.938	-7.516	6.777	1.00	98.31	C
ATOM	96	OG1	THR A 18	-7.867	-7.105	8.156	1.00	98.31	O
ATOM	97	N	ILE A 19	-5.223	-4.410	5.500	1.00	98.44	N
ATOM	98	CA	ILE A 19	-4.520	-4.066	4.270	1.00	98.44	C
ATOM	99	C	ILE A 19	-3.275	-4.938	4.125	1.00	98.44	C
ATOM	100	CB	ILE A 19	-4.129	-2.570	4.242	1.00	98.44	C
ATOM	101	O	ILE A 19	-2.383	-4.906	4.973	1.00	98.44	O
ATOM	102	CG1	ILE A 19	-5.383	-1.691	4.352	1.00	98.44	C
ATOM	103	CG2	ILE A 19	-3.340	-2.240	2.973	1.00	98.44	C
ATOM	104	CD1	ILE A 19	-5.082	-0.209	4.535	1.00	98.44	C
ATOM	105	N	LYS A 20	-3.314	-5.723	3.109	1.00	98.50	N
ATOM	106	CA	LYS A 20	-2.154	-6.543	2.770	1.00	98.50	C
ATOM	107	C	LYS A 20	-1.397	-5.957	1.580	1.00	98.50	C
ATOM	108	CB	LYS A 20	-2.582	-7.980	2.461	1.00	98.50	C
ATOM	109	O	LYS A 20	-1.979	-5.734	0.517	1.00	98.50	O
ATOM	110	CG	LYS A 20	-3.258	-8.688	3.627	1.00	98.50	C
ATOM	111	CD	LYS A 20	-3.678	-10.102	3.254	1.00	98.50	C
ATOM	112	CE	LYS A 20	-4.422	-10.789	4.395	1.00	98.50	C
ATOM	113	NZ	LYS A 20	-4.844	-12.172	4.031	1.00	98.50	N
ATOM	114	N	THR A 21	-0.143	-5.695	1.798	1.00	98.69	N
ATOM	115	CA	THR A 21	0.676	-5.070	0.767	1.00	98.69	C
ATOM	116	C	THR A 21	1.816	-5.992	0.346	1.00	98.69	C
ATOM	117	CB	THR A 21	1.252	-3.727	1.251	1.00	98.69	C
ATOM	118	O	THR A 21	2.547	-6.512	1.192	1.00	98.69	O
ATOM	119	CG2	THR A 21	2.037	-3.031	0.143	1.00	98.69	C
ATOM	120	OG1	THR A 21	0.177	-2.873	1.666	1.00	98.69	O
ATOM	121	N	ARG A 22	1.935	-6.234	-0.959	1.00	98.62	N
ATOM	122	CA	ARG A 22	3.035	-6.992	-1.547	1.00	98.62	C
ATOM	123	C	ARG A 22	3.711	-6.199	-2.662	1.00	98.62	C
ATOM	124	CB	ARG A 22	2.537	-8.336	-2.086	1.00	98.62	C
ATOM	125	O	ARG A 22	3.074	-5.855	-3.658	1.00	98.62	O

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ATOM	126	CG	ARG	A	22	3.650	-9.281	-2.508	1.00	98.62	C
ATOM	127	CD	ARG	A	22	3.111	-10.648	-2.891	1.00	98.62	C
ATOM	128	NE	ARG	A	22	4.180	-11.555	-3.307	1.00	98.62	N
ATOM	129	NH1	ARG	A	22	2.783	-13.336	-3.748	1.00	98.62	N
ATOM	130	NH2	ARG	A	22	5.047	-13.547	-4.059	1.00	98.62	N
ATOM	131	CZ	ARG	A	22	4.000	-12.812	-3.703	1.00	98.62	C
ATOM	132	N	LEU	A	23	4.965	-5.922	-2.486	1.00	98.75	N
ATOM	133	CA	LEU	A	23	5.684	-5.059	-3.416	1.00	98.75	C
ATOM	134	C	LEU	A	23	6.906	-5.773	-3.986	1.00	98.75	C
ATOM	135	CB	LEU	A	23	6.113	-3.762	-2.725	1.00	98.75	C
ATOM	136	O	LEU	A	23	7.570	-6.535	-3.281	1.00	98.75	O
ATOM	137	CG	LEU	A	23	5.039	-3.041	-1.909	1.00	98.75	C
ATOM	138	CD1	LEU	A	23	5.637	-1.825	-1.206	1.00	98.75	C
ATOM	139	CD2	LEU	A	23	3.877	-2.629	-2.805	1.00	98.75	C
ATOM	140	N	ARG	A	24	7.117	-5.500	-5.199	1.00	98.62	N
ATOM	141	CA	ARG	A	24	8.289	-6.055	-5.871	1.00	98.62	C
ATOM	142	C	ARG	A	24	8.883	-5.047	-6.855	1.00	98.62	C
ATOM	143	CB	ARG	A	24	7.934	-7.352	-6.602	1.00	98.62	C
ATOM	144	O	ARG	A	24	8.148	-4.383	-7.586	1.00	98.62	O
ATOM	145	CG	ARG	A	24	9.117	-8.023	-7.281	1.00	98.62	C
ATOM	146	CD	ARG	A	24	8.703	-9.297	-8.000	1.00	98.62	C
ATOM	147	NE	ARG	A	24	9.844	-9.938	-8.656	1.00	98.62	N
ATOM	148	NH1	ARG	A	24	8.625	-11.719	-9.484	1.00	98.62	N
ATOM	149	NH2	ARG	A	24	10.875	-11.562	-9.906	1.00	98.62	N
ATOM	150	CZ	ARG	A	24	9.773	-11.070	-9.352	1.00	98.62	C
ATOM	151	N	PHE	A	25	10.211	-4.961	-6.863	1.00	98.50	N
ATOM	152	CA	PHE	A	25	10.891	-4.094	-7.812	1.00	98.50	C
ATOM	153	C	PHE	A	25	12.141	-4.777	-8.367	1.00	98.50	C
ATOM	154	CB	PHE	A	25	11.273	-2.764	-7.152	1.00	98.50	C
ATOM	155	O	PHE	A	25	12.938	-5.324	-7.613	1.00	98.50	O
ATOM	156	CG	PHE	A	25	11.836	-1.748	-8.109	1.00	98.50	C
ATOM	157	CD1	PHE	A	25	13.203	-1.545	-8.211	1.00	98.50	C
ATOM	158	CD2	PHE	A	25	10.984	-0.995	-8.914	1.00	98.50	C
ATOM	159	CE1	PHE	A	25	13.727	-0.604	-9.094	1.00	98.50	C
ATOM	160	CE2	PHE	A	25	11.500	-0.054	-9.805	1.00	98.50	C
ATOM	161	CZ	PHE	A	25	12.867	0.140	-9.891	1.00	98.50	C
ATOM	162	N	GLU	A	26	12.258	-4.730	-9.625	1.00	98.50	N
ATOM	163	CA	GLU	A	26	13.406	-5.312	-10.305	1.00	98.50	C
ATOM	164	C	GLU	A	26	14.125	-4.273	-11.164	1.00	98.50	C
ATOM	165	CB	GLU	A	26	12.984	-6.504	-11.164	1.00	98.50	C
ATOM	166	O	GLU	A	26	13.484	-3.396	-11.750	1.00	98.50	O
ATOM	167	CG	GLU	A	26	12.359	-7.641	-10.367	1.00	98.50	C
ATOM	168	CD	GLU	A	26	11.906	-8.805	-11.242	1.00	98.50	C
ATOM	169	OE1	GLU	A	26	11.039	-9.594	-10.797	1.00	98.50	O
ATOM	170	OE2	GLU	A	26	12.414	-8.922	-12.375	1.00	98.50	O
ATOM	171	N	SER	A	27	15.477	-4.453	-11.164	1.00	98.38	N
ATOM	172	CA	SER	A	27	16.297	-3.623	-12.039	1.00	98.38	C
ATOM	173	C	SER	A	27	17.250	-4.473	-12.883	1.00	98.38	C
ATOM	174	CB	SER	A	27	17.109	-2.609	-11.219	1.00	98.38	C
ATOM	175	O	SER	A	27	17.922	-5.367	-12.359	1.00	98.38	O
ATOM	176	OG	SER	A	27	18.000	-1.888	-12.055	1.00	98.38	O
ATOM	177	N	GLU	A	28	17.281	-4.164	-14.180	1.00	98.38	N
ATOM	178	CA	GLU	A	28	18.141	-4.887	-15.102	1.00	98.38	C

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ATOM	179	C	GLU A 28	19.031	-3.932	-15.898	1.00	98.38	C
ATOM	180	CB	GLU A 28	17.312	-5.754	-16.062	1.00	98.38	C
ATOM	181	O	GLU A 28	18.547	-2.920	-16.422	1.00	98.38	O
ATOM	182	CG	GLU A 28	16.500	-6.832	-15.359	1.00	98.38	C
ATOM	183	CD	GLU A 28	15.633	-7.633	-16.312	1.00	98.38	C
ATOM	184	OE1	GLU A 28	15.094	-8.688	-15.898	1.00	98.38	O
ATOM	185	OE2	GLU A 28	15.484	-7.207	-17.484	1.00	98.38	O
ATOM	186	N	LEU A 29	20.328	-4.305	-15.984	1.00	97.88	N
ATOM	187	CA	LEU A 29	21.281	-3.543	-16.781	1.00	97.88	C
ATOM	188	C	LEU A 29	21.859	-4.398	-17.922	1.00	97.88	C
ATOM	189	CB	LEU A 29	22.422	-3.008	-15.914	1.00	97.88	C
ATOM	190	O	LEU A 29	22.344	-5.500	-17.672	1.00	97.88	O
ATOM	191	CG	LEU A 29	23.516	-2.225	-16.625	1.00	97.88	C
ATOM	192	CD1	LEU A 29	22.953	-0.930	-17.203	1.00	97.88	C
ATOM	193	CD2	LEU A 29	24.672	-1.934	-15.680	1.00	97.88	C
ATOM	194	N	TYR A 30	21.766	-3.830	-19.109	1.00	97.62	N
ATOM	195	CA	TYR A 30	22.234	-4.543	-20.297	1.00	97.62	C
ATOM	196	C	TYR A 30	23.375	-3.797	-20.953	1.00	97.62	C
ATOM	197	CB	TYR A 30	21.078	-4.742	-21.297	1.00	97.62	C
ATOM	198	O	TYR A 30	23.438	-2.566	-20.922	1.00	97.62	O
ATOM	199	CG	TYR A 30	19.969	-5.605	-20.766	1.00	97.62	C
ATOM	200	CD1	TYR A 30	19.891	-6.961	-21.078	1.00	97.62	C
ATOM	201	CD2	TYR A 30	18.969	-5.070	-19.953	1.00	97.62	C
ATOM	202	CE1	TYR A 30	18.859	-7.762	-20.594	1.00	97.62	C
ATOM	203	CE2	TYR A 30	17.938	-5.859	-19.469	1.00	97.62	C
ATOM	204	OH	TYR A 30	16.859	-7.988	-19.312	1.00	97.62	O
ATOM	205	CZ	TYR A 30	17.891	-7.203	-19.797	1.00	97.62	C
ATOM	206	N	ASP A 31	24.297	-4.602	-21.500	1.00	96.38	N
ATOM	207	CA	ASP A 31	25.328	-3.971	-22.344	1.00	96.38	C
ATOM	208	C	ASP A 31	24.766	-3.623	-23.719	1.00	96.38	C
ATOM	209	CB	ASP A 31	26.547	-4.887	-22.469	1.00	96.38	C
ATOM	210	O	ASP A 31	23.609	-3.900	-24.016	1.00	96.38	O
ATOM	211	CG	ASP A 31	26.250	-6.141	-23.281	1.00	96.38	C
ATOM	212	OD1	ASP A 31	25.156	-6.246	-23.875	1.00	96.38	O
ATOM	213	OD2	ASP A 31	27.125	-7.031	-23.328	1.00	96.38	O
ATOM	214	N	PRO A 32	25.594	-2.971	-24.672	1.00	95.75	N
ATOM	215	CA	PRO A 32	25.094	-2.533	-25.984	1.00	95.75	C
ATOM	216	C	PRO A 32	24.656	-3.699	-26.859	1.00	95.75	C
ATOM	217	CB	PRO A 32	26.297	-1.815	-26.594	1.00	95.75	C
ATOM	218	O	PRO A 32	23.797	-3.527	-27.734	1.00	95.75	O
ATOM	219	CG	PRO A 32	27.047	-1.241	-25.438	1.00	95.75	C
ATOM	220	CD	PRO A 32	27.000	-2.229	-24.312	1.00	95.75	C
ATOM	221	N	ALA A 33	25.188	-4.852	-26.625	1.00	94.25	N
ATOM	222	CA	ALA A 33	24.859	-6.023	-27.438	1.00	94.25	C
ATOM	223	C	ALA A 33	23.594	-6.703	-26.922	1.00	94.25	C
ATOM	224	CB	ALA A 33	26.031	-7.012	-27.438	1.00	94.25	C
ATOM	225	O	ALA A 33	23.094	-7.652	-27.547	1.00	94.25	O
ATOM	226	N	GLY A 34	23.062	-6.172	-25.781	1.00	94.12	N
ATOM	227	CA	GLY A 34	21.828	-6.723	-25.234	1.00	94.12	C
ATOM	228	C	GLY A 34	22.062	-7.848	-24.250	1.00	94.12	C
ATOM	229	O	GLY A 34	21.141	-8.594	-23.922	1.00	94.12	O
ATOM	230	N	ARG A 35	23.297	-7.906	-23.719	1.00	96.31	N
ATOM	231	CA	ARG A 35	23.594	-8.930	-22.719	1.00	96.31	C

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ATOM	232	C	ARG A 35	23.359	-8.398	-21.312	1.00	96.31	C
ATOM	233	CB	ARG A 35	25.047	-9.422	-22.859	1.00	96.31	C
ATOM	234	O	ARG A 35	23.734	-7.270	-20.984	1.00	96.31	O
ATOM	235	CG	ARG A 35	25.312	-10.148	-24.172	1.00	96.31	C
ATOM	236	CD	ARG A 35	26.734	-10.703	-24.219	1.00	96.31	C
ATOM	237	NE	ARG A 35	27.688	-9.703	-24.688	1.00	96.31	N
ATOM	238	NH1	ARG A 35	29.484	-11.148	-24.719	1.00	96.31	N
ATOM	239	NH2	ARG A 35	29.766	-8.953	-25.328	1.00	96.31	N
ATOM	240	CZ	ARG A 35	28.984	-9.938	-24.906	1.00	96.31	C
ATOM	241	N	LEU A 36	22.734	-9.227	-20.438	1.00	97.88	N
ATOM	242	CA	LEU A 36	22.438	-8.836	-19.062	1.00	97.88	C
ATOM	243	C	LEU A 36	23.719	-8.719	-18.250	1.00	97.88	C
ATOM	244	CB	LEU A 36	21.484	-9.844	-18.422	1.00	97.88	C
ATOM	245	O	LEU A 36	24.453	-9.695	-18.094	1.00	97.88	O
ATOM	246	CG	LEU A 36	21.078	-9.547	-16.969	1.00	97.88	C
ATOM	247	CD1	LEU A 36	20.234	-8.281	-16.906	1.00	97.88	C
ATOM	248	CD2	LEU A 36	20.312	-10.734	-16.375	1.00	97.88	C
ATOM	249	N	LEU A 37	23.984	-7.594	-17.734	1.00	97.31	N
ATOM	250	CA	LEU A 37	25.203	-7.355	-16.969	1.00	97.31	C
ATOM	251	C	LEU A 37	24.938	-7.531	-15.469	1.00	97.31	C
ATOM	252	CB	LEU A 37	25.734	-5.949	-17.234	1.00	97.31	C
ATOM	253	O	LEU A 37	25.766	-8.109	-14.758	1.00	97.31	O
ATOM	254	CG	LEU A 37	26.266	-5.688	-18.656	1.00	97.31	C
ATOM	255	CD1	LEU A 37	26.672	-4.227	-18.797	1.00	97.31	C
ATOM	256	CD2	LEU A 37	27.438	-6.613	-18.969	1.00	97.31	C
ATOM	257	N	ARG A 38	23.734	-6.988	-15.125	1.00	96.62	N
ATOM	258	CA	ARG A 38	23.406	-6.973	-13.703	1.00	96.62	C
ATOM	259	C	ARG A 38	21.891	-6.977	-13.484	1.00	96.62	C
ATOM	260	CB	ARG A 38	24.031	-5.750	-13.023	1.00	96.62	C
ATOM	261	O	ARG A 38	21.156	-6.359	-14.250	1.00	96.62	O
ATOM	262	CG	ARG A 38	23.797	-5.699	-11.523	1.00	96.62	C
ATOM	263	CD	ARG A 38	24.438	-4.461	-10.898	1.00	96.62	C
ATOM	264	NE	ARG A 38	24.219	-4.422	-9.453	1.00	96.62	N
ATOM	265	NH1	ARG A 38	25.391	-2.449	-9.133	1.00	96.62	N
ATOM	266	NH2	ARG A 38	24.438	-3.529	-7.344	1.00	96.62	N
ATOM	267	CZ	ARG A 38	24.688	-3.467	-8.648	1.00	96.62	C
ATOM	268	N	ARG A 39	21.484	-7.730	-12.375	1.00	98.12	N
ATOM	269	CA	ARG A 39	20.078	-7.773	-11.977	1.00	98.12	C
ATOM	270	C	ARG A 39	19.938	-7.660	-10.461	1.00	98.12	C
ATOM	271	CB	ARG A 39	19.422	-9.062	-12.461	1.00	98.12	C
ATOM	272	O	ARG A 39	20.656	-8.336	-9.711	1.00	98.12	O
ATOM	273	CG	ARG A 39	17.953	-9.195	-12.078	1.00	98.12	C
ATOM	274	CD	ARG A 39	17.328	-10.445	-12.672	1.00	98.12	C
ATOM	275	NE	ARG A 39	15.883	-10.484	-12.445	1.00	98.12	N
ATOM	276	NH1	ARG A 39	15.516	-12.383	-13.719	1.00	98.12	N
ATOM	277	NH2	ARG A 39	13.758	-11.344	-12.672	1.00	98.12	N
ATOM	278	CZ	ARG A 39	15.055	-11.398	-12.945	1.00	98.12	C
ATOM	279	N	GLU A 40	19.062	-6.785	-10.047	1.00	98.00	N
ATOM	280	CA	GLU A 40	18.719	-6.625	-8.633	1.00	98.00	C
ATOM	281	C	GLU A 40	17.219	-6.727	-8.422	1.00	98.00	C
ATOM	282	CB	GLU A 40	19.250	-5.289	-8.102	1.00	98.00	C
ATOM	283	O	GLU A 40	16.438	-6.281	-9.258	1.00	98.00	O
ATOM	284	CG	GLU A 40	20.750	-5.137	-8.195	1.00	98.00	C

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ATOM	285	CD	GLU	A	40	21.250	-3.791	-7.699	1.00	98.00	C
ATOM	286	OE1	GLU	A	40	21.719	-3.707	-6.543	1.00	98.00	O
ATOM	287	OE2	GLU	A	40	21.172	-2.811	-8.477	1.00	98.00	O
ATOM	288	N	GLU	A	41	16.953	-7.301	-7.238	1.00	98.25	N
ATOM	289	CA	GLU	A	41	15.539	-7.457	-6.918	1.00	98.25	C
ATOM	290	C	GLU	A	41	15.266	-7.129	-5.449	1.00	98.25	C
ATOM	291	CB	GLU	A	41	15.062	-8.875	-7.234	1.00	98.25	C
ATOM	292	O	GLU	A	41	16.047	-7.496	-4.570	1.00	98.25	O
ATOM	293	CG	GLU	A	41	13.578	-9.102	-6.988	1.00	98.25	C
ATOM	294	CD	GLU	A	41	13.125	-10.516	-7.316	1.00	98.25	C
ATOM	295	OE1	GLU	A	41	11.953	-10.859	-7.031	1.00	98.25	O
ATOM	296	OE2	GLU	A	41	13.945	-11.281	-7.863	1.00	98.25	O
ATOM	297	N	TRP	A	42	14.148	-6.414	-5.262	1.00	98.44	N
ATOM	298	CA	TRP	A	42	13.672	-6.086	-3.920	1.00	98.44	C
ATOM	299	C	TRP	A	42	12.211	-6.477	-3.754	1.00	98.44	C
ATOM	300	CB	TRP	A	42	13.852	-4.594	-3.635	1.00	98.44	C
ATOM	301	O	TRP	A	42	11.398	-6.277	-4.664	1.00	98.44	O
ATOM	302	CG	TRP	A	42	15.273	-4.129	-3.693	1.00	98.44	C
ATOM	303	CD1	TRP	A	42	16.156	-4.039	-2.652	1.00	98.44	C
ATOM	304	CD2	TRP	A	42	15.984	-3.684	-4.855	1.00	98.44	C
ATOM	305	CE2	TRP	A	42	17.297	-3.342	-4.445	1.00	98.44	C
ATOM	306	CE3	TRP	A	42	15.641	-3.543	-6.207	1.00	98.44	C
ATOM	307	NE1	TRP	A	42	17.375	-3.568	-3.098	1.00	98.44	N
ATOM	308	CH2	TRP	A	42	17.891	-2.736	-6.652	1.00	98.44	C
ATOM	309	CZ2	TRP	A	42	18.250	-2.867	-5.336	1.00	98.44	C
ATOM	310	CZ3	TRP	A	42	16.594	-3.068	-7.094	1.00	98.44	C
ATOM	311	N	GLU	A	43	11.938	-7.098	-2.527	1.00	98.31	N
ATOM	312	CA	GLU	A	43	10.562	-7.461	-2.215	1.00	98.31	C
ATOM	313	C	GLU	A	43	10.164	-6.984	-0.821	1.00	98.31	C
ATOM	314	CB	GLU	A	43	10.375	-8.977	-2.322	1.00	98.31	C
ATOM	315	O	GLU	A	43	11.016	-6.883	0.070	1.00	98.31	O
ATOM	316	CG	GLU	A	43	10.570	-9.523	-3.729	1.00	98.31	C
ATOM	317	CD	GLU	A	43	10.344	-11.023	-3.828	1.00	98.31	C
ATOM	318	OE1	GLU	A	43	10.188	-11.539	-4.957	1.00	98.31	O
ATOM	319	OE2	GLU	A	43	10.328	-11.688	-2.770	1.00	98.31	O
ATOM	320	N	HIS	A	44	8.922	-6.613	-0.689	1.00	97.31	N
ATOM	321	CA	HIS	A	44	8.359	-6.188	0.587	1.00	97.31	C
ATOM	322	C	HIS	A	44	6.918	-6.664	0.737	1.00	97.31	C
ATOM	323	CB	HIS	A	44	8.430	-4.668	0.725	1.00	97.31	C
ATOM	324	O	HIS	A	44	6.125	-6.547	-0.197	1.00	97.31	O
ATOM	325	CG	HIS	A	44	7.770	-4.145	1.961	1.00	97.31	C
ATOM	326	CD2	HIS	A	44	6.578	-3.529	2.137	1.00	97.31	C
ATOM	327	ND1	HIS	A	44	8.352	-4.230	3.209	1.00	97.31	N
ATOM	328	CE1	HIS	A	44	7.539	-3.689	4.102	1.00	97.31	C
ATOM	329	NE2	HIS	A	44	6.457	-3.256	3.477	1.00	97.31	N
ATOM	330	N	GLU	A	45	6.727	-7.258	1.990	1.00	98.19	N
ATOM	331	CA	GLU	A	45	5.355	-7.625	2.320	1.00	98.19	C
ATOM	332	C	GLU	A	45	4.961	-7.109	3.701	1.00	98.19	C
ATOM	333	CB	GLU	A	45	5.172	-9.148	2.256	1.00	98.19	C
ATOM	334	O	GLU	A	45	5.754	-7.168	4.641	1.00	98.19	O
ATOM	335	CG	GLU	A	45	3.732	-9.602	2.434	1.00	98.19	C
ATOM	336	CD	GLU	A	45	3.547	-11.094	2.234	1.00	98.19	C
ATOM	337	OE1	GLU	A	45	2.455	-11.617	2.547	1.00	98.19	O

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ATOM	338	OE2 GLU A 45	4.504	-11.750	1.762	1.00	98.19	O
ATOM	339	N LYS A 46	3.811	-6.625	3.773	1.00	97.88	N
ATOM	340	CA LYS A 46	3.324	-6.070	5.031	1.00	97.88	C
ATOM	341	C LYS A 46	1.817	-6.262	5.172	1.00	97.88	C
ATOM	342	CB LYS A 46	3.678	-4.586	5.137	1.00	97.88	C
ATOM	343	O LYS A 46	1.089	-6.242	4.180	1.00	97.88	O
ATOM	344	CG LYS A 46	3.330	-3.959	6.477	1.00	97.88	C
ATOM	345	CD LYS A 46	3.766	-2.502	6.543	1.00	97.88	C
ATOM	346	CE LYS A 46	3.451	-1.884	7.898	1.00	97.88	C
ATOM	347	NZ LYS A 46	3.885	-0.456	7.973	1.00	97.88	N
ATOM	348	N GLU A 47	1.342	-6.477	6.367	1.00	98.25	N
ATOM	349	CA GLU A 47	-0.078	-6.535	6.699	1.00	98.25	C
ATOM	350	C GLU A 47	-0.411	-5.605	7.863	1.00	98.25	C
ATOM	351	CB GLU A 47	-0.490	-7.973	7.043	1.00	98.25	C
ATOM	352	O GLU A 47	0.276	-5.605	8.883	1.00	98.25	O
ATOM	353	CG GLU A 47	-1.971	-8.125	7.355	1.00	98.25	C
ATOM	354	CD GLU A 47	-2.373	-9.562	7.645	1.00	98.25	C
ATOM	355	OE1 GLU A 47	-3.160	-9.797	8.594	1.00	98.25	O
ATOM	356	OE2 GLU A 47	-1.899	-10.469	6.918	1.00	98.25	O
ATOM	357	N GLU A 48	-1.464	-4.836	7.680	1.00	98.12	N
ATOM	358	CA GLU A 48	-1.909	-3.895	8.703	1.00	98.12	C
ATOM	359	C GLU A 48	-3.402	-4.051	8.984	1.00	98.12	C
ATOM	360	CB GLU A 48	-1.601	-2.455	8.281	1.00	98.12	C
ATOM	361	O GLU A 48	-4.199	-4.215	8.062	1.00	98.12	O
ATOM	362	CG GLU A 48	-0.114	-2.154	8.164	1.00	98.12	C
ATOM	363	CD GLU A 48	0.176	-0.740	7.688	1.00	98.12	C
ATOM	364	OE1 GLU A 48	0.409	0.151	8.531	1.00	98.12	O
ATOM	365	OE2 GLU A 48	0.170	-0.522	6.453	1.00	98.12	O
ATOM	366	N LYS A 49	-3.691	-3.961	10.273	1.00	97.94	N
ATOM	367	CA LYS A 49	-5.090	-4.016	10.688	1.00	97.94	C
ATOM	368	C LYS A 49	-5.500	-2.730	11.398	1.00	97.94	C
ATOM	369	CB LYS A 49	-5.328	-5.219	11.602	1.00	97.94	C
ATOM	370	O LYS A 49	-4.785	-2.244	12.281	1.00	97.94	O
ATOM	371	CG LYS A 49	-5.137	-6.566	10.922	1.00	97.94	C
ATOM	372	CD LYS A 49	-5.430	-7.723	11.867	1.00	97.94	C
ATOM	373	CE LYS A 49	-5.195	-9.070	11.195	1.00	97.94	C
ATOM	374	NZ LYS A 49	-5.496	-10.203	12.117	1.00	97.94	N
ATOM	375	N LYS A 50	-6.641	-2.178	10.945	1.00	97.56	N
ATOM	376	CA LYS A 50	-7.184	-0.966	11.555	1.00	97.56	C
ATOM	377	C LYS A 50	-8.672	-1.125	11.867	1.00	97.56	C
ATOM	378	CB LYS A 50	-6.965	0.240	10.641	1.00	97.56	C
ATOM	379	O LYS A 50	-9.375	-1.868	11.180	1.00	97.56	O
ATOM	380	CG LYS A 50	-5.504	0.512	10.320	1.00	97.56	C
ATOM	381	CD LYS A 50	-4.754	1.061	11.523	1.00	97.56	C
ATOM	382	CE LYS A 50	-3.330	1.464	11.164	1.00	97.56	C
ATOM	383	NZ LYS A 50	-2.578	1.964	12.352	1.00	97.56	N
ATOM	384	N GLU A 51	-9.023	-0.449	12.938	1.00	97.19	N
ATOM	385	CA GLU A 51	-10.438	-0.540	13.297	1.00	97.19	C
ATOM	386	C GLU A 51	-10.961	0.797	13.812	1.00	97.19	C
ATOM	387	CB GLU A 51	-10.656	-1.632	14.352	1.00	97.19	C
ATOM	388	O GLU A 51	-10.203	1.592	14.375	1.00	97.19	O
ATOM	389	CG GLU A 51	-10.070	-1.299	15.711	1.00	97.19	C
ATOM	390	CD GLU A 51	-10.312	-2.383	16.750	1.00	97.19	C

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ATOM	391	OE1 GLU A 51	-10.031	-2.150	17.953	1.00	97.19	O
ATOM	392	OE2 GLU A 51	-10.781	-3.473	16.359	1.00	97.19	O
ATOM	393	N LYS A 52	-12.211	0.955	13.461	1.00	96.31	N
ATOM	394	CA LYS A 52	-12.922	2.125	13.969	1.00	96.31	C
ATOM	395	C LYS A 52	-14.328	1.758	14.438	1.00	96.31	C
ATOM	396	CB LYS A 52	-12.984	3.223	12.906	1.00	96.31	C
ATOM	397	O LYS A 52	-15.031	0.995	13.766	1.00	96.31	O
ATOM	398	CG LYS A 52	-13.516	4.551	13.422	1.00	96.31	C
ATOM	399	CD LYS A 52	-13.281	5.672	12.422	1.00	96.31	C
ATOM	400	CE LYS A 52	-13.688	7.027	12.992	1.00	96.31	C
ATOM	401	NZ LYS A 52	-13.414	8.133	12.023	1.00	96.31	N
ATOM	402	N TYR A 53	-14.703	2.270	15.609	1.00	95.12	N
ATOM	403	CA TYR A 53	-16.000	2.025	16.219	1.00	95.12	C
ATOM	404	C TYR A 53	-16.641	3.328	16.672	1.00	95.12	C
ATOM	405	CB TYR A 53	-15.875	1.057	17.391	1.00	95.12	C
ATOM	406	O TYR A 53	-16.094	4.035	17.516	1.00	95.12	O
ATOM	407	CG TYR A 53	-17.203	0.670	18.016	1.00	95.12	C
ATOM	408	CD1 TYR A 53	-17.562	1.134	19.266	1.00	95.12	C
ATOM	409	CD2 TYR A 53	-18.094	-0.160	17.328	1.00	95.12	C
ATOM	410	CE1 TYR A 53	-18.781	0.778	19.844	1.00	95.12	C
ATOM	411	CE2 TYR A 53	-19.312	-0.521	17.891	1.00	95.12	C
ATOM	412	OH TYR A 53	-20.859	-0.403	19.703	1.00	95.12	O
ATOM	413	CZ TYR A 53	-19.641	-0.048	19.141	1.00	95.12	C
ATOM	414	N GLU A 54	-17.781	3.562	16.094	1.00	95.69	N
ATOM	415	CA GLU A 54	-18.328	4.879	16.406	1.00	95.69	C
ATOM	416	C GLU A 54	-19.859	4.836	16.438	1.00	95.69	C
ATOM	417	CB GLU A 54	-17.859	5.914	15.375	1.00	95.69	C
ATOM	418	O GLU A 54	-20.484	4.086	15.672	1.00	95.69	O
ATOM	419	CG GLU A 54	-18.141	7.352	15.781	1.00	95.69	C
ATOM	420	CD GLU A 54	-17.516	8.375	14.852	1.00	95.69	C
ATOM	421	OE1 GLU A 54	-17.953	9.547	14.844	1.00	95.69	O
ATOM	422	OE2 GLU A 54	-16.562	8.000	14.117	1.00	95.69	O
ATOM	423	N GLU A 55	-20.469	5.648	17.359	1.00	95.00	N
ATOM	424	CA GLU A 55	-21.906	5.887	17.344	1.00	95.00	C
ATOM	425	C GLU A 55	-22.281	6.859	16.234	1.00	95.00	C
ATOM	426	CB GLU A 55	-22.375	6.422	18.703	1.00	95.00	C
ATOM	427	O GLU A 55	-21.703	7.938	16.109	1.00	95.00	O
ATOM	428	CG GLU A 55	-23.875	6.648	18.781	1.00	95.00	C
ATOM	429	CD GLU A 55	-24.328	7.254	20.109	1.00	95.00	C
ATOM	430	OE1 GLU A 55	-25.406	7.891	20.141	1.00	95.00	O
ATOM	431	OE2 GLU A 55	-23.594	7.094	21.109	1.00	95.00	O
ATOM	432	N VAL A 56	-23.281	6.438	15.430	1.00	93.00	N
ATOM	433	CA VAL A 56	-23.625	7.262	14.266	1.00	93.00	C
ATOM	434	C VAL A 56	-25.141	7.309	14.086	1.00	93.00	C
ATOM	435	CB VAL A 56	-22.938	6.727	12.984	1.00	93.00	C
ATOM	436	O VAL A 56	-25.859	6.504	14.672	1.00	93.00	O
ATOM	437	CG1 VAL A 56	-21.422	6.824	13.094	1.00	93.00	C
ATOM	438	CG2 VAL A 56	-23.375	5.285	12.719	1.00	93.00	C
ATOM	439	N SER A 57	-25.469	8.297	13.367	1.00	91.44	N
ATOM	440	CA SER A 57	-26.828	8.258	12.836	1.00	91.44	C
ATOM	441	C SER A 57	-26.906	7.383	11.586	1.00	91.44	C
ATOM	442	CB SER A 57	-27.328	9.664	12.516	1.00	91.44	C
ATOM	443	O SER A 57	-25.906	7.184	10.898	1.00	91.44	O

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ATOM	444	OG SER A 57	-26.641	10.188	11.383	1.00	91.44	O
ATOM	445	N PRO A 58	-28.094	6.812	11.281	1.00	84.06	N
ATOM	446	CA PRO A 58	-28.234	5.977	10.086	1.00	84.06	C
ATOM	447	C PRO A 58	-27.812	6.691	8.812	1.00	84.06	C
ATOM	448	CB PRO A 58	-29.734	5.676	10.062	1.00	84.06	C
ATOM	449	O PRO A 58	-27.281	6.059	7.895	1.00	84.06	O
ATOM	450	CG PRO A 58	-30.172	5.766	11.484	1.00	84.06	C
ATOM	451	CD PRO A 58	-29.344	6.812	12.172	1.00	84.06	C
ATOM	452	N GLU A 59	-27.938	7.984	8.781	1.00	87.25	N
ATOM	453	CA GLU A 59	-27.625	8.766	7.590	1.00	87.25	C
ATOM	454	C GLU A 59	-26.125	8.984	7.445	1.00	87.25	C
ATOM	455	CB GLU A 59	-28.359	10.117	7.629	1.00	87.25	C
ATOM	456	O GLU A 59	-25.609	9.117	6.328	1.00	87.25	O
ATOM	457	CG GLU A 59	-29.875	9.992	7.602	1.00	87.25	C
ATOM	458	CD GLU A 59	-30.562	10.930	8.578	1.00	87.25	C
ATOM	459	OE1 GLU A 59	-31.812	10.875	8.703	1.00	87.25	O
ATOM	460	OE2 GLU A 59	-29.859	11.734	9.227	1.00	87.25	O
ATOM	461	N GLU A 60	-25.422	8.992	8.594	1.00	91.69	N
ATOM	462	CA GLU A 60	-24.000	9.312	8.570	1.00	91.69	C
ATOM	463	C GLU A 60	-23.156	8.047	8.414	1.00	91.69	C
ATOM	464	CB GLU A 60	-23.594	10.062	9.844	1.00	91.69	C
ATOM	465	O GLU A 60	-21.953	8.133	8.172	1.00	91.69	O
ATOM	466	CG GLU A 60	-24.188	11.461	9.953	1.00	91.69	C
ATOM	467	CD GLU A 60	-23.828	12.164	11.250	1.00	91.69	C
ATOM	468	OE1 GLU A 60	-23.672	13.414	11.242	1.00	91.69	O
ATOM	469	OE2 GLU A 60	-23.688	11.469	12.273	1.00	91.69	O
ATOM	470	N LYS A 61	-23.781	6.926	8.523	1.00	88.94	N
ATOM	471	CA LYS A 61	-23.078	5.652	8.578	1.00	88.94	C
ATOM	472	C LYS A 61	-22.172	5.480	7.359	1.00	88.94	C
ATOM	473	CB LYS A 61	-24.062	4.488	8.664	1.00	88.94	C
ATOM	474	O LYS A 61	-20.984	5.164	7.500	1.00	88.94	O
ATOM	475	CG LYS A 61	-23.422	3.115	8.602	1.00	88.94	C
ATOM	476	CD LYS A 61	-24.453	2.008	8.484	1.00	88.94	C
ATOM	477	CE LYS A 61	-23.812	0.663	8.188	1.00	88.94	C
ATOM	478	NZ LYS A 61	-24.828	-0.410	7.988	1.00	88.94	N
ATOM	479	N GLU A 62	-22.688	5.766	6.195	1.00	91.62	N
ATOM	480	CA GLU A 62	-21.953	5.559	4.953	1.00	91.62	C
ATOM	481	C GLU A 62	-20.797	6.547	4.820	1.00	91.62	C
ATOM	482	CB GLU A 62	-22.891	5.684	3.748	1.00	91.62	C
ATOM	483	O GLU A 62	-19.719	6.184	4.352	1.00	91.62	O
ATOM	484	CG GLU A 62	-23.859	4.520	3.602	1.00	91.62	C
ATOM	485	CD GLU A 62	-23.172	3.180	3.400	1.00	91.62	C
ATOM	486	OE1 GLU A 62	-23.750	2.133	3.764	1.00	91.62	O
ATOM	487	OE2 GLU A 62	-22.031	3.180	2.875	1.00	91.62	O
ATOM	488	N GLU A 63	-20.969	7.727	5.246	1.00	93.12	N
ATOM	489	CA GLU A 63	-19.938	8.758	5.172	1.00	93.12	C
ATOM	490	C GLU A 63	-18.750	8.414	6.066	1.00	93.12	C
ATOM	491	CB GLU A 63	-20.516	10.125	5.559	1.00	93.12	C
ATOM	492	O GLU A 63	-17.594	8.617	5.684	1.00	93.12	O
ATOM	493	CG GLU A 63	-19.547	11.281	5.340	1.00	93.12	C
ATOM	494	CD GLU A 63	-20.141	12.633	5.684	1.00	93.12	C
ATOM	495	OE1 GLU A 63	-19.406	13.641	5.684	1.00	93.12	O
ATOM	496	OE2 GLU A 63	-21.359	12.688	5.961	1.00	93.12	O

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ATOM	497	N	VAL A 64	-19.047	7.863	7.223	1.00	92.31	N
ATOM	498	CA	VAL A 64	-18.000	7.508	8.180	1.00	92.31	C
ATOM	499	C	VAL A 64	-17.156	6.359	7.621	1.00	92.31	C
ATOM	500	CB	VAL A 64	-18.594	7.121	9.547	1.00	92.31	C
ATOM	501	O	VAL A 64	-15.930	6.383	7.699	1.00	92.31	O
ATOM	502	CG1	VAL A 64	-17.516	6.520	10.453	1.00	92.31	C
ATOM	503	CG2	VAL A 64	-19.234	8.336	10.219	1.00	92.31	C
ATOM	504	N	ILE A 65	-17.797	5.414	6.988	1.00	93.94	N
ATOM	505	CA	ILE A 65	-17.125	4.250	6.422	1.00	93.94	C
ATOM	506	C	ILE A 65	-16.219	4.684	5.266	1.00	93.94	C
ATOM	507	CB	ILE A 65	-18.141	3.193	5.938	1.00	93.94	C
ATOM	508	O	ILE A 65	-15.047	4.316	5.215	1.00	93.94	O
ATOM	509	CG1	ILE A 65	-18.922	2.625	7.125	1.00	93.94	C
ATOM	510	CG2	ILE A 65	-17.438	2.076	5.164	1.00	93.94	C
ATOM	511	CD1	ILE A 65	-20.141	1.797	6.730	1.00	93.94	C
ATOM	512	N	LEU A 66	-16.766	5.531	4.391	1.00	95.62	N
ATOM	513	CA	LEU A 66	-16.031	5.988	3.217	1.00	95.62	C
ATOM	514	C	LEU A 66	-14.828	6.832	3.619	1.00	95.62	C
ATOM	515	CB	LEU A 66	-16.953	6.793	2.293	1.00	95.62	C
ATOM	516	O	LEU A 66	-13.734	6.668	3.070	1.00	95.62	O
ATOM	517	CG	LEU A 66	-17.953	5.992	1.471	1.00	95.62	C
ATOM	518	CD1	LEU A 66	-18.953	6.926	0.788	1.00	95.62	C
ATOM	519	CD2	LEU A 66	-17.234	5.125	0.443	1.00	95.62	C
ATOM	520	N	LYS A 67	-15.047	7.680	4.559	1.00	95.94	N
ATOM	521	CA	LYS A 67	-13.961	8.547	5.012	1.00	95.94	C
ATOM	522	C	LYS A 67	-12.836	7.734	5.648	1.00	95.94	C
ATOM	523	CB	LYS A 67	-14.492	9.578	6.012	1.00	95.94	C
ATOM	524	O	LYS A 67	-11.664	7.949	5.348	1.00	95.94	O
ATOM	525	CG	LYS A 67	-13.453	10.609	6.438	1.00	95.94	C
ATOM	526	CD	LYS A 67	-14.039	11.625	7.406	1.00	95.94	C
ATOM	527	CE	LYS A 67	-12.992	12.617	7.891	1.00	95.94	C
ATOM	528	NZ	LYS A 67	-13.555	13.602	8.852	1.00	95.94	N
ATOM	529	N	PHE A 68	-13.211	6.824	6.512	1.00	96.25	N
ATOM	530	CA	PHE A 68	-12.227	5.984	7.184	1.00	96.25	C
ATOM	531	C	PHE A 68	-11.461	5.129	6.180	1.00	96.25	C
ATOM	532	CB	PHE A 68	-12.906	5.090	8.227	1.00	96.25	C
ATOM	533	O	PHE A 68	-10.234	5.059	6.223	1.00	96.25	O
ATOM	534	CG	PHE A 68	-11.945	4.219	8.992	1.00	96.25	C
ATOM	535	CD1	PHE A 68	-12.133	2.842	9.055	1.00	96.25	C
ATOM	536	CD2	PHE A 68	-10.859	4.773	9.656	1.00	96.25	C
ATOM	537	CE1	PHE A 68	-11.250	2.031	9.758	1.00	96.25	C
ATOM	538	CE2	PHE A 68	-9.977	3.969	10.367	1.00	96.25	C
ATOM	539	CZ	PHE A 68	-10.172	2.598	10.422	1.00	96.25	C
ATOM	540	N	PHE A 69	-12.148	4.508	5.270	1.00	97.00	N
ATOM	541	CA	PHE A 69	-11.539	3.676	4.238	1.00	97.00	C
ATOM	542	C	PHE A 69	-10.586	4.496	3.379	1.00	97.00	C
ATOM	543	CB	PHE A 69	-12.609	3.027	3.357	1.00	97.00	C
ATOM	544	O	PHE A 69	-9.445	4.086	3.145	1.00	97.00	O
ATOM	545	CG	PHE A 69	-12.055	2.223	2.215	1.00	97.00	C
ATOM	546	CD1	PHE A 69	-12.070	2.727	0.920	1.00	97.00	C
ATOM	547	CD2	PHE A 69	-11.523	0.961	2.436	1.00	97.00	C
ATOM	548	CE1	PHE A 69	-11.555	1.984	-0.140	1.00	97.00	C
ATOM	549	CE2	PHE A 69	-11.008	0.212	1.381	1.00	97.00	C

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ATOM	550	CZ	PHE	A	69	-11.023	0.726	0.094	1.00	97.00	C
ATOM	551	N	LYS	A	70	-11.047	5.586	2.875	1.00	97.69	N
ATOM	552	CA	LYS	A	70	-10.242	6.461	2.033	1.00	97.69	C
ATOM	553	C	LYS	A	70	-8.953	6.867	2.742	1.00	97.69	C
ATOM	554	CB	LYS	A	70	-11.031	7.703	1.632	1.00	97.69	C
ATOM	555	O	LYS	A	70	-7.867	6.793	2.162	1.00	97.69	O
ATOM	556	CG	LYS	A	70	-10.258	8.672	0.753	1.00	97.69	C
ATOM	557	CD	LYS	A	70	-11.102	9.891	0.386	1.00	97.69	C
ATOM	558	CE	LYS	A	70	-10.305	10.898	-0.431	1.00	97.69	C
ATOM	559	NZ	LYS	A	70	-11.102	12.125	-0.733	1.00	97.69	N
ATOM	560	N	GLU	A	71	-9.023	7.309	3.930	1.00	97.94	N
ATOM	561	CA	GLU	A	71	-7.871	7.758	4.699	1.00	97.94	C
ATOM	562	C	GLU	A	71	-6.840	6.641	4.852	1.00	97.94	C
ATOM	563	CB	GLU	A	71	-8.305	8.258	6.082	1.00	97.94	C
ATOM	564	O	GLU	A	71	-5.648	6.852	4.617	1.00	97.94	O
ATOM	565	CG	GLU	A	71	-9.016	9.609	6.051	1.00	97.94	C
ATOM	566	CD	GLU	A	71	-9.492	10.062	7.418	1.00	97.94	C
ATOM	567	OE1	GLU	A	71	-10.047	11.180	7.523	1.00	97.94	O
ATOM	568	OE2	GLU	A	71	-9.305	9.297	8.391	1.00	97.94	O
ATOM	569	N	GLU	A	72	-7.352	5.465	5.184	1.00	98.25	N
ATOM	570	CA	GLU	A	72	-6.438	4.352	5.414	1.00	98.25	C
ATOM	571	C	GLU	A	72	-5.824	3.859	4.109	1.00	98.25	C
ATOM	572	CB	GLU	A	72	-7.160	3.199	6.121	1.00	98.25	C
ATOM	573	O	GLU	A	72	-4.648	3.500	4.066	1.00	98.25	O
ATOM	574	CG	GLU	A	72	-7.586	3.523	7.547	1.00	98.25	C
ATOM	575	CD	GLU	A	72	-6.438	4.004	8.422	1.00	98.25	C
ATOM	576	OE1	GLU	A	72	-6.566	5.078	9.055	1.00	98.25	O
ATOM	577	OE2	GLU	A	72	-5.402	3.307	8.469	1.00	98.25	O
ATOM	578	N	LEU	A	73	-6.637	3.814	3.059	1.00	97.69	N
ATOM	579	CA	LEU	A	73	-6.129	3.404	1.755	1.00	97.69	C
ATOM	580	C	LEU	A	73	-5.082	4.387	1.242	1.00	97.69	C
ATOM	581	CB	LEU	A	73	-7.277	3.289	0.747	1.00	97.69	C
ATOM	582	O	LEU	A	73	-4.047	3.979	0.710	1.00	97.69	O
ATOM	583	CG	LEU	A	73	-6.902	2.795	-0.652	1.00	97.69	C
ATOM	584	CD1	LEU	A	73	-6.195	1.447	-0.566	1.00	97.69	C
ATOM	585	CD2	LEU	A	73	-8.141	2.697	-1.533	1.00	97.69	C
ATOM	586	N	GLU	A	74	-5.258	5.676	1.339	1.00	98.19	N
ATOM	587	CA	GLU	A	74	-4.301	6.691	0.916	1.00	98.19	C
ATOM	588	C	GLU	A	74	-2.980	6.559	1.669	1.00	98.19	C
ATOM	589	CB	GLU	A	74	-4.883	8.094	1.119	1.00	98.19	C
ATOM	590	O	GLU	A	74	-1.907	6.715	1.084	1.00	98.19	O
ATOM	591	CG	GLU	A	74	-5.945	8.477	0.097	1.00	98.19	C
ATOM	592	CD	GLU	A	74	-6.520	9.867	0.316	1.00	98.19	C
ATOM	593	OE1	GLU	A	74	-7.000	10.484	-0.660	1.00	98.19	O
ATOM	594	OE2	GLU	A	74	-6.488	10.336	1.475	1.00	98.19	O
ATOM	595	N	LYS	A	75	-3.064	6.316	2.941	1.00	97.88	N
ATOM	596	CA	LYS	A	75	-1.855	6.105	3.732	1.00	97.88	C
ATOM	597	C	LYS	A	75	-1.075	4.895	3.227	1.00	97.88	C
ATOM	598	CB	LYS	A	75	-2.205	5.922	5.211	1.00	97.88	C
ATOM	599	O	LYS	A	75	0.152	4.941	3.119	1.00	97.88	O
ATOM	600	CG	LYS	A	75	-2.619	7.211	5.910	1.00	97.88	C
ATOM	601	CD	LYS	A	75	-2.957	6.965	7.375	1.00	97.88	C
ATOM	602	CE	LYS	A	75	-3.432	8.242	8.062	1.00	97.88	C

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ATOM	603	NZ	LYS	A	75	-3.834	7.988	9.477	1.00	97.88	N
ATOM	604	N	ALA	A	76	-1.811	3.855	2.947	1.00	97.50	N
ATOM	605	CA	ALA	A	76	-1.174	2.646	2.432	1.00	97.50	C
ATOM	606	C	ALA	A	76	-0.509	2.908	1.083	1.00	97.50	C
ATOM	607	CB	ALA	A	76	-2.195	1.520	2.307	1.00	97.50	C
ATOM	608	O	ALA	A	76	0.614	2.459	0.839	1.00	97.50	O
ATOM	609	N	LEU	A	77	-1.156	3.619	0.196	1.00	98.12	N
ATOM	610	CA	LEU	A	77	-0.613	3.938	-1.120	1.00	98.12	C
ATOM	611	C	LEU	A	77	0.601	4.852	-1.001	1.00	98.12	C
ATOM	612	CB	LEU	A	77	-1.681	4.598	-1.995	1.00	98.12	C
ATOM	613	O	LEU	A	77	1.539	4.754	-1.795	1.00	98.12	O
ATOM	614	CG	LEU	A	77	-2.816	3.695	-2.479	1.00	98.12	C
ATOM	615	CD1	LEU	A	77	-3.869	4.516	-3.217	1.00	98.12	C
ATOM	616	CD2	LEU	A	77	-2.273	2.586	-3.371	1.00	98.12	C
ATOM	617	N	GLU	A	78	0.548	5.688	-0.027	1.00	98.00	N
ATOM	618	CA	GLU	A	78	1.703	6.547	0.207	1.00	98.00	C
ATOM	619	C	GLU	A	78	2.916	5.738	0.651	1.00	98.00	C
ATOM	620	CB	GLU	A	78	1.374	7.617	1.252	1.00	98.00	C
ATOM	621	O	GLU	A	78	4.051	6.051	0.284	1.00	98.00	O
ATOM	622	CG	GLU	A	78	2.453	8.680	1.407	1.00	98.00	C
ATOM	623	CD	GLU	A	78	2.719	9.453	0.128	1.00	98.00	C
ATOM	624	OE1	GLU	A	78	3.855	9.945	-0.060	1.00	98.00	O
ATOM	625	OE2	GLU	A	78	1.781	9.578	-0.691	1.00	98.00	O
ATOM	626	N	GLU	A	79	2.707	4.770	1.423	1.00	97.69	N
ATOM	627	CA	GLU	A	79	3.789	3.871	1.819	1.00	97.69	C
ATOM	628	C	GLU	A	79	4.359	3.129	0.615	1.00	97.69	C
ATOM	629	CB	GLU	A	79	3.299	2.871	2.871	1.00	97.69	C
ATOM	630	O	GLU	A	79	5.570	2.922	0.524	1.00	97.69	O
ATOM	631	CG	GLU	A	79	3.016	3.496	4.230	1.00	97.69	C
ATOM	632	CD	GLU	A	79	2.514	2.496	5.258	1.00	97.69	C
ATOM	633	OE1	GLU	A	79	2.168	2.908	6.387	1.00	97.69	O
ATOM	634	OE2	GLU	A	79	2.467	1.288	4.930	1.00	97.69	O
ATOM	635	N	VAL	A	80	3.441	2.713	-0.259	1.00	98.12	N
ATOM	636	CA	VAL	A	80	3.863	2.072	-1.501	1.00	98.12	C
ATOM	637	C	VAL	A	80	4.738	3.031	-2.305	1.00	98.12	C
ATOM	638	CB	VAL	A	80	2.650	1.623	-2.348	1.00	98.12	C
ATOM	639	O	VAL	A	80	5.809	2.646	-2.789	1.00	98.12	O
ATOM	640	CG1	VAL	A	80	3.102	1.146	-3.727	1.00	98.12	C
ATOM	641	CG2	VAL	A	80	1.875	0.523	-1.625	1.00	98.12	C
ATOM	642	N	ARG	A	81	4.266	4.227	-2.344	1.00	98.50	N
ATOM	643	CA	ARG	A	81	5.023	5.258	-3.045	1.00	98.50	C
ATOM	644	C	ARG	A	81	6.426	5.398	-2.467	1.00	98.50	C
ATOM	645	CB	ARG	A	81	4.293	6.602	-2.975	1.00	98.50	C
ATOM	646	O	ARG	A	81	7.414	5.355	-3.203	1.00	98.50	O
ATOM	647	CG	ARG	A	81	5.039	7.746	-3.637	1.00	98.50	C
ATOM	648	CD	ARG	A	81	4.328	9.078	-3.439	1.00	98.50	C
ATOM	649	NE	ARG	A	81	4.945	10.141	-4.223	1.00	98.50	N
ATOM	650	NH1	ARG	A	81	3.477	11.789	-3.535	1.00	98.50	N
ATOM	651	NH2	ARG	A	81	5.164	12.289	-5.004	1.00	98.50	N
ATOM	652	CZ	ARG	A	81	4.527	11.406	-4.250	1.00	98.50	C
ATOM	653	N	ALA	A	82	6.520	5.594	-1.283	1.00	98.31	N
ATOM	654	CA	ALA	A	82	7.793	5.816	-0.603	1.00	98.31	C
ATOM	655	C	ALA	A	82	8.750	4.645	-0.828	1.00	98.31	C

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ATOM	656	CB	ALA	A	82	7.570	6.035	0.892	1.00	98.31	C
ATOM	657	O	ALA	A	82	9.938	4.848	-1.084	1.00	98.31	O
ATOM	658	N	TRP	A	83	8.195	3.498	-0.763	1.00	98.56	N
ATOM	659	CA	TRP	A	83	9.023	2.309	-0.926	1.00	98.56	C
ATOM	660	C	TRP	A	83	9.594	2.232	-2.338	1.00	98.56	C
ATOM	661	CB	TRP	A	83	8.211	1.044	-0.622	1.00	98.56	C
ATOM	662	O	TRP	A	83	10.789	1.981	-2.516	1.00	98.56	O
ATOM	663	CG	TRP	A	83	9.023	-0.219	-0.657	1.00	98.56	C
ATOM	664	CD1	TRP	A	83	9.711	-0.784	0.379	1.00	98.56	C
ATOM	665	CD2	TRP	A	83	9.227	-1.072	-1.788	1.00	98.56	C
ATOM	666	CE2	TRP	A	83	10.047	-2.137	-1.365	1.00	98.56	C
ATOM	667	CE3	TRP	A	83	8.789	-1.039	-3.119	1.00	98.56	C
ATOM	668	NE1	TRP	A	83	10.336	-1.938	-0.041	1.00	98.56	N
ATOM	669	CH2	TRP	A	83	10.008	-3.105	-3.523	1.00	98.56	C
ATOM	670	CZ2	TRP	A	83	10.445	-3.162	-2.227	1.00	98.56	C
ATOM	671	CZ3	TRP	A	83	9.180	-2.061	-3.975	1.00	98.56	C
ATOM	672	N	PHE	A	84	8.797	2.465	-3.418	1.00	98.25	N
ATOM	673	CA	PHE	A	84	9.250	2.412	-4.801	1.00	98.25	C
ATOM	674	C	PHE	A	84	10.258	3.520	-5.082	1.00	98.25	C
ATOM	675	CB	PHE	A	84	8.062	2.523	-5.766	1.00	98.25	C
ATOM	676	O	PHE	A	84	11.273	3.289	-5.738	1.00	98.25	O
ATOM	677	CG	PHE	A	84	7.488	1.196	-6.176	1.00	98.25	C
ATOM	678	CD1	PHE	A	84	8.016	0.502	-7.258	1.00	98.25	C
ATOM	679	CD2	PHE	A	84	6.422	0.642	-5.480	1.00	98.25	C
ATOM	680	CE1	PHE	A	84	7.484	-0.728	-7.645	1.00	98.25	C
ATOM	681	CE2	PHE	A	84	5.887	-0.586	-5.859	1.00	98.25	C
ATOM	682	CZ	PHE	A	84	6.418	-1.270	-6.941	1.00	98.25	C
ATOM	683	N	LEU	A	85	10.016	4.645	-4.551	1.00	98.38	N
ATOM	684	CA	LEU	A	85	10.922	5.762	-4.801	1.00	98.38	C
ATOM	685	C	LEU	A	85	12.281	5.516	-4.152	1.00	98.38	C
ATOM	686	CB	LEU	A	85	10.320	7.066	-4.270	1.00	98.38	C
ATOM	687	O	LEU	A	85	13.312	5.875	-4.719	1.00	98.38	O
ATOM	688	CG	LEU	A	85	9.062	7.570	-4.980	1.00	98.38	C
ATOM	689	CD1	LEU	A	85	8.617	8.906	-4.391	1.00	98.38	C
ATOM	690	CD2	LEU	A	85	9.312	7.703	-6.480	1.00	98.38	C
ATOM	691	N	ALA	A	86	12.258	4.867	-3.023	1.00	98.19	N
ATOM	692	CA	ALA	A	86	13.508	4.543	-2.344	1.00	98.19	C
ATOM	693	C	ALA	A	86	14.344	3.564	-3.166	1.00	98.19	C
ATOM	694	CB	ALA	A	86	13.227	3.967	-0.958	1.00	98.19	C
ATOM	695	O	ALA	A	86	15.562	3.701	-3.258	1.00	98.19	O
ATOM	696	N	GLN	A	87	13.539	2.648	-3.793	1.00	97.69	N
ATOM	697	CA	GLN	A	87	14.250	1.665	-4.602	1.00	97.69	C
ATOM	698	C	GLN	A	87	14.836	2.307	-5.855	1.00	97.69	C
ATOM	699	CB	GLN	A	87	13.328	0.510	-4.984	1.00	97.69	C
ATOM	700	O	GLN	A	87	15.984	2.033	-6.223	1.00	97.69	O
ATOM	701	CG	GLN	A	87	12.656	-0.161	-3.793	1.00	97.69	C
ATOM	702	CD	GLN	A	87	13.609	-0.388	-2.635	1.00	97.69	C
ATOM	703	NE2	GLN	A	87	13.188	-0.005	-1.436	1.00	97.69	N
ATOM	704	OE1	GLN	A	87	14.711	-0.905	-2.816	1.00	97.69	O
ATOM	705	N	VAL	A	88	14.102	3.137	-6.457	1.00	97.19	N
ATOM	706	CA	VAL	A	88	14.539	3.811	-7.676	1.00	97.19	C
ATOM	707	C	VAL	A	88	15.688	4.770	-7.352	1.00	97.19	C
ATOM	708	CB	VAL	A	88	13.383	4.574	-8.352	1.00	97.19	C

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ATOM	709	O	VAL A 88	16.641	4.883	-8.117	1.00	97.19	O
ATOM	710	CG1	VAL A 88	13.898	5.422	-9.516	1.00	97.19	C
ATOM	711	CG2	VAL A 88	12.312	3.600	-8.836	1.00	97.19	C
ATOM	712	N	GLU A 89	15.586	5.426	-6.262	1.00	97.38	N
ATOM	713	CA	GLU A 89	16.656	6.328	-5.828	1.00	97.38	C
ATOM	714	C	GLU A 89	17.969	5.590	-5.672	1.00	97.38	C
ATOM	715	CB	GLU A 89	16.266	7.016	-4.512	1.00	97.38	C
ATOM	716	O	GLU A 89	19.031	6.133	-5.984	1.00	97.38	O
ATOM	717	CG	GLU A 89	17.250	8.094	-4.078	1.00	97.38	C
ATOM	718	CD	GLU A 89	16.734	8.953	-2.932	1.00	97.38	C
ATOM	719	OE1	GLU A 89	17.250	10.070	-2.730	1.00	97.38	O
ATOM	720	OE2	GLU A 89	15.797	8.492	-2.230	1.00	97.38	O
ATOM	721	N	ARG A 90	17.953	4.371	-5.230	1.00	94.75	N
ATOM	722	CA	ARG A 90	19.141	3.531	-5.047	1.00	94.75	C
ATOM	723	C	ARG A 90	19.734	3.125	-6.387	1.00	94.75	C
ATOM	724	CB	ARG A 90	18.781	2.285	-4.227	1.00	94.75	C
ATOM	725	O	ARG A 90	20.953	3.012	-6.520	1.00	94.75	O
ATOM	726	CG	ARG A 90	18.438	2.578	-2.777	1.00	94.75	C
ATOM	727	CD	ARG A 90	18.031	1.315	-2.027	1.00	94.75	C
ATOM	728	NE	ARG A 90	17.688	1.602	-0.640	1.00	94.75	N
ATOM	729	NH1	ARG A 90	17.547	-0.615	-0.003	1.00	94.75	N
ATOM	730	NH2	ARG A 90	17.156	1.049	1.523	1.00	94.75	N
ATOM	731	CZ	ARG A 90	17.469	0.677	0.291	1.00	94.75	C
ATOM	732	N	VAL A 91	18.844	2.930	-7.344	1.00	93.69	N
ATOM	733	CA	VAL A 91	19.297	2.389	-8.617	1.00	93.69	C
ATOM	734	C	VAL A 91	19.656	3.531	-9.562	1.00	93.69	C
ATOM	735	CB	VAL A 91	18.219	1.486	-9.266	1.00	93.69	C
ATOM	736	O	VAL A 91	20.734	3.512	-10.180	1.00	93.69	O
ATOM	737	CG1	VAL A 91	18.656	1.041	-10.664	1.00	93.69	C
ATOM	738	CG2	VAL A 91	17.938	0.275	-8.383	1.00	93.69	C
ATOM	739	N	ASP A 92	18.750	4.434	-9.672	1.00	94.12	N
ATOM	740	CA	ASP A 92	18.969	5.586	-10.547	1.00	94.12	C
ATOM	741	C	ASP A 92	18.125	6.777	-10.102	1.00	94.12	C
ATOM	742	CB	ASP A 92	18.656	5.227	-12.000	1.00	94.12	C
ATOM	743	O	ASP A 92	16.953	6.875	-10.461	1.00	94.12	O
ATOM	744	CG	ASP A 92	19.141	6.273	-12.984	1.00	94.12	C
ATOM	745	OD1	ASP A 92	19.281	7.453	-12.602	1.00	94.12	O
ATOM	746	OD2	ASP A 92	19.391	5.914	-14.156	1.00	94.12	O
ATOM	747	N	PRO A 93	18.719	7.703	-9.398	1.00	96.38	N
ATOM	748	CA	PRO A 93	18.000	8.836	-8.805	1.00	96.38	C
ATOM	749	C	PRO A 93	17.391	9.766	-9.852	1.00	96.38	C
ATOM	750	CB	PRO A 93	19.094	9.555	-7.996	1.00	96.38	C
ATOM	751	O	PRO A 93	16.453	10.500	-9.555	1.00	96.38	O
ATOM	752	CG	PRO A 93	20.109	8.508	-7.719	1.00	96.38	C
ATOM	753	CD	PRO A 93	20.125	7.523	-8.852	1.00	96.38	C
ATOM	754	N	ARG A 94	17.844	9.750	-10.969	1.00	95.19	N
ATOM	755	CA	ARG A 94	17.328	10.617	-12.031	1.00	95.19	C
ATOM	756	C	ARG A 94	15.914	10.227	-12.422	1.00	95.19	C
ATOM	757	CB	ARG A 94	18.250	10.570	-13.250	1.00	95.19	C
ATOM	758	O	ARG A 94	15.180	11.031	-13.000	1.00	95.19	O
ATOM	759	CG	ARG A 94	19.656	11.086	-12.992	1.00	95.19	C
ATOM	760	CD	ARG A 94	20.562	10.891	-14.203	1.00	95.19	C
ATOM	761	NE	ARG A 94	20.750	9.477	-14.508	1.00	95.19	N

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ATOM	762	NH1 ARG A 94	21.891	9.852	-16.484	1.00	95.19	N
ATOM	763	NH2 ARG A 94	21.500	7.711	-15.766	1.00	95.19	N
ATOM	764	CZ ARG A 94	21.391	9.016	-15.586	1.00	95.19	C
ATOM	765	N LEU A 95	15.570	9.008	-12.203	1.00	96.38	N
ATOM	766	CA LEU A 95	14.281	8.492	-12.648	1.00	96.38	C
ATOM	767	C LEU A 95	13.211	8.734	-11.586	1.00	96.38	C
ATOM	768	CB LEU A 95	14.383	6.992	-12.953	1.00	96.38	C
ATOM	769	O LEU A 95	12.023	8.477	-11.828	1.00	96.38	O
ATOM	770	CG LEU A 95	15.234	6.605	-14.164	1.00	96.38	C
ATOM	771	CD1 LEU A 95	15.297	5.090	-14.305	1.00	96.38	C
ATOM	772	CD2 LEU A 95	14.680	7.242	-15.438	1.00	96.38	C
ATOM	773	N VAL A 96	13.531	9.234	-10.438	1.00	97.00	N
ATOM	774	CA VAL A 96	12.633	9.391	-9.305	1.00	97.00	C
ATOM	775	C VAL A 96	11.445	10.258	-9.703	1.00	97.00	C
ATOM	776	CB VAL A 96	13.352	10.000	-8.086	1.00	97.00	C
ATOM	777	O VAL A 96	10.289	9.906	-9.445	1.00	97.00	O
ATOM	778	CG1 VAL A 96	12.344	10.438	-7.020	1.00	97.00	C
ATOM	779	CG2 VAL A 96	14.352	9.008	-7.500	1.00	97.00	C
ATOM	780	N PRO A 97	11.609	11.352	-10.398	1.00	96.69	N
ATOM	781	CA PRO A 97	10.461	12.180	-10.781	1.00	96.69	C
ATOM	782	C PRO A 97	9.492	11.445	-11.711	1.00	96.69	C
ATOM	783	CB PRO A 97	11.102	13.375	-11.484	1.00	96.69	C
ATOM	784	O PRO A 97	8.273	11.578	-11.562	1.00	96.69	O
ATOM	785	CG PRO A 97	12.469	13.477	-10.891	1.00	96.69	C
ATOM	786	CD PRO A 97	12.977	12.094	-10.602	1.00	96.69	C
ATOM	787	N ALA A 98	10.086	10.734	-12.633	1.00	95.81	N
ATOM	788	CA ALA A 98	9.234	9.992	-13.570	1.00	95.81	C
ATOM	789	C ALA A 98	8.430	8.922	-12.844	1.00	95.81	C
ATOM	790	CB ALA A 98	10.086	9.359	-14.672	1.00	95.81	C
ATOM	791	O ALA A 98	7.230	8.758	-13.094	1.00	95.81	O
ATOM	792	N VAL A 99	9.062	8.242	-11.930	1.00	97.00	N
ATOM	793	CA VAL A 99	8.383	7.191	-11.172	1.00	97.00	C
ATOM	794	C VAL A 99	7.309	7.812	-10.281	1.00	97.00	C
ATOM	795	CB VAL A 99	9.383	6.383	-10.305	1.00	97.00	C
ATOM	796	O VAL A 99	6.203	7.277	-10.172	1.00	97.00	O
ATOM	797	CG1 VAL A 99	8.641	5.445	-9.359	1.00	97.00	C
ATOM	798	CG2 VAL A 99	10.344	5.602	-11.203	1.00	97.00	C
ATOM	799	N ALA A 100	7.570	8.883	-9.656	1.00	97.75	N
ATOM	800	CA ALA A 100	6.598	9.570	-8.812	1.00	97.75	C
ATOM	801	C ALA A 100	5.352	9.953	-9.609	1.00	97.75	C
ATOM	802	CB ALA A 100	7.223	10.812	-8.188	1.00	97.75	C
ATOM	803	O ALA A 100	4.227	9.758	-9.148	1.00	97.75	O
ATOM	804	N ARG A 101	5.574	10.469	-10.742	1.00	97.19	N
ATOM	805	CA ARG A 101	4.453	10.852	-11.594	1.00	97.19	C
ATOM	806	C ARG A 101	3.627	9.633	-11.992	1.00	97.19	C
ATOM	807	CB ARG A 101	4.953	11.578	-12.836	1.00	97.19	C
ATOM	808	O ARG A 101	2.395	9.680	-11.969	1.00	97.19	O
ATOM	809	CG ARG A 101	3.840	12.109	-13.727	1.00	97.19	C
ATOM	810	CD ARG A 101	4.391	12.875	-14.922	1.00	97.19	C
ATOM	811	NE ARG A 101	5.301	12.055	-15.719	1.00	97.19	N
ATOM	812	NH1 ARG A 101	4.648	12.938	-17.750	1.00	97.19	N
ATOM	813	NH2 ARG A 101	6.266	11.312	-17.672	1.00	97.19	N
ATOM	814	CZ ARG A 101	5.402	12.102	-17.047	1.00	97.19	C

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ATOM	815	N	LEU A 102	4.312	8.547	-12.383	1.00	97.25	N
ATOM	816	CA	LEU A 102	3.623	7.324	-12.781	1.00	97.25	C
ATOM	817	C	LEU A 102	2.799	6.762	-11.633	1.00	97.25	C
ATOM	818	CB	LEU A 102	4.629	6.273	-13.266	1.00	97.25	C
ATOM	819	O	LEU A 102	1.658	6.332	-11.828	1.00	97.25	O
ATOM	820	CG	LEU A 102	5.340	6.570	-14.586	1.00	97.25	C
ATOM	821	CD1	LEU A 102	6.363	5.488	-14.898	1.00	97.25	C
ATOM	822	CD2	LEU A 102	4.328	6.695	-15.719	1.00	97.25	C
ATOM	823	N	LEU A 103	3.338	6.754	-10.430	1.00	98.06	N
ATOM	824	CA	LEU A 103	2.629	6.270	-9.250	1.00	98.06	C
ATOM	825	C	LEU A 103	1.403	7.133	-8.961	1.00	98.06	C
ATOM	826	CB	LEU A 103	3.559	6.258	-8.031	1.00	98.06	C
ATOM	827	O	LEU A 103	0.341	6.609	-8.617	1.00	98.06	O
ATOM	828	CG	LEU A 103	4.625	5.160	-8.000	1.00	98.06	C
ATOM	829	CD1	LEU A 103	5.637	5.438	-6.898	1.00	98.06	C
ATOM	830	CD2	LEU A 103	3.979	3.793	-7.816	1.00	98.06	C
ATOM	831	N	ASP A 104	1.549	8.430	-9.109	1.00	96.31	N
ATOM	832	CA	ASP A 104	0.410	9.312	-8.883	1.00	96.31	C
ATOM	833	C	ASP A 104	-0.748	8.969	-9.812	1.00	96.31	C
ATOM	834	CB	ASP A 104	0.820	10.773	-9.062	1.00	96.31	C
ATOM	835	O	ASP A 104	-1.906	8.945	-9.391	1.00	96.31	O
ATOM	836	CG	ASP A 104	1.668	11.305	-7.922	1.00	96.31	C
ATOM	837	OD1	ASP A 104	1.688	10.680	-6.840	1.00	96.31	O
ATOM	838	OD2	ASP A 104	2.320	12.352	-8.102	1.00	96.31	O
ATOM	839	N	GLU A 105	-0.381	8.703	-11.055	1.00	95.12	N
ATOM	840	CA	GLU A 105	-1.400	8.352	-12.039	1.00	95.12	C
ATOM	841	C	GLU A 105	-2.088	7.035	-11.680	1.00	95.12	C
ATOM	842	CB	GLU A 105	-0.787	8.258	-13.438	1.00	95.12	C
ATOM	843	O	GLU A 105	-3.316	6.941	-11.727	1.00	95.12	O
ATOM	844	CG	GLU A 105	-0.346	9.602	-14.008	1.00	95.12	C
ATOM	845	CD	GLU A 105	0.322	9.484	-15.367	1.00	95.12	C
ATOM	846	OE1	GLU A 105	0.783	10.516	-15.906	1.00	95.12	O
ATOM	847	OE2	GLU A 105	0.383	8.352	-15.898	1.00	95.12	O
ATOM	848	N	LEU A 106	-1.278	6.086	-11.273	1.00	97.44	N
ATOM	849	CA	LEU A 106	-1.813	4.773	-10.922	1.00	97.44	C
ATOM	850	C	LEU A 106	-2.666	4.848	-9.664	1.00	97.44	C
ATOM	851	CB	LEU A 106	-0.677	3.766	-10.727	1.00	97.44	C
ATOM	852	O	LEU A 106	-3.756	4.277	-9.609	1.00	97.44	O
ATOM	853	CG	LEU A 106	0.088	3.352	-11.984	1.00	97.44	C
ATOM	854	CD1	LEU A 106	1.301	2.506	-11.617	1.00	97.44	C
ATOM	855	CD2	LEU A 106	-0.826	2.596	-12.945	1.00	97.44	C
ATOM	856	N	PHE A 107	-2.211	5.637	-8.688	1.00	97.19	N
ATOM	857	CA	PHE A 107	-2.912	5.754	-7.418	1.00	97.19	C
ATOM	858	C	PHE A 107	-4.270	6.418	-7.605	1.00	97.19	C
ATOM	859	CB	PHE A 107	-2.074	6.547	-6.410	1.00	97.19	C
ATOM	860	O	PHE A 107	-5.262	6.000	-7.004	1.00	97.19	O
ATOM	861	CG	PHE A 107	-0.885	5.789	-5.879	1.00	97.19	C
ATOM	862	CD1	PHE A 107	-0.660	4.473	-6.258	1.00	97.19	C
ATOM	863	CD2	PHE A 107	0.007	6.398	-5.008	1.00	97.19	C
ATOM	864	CE1	PHE A 107	0.439	3.770	-5.766	1.00	97.19	C
ATOM	865	CE2	PHE A 107	1.107	5.703	-4.516	1.00	97.19	C
ATOM	866	CZ	PHE A 107	1.321	4.387	-4.895	1.00	97.19	C
ATOM	867	N	GLU A 108	-4.301	7.430	-8.352	1.00	95.12	N

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ATOM	868	CA	GLU A 108	-5.551	8.141	-8.594	1.00	95.12	C
ATOM	869	C	GLU A 108	-6.602	7.219	-9.203	1.00	95.12	C
ATOM	870	CB	GLU A 108	-5.316	9.352	-9.508	1.00	95.12	C
ATOM	871	O	GLU A 108	-7.762	7.223	-8.781	1.00	95.12	O
ATOM	872	CG	GLU A 108	-6.547	10.227	-9.688	1.00	95.12	C
ATOM	873	CD	GLU A 108	-6.293	11.438	-10.578	1.00	95.12	C
ATOM	874	OE1	GLU A 108	-7.262	12.141	-10.930	1.00	95.12	O
ATOM	875	OE2	GLU A 108	-5.113	11.680	-10.922	1.00	95.12	O
ATOM	876	N	LYS A 109	-6.184	6.422	-10.109	1.00	94.12	N
ATOM	877	CA	LYS A 109	-7.105	5.523	-10.797	1.00	94.12	C
ATOM	878	C	LYS A 109	-7.637	4.449	-9.852	1.00	94.12	C
ATOM	879	CB	LYS A 109	-6.422	4.871	-12.000	1.00	94.12	C
ATOM	880	O	LYS A 109	-8.844	4.203	-9.797	1.00	94.12	O
ATOM	881	CG	LYS A 109	-6.188	5.816	-13.172	1.00	94.12	C
ATOM	882	CD	LYS A 109	-5.531	5.102	-14.344	1.00	94.12	C
ATOM	883	CE	LYS A 109	-5.223	6.066	-15.484	1.00	94.12	C
ATOM	884	NZ	LYS A 109	-4.547	5.379	-16.625	1.00	94.12	N
ATOM	885	N	VAL A 110	-6.777	3.867	-9.031	1.00	94.88	N
ATOM	886	CA	VAL A 110	-7.184	2.746	-8.188	1.00	94.88	C
ATOM	887	C	VAL A 110	-7.988	3.260	-6.996	1.00	94.88	C
ATOM	888	CB	VAL A 110	-5.969	1.931	-7.699	1.00	94.88	C
ATOM	889	O	VAL A 110	-8.930	2.602	-6.547	1.00	94.88	O
ATOM	890	CG1	VAL A 110	-5.258	1.259	-8.875	1.00	94.88	C
ATOM	891	CG2	VAL A 110	-5.000	2.828	-6.930	1.00	94.88	C
ATOM	892	N	LEU A 111	-7.598	4.395	-6.477	1.00	95.38	N
ATOM	893	CA	LEU A 111	-8.344	5.004	-5.383	1.00	95.38	C
ATOM	894	C	LEU A 111	-9.781	5.301	-5.797	1.00	95.38	C
ATOM	895	CB	LEU A 111	-7.656	6.293	-4.918	1.00	95.38	C
ATOM	896	O	LEU A 111	-10.719	4.988	-5.066	1.00	95.38	O
ATOM	897	CG	LEU A 111	-8.289	7.004	-3.721	1.00	95.38	C
ATOM	898	CD1	LEU A 111	-8.273	6.090	-2.498	1.00	95.38	C
ATOM	899	CD2	LEU A 111	-7.555	8.305	-3.426	1.00	95.38	C
ATOM	900	N	LYS A 112	-9.945	5.918	-6.941	1.00	95.56	N
ATOM	901	CA	LYS A 112	-11.273	6.227	-7.453	1.00	95.56	C
ATOM	902	C	LYS A 112	-12.109	4.957	-7.609	1.00	95.56	C
ATOM	903	CB	LYS A 112	-11.180	6.957	-8.789	1.00	95.56	C
ATOM	904	O	LYS A 112	-13.266	4.914	-7.180	1.00	95.56	O
ATOM	905	CG	LYS A 112	-12.523	7.383	-9.359	1.00	95.56	C
ATOM	906	CD	LYS A 112	-12.367	8.078	-10.711	1.00	95.56	C
ATOM	907	CE	LYS A 112	-13.719	8.398	-11.336	1.00	95.56	C
ATOM	908	NZ	LYS A 112	-13.570	9.039	-12.672	1.00	95.56	N
ATOM	909	N	GLU A 113	-11.570	3.961	-8.148	1.00	95.94	N
ATOM	910	CA	GLU A 113	-12.289	2.713	-8.398	1.00	95.94	C
ATOM	911	C	GLU A 113	-12.617	1.992	-7.094	1.00	95.94	C
ATOM	912	CB	GLU A 113	-11.469	1.799	-9.312	1.00	95.94	C
ATOM	913	O	GLU A 113	-13.703	1.438	-6.945	1.00	95.94	O
ATOM	914	CG	GLU A 113	-11.258	2.359	-10.711	1.00	95.94	C
ATOM	915	CD	GLU A 113	-12.516	2.338	-11.562	1.00	95.94	C
ATOM	916	OE1	GLU A 113	-12.609	3.131	-12.531	1.00	95.94	O
ATOM	917	OE2	GLU A 113	-13.414	1.521	-11.266	1.00	95.94	O
ATOM	918	N	ALA A 114	-11.719	2.006	-6.156	1.00	95.50	N
ATOM	919	CA	ALA A 114	-11.930	1.359	-4.863	1.00	95.50	C
ATOM	920	C	ALA A 114	-13.055	2.035	-4.090	1.00	95.50	C

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ATOM	921	CB	ALA A 114	-10.641	1.379	-4.043	1.00	95.50	C
ATOM	922	O	ALA A 114	-13.898	1.360	-3.496	1.00	95.50	O
ATOM	923	N	LEU A 115	-13.109	3.326	-4.172	1.00	96.25	N
ATOM	924	CA	LEU A 115	-14.148	4.078	-3.479	1.00	96.25	C
ATOM	925	C	LEU A 115	-15.516	3.822	-4.109	1.00	96.25	C
ATOM	926	CB	LEU A 115	-13.836	5.574	-3.498	1.00	96.25	C
ATOM	927	O	LEU A 115	-16.516	3.695	-3.402	1.00	96.25	O
ATOM	928	CG	LEU A 115	-12.648	6.031	-2.645	1.00	96.25	C
ATOM	929	CD1	LEU A 115	-12.352	7.504	-2.902	1.00	96.25	C
ATOM	930	CD2	LEU A 115	-12.930	5.789	-1.166	1.00	96.25	C
ATOM	931	N	GLU A 116	-15.508	3.760	-5.402	1.00	96.50	N
ATOM	932	CA	GLU A 116	-16.750	3.447	-6.098	1.00	96.50	C
ATOM	933	C	GLU A 116	-17.250	2.049	-5.742	1.00	96.50	C
ATOM	934	CB	GLU A 116	-16.578	3.572	-7.613	1.00	96.50	C
ATOM	935	O	GLU A 116	-18.438	1.840	-5.535	1.00	96.50	O
ATOM	936	CG	GLU A 116	-17.875	3.498	-8.398	1.00	96.50	C
ATOM	937	CD	GLU A 116	-17.688	3.746	-9.883	1.00	96.50	C
ATOM	938	OE1	GLU A 116	-18.672	3.594	-10.648	1.00	96.50	O
ATOM	939	OE2	GLU A 116	-16.562	4.098	-10.289	1.00	96.50	O
ATOM	940	N	ALA A 117	-16.344	1.122	-5.676	1.00	95.56	N
ATOM	941	CA	ALA A 117	-16.703	-0.248	-5.312	1.00	95.56	C
ATOM	942	C	ALA A 117	-17.250	-0.314	-3.893	1.00	95.56	C
ATOM	943	CB	ALA A 117	-15.484	-1.164	-5.449	1.00	95.56	C
ATOM	944	O	ALA A 117	-18.219	-1.040	-3.627	1.00	95.56	O
ATOM	945	N	LEU A 118	-16.641	0.433	-2.963	1.00	96.12	N
ATOM	946	CA	LEU A 118	-17.109	0.481	-1.583	1.00	96.12	C
ATOM	947	C	LEU A 118	-18.516	1.079	-1.507	1.00	96.12	C
ATOM	948	CB	LEU A 118	-16.156	1.296	-0.715	1.00	96.12	C
ATOM	949	O	LEU A 118	-19.375	0.576	-0.776	1.00	96.12	O
ATOM	950	CG	LEU A 118	-16.500	1.408	0.769	1.00	96.12	C
ATOM	951	CD1	LEU A 118	-16.578	0.023	1.404	1.00	96.12	C
ATOM	952	CD2	LEU A 118	-15.492	2.285	1.495	1.00	96.12	C
ATOM	953	N	LYS A 119	-18.766	2.092	-2.312	1.00	94.81	N
ATOM	954	CA	LYS A 119	-20.078	2.732	-2.336	1.00	94.81	C
ATOM	955	C	LYS A 119	-21.156	1.761	-2.805	1.00	94.81	C
ATOM	956	CB	LYS A 119	-20.062	3.967	-3.240	1.00	94.81	C
ATOM	957	O	LYS A 119	-22.266	1.762	-2.275	1.00	94.81	O
ATOM	958	CG	LYS A 119	-19.359	5.172	-2.627	1.00	94.81	C
ATOM	959	CD	LYS A 119	-19.375	6.371	-3.568	1.00	94.81	C
ATOM	960	CE	LYS A 119	-18.625	7.555	-2.982	1.00	94.81	C
ATOM	961	NZ	LYS A 119	-18.609	8.719	-3.922	1.00	94.81	N
ATOM	962	N	LYS A 120	-20.750	0.883	-3.664	1.00	94.25	N
ATOM	963	CA	LYS A 120	-21.688	-0.086	-4.230	1.00	94.25	C
ATOM	964	C	LYS A 120	-21.688	-1.383	-3.428	1.00	94.25	C
ATOM	965	CB	LYS A 120	-21.344	-0.375	-5.691	1.00	94.25	C
ATOM	966	O	LYS A 120	-22.422	-2.320	-3.752	1.00	94.25	O
ATOM	967	CG	LYS A 120	-21.531	0.814	-6.621	1.00	94.25	C
ATOM	968	CD	LYS A 120	-21.203	0.455	-8.062	1.00	94.25	C
ATOM	969	CE	LYS A 120	-21.391	1.645	-8.992	1.00	94.25	C
ATOM	970	NZ	LYS A 120	-21.016	1.314	-10.398	1.00	94.25	N
ATOM	971	N	LYS A 121	-20.766	-1.439	-2.395	1.00	92.62	N
ATOM	972	CA	LYS A 121	-20.609	-2.596	-1.519	1.00	92.62	C
ATOM	973	C	LYS A 121	-20.328	-3.859	-2.324	1.00	92.62	C

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ATOM	974	CB	LYS A 121	-21.859	-2.797	-0.657	1.00	92.62	C
ATOM	975	O	LYS A 121	-20.906	-4.914	-2.064	1.00	92.62	O
ATOM	976	CG	LYS A 121	-22.203	-1.606	0.227	1.00	92.62	C
ATOM	977	CD	LYS A 121	-21.141	-1.393	1.306	1.00	92.62	C
ATOM	978	CE	LYS A 121	-21.531	-0.262	2.250	1.00	92.62	C
ATOM	979	NZ	LYS A 121	-20.422	0.082	3.186	1.00	92.62	N
ATOM	980	N	GLU A 122	-19.422	-3.801	-3.268	1.00	95.00	N
ATOM	981	CA	GLU A 122	-19.047	-4.902	-4.152	1.00	95.00	C
ATOM	982	C	GLU A 122	-17.578	-5.273	-3.990	1.00	95.00	C
ATOM	983	CB	GLU A 122	-19.344	-4.547	-5.609	1.00	95.00	C
ATOM	984	O	GLU A 122	-16.734	-4.406	-3.736	1.00	95.00	O
ATOM	985	CG	GLU A 122	-20.828	-4.328	-5.902	1.00	95.00	C
ATOM	986	CD	GLU A 122	-21.094	-3.945	-7.348	1.00	95.00	C
ATOM	987	OE1	GLU A 122	-22.281	-3.924	-7.754	1.00	95.00	O
ATOM	988	OE2	GLU A 122	-20.125	-3.666	-8.078	1.00	95.00	O
ATOM	989	N	ASN A 123	-17.391	-6.516	-4.105	1.00	96.88	N
ATOM	990	CA	ASN A 123	-16.000	-6.949	-4.242	1.00	96.88	C
ATOM	991	C	ASN A 123	-15.430	-6.566	-5.605	1.00	96.88	C
ATOM	992	CB	ASN A 123	-15.891	-8.461	-4.023	1.00	96.88	C
ATOM	993	O	ASN A 123	-16.125	-6.625	-6.617	1.00	96.88	O
ATOM	994	CG	ASN A 123	-16.344	-8.883	-2.643	1.00	96.88	C
ATOM	995	ND2	ASN A 123	-16.875	-10.102	-2.539	1.00	96.88	N
ATOM	996	OD1	ASN A 123	-16.234	-8.125	-1.676	1.00	96.88	O
ATOM	997	N	ALA A 124	-14.180	-6.203	-5.539	1.00	95.81	N
ATOM	998	CA	ALA A 124	-13.633	-5.746	-6.812	1.00	95.81	C
ATOM	999	C	ALA A 124	-12.117	-5.926	-6.848	1.00	95.81	C
ATOM	1000	CB	ALA A 124	-13.992	-4.285	-7.059	1.00	95.81	C
ATOM	1001	O	ALA A 124	-11.461	-5.941	-5.801	1.00	95.81	O
ATOM	1002	N	THR A 125	-11.609	-6.188	-8.055	1.00	97.44	N
ATOM	1003	CA	THR A 125	-10.180	-6.188	-8.344	1.00	97.44	C
ATOM	1004	C	THR A 125	-9.859	-5.223	-9.484	1.00	97.44	C
ATOM	1005	CB	THR A 125	-9.680	-7.598	-8.711	1.00	97.44	C
ATOM	1006	O	THR A 125	-10.555	-5.207	-10.500	1.00	97.44	O
ATOM	1007	CG2	THR A 125	-8.188	-7.594	-9.016	1.00	97.44	C
ATOM	1008	OG1	THR A 125	-9.930	-8.484	-7.613	1.00	97.44	O
ATOM	1009	N	PHE A 126	-8.789	-4.484	-9.227	1.00	94.94	N
ATOM	1010	CA	PHE A 126	-8.383	-3.492	-10.211	1.00	94.94	C
ATOM	1011	C	PHE A 126	-6.895	-3.600	-10.508	1.00	94.94	C
ATOM	1012	CB	PHE A 126	-8.719	-2.078	-9.719	1.00	94.94	C
ATOM	1013	O	PHE A 126	-6.082	-3.750	-9.594	1.00	94.94	O
ATOM	1014	CG	PHE A 126	-10.102	-1.952	-9.133	1.00	94.94	C
ATOM	1015	CD1	PHE A 126	-11.211	-1.812	-9.953	1.00	94.94	C
ATOM	1016	CD2	PHE A 126	-10.289	-1.973	-7.758	1.00	94.94	C
ATOM	1017	CE1	PHE A 126	-12.492	-1.694	-9.414	1.00	94.94	C
ATOM	1018	CE2	PHE A 126	-11.562	-1.855	-7.207	1.00	94.94	C
ATOM	1019	CZ	PHE A 126	-12.664	-1.716	-8.039	1.00	94.94	C
ATOM	1020	N	GLU A 127	-6.668	-3.428	-11.859	1.00	95.69	N
ATOM	1021	CA	GLU A 127	-5.266	-3.465	-12.266	1.00	95.69	C
ATOM	1022	C	GLU A 127	-4.930	-2.293	-13.188	1.00	95.69	C
ATOM	1023	CB	GLU A 127	-4.941	-4.789	-12.961	1.00	95.69	C
ATOM	1024	O	GLU A 127	-5.730	-1.923	-14.047	1.00	95.69	O
ATOM	1025	CG	GLU A 127	-3.469	-4.961	-13.297	1.00	95.69	C
ATOM	1026	CD	GLU A 127	-3.139	-6.336	-13.867	1.00	95.69	C

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ATOM	1027	OE1 GLU A 127	-1.971	-6.570	-14.250	1.00	95.69	O
ATOM	1028	OE2 GLU A 127	-4.059	-7.184	-13.930	1.00	95.69	O
ATOM	1029	N ALA A 128	-3.756	-1.756	-12.969	1.00	95.50	N
ATOM	1030	CA ALA A 128	-3.275	-0.667	-13.820	1.00	95.50	C
ATOM	1031	C ALA A 128	-1.770	-0.770	-14.039	1.00	95.50	C
ATOM	1032	CB ALA A 128	-3.629	0.684	-13.203	1.00	95.50	C
ATOM	1033	O ALA A 128	-1.046	-1.302	-13.195	1.00	95.50	O
ATOM	1034	N GLU A 129	-1.446	-0.318	-15.203	1.00	96.50	N
ATOM	1035	CA GLU A 129	-0.032	-0.353	-15.570	1.00	96.50	C
ATOM	1036	C GLU A 129	0.401	0.954	-16.219	1.00	96.50	C
ATOM	1037	CB GLU A 129	0.256	-1.532	-16.500	1.00	96.50	C
ATOM	1038	O GLU A 129	-0.384	1.589	-16.938	1.00	96.50	O
ATOM	1039	CG GLU A 129	1.720	-1.659	-16.891	1.00	96.50	C
ATOM	1040	CD GLU A 129	1.988	-2.828	-17.828	1.00	96.50	C
ATOM	1041	OE1 GLU A 129	3.084	-2.883	-18.438	1.00	96.50	O
ATOM	1042	OE2 GLU A 129	1.097	-3.697	-17.953	1.00	96.50	O
ATOM	1043	N ALA A 130	1.674	1.326	-15.961	1.00	96.62	N
ATOM	1044	CA ALA A 130	2.250	2.525	-16.562	1.00	96.62	C
ATOM	1045	C ALA A 130	3.691	2.279	-17.000	1.00	96.62	C
ATOM	1046	CB ALA A 130	2.188	3.695	-15.586	1.00	96.62	C
ATOM	1047	O ALA A 130	4.402	1.471	-16.391	1.00	96.62	O
ATOM	1048	N ARG A 131	3.953	2.941	-18.109	1.00	96.62	N
ATOM	1049	CA ARG A 131	5.293	2.760	-18.656	1.00	96.62	C
ATOM	1050	C ARG A 131	5.945	4.105	-18.969	1.00	96.62	C
ATOM	1051	CB ARG A 131	5.250	1.897	-19.922	1.00	96.62	C
ATOM	1052	O ARG A 131	5.254	5.090	-19.219	1.00	96.62	O
ATOM	1053	CG ARG A 131	4.461	2.520	-21.062	1.00	96.62	C
ATOM	1054	CD ARG A 131	4.371	1.583	-22.250	1.00	96.62	C
ATOM	1055	NE ARG A 131	3.697	2.217	-23.391	1.00	96.62	N
ATOM	1056	NH1 ARG A 131	3.859	0.380	-24.781	1.00	96.62	N
ATOM	1057	NH2 ARG A 131	2.844	2.299	-25.516	1.00	96.62	N
ATOM	1058	CZ ARG A 131	3.469	1.630	-24.562	1.00	96.62	C
ATOM	1059	N HIS A 132	7.293	4.094	-18.844	1.00	96.25	N
ATOM	1060	CA HIS A 132	8.086	5.277	-19.172	1.00	96.25	C
ATOM	1061	C HIS A 132	9.391	4.895	-19.859	1.00	96.25	C
ATOM	1062	CB HIS A 132	8.367	6.090	-17.906	1.00	96.25	C
ATOM	1063	O HIS A 132	10.109	4.012	-19.375	1.00	96.25	O
ATOM	1064	CG HIS A 132	9.227	7.289	-18.141	1.00	96.25	C
ATOM	1065	CD2 HIS A 132	10.547	7.492	-17.938	1.00	96.25	C
ATOM	1066	ND1 HIS A 132	8.727	8.469	-18.656	1.00	96.25	N
ATOM	1067	CE1 HIS A 132	9.711	9.352	-18.750	1.00	96.25	C
ATOM	1068	NE2 HIS A 132	10.828	8.781	-18.328	1.00	96.25	N
ATOM	1069	N GLU A 133	9.617	5.523	-20.922	1.00	96.75	N
ATOM	1070	CA GLU A 133	10.883	5.332	-21.625	1.00	96.75	C
ATOM	1071	C GLU A 133	11.633	6.652	-21.766	1.00	96.75	C
ATOM	1072	CB GLU A 133	10.656	4.699	-23.000	1.00	96.75	C
ATOM	1073	O GLU A 133	11.031	7.688	-22.062	1.00	96.75	O
ATOM	1074	CG GLU A 133	10.023	3.316	-22.938	1.00	96.75	C
ATOM	1075	CD GLU A 133	9.805	2.699	-24.312	1.00	96.75	C
ATOM	1076	OE1 GLU A 133	9.281	1.567	-24.391	1.00	96.75	O
ATOM	1077	OE2 GLU A 133	10.172	3.350	-25.312	1.00	96.75	O
ATOM	1078	N GLU A 134	12.906	6.570	-21.516	1.00	95.19	N
ATOM	1079	CA GLU A 134	13.719	7.777	-21.609	1.00	95.19	C

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ATOM	1080	C	GLU A 134	15.125	7.465	-22.109	1.00	95.19	C
ATOM	1081	CB	GLU A 134	13.781	8.484	-20.250	1.00	95.19	C
ATOM	1082	O	GLU A 134	15.680	6.414	-21.781	1.00	95.19	O
ATOM	1083	CG	GLU A 134	14.422	9.867	-20.312	1.00	95.19	C
ATOM	1084	CD	GLU A 134	14.125	10.719	-19.078	1.00	95.19	C
ATOM	1085	OE1	GLU A 134	14.500	11.914	-19.062	1.00	95.19	O
ATOM	1086	OE2	GLU A 134	13.516	10.180	-18.125	1.00	95.19	O
ATOM	1087	N	ARG A 135	15.672	8.352	-22.906	1.00	92.81	N
ATOM	1088	CA	ARG A 135	17.047	8.211	-23.359	1.00	92.81	C
ATOM	1089	C	ARG A 135	17.953	9.242	-22.672	1.00	92.81	C
ATOM	1090	CB	ARG A 135	17.141	8.359	-24.875	1.00	92.81	C
ATOM	1091	O	ARG A 135	17.625	10.422	-22.609	1.00	92.81	O
ATOM	1092	CG	ARG A 135	16.562	7.184	-25.641	1.00	92.81	C
ATOM	1093	CD	ARG A 135	16.859	7.285	-27.125	1.00	92.81	C
ATOM	1094	NE	ARG A 135	16.344	6.137	-27.859	1.00	92.81	N
ATOM	1095	NH1	ARG A 135	17.203	6.781	-29.906	1.00	92.81	N
ATOM	1096	NH2	ARG A 135	15.992	4.844	-29.734	1.00	92.81	N
ATOM	1097	CZ	ARG A 135	16.516	5.926	-29.172	1.00	92.81	C
ATOM	1098	N	PHE A 136	19.000	8.688	-22.062	1.00	90.56	N
ATOM	1099	CA	PHE A 136	20.078	9.508	-21.531	1.00	90.56	C
ATOM	1100	C	PHE A 136	21.344	9.352	-22.375	1.00	90.56	C
ATOM	1101	CB	PHE A 136	20.375	9.141	-20.078	1.00	90.56	C
ATOM	1102	O	PHE A 136	21.469	8.398	-23.141	1.00	90.56	O
ATOM	1103	CG	PHE A 136	19.203	9.359	-19.141	1.00	90.56	C
ATOM	1104	CD1	PHE A 136	18.953	10.625	-18.625	1.00	90.56	C
ATOM	1105	CD2	PHE A 136	18.375	8.312	-18.797	1.00	90.56	C
ATOM	1106	CE1	PHE A 136	17.875	10.836	-17.766	1.00	90.56	C
ATOM	1107	CE2	PHE A 136	17.297	8.516	-17.938	1.00	90.56	C
ATOM	1108	CZ	PHE A 136	17.047	9.781	-17.422	1.00	90.56	C
ATOM	1109	N	PRO A 137	22.234	10.375	-22.344	1.00	89.56	N
ATOM	1110	CA	PRO A 137	23.484	10.117	-23.062	1.00	89.56	C
ATOM	1111	C	PRO A 137	24.125	8.789	-22.656	1.00	89.56	C
ATOM	1112	CB	PRO A 137	24.375	11.297	-22.641	1.00	89.56	C
ATOM	1113	O	PRO A 137	24.422	8.562	-21.484	1.00	89.56	O
ATOM	1114	CG	PRO A 137	23.422	12.383	-22.281	1.00	89.56	C
ATOM	1115	CD	PRO A 137	22.203	11.758	-21.656	1.00	89.56	C
ATOM	1116	N	GLY A 138	24.250	7.898	-23.625	1.00	91.94	N
ATOM	1117	CA	GLY A 138	24.969	6.652	-23.422	1.00	91.94	C
ATOM	1118	C	GLY A 138	24.094	5.535	-22.875	1.00	91.94	C
ATOM	1119	O	GLY A 138	24.562	4.410	-22.688	1.00	91.94	O
ATOM	1120	N	GLU A 139	22.750	5.891	-22.688	1.00	93.81	N
ATOM	1121	CA	GLU A 139	21.891	4.867	-22.078	1.00	93.81	C
ATOM	1122	C	GLU A 139	20.438	5.062	-22.469	1.00	93.81	C
ATOM	1123	CB	GLU A 139	22.047	4.887	-20.547	1.00	93.81	C
ATOM	1124	O	GLU A 139	20.000	6.184	-22.734	1.00	93.81	O
ATOM	1125	CG	GLU A 139	21.500	6.152	-19.891	1.00	93.81	C
ATOM	1126	CD	GLU A 139	21.641	6.156	-18.391	1.00	93.81	C
ATOM	1127	OE1	GLU A 139	21.656	7.250	-17.781	1.00	93.81	O
ATOM	1128	OE2	GLU A 139	21.750	5.051	-17.797	1.00	93.81	O
ATOM	1129	N	GLU A 140	19.719	3.926	-22.562	1.00	95.88	N
ATOM	1130	CA	GLU A 140	18.266	3.904	-22.703	1.00	95.88	C
ATOM	1131	C	GLU A 140	17.609	3.232	-21.500	1.00	95.88	C
ATOM	1132	CB	GLU A 140	17.859	3.189	-24.000	1.00	95.88	C

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ATOM	1133	O	GLU A 140	18.078	2.186	-21.047	1.00	95.88	O
ATOM	1134	CG	GLU A 140	18.297	3.908	-25.266	1.00	95.88	C
ATOM	1135	CD	GLU A 140	17.922	3.170	-26.531	1.00	95.88	C
ATOM	1136	OE1	GLU A 140	17.906	3.795	-27.625	1.00	95.88	O
ATOM	1137	OE2	GLU A 140	17.625	1.956	-26.453	1.00	95.88	O
ATOM	1138	N	VAL A 141	16.594	3.887	-21.031	1.00	96.94	N
ATOM	1139	CA	VAL A 141	15.930	3.365	-19.844	1.00	96.94	C
ATOM	1140	C	VAL A 141	14.461	3.080	-20.141	1.00	96.94	C
ATOM	1141	CB	VAL A 141	16.047	4.348	-18.656	1.00	96.94	C
ATOM	1142	O	VAL A 141	13.805	3.846	-20.859	1.00	96.94	O
ATOM	1143	CG1	VAL A 141	15.242	3.846	-17.453	1.00	96.94	C
ATOM	1144	CG2	VAL A 141	17.516	4.547	-18.281	1.00	96.94	C
ATOM	1145	N	GLU A 142	14.023	1.960	-19.688	1.00	97.38	N
ATOM	1146	CA	GLU A 142	12.609	1.578	-19.719	1.00	97.38	C
ATOM	1147	C	GLU A 142	12.109	1.249	-18.312	1.00	97.38	C
ATOM	1148	CB	GLU A 142	12.391	0.384	-20.641	1.00	97.38	C
ATOM	1149	O	GLU A 142	12.727	0.452	-17.594	1.00	97.38	O
ATOM	1150	CG	GLU A 142	10.930	0.003	-20.812	1.00	97.38	C
ATOM	1151	CD	GLU A 142	10.727	-1.219	-21.703	1.00	97.38	C
ATOM	1152	OE1	GLU A 142	9.586	-1.729	-21.781	1.00	97.38	O
ATOM	1153	OE2	GLU A 142	11.719	-1.669	-22.312	1.00	97.38	O
ATOM	1154	N	LEU A 143	11.039	1.877	-17.891	1.00	97.56	N
ATOM	1155	CA	LEU A 143	10.414	1.646	-16.594	1.00	97.56	C
ATOM	1156	C	LEU A 143	8.969	1.186	-16.750	1.00	97.56	C
ATOM	1157	CB	LEU A 143	10.461	2.916	-15.734	1.00	97.56	C
ATOM	1158	O	LEU A 143	8.219	1.761	-17.547	1.00	97.56	O
ATOM	1159	CG	LEU A 143	9.828	2.826	-14.352	1.00	97.56	C
ATOM	1160	CD1	LEU A 143	10.719	2.023	-13.406	1.00	97.56	C
ATOM	1161	CD2	LEU A 143	9.562	4.223	-13.789	1.00	97.56	C
ATOM	1162	N	ARG A 144	8.617	0.146	-16.062	1.00	97.81	N
ATOM	1163	CA	ARG A 144	7.254	-0.378	-16.047	1.00	97.81	C
ATOM	1164	C	ARG A 144	6.746	-0.562	-14.625	1.00	97.81	C
ATOM	1165	CB	ARG A 144	7.184	-1.706	-16.812	1.00	97.81	C
ATOM	1166	O	ARG A 144	7.426	-1.158	-13.789	1.00	97.81	O
ATOM	1167	CG	ARG A 144	5.770	-2.205	-17.047	1.00	97.81	C
ATOM	1168	CD	ARG A 144	5.746	-3.438	-17.938	1.00	97.81	C
ATOM	1169	NE	ARG A 144	4.395	-3.967	-18.094	1.00	97.81	N
ATOM	1170	NH1	ARG A 144	5.008	-5.664	-19.547	1.00	97.81	N
ATOM	1171	NH2	ARG A 144	2.812	-5.410	-18.922	1.00	97.81	N
ATOM	1172	CZ	ARG A 144	4.074	-5.012	-18.859	1.00	97.81	C
ATOM	1173	N	LEU A 145	5.609	0.001	-14.320	1.00	98.31	N
ATOM	1174	CA	LEU A 145	4.969	-0.155	-13.023	1.00	98.31	C
ATOM	1175	C	LEU A 145	3.596	-0.804	-13.164	1.00	98.31	C
ATOM	1176	CB	LEU A 145	4.836	1.200	-12.320	1.00	98.31	C
ATOM	1177	O	LEU A 145	2.836	-0.462	-14.070	1.00	98.31	O
ATOM	1178	CG	LEU A 145	6.141	1.916	-11.977	1.00	98.31	C
ATOM	1179	CD1	LEU A 145	5.852	3.305	-11.414	1.00	98.31	C
ATOM	1180	CD2	LEU A 145	6.953	1.092	-10.984	1.00	98.31	C
ATOM	1181	N	ARG A 146	3.371	-1.712	-12.383	1.00	97.94	N
ATOM	1182	CA	ARG A 146	2.076	-2.385	-12.336	1.00	97.94	C
ATOM	1183	C	ARG A 146	1.502	-2.365	-10.922	1.00	97.94	C
ATOM	1184	CB	ARG A 146	2.201	-3.828	-12.828	1.00	97.94	C
ATOM	1185	O	ARG A 146	2.219	-2.617	-9.945	1.00	97.94	O

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ATOM	1186	CG	ARG A 146	0.877	-4.574	-12.891	1.00	97.94	C
ATOM	1187	CD	ARG A 146	1.054	-5.996	-13.406	1.00	97.94	C
ATOM	1188	NE	ARG A 146	-0.217	-6.711	-13.461	1.00	97.94	N
ATOM	1189	NH1	ARG A 146	0.692	-8.688	-14.234	1.00	97.94	N
ATOM	1190	NH2	ARG A 146	-1.564	-8.523	-13.867	1.00	97.94	N
ATOM	1191	CZ	ARG A 146	-0.360	-7.973	-13.852	1.00	97.94	C
ATOM	1192	N	LEU A 147	0.189	-2.084	-10.797	1.00	98.31	N
ATOM	1193	CA	LEU A 147	-0.499	-2.043	-9.516	1.00	98.31	C
ATOM	1194	C	LEU A 147	-1.817	-2.807	-9.578	1.00	98.31	C
ATOM	1195	CB	LEU A 147	-0.754	-0.594	-9.086	1.00	98.31	C
ATOM	1196	O	LEU A 147	-2.621	-2.592	-10.484	1.00	98.31	O
ATOM	1197	CG	LEU A 147	-1.472	-0.396	-7.750	1.00	98.31	C
ATOM	1198	CD1	LEU A 147	-0.557	-0.790	-6.598	1.00	98.31	C
ATOM	1199	CD2	LEU A 147	-1.938	1.048	-7.602	1.00	98.31	C
ATOM	1200	N	LYS A 148	-1.921	-3.695	-8.734	1.00	98.25	N
ATOM	1201	CA	LYS A 148	-3.158	-4.453	-8.570	1.00	98.25	C
ATOM	1202	C	LYS A 148	-3.754	-4.250	-7.184	1.00	98.25	C
ATOM	1203	CB	LYS A 148	-2.912	-5.941	-8.820	1.00	98.25	C
ATOM	1204	O	LYS A 148	-3.061	-4.410	-6.176	1.00	98.25	O
ATOM	1205	CG	LYS A 148	-4.176	-6.793	-8.797	1.00	98.25	C
ATOM	1206	CD	LYS A 148	-3.865	-8.258	-9.070	1.00	98.25	C
ATOM	1207	CE	LYS A 148	-5.125	-9.109	-9.031	1.00	98.25	C
ATOM	1208	NZ	LYS A 148	-4.832	-10.547	-9.297	1.00	98.25	N
ATOM	1209	N	LEU A 149	-5.102	-3.891	-7.086	1.00	98.38	N
ATOM	1210	CA	LEU A 149	-5.809	-3.695	-5.824	1.00	98.38	C
ATOM	1211	C	LEU A 149	-7.059	-4.566	-5.762	1.00	98.38	C
ATOM	1212	CB	LEU A 149	-6.188	-2.223	-5.648	1.00	98.38	C
ATOM	1213	O	LEU A 149	-7.871	-4.559	-6.691	1.00	98.38	O
ATOM	1214	CG	LEU A 149	-6.773	-1.834	-4.289	1.00	98.38	C
ATOM	1215	CD1	LEU A 149	-6.355	-0.416	-3.918	1.00	98.38	C
ATOM	1216	CD2	LEU A 149	-8.297	-1.961	-4.305	1.00	98.38	C
ATOM	1217	N	SER A 150	-7.113	-5.285	-4.754	1.00	98.25	N
ATOM	1218	CA	SER A 150	-8.281	-6.125	-4.527	1.00	98.25	C
ATOM	1219	C	SER A 150	-9.016	-5.723	-3.250	1.00	98.25	C
ATOM	1220	CB	SER A 150	-7.879	-7.598	-4.449	1.00	98.25	C
ATOM	1221	O	SER A 150	-8.391	-5.500	-2.211	1.00	98.25	O
ATOM	1222	OG	SER A 150	-7.270	-8.016	-5.656	1.00	98.25	O
ATOM	1223	N	LEU A 151	-10.359	-5.590	-3.336	1.00	98.12	N
ATOM	1224	CA	LEU A 151	-11.188	-5.188	-2.209	1.00	98.12	C
ATOM	1225	C	LEU A 151	-12.266	-6.230	-1.925	1.00	98.12	C
ATOM	1226	CB	LEU A 151	-11.844	-3.830	-2.484	1.00	98.12	C
ATOM	1227	O	LEU A 151	-13.031	-6.594	-2.816	1.00	98.12	O
ATOM	1228	CG	LEU A 151	-12.836	-3.332	-1.438	1.00	98.12	C
ATOM	1229	CD1	LEU A 151	-12.133	-3.086	-0.108	1.00	98.12	C
ATOM	1230	CD2	LEU A 151	-13.539	-2.064	-1.922	1.00	98.12	C
ATOM	1231	N	LYS A 152	-12.188	-6.730	-0.779	1.00	98.25	N
ATOM	1232	CA	LYS A 152	-13.227	-7.637	-0.282	1.00	98.25	C
ATOM	1233	C	LYS A 152	-14.008	-7.000	0.864	1.00	98.25	C
ATOM	1234	CB	LYS A 152	-12.602	-8.961	0.174	1.00	98.25	C
ATOM	1235	O	LYS A 152	-13.414	-6.449	1.794	1.00	98.25	O
ATOM	1236	CG	LYS A 152	-12.117	-9.836	-0.966	1.00	98.25	C
ATOM	1237	CD	LYS A 152	-11.680	-11.211	-0.466	1.00	98.25	C
ATOM	1238	CE	LYS A 152	-11.156	-12.078	-1.601	1.00	98.25	C

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ATOM	1239	NZ	LYS A 152	-10.711	-13.414	-1.111	1.00	98.25	N
ATOM	1240	N	ILE A 153	-15.359	-7.156	0.757	1.00	97.19	N
ATOM	1241	CA	ILE A 153	-16.219	-6.484	1.729	1.00	97.19	C
ATOM	1242	C	ILE A 153	-17.141	-7.500	2.387	1.00	97.19	C
ATOM	1243	CB	ILE A 153	-17.031	-5.352	1.071	1.00	97.19	C
ATOM	1244	O	ILE A 153	-17.797	-8.289	1.701	1.00	97.19	O
ATOM	1245	CG1	ILE A 153	-16.109	-4.375	0.339	1.00	97.19	C
ATOM	1246	CG2	ILE A 153	-17.891	-4.621	2.117	1.00	97.19	C
ATOM	1247	CD1	ILE A 153	-16.828	-3.416	-0.595	1.00	97.19	C
ATOM	1248	N	GLU A 154	-17.203	-7.504	3.621	1.00	96.31	N
ATOM	1249	CA	GLU A 154	-18.156	-8.281	4.402	1.00	96.31	C
ATOM	1250	C	GLU A 154	-18.922	-7.402	5.387	1.00	96.31	C
ATOM	1251	CB	GLU A 154	-17.453	-9.414	5.148	1.00	96.31	C
ATOM	1252	O	GLU A 154	-18.312	-6.637	6.141	1.00	96.31	O
ATOM	1253	CG	GLU A 154	-16.781	-10.422	4.230	1.00	96.31	C
ATOM	1254	CD	GLU A 154	-16.094	-11.562	4.984	1.00	96.31	C
ATOM	1255	OE1	GLU A 154	-15.781	-12.602	4.363	1.00	96.31	O
ATOM	1256	OE2	GLU A 154	-15.891	-11.414	6.211	1.00	96.31	O
ATOM	1257	N	GLU A 155	-20.250	-7.547	5.316	1.00	94.56	N
ATOM	1258	CA	GLU A 155	-21.078	-6.727	6.199	1.00	94.56	C
ATOM	1259	C	GLU A 155	-21.984	-7.590	7.066	1.00	94.56	C
ATOM	1260	CB	GLU A 155	-21.906	-5.738	5.383	1.00	94.56	C
ATOM	1261	O	GLU A 155	-22.531	-8.594	6.598	1.00	94.56	O
ATOM	1262	CG	GLU A 155	-22.766	-4.812	6.234	1.00	94.56	C
ATOM	1263	CD	GLU A 155	-23.516	-3.770	5.418	1.00	94.56	C
ATOM	1264	OE1	GLU A 155	-24.391	-3.070	5.984	1.00	94.56	O
ATOM	1265	OE2	GLU A 155	-23.234	-3.652	4.207	1.00	94.56	O
ATOM	1266	N	SER A 156	-22.078	-7.195	8.328	1.00	95.75	N
ATOM	1267	CA	SER A 156	-23.000	-7.875	9.227	1.00	95.75	C
ATOM	1268	C	SER A 156	-23.656	-6.895	10.188	1.00	95.75	C
ATOM	1269	CB	SER A 156	-22.281	-8.969	10.016	1.00	95.75	C
ATOM	1270	O	SER A 156	-23.109	-5.824	10.461	1.00	95.75	O
ATOM	1271	OG	SER A 156	-21.297	-8.406	10.867	1.00	95.75	O
ATOM	1272	N	THR A 157	-24.859	-7.184	10.578	1.00	94.31	N
ATOM	1273	CA	THR A 157	-25.594	-6.352	11.523	1.00	94.31	C
ATOM	1274	C	THR A 157	-26.062	-7.176	12.727	1.00	94.31	C
ATOM	1275	CB	THR A 157	-26.812	-5.684	10.852	1.00	94.31	C
ATOM	1276	O	THR A 157	-26.531	-8.305	12.562	1.00	94.31	O
ATOM	1277	CG2	THR A 157	-27.547	-4.766	11.828	1.00	94.31	C
ATOM	1278	OG1	THR A 157	-26.359	-4.914	9.734	1.00	94.31	O
ATOM	1279	N	GLU A 158	-25.812	-6.609	13.805	1.00	95.31	N
ATOM	1280	CA	GLU A 158	-26.219	-7.250	15.055	1.00	95.31	C
ATOM	1281	C	GLU A 158	-27.109	-6.328	15.883	1.00	95.31	C
ATOM	1282	CB	GLU A 158	-25.000	-7.676	15.867	1.00	95.31	C
ATOM	1283	O	GLU A 158	-26.828	-5.137	16.000	1.00	95.31	O
ATOM	1284	CG	GLU A 158	-25.344	-8.484	17.109	1.00	95.31	C
ATOM	1285	CD	GLU A 158	-24.125	-8.867	17.938	1.00	95.31	C
ATOM	1286	OE1	GLU A 158	-24.281	-9.594	18.938	1.00	95.31	O
ATOM	1287	OE2	GLU A 158	-23.000	-8.438	17.562	1.00	95.31	O
ATOM	1288	N	LYS A 159	-28.250	-6.891	16.422	1.00	91.75	N
ATOM	1289	CA	LYS A 159	-29.141	-6.156	17.312	1.00	91.75	C
ATOM	1290	C	LYS A 159	-29.109	-6.730	18.719	1.00	91.75	C
ATOM	1291	CB	LYS A 159	-30.578	-6.184	16.766	1.00	91.75	C

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ATOM	1292	O	LYS A 159	-29.281	-7.934	18.922	1.00	91.75	O
ATOM	1293	CG	LYS A 159	-31.547	-5.305	17.547	1.00	91.75	C
ATOM	1294	CD	LYS A 159	-32.938	-5.328	16.922	1.00	91.75	C
ATOM	1295	CE	LYS A 159	-33.906	-4.496	17.734	1.00	91.75	C
ATOM	1296	NZ	LYS A 159	-35.281	-4.531	17.141	1.00	91.75	N
ATOM	1297	N	LYS A 160	-28.656	-5.969	19.609	1.00	89.44	N
ATOM	1298	CA	LYS A 160	-28.719	-6.320	21.031	1.00	89.44	C
ATOM	1299	C	LYS A 160	-29.484	-5.270	21.828	1.00	89.44	C
ATOM	1300	CB	LYS A 160	-27.297	-6.484	21.594	1.00	89.44	C
ATOM	1301	O	LYS A 160	-29.062	-4.109	21.891	1.00	89.44	O
ATOM	1302	CG	LYS A 160	-27.266	-7.105	22.984	1.00	89.44	C
ATOM	1303	CD	LYS A 160	-25.828	-7.297	23.469	1.00	89.44	C
ATOM	1304	CE	LYS A 160	-25.797	-7.867	24.891	1.00	89.44	C
ATOM	1305	NZ	LYS A 160	-24.391	-8.055	25.375	1.00	89.44	N
ATOM	1306	N	ASP A 161	-30.578	-5.617	22.500	1.00	90.19	N
ATOM	1307	CA	ASP A 161	-31.375	-4.703	23.328	1.00	90.19	C
ATOM	1308	C	ASP A 161	-31.828	-3.484	22.516	1.00	90.19	C
ATOM	1309	CB	ASP A 161	-30.562	-4.254	24.547	1.00	90.19	C
ATOM	1310	O	ASP A 161	-32.562	-3.621	21.531	1.00	90.19	O
ATOM	1311	CG	ASP A 161	-30.188	-5.406	25.469	1.00	90.19	C
ATOM	1312	OD1	ASP A 161	-31.000	-6.320	25.672	1.00	90.19	O
ATOM	1313	OD2	ASP A 161	-29.047	-5.398	25.984	1.00	90.19	O
ATOM	1314	N	ASN A 162	-31.359	-2.277	22.766	1.00	90.19	N
ATOM	1315	CA	ASN A 162	-31.750	-1.053	22.078	1.00	90.19	C
ATOM	1316	C	ASN A 162	-30.609	-0.508	21.219	1.00	90.19	C
ATOM	1317	CB	ASN A 162	-32.219	0.007	23.078	1.00	90.19	C
ATOM	1318	O	ASN A 162	-30.578	0.683	20.906	1.00	90.19	O
ATOM	1319	CG	ASN A 162	-33.531	-0.332	23.703	1.00	90.19	C
ATOM	1320	ND2	ASN A 162	-33.781	0.212	24.891	1.00	90.19	N
ATOM	1321	OD1	ASN A 162	-34.344	-1.078	23.141	1.00	90.19	O
ATOM	1322	N	GLU A 163	-29.609	-1.446	20.828	1.00	91.69	N
ATOM	1323	CA	GLU A 163	-28.453	-1.045	20.031	1.00	91.69	C
ATOM	1324	C	GLU A 163	-28.375	-1.842	18.734	1.00	91.69	C
ATOM	1325	CB	GLU A 163	-27.156	-1.218	20.828	1.00	91.69	C
ATOM	1326	O	GLU A 163	-28.562	-3.059	18.734	1.00	91.69	O
ATOM	1327	CG	GLU A 163	-27.078	-0.326	22.062	1.00	91.69	C
ATOM	1328	CD	GLU A 163	-25.766	-0.477	22.828	1.00	91.69	C
ATOM	1329	OE1	GLU A 163	-25.531	0.285	23.797	1.00	91.69	O
ATOM	1330	OE2	GLU A 163	-24.969	-1.362	22.453	1.00	91.69	O
ATOM	1331	N	ILE A 164	-28.188	-1.137	17.703	1.00	92.56	N
ATOM	1332	CA	ILE A 164	-27.938	-1.751	16.406	1.00	92.56	C
ATOM	1333	C	ILE A 164	-26.500	-1.463	15.977	1.00	92.56	C
ATOM	1334	CB	ILE A 164	-28.922	-1.245	15.336	1.00	92.56	C
ATOM	1335	O	ILE A 164	-26.094	-0.302	15.898	1.00	92.56	O
ATOM	1336	CG1	ILE A 164	-30.375	-1.544	15.758	1.00	92.56	C
ATOM	1337	CG2	ILE A 164	-28.609	-1.870	13.977	1.00	92.56	C
ATOM	1338	CD1	ILE A 164	-31.422	-0.940	14.844	1.00	92.56	C
ATOM	1339	N	THR A 165	-25.766	-2.564	15.727	1.00	94.19	N
ATOM	1340	CA	THR A 165	-24.359	-2.404	15.320	1.00	94.19	C
ATOM	1341	C	THR A 165	-24.125	-3.000	13.938	1.00	94.19	C
ATOM	1342	CB	THR A 165	-23.406	-3.064	16.328	1.00	94.19	C
ATOM	1343	O	THR A 165	-24.406	-4.180	13.703	1.00	94.19	O
ATOM	1344	CG2	THR A 165	-21.953	-2.836	15.945	1.00	94.19	C

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ATOM	1345	OG1 THR A 165	-23.641	-2.506	17.625	1.00	94.19	O
ATOM	1346	N THR A 166	-23.688	-2.268	13.062	1.00	93.94	N
ATOM	1347	CA THR A 166	-23.266	-2.711	11.734	1.00	93.94	C
ATOM	1348	C THR A 166	-21.750	-2.846	11.664	1.00	93.94	C
ATOM	1349	CB THR A 166	-23.750	-1.739	10.641	1.00	93.94	C
ATOM	1350	O THR A 166	-21.016	-1.906	11.992	1.00	93.94	O
ATOM	1351	CG2 THR A 166	-23.328	-2.223	9.258	1.00	93.94	C
ATOM	1352	OG1 THR A 166	-25.172	-1.643	10.695	1.00	93.94	O
ATOM	1353	N THR A 167	-21.328	-4.004	11.367	1.00	95.31	N
ATOM	1354	CA THR A 167	-19.906	-4.270	11.227	1.00	95.31	C
ATOM	1355	C THR A 167	-19.531	-4.457	9.758	1.00	95.31	C
ATOM	1356	CB THR A 167	-19.484	-5.512	12.031	1.00	95.31	C
ATOM	1357	O THR A 167	-20.141	-5.273	9.055	1.00	95.31	O
ATOM	1358	CG2 THR A 167	-17.984	-5.777	11.891	1.00	95.31	C
ATOM	1359	OG1 THR A 167	-19.797	-5.309	13.414	1.00	95.31	O
ATOM	1360	N ILE A 168	-18.562	-3.646	9.359	1.00	95.62	N
ATOM	1361	CA ILE A 168	-18.047	-3.770	8.000	1.00	95.62	C
ATOM	1362	C ILE A 168	-16.578	-4.211	8.047	1.00	95.62	C
ATOM	1363	CB ILE A 168	-18.172	-2.443	7.223	1.00	95.62	C
ATOM	1364	O ILE A 168	-15.742	-3.547	8.664	1.00	95.62	O
ATOM	1365	CG1 ILE A 168	-19.641	-1.984	7.195	1.00	95.62	C
ATOM	1366	CG2 ILE A 168	-17.625	-2.592	5.801	1.00	95.62	C
ATOM	1367	CD1 ILE A 168	-19.844	-0.634	6.523	1.00	95.62	C
ATOM	1368	N LYS A 169	-16.375	-5.352	7.492	1.00	97.44	N
ATOM	1369	CA LYS A 169	-15.000	-5.844	7.387	1.00	97.44	C
ATOM	1370	C LYS A 169	-14.461	-5.664	5.973	1.00	97.44	C
ATOM	1371	CB LYS A 169	-14.930	-7.316	7.793	1.00	97.44	C
ATOM	1372	O LYS A 169	-15.039	-6.164	5.012	1.00	97.44	O
ATOM	1373	CG LYS A 169	-15.250	-7.570	9.258	1.00	97.44	C
ATOM	1374	CD LYS A 169	-15.117	-9.047	9.609	1.00	97.44	C
ATOM	1375	CE LYS A 169	-15.516	-9.312	11.055	1.00	97.44	C
ATOM	1376	NZ LYS A 169	-15.406	-10.766	11.398	1.00	97.44	N
ATOM	1377	N LEU A 170	-13.367	-4.883	5.867	1.00	97.88	N
ATOM	1378	CA LEU A 170	-12.734	-4.613	4.578	1.00	97.88	C
ATOM	1379	C LEU A 170	-11.359	-5.262	4.504	1.00	97.88	C
ATOM	1380	CB LEU A 170	-12.617	-3.105	4.340	1.00	97.88	C
ATOM	1381	O LEU A 170	-10.555	-5.125	5.426	1.00	97.88	O
ATOM	1382	CG LEU A 170	-13.914	-2.299	4.461	1.00	97.88	C
ATOM	1383	CD1 LEU A 170	-13.609	-0.804	4.418	1.00	97.88	C
ATOM	1384	CD2 LEU A 170	-14.891	-2.682	3.352	1.00	97.88	C
ATOM	1385	N GLU A 171	-11.211	-6.051	3.549	1.00	98.44	N
ATOM	1386	CA GLU A 171	-9.875	-6.559	3.242	1.00	98.44	C
ATOM	1387	C GLU A 171	-9.344	-5.965	1.941	1.00	98.44	C
ATOM	1388	CB GLU A 171	-9.891	-8.086	3.158	1.00	98.44	C
ATOM	1389	O GLU A 171	-9.930	-6.172	0.875	1.00	98.44	O
ATOM	1390	CG GLU A 171	-8.516	-8.703	2.984	1.00	98.44	C
ATOM	1391	CD GLU A 171	-8.539	-10.227	2.959	1.00	98.44	C
ATOM	1392	OE1 GLU A 171	-8.461	-10.812	1.856	1.00	98.44	O
ATOM	1393	OE2 GLU A 171	-8.633	-10.836	4.051	1.00	98.44	O
ATOM	1394	N VAL A 172	-8.203	-5.281	2.051	1.00	98.31	N
ATOM	1395	CA VAL A 172	-7.582	-4.660	0.885	1.00	98.31	C
ATOM	1396	C VAL A 172	-6.230	-5.312	0.612	1.00	98.31	C
ATOM	1397	CB VAL A 172	-7.414	-3.137	1.079	1.00	98.31	C

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ATOM	1398	O	VAL A 172	-5.391	-5.410	1.509	1.00	98.31	O
ATOM	1399	CG1	VAL A 172	-6.816	-2.496	-0.173	1.00	98.31	C
ATOM	1400	CG2	VAL A 172	-8.750	-2.488	1.427	1.00	98.31	C
ATOM	1401	N	THR A 173	-6.062	-5.840	-0.569	1.00	98.50	N
ATOM	1402	CA	THR A 173	-4.773	-6.367	-0.999	1.00	98.50	C
ATOM	1403	C	THR A 173	-4.160	-5.484	-2.080	1.00	98.50	C
ATOM	1404	CB	THR A 173	-4.906	-7.809	-1.523	1.00	98.50	C
ATOM	1405	O	THR A 173	-4.770	-5.262	-3.129	1.00	98.50	O
ATOM	1406	CG2	THR A 173	-3.545	-8.391	-1.896	1.00	98.50	C
ATOM	1407	OG1	THR A 173	-5.500	-8.633	-0.508	1.00	98.50	O
ATOM	1408	N	ILE A 174	-2.961	-4.949	-1.787	1.00	98.44	N
ATOM	1409	CA	ILE A 174	-2.230	-4.129	-2.744	1.00	98.44	C
ATOM	1410	C	ILE A 174	-0.996	-4.879	-3.236	1.00	98.44	C
ATOM	1411	CB	ILE A 174	-1.819	-2.771	-2.127	1.00	98.44	C
ATOM	1412	O	ILE A 174	-0.125	-5.242	-2.443	1.00	98.44	O
ATOM	1413	CG1	ILE A 174	-3.055	-2.027	-1.607	1.00	98.44	C
ATOM	1414	CG2	ILE A 174	-1.057	-1.922	-3.148	1.00	98.44	C
ATOM	1415	CD1	ILE A 174	-2.729	-0.792	-0.778	1.00	98.44	C
ATOM	1416	N	GLU A 175	-1.013	-5.129	-4.504	1.00	98.50	N
ATOM	1417	CA	GLU A 175	0.161	-5.715	-5.145	1.00	98.50	C
ATOM	1418	C	GLU A 175	0.750	-4.770	-6.191	1.00	98.50	C
ATOM	1419	CB	GLU A 175	-0.193	-7.059	-5.789	1.00	98.50	C
ATOM	1420	O	GLU A 175	0.045	-4.324	-7.098	1.00	98.50	O
ATOM	1421	CG	GLU A 175	-0.738	-8.086	-4.809	1.00	98.50	C
ATOM	1422	CD	GLU A 175	-1.193	-9.375	-5.480	1.00	98.50	C
ATOM	1423	OE1	GLU A 175	-0.387	-10.328	-5.574	1.00	98.50	O
ATOM	1424	OE2	GLU A 175	-2.365	-9.430	-5.918	1.00	98.50	O
ATOM	1425	N	ALA A 176	2.004	-4.422	-5.969	1.00	98.31	N
ATOM	1426	CA	ALA A 176	2.666	-3.514	-6.898	1.00	98.31	C
ATOM	1427	C	ALA A 176	4.020	-4.062	-7.336	1.00	98.31	C
ATOM	1428	CB	ALA A 176	2.834	-2.133	-6.266	1.00	98.31	C
ATOM	1429	O	ALA A 176	4.746	-4.652	-6.531	1.00	98.31	O
ATOM	1430	N	SER A 177	4.246	-3.961	-8.625	1.00	98.12	N
ATOM	1431	CA	SER A 177	5.531	-4.391	-9.164	1.00	98.12	C
ATOM	1432	C	SER A 177	6.129	-3.336	-10.086	1.00	98.12	C
ATOM	1433	CB	SER A 177	5.383	-5.715	-9.914	1.00	98.12	C
ATOM	1434	O	SER A 177	5.395	-2.580	-10.734	1.00	98.12	O
ATOM	1435	OG	SER A 177	4.547	-5.559	-11.047	1.00	98.12	O
ATOM	1436	N	GLY A 178	7.445	-3.236	-10.055	1.00	98.19	N
ATOM	1437	CA	GLY A 178	8.188	-2.336	-10.914	1.00	98.19	C
ATOM	1438	C	GLY A 178	9.391	-2.992	-11.570	1.00	98.19	C
ATOM	1439	O	GLY A 178	10.039	-3.850	-10.961	1.00	98.19	O
ATOM	1440	N	LEU A 179	9.594	-2.625	-12.836	1.00	98.25	N
ATOM	1441	CA	LEU A 179	10.758	-3.104	-13.570	1.00	98.25	C
ATOM	1442	C	LEU A 179	11.469	-1.949	-14.266	1.00	98.25	C
ATOM	1443	CB	LEU A 179	10.344	-4.156	-14.602	1.00	98.25	C
ATOM	1444	O	LEU A 179	10.859	-1.209	-15.039	1.00	98.25	O
ATOM	1445	CG	LEU A 179	11.445	-4.680	-15.516	1.00	98.25	C
ATOM	1446	CD1	LEU A 179	12.492	-5.441	-14.711	1.00	98.25	C
ATOM	1447	CD2	LEU A 179	10.859	-5.562	-16.609	1.00	98.25	C
ATOM	1448	N	LEU A 180	12.750	-1.852	-13.922	1.00	98.12	N
ATOM	1449	CA	LEU A 180	13.609	-0.870	-14.570	1.00	98.12	C
ATOM	1450	C	LEU A 180	14.672	-1.556	-15.422	1.00	98.12	C

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ATOM	1451	CB	LEU A 180	14.289	0.019	-13.516	1.00	98.12	C
ATOM	1452	O	LEU A 180	15.477	-2.340	-14.914	1.00	98.12	O
ATOM	1453	CG	LEU A 180	15.344	0.999	-14.039	1.00	98.12	C
ATOM	1454	CD1	LEU A 180	14.695	2.037	-14.945	1.00	98.12	C
ATOM	1455	CD2	LEU A 180	16.062	1.675	-12.875	1.00	98.12	C
ATOM	1456	N	ARG A 181	14.609	-1.230	-16.719	1.00	98.00	N
ATOM	1457	CA	ARG A 181	15.609	-1.758	-17.641	1.00	98.00	C
ATOM	1458	C	ARG A 181	16.484	-0.638	-18.203	1.00	98.00	C
ATOM	1459	CB	ARG A 181	14.945	-2.523	-18.781	1.00	98.00	C
ATOM	1460	O	ARG A 181	15.969	0.343	-18.734	1.00	98.00	O
ATOM	1461	CG	ARG A 181	14.312	-3.840	-18.359	1.00	98.00	C
ATOM	1462	CD	ARG A 181	13.719	-4.590	-19.531	1.00	98.00	C
ATOM	1463	NE	ARG A 181	13.125	-5.859	-19.125	1.00	98.00	N
ATOM	1464	NH1	ARG A 181	11.859	-6.121	-21.047	1.00	98.00	N
ATOM	1465	NH2	ARG A 181	11.773	-7.699	-19.375	1.00	98.00	N
ATOM	1466	CZ	ARG A 181	12.258	-6.559	-19.844	1.00	98.00	C
ATOM	1467	N	LYS A 182	17.828	-0.895	-18.031	1.00	97.06	N
ATOM	1468	CA	LYS A 182	18.797	0.038	-18.594	1.00	97.06	C
ATOM	1469	C	LYS A 182	19.688	-0.655	-19.609	1.00	97.06	C
ATOM	1470	CB	LYS A 182	19.641	0.668	-17.484	1.00	97.06	C
ATOM	1471	O	LYS A 182	20.188	-1.756	-19.359	1.00	97.06	O
ATOM	1472	CG	LYS A 182	18.859	1.557	-16.531	1.00	97.06	C
ATOM	1473	CD	LYS A 182	19.766	2.172	-15.477	1.00	97.06	C
ATOM	1474	CE	LYS A 182	18.969	3.037	-14.500	1.00	97.06	C
ATOM	1475	NZ	LYS A 182	19.859	3.641	-13.453	1.00	97.06	N
ATOM	1476	N	ARG A 183	19.750	0.009	-20.750	1.00	97.00	N
ATOM	1477	CA	ARG A 183	20.672	-0.480	-21.781	1.00	97.00	C
ATOM	1478	C	ARG A 183	21.719	0.566	-22.109	1.00	97.00	C
ATOM	1479	CB	ARG A 183	19.906	-0.873	-23.047	1.00	97.00	C
ATOM	1480	O	ARG A 183	21.391	1.711	-22.422	1.00	97.00	O
ATOM	1481	CG	ARG A 183	20.781	-1.481	-24.125	1.00	97.00	C
ATOM	1482	CD	ARG A 183	19.969	-1.874	-25.359	1.00	97.00	C
ATOM	1483	NE	ARG A 183	20.828	-2.260	-26.469	1.00	97.00	N
ATOM	1484	NH1	ARG A 183	19.109	-2.428	-28.000	1.00	97.00	N
ATOM	1485	NH2	ARG A 183	21.266	-2.857	-28.641	1.00	97.00	N
ATOM	1486	CZ	ARG A 183	20.406	-2.514	-27.703	1.00	97.00	C
ATOM	1487	N	LEU A 184	23.047	0.095	-22.031	1.00	94.94	N
ATOM	1488	CA	LEU A 184	24.141	0.989	-22.391	1.00	94.94	C
ATOM	1489	C	LEU A 184	24.234	1.139	-23.906	1.00	94.94	C
ATOM	1490	CB	LEU A 184	25.453	0.471	-21.828	1.00	94.94	C
ATOM	1491	O	LEU A 184	24.000	0.181	-24.641	1.00	94.94	O
ATOM	1492	CG	LEU A 184	25.547	0.334	-20.312	1.00	94.94	C
ATOM	1493	CD1	LEU A 184	26.859	-0.312	-19.906	1.00	94.94	C
ATOM	1494	CD2	LEU A 184	25.391	1.694	-19.641	1.00	94.94	C
ATOM	1495	N	LEU A 185	24.359	2.352	-24.422	1.00	91.19	N
ATOM	1496	CA	LEU A 185	24.484	2.604	-25.859	1.00	91.19	C
ATOM	1497	C	LEU A 185	25.953	2.703	-26.266	1.00	91.19	C
ATOM	1498	CB	LEU A 185	23.750	3.889	-26.250	1.00	91.19	C
ATOM	1499	O	LEU A 185	26.797	3.086	-25.453	1.00	91.19	O
ATOM	1500	CG	LEU A 185	22.234	3.895	-26.016	1.00	91.19	C
ATOM	1501	CD1	LEU A 185	21.672	5.285	-26.281	1.00	91.19	C
ATOM	1502	CD2	LEU A 185	21.562	2.857	-26.906	1.00	91.19	C
ATOM	1503	N	PRO A 186	26.297	2.139	-27.562	1.00	83.56	N

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ATOM	1504	CA	PRO A 186	27.656	2.279	-28.094	1.00	83.56	C
ATOM	1505	C	PRO A 186	28.078	3.738	-28.250	1.00	83.56	C
ATOM	1506	CB	PRO A 186	27.594	1.576	-29.453	1.00	83.56	C
ATOM	1507	O	PRO A 186	27.250	4.594	-28.547	1.00	83.56	O
ATOM	1508	CG	PRO A 186	26.141	1.309	-29.672	1.00	83.56	C
ATOM	1509	CD	PRO A 186	25.391	1.639	-28.406	1.00	83.56	C
TER	1510		PRO A 186						
END									
ATOM	1	N	ALA A 8	32.375	2.023	-27.109	1.00	76.44	N
ATOM	2	CA	ALA A 8	31.781	2.484	-25.859	1.00	76.44	C
ATOM	3	C	ALA A 8	30.547	1.660	-25.500	1.00	76.44	C
ATOM	4	CB	ALA A 8	31.422	3.965	-25.953	1.00	76.44	C
ATOM	5	O	ALA A 8	29.734	1.348	-26.375	1.00	76.44	O
ATOM	6	N	THR A 9	30.641	0.834	-24.500	1.00	83.94	N
ATOM	7	CA	THR A 9	29.547	0.070	-23.906	1.00	83.94	C
ATOM	8	C	THR A 9	28.609	0.981	-23.109	1.00	83.94	C
ATOM	9	CB	THR A 9	30.078	-1.053	-23.000	1.00	83.94	C
ATOM	10	O	THR A 9	29.062	1.754	-22.266	1.00	83.94	O
ATOM	11	CG2	THR A 9	28.938	-1.922	-22.484	1.00	83.94	C
ATOM	12	OG1	THR A 9	30.984	-1.873	-23.734	1.00	83.94	O
ATOM	13	N	LYS A 10	27.344	0.988	-23.422	1.00	88.75	N
ATOM	14	CA	LYS A 10	26.281	1.656	-22.688	1.00	88.75	C
ATOM	15	C	LYS A 10	25.453	0.652	-21.891	1.00	88.75	C
ATOM	16	CB	LYS A 10	25.375	2.447	-23.625	1.00	88.75	C
ATOM	17	O	LYS A 10	25.266	-0.489	-22.312	1.00	88.75	O
ATOM	18	CG	LYS A 10	26.047	3.650	-24.266	1.00	88.75	C
ATOM	19	CD	LYS A 10	25.062	4.484	-25.078	1.00	88.75	C
ATOM	20	CE	LYS A 10	25.734	5.695	-25.703	1.00	88.75	C
ATOM	21	NZ	LYS A 10	24.781	6.488	-26.531	1.00	88.75	N
ATOM	22	N	TYR A 11	25.109	1.086	-20.672	1.00	93.31	N
ATOM	23	CA	TYR A 11	24.297	0.265	-19.781	1.00	93.31	C
ATOM	24	C	TYR A 11	22.922	0.894	-19.562	1.00	93.31	C
ATOM	25	CB	TYR A 11	25.000	0.066	-18.453	1.00	93.31	C
ATOM	26	O	TYR A 11	22.812	2.113	-19.422	1.00	93.31	O
ATOM	27	CG	TYR A 11	26.344	-0.619	-18.562	1.00	93.31	C
ATOM	28	CD1	TYR A 11	26.453	-2.004	-18.453	1.00	93.31	C
ATOM	29	CD2	TYR A 11	27.500	0.118	-18.766	1.00	93.31	C
ATOM	30	CE1	TYR A 11	27.688	-2.639	-18.562	1.00	93.31	C
ATOM	31	CE2	TYR A 11	28.750	-0.506	-18.875	1.00	93.31	C
ATOM	32	OH	TYR A 11	30.047	-2.506	-18.875	1.00	93.31	O
ATOM	33	CZ	TYR A 11	28.828	-1.883	-18.766	1.00	93.31	C
ATOM	34	N	SER A 12	21.891	0.086	-19.625	1.00	94.56	N
ATOM	35	CA	SER A 12	20.531	0.562	-19.422	1.00	94.56	C
ATOM	36	C	SER A 12	19.781	-0.312	-18.422	1.00	94.56	C
ATOM	37	CB	SER A 12	19.766	0.592	-20.750	1.00	94.56	C
ATOM	38	O	SER A 12	19.969	-1.527	-18.375	1.00	94.56	O
ATOM	39	OG	SER A 12	18.453	1.087	-20.562	1.00	94.56	O
ATOM	40	N	VAL A 13	19.000	0.325	-17.562	1.00	95.75	N
ATOM	41	CA	VAL A 13	18.078	-0.365	-16.672	1.00	95.75	C
ATOM	42	C	VAL A 13	16.641	0.017	-17.016	1.00	95.75	C
ATOM	43	CB	VAL A 13	18.391	-0.039	-15.188	1.00	95.75	C
ATOM	44	O	VAL A 13	16.328	1.199	-17.172	1.00	95.75	O
ATOM	45	CG1	VAL A 13	17.438	-0.808	-14.266	1.00	95.75	C

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ATOM	46	CG2 VAL A 13	19.844	-0.359	-14.859	1.00	95.75	C
ATOM	47	N LYS A 14	15.836	-0.996	-17.234	1.00	96.94	N
ATOM	48	CA LYS A 14	14.414	-0.828	-17.531	1.00	96.94	C
ATOM	49	C LYS A 14	13.555	-1.468	-16.438	1.00	96.94	C
ATOM	50	CB LYS A 14	14.062	-1.429	-18.891	1.00	96.94	C
ATOM	51	O LYS A 14	13.844	-2.578	-15.984	1.00	96.94	O
ATOM	52	CG LYS A 14	12.648	-1.132	-19.359	1.00	96.94	C
ATOM	53	CD LYS A 14	12.391	-1.667	-20.750	1.00	96.94	C
ATOM	54	CE LYS A 14	10.984	-1.349	-21.234	1.00	96.94	C
ATOM	55	NZ LYS A 14	10.742	-1.842	-22.625	1.00	96.94	N
ATOM	56	N LEU A 15	12.531	-0.708	-15.938	1.00	97.56	N
ATOM	57	CA LEU A 15	11.586	-1.228	-14.953	1.00	97.56	C
ATOM	58	C LEU A 15	10.164	-1.238	-15.516	1.00	97.56	C
ATOM	59	CB LEU A 15	11.633	-0.394	-13.672	1.00	97.56	C
ATOM	60	O LEU A 15	9.664	-0.208	-15.969	1.00	97.56	O
ATOM	61	CG LEU A 15	10.609	-0.752	-12.586	1.00	97.56	C
ATOM	62	CD1 LEU A 15	10.930	-2.115	-11.984	1.00	97.56	C
ATOM	63	CD2 LEU A 15	10.578	0.323	-11.508	1.00	97.56	C
ATOM	64	N ASN A 16	9.578	-2.404	-15.555	1.00	97.81	N
ATOM	65	CA ASN A 16	8.172	-2.576	-15.898	1.00	97.81	C
ATOM	66	C ASN A 16	7.324	-2.848	-14.656	1.00	97.81	C
ATOM	67	CB ASN A 16	7.996	-3.703	-16.922	1.00	97.81	C
ATOM	68	O ASN A 16	7.527	-3.848	-13.969	1.00	97.81	O
ATOM	69	CG ASN A 16	8.758	-3.453	-18.203	1.00	97.81	C
ATOM	70	ND2 ASN A 16	9.516	-4.449	-18.641	1.00	97.81	N
ATOM	71	OD1 ASN A 16	8.672	-2.371	-18.781	1.00	97.81	O
ATOM	72	N LEU A 17	6.367	-1.964	-14.383	1.00	98.06	N
ATOM	73	CA LEU A 17	5.523	-2.082	-13.195	1.00	98.06	C
ATOM	74	C LEU A 17	4.059	-2.234	-13.586	1.00	98.06	C
ATOM	75	CB LEU A 17	5.695	-0.862	-12.289	1.00	98.06	C
ATOM	76	O LEU A 17	3.533	-1.438	-14.367	1.00	98.06	O
ATOM	77	CG LEU A 17	4.711	-0.737	-11.125	1.00	98.06	C
ATOM	78	CD1 LEU A 17	4.949	-1.852	-10.109	1.00	98.06	C
ATOM	79	CD2 LEU A 17	4.836	0.631	-10.461	1.00	98.06	C
ATOM	80	N THR A 18	3.461	-3.299	-13.164	1.00	98.19	N
ATOM	81	CA THR A 18	2.012	-3.451	-13.219	1.00	98.19	C
ATOM	82	C THR A 18	1.393	-3.285	-11.836	1.00	98.19	C
ATOM	83	CB THR A 18	1.619	-4.824	-13.805	1.00	98.19	C
ATOM	84	O THR A 18	1.722	-4.027	-10.914	1.00	98.19	O
ATOM	85	CG2 THR A 18	0.105	-4.957	-13.914	1.00	98.19	C
ATOM	86	OG1 THR A 18	2.203	-4.973	-15.102	1.00	98.19	O
ATOM	87	N LEU A 19	0.538	-2.318	-11.688	1.00	98.38	N
ATOM	88	CA LEU A 19	-0.114	-2.020	-10.422	1.00	98.38	C
ATOM	89	C LEU A 19	-1.601	-2.355	-10.477	1.00	98.38	C
ATOM	90	CB LEU A 19	0.073	-0.544	-10.055	1.00	98.38	C
ATOM	91	O LEU A 19	-2.344	-1.769	-11.266	1.00	98.38	O
ATOM	92	CG LEU A 19	-0.546	-0.088	-8.734	1.00	98.38	C
ATOM	93	CD1 LEU A 19	0.076	-0.849	-7.566	1.00	98.38	C
ATOM	94	CD2 LEU A 19	-0.372	1.416	-8.547	1.00	98.38	C
ATOM	95	N ASN A 20	-1.988	-3.273	-9.672	1.00	98.19	N
ATOM	96	CA ASN A 20	-3.385	-3.674	-9.539	1.00	98.19	C
ATOM	97	C ASN A 20	-3.973	-3.234	-8.203	1.00	98.19	C
ATOM	98	CB ASN A 20	-3.527	-5.188	-9.711	1.00	98.19	C

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ATOM	99	O	ASN A 20	-3.451	-3.588	-7.145	1.00	98.19	O
ATOM	100	CG	ASN A 20	-2.961	-5.684	-11.031	1.00	98.19	C
ATOM	101	ND2	ASN A 20	-1.849	-6.406	-10.961	1.00	98.19	N
ATOM	102	OD1	ASN A 20	-3.518	-5.418	-12.094	1.00	98.19	O
ATOM	103	N	THR A 21	-5.051	-2.529	-8.258	1.00	97.88	N
ATOM	104	CA	THR A 21	-5.648	-1.998	-7.039	1.00	97.88	C
ATOM	105	C	THR A 21	-7.090	-2.475	-6.891	1.00	97.88	C
ATOM	106	CB	THR A 21	-5.609	-0.459	-7.020	1.00	97.88	C
ATOM	107	O	THR A 21	-7.859	-2.447	-7.852	1.00	97.88	O
ATOM	108	CG2	THR A 21	-6.129	0.090	-5.695	1.00	97.88	C
ATOM	109	OG1	THR A 21	-4.258	-0.019	-7.207	1.00	97.88	O
ATOM	110	N	LYS A 22	-7.344	-2.951	-5.738	1.00	96.50	N
ATOM	111	CA	LYS A 22	-8.703	-3.322	-5.355	1.00	96.50	C
ATOM	112	C	LYS A 22	-9.039	-2.814	-3.957	1.00	96.50	C
ATOM	113	CB	LYS A 22	-8.883	-4.840	-5.418	1.00	96.50	C
ATOM	114	O	LYS A 22	-8.266	-3.006	-3.018	1.00	96.50	O
ATOM	115	CG	LYS A 22	-8.805	-5.414	-6.828	1.00	96.50	C
ATOM	116	CD	LYS A 22	-9.031	-6.918	-6.832	1.00	96.50	C
ATOM	117	CE	LYS A 22	-8.875	-7.508	-8.227	1.00	96.50	C
ATOM	118	NZ	LYS A 22	-9.062	-8.984	-8.227	1.00	96.50	N
ATOM	119	N	SER A 23	-10.117	-2.148	-3.842	1.00	97.31	N
ATOM	120	CA	SER A 23	-10.516	-1.601	-2.549	1.00	97.31	C
ATOM	121	C	SER A 23	-12.008	-1.782	-2.303	1.00	97.31	C
ATOM	122	CB	SER A 23	-10.156	-0.117	-2.461	1.00	97.31	C
ATOM	123	O	SER A 23	-12.820	-1.556	-3.199	1.00	97.31	O
ATOM	124	OG	SER A 23	-10.594	0.437	-1.233	1.00	97.31	O
ATOM	125	N	LYS A 24	-12.328	-2.205	-1.086	1.00	97.06	N
ATOM	126	CA	LYS A 24	-13.719	-2.447	-0.714	1.00	97.06	C
ATOM	127	C	LYS A 24	-14.000	-1.953	0.702	1.00	97.06	C
ATOM	128	CB	LYS A 24	-14.055	-3.936	-0.827	1.00	97.06	C
ATOM	129	O	LYS A 24	-13.117	-1.972	1.561	1.00	97.06	O
ATOM	130	CG	LYS A 24	-13.305	-4.816	0.167	1.00	97.06	C
ATOM	131	CD	LYS A 24	-13.680	-6.281	-0.000	1.00	97.06	C
ATOM	132	CE	LYS A 24	-12.945	-7.164	1.002	1.00	97.06	C
ATOM	133	NZ	LYS A 24	-13.305	-8.602	0.843	1.00	97.06	N
ATOM	134	N	PHE A 25	-15.219	-1.481	0.920	1.00	97.31	N
ATOM	135	CA	PHE A 25	-15.711	-1.043	2.223	1.00	97.31	C
ATOM	136	C	PHE A 25	-17.000	-1.771	2.588	1.00	97.31	C
ATOM	137	CB	PHE A 25	-15.938	0.471	2.229	1.00	97.31	C
ATOM	138	O	PHE A 25	-17.906	-1.895	1.762	1.00	97.31	O
ATOM	139	CG	PHE A 25	-16.609	0.976	3.477	1.00	97.31	C
ATOM	140	CD1	PHE A 25	-17.969	1.318	3.465	1.00	97.31	C
ATOM	141	CD2	PHE A 25	-15.898	1.108	4.660	1.00	97.31	C
ATOM	142	CE1	PHE A 25	-18.594	1.786	4.617	1.00	97.31	C
ATOM	143	CE2	PHE A 25	-16.516	1.574	5.816	1.00	97.31	C
ATOM	144	CZ	PHE A 25	-17.859	1.914	5.793	1.00	97.31	C
ATOM	145	N	SER A 26	-17.031	-2.287	3.770	1.00	97.12	N
ATOM	146	CA	SER A 26	-18.250	-2.936	4.266	1.00	97.12	C
ATOM	147	C	SER A 26	-18.719	-2.299	5.566	1.00	97.12	C
ATOM	148	CB	SER A 26	-18.000	-4.430	4.477	1.00	97.12	C
ATOM	149	O	SER A 26	-17.906	-1.891	6.398	1.00	97.12	O
ATOM	150	OG	SER A 26	-17.016	-4.645	5.465	1.00	97.12	O
ATOM	151	N	TYR A 27	-20.062	-2.258	5.672	1.00	95.19	N

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ATOM	152	CA	TYR	A	27	-20.734	-1.631	6.812	1.00	95.19	C
ATOM	153	C	TYR	A	27	-21.859	-2.508	7.340	1.00	95.19	C
ATOM	154	CB	TYR	A	27	-21.266	-0.252	6.430	1.00	95.19	C
ATOM	155	O	TYR	A	27	-22.719	-2.955	6.574	1.00	95.19	O
ATOM	156	CG	TYR	A	27	-22.000	0.451	7.551	1.00	95.19	C
ATOM	157	CD1	TYR	A	27	-23.375	0.401	7.656	1.00	95.19	C
ATOM	158	CD2	TYR	A	27	-21.281	1.169	8.516	1.00	95.19	C
ATOM	159	CE1	TYR	A	27	-24.047	1.050	8.688	1.00	95.19	C
ATOM	160	CE2	TYR	A	27	-21.953	1.822	9.547	1.00	95.19	C
ATOM	161	OH	TYR	A	27	-23.984	2.400	10.656	1.00	95.19	O
ATOM	162	CZ	TYR	A	27	-23.328	1.756	9.633	1.00	95.19	C
ATOM	163	N	GLU	A	28	-21.766	-2.846	8.625	1.00	97.44	N
ATOM	164	CA	GLU	A	28	-22.812	-3.643	9.266	1.00	97.44	C
ATOM	165	C	GLU	A	28	-23.406	-2.922	10.477	1.00	97.44	C
ATOM	166	CB	GLU	A	28	-22.281	-5.012	9.672	1.00	97.44	C
ATOM	167	O	GLU	A	28	-22.656	-2.387	11.305	1.00	97.44	O
ATOM	168	CG	GLU	A	28	-21.797	-5.855	8.508	1.00	97.44	C
ATOM	169	CD	GLU	A	28	-21.297	-7.230	8.922	1.00	97.44	C
ATOM	170	OE1	GLU	A	28	-20.984	-8.062	8.039	1.00	97.44	O
ATOM	171	OE2	GLU	A	28	-21.203	-7.477	10.148	1.00	97.44	O
ATOM	172	N	TYR	A	29	-24.734	-2.918	10.516	1.00	95.25	N
ATOM	173	CA	TYR	A	29	-25.438	-2.307	11.641	1.00	95.25	C
ATOM	174	C	TYR	A	29	-26.266	-3.342	12.398	1.00	95.25	C
ATOM	175	CB	TYR	A	29	-26.359	-1.177	11.148	1.00	95.25	C
ATOM	176	O	TYR	A	29	-27.078	-4.059	11.805	1.00	95.25	O
ATOM	177	CG	TYR	A	29	-26.953	-0.359	12.266	1.00	95.25	C
ATOM	178	CD1	TYR	A	29	-28.281	-0.569	12.672	1.00	95.25	C
ATOM	179	CD2	TYR	A	29	-26.219	0.625	12.906	1.00	95.25	C
ATOM	180	CE1	TYR	A	29	-28.844	0.183	13.695	1.00	95.25	C
ATOM	181	CE2	TYR	A	29	-26.781	1.383	13.938	1.00	95.25	C
ATOM	182	OH	TYR	A	29	-28.641	1.902	15.336	1.00	95.25	O
ATOM	183	CZ	TYR	A	29	-28.078	1.155	14.320	1.00	95.25	C
ATOM	184	N	TYR	A	30	-26.016	-3.352	13.711	1.00	96.31	N
ATOM	185	CA	TYR	A	30	-26.719	-4.301	14.570	1.00	96.31	C
ATOM	186	C	TYR	A	30	-27.562	-3.578	15.609	1.00	96.31	C
ATOM	187	CB	TYR	A	30	-25.703	-5.223	15.273	1.00	96.31	C
ATOM	188	O	TYR	A	30	-27.234	-2.465	16.016	1.00	96.31	O
ATOM	189	CG	TYR	A	30	-24.922	-6.094	14.320	1.00	96.31	C
ATOM	190	CD1	TYR	A	30	-25.281	-7.418	14.094	1.00	96.31	C
ATOM	191	CD2	TYR	A	30	-23.812	-5.590	13.648	1.00	96.31	C
ATOM	192	CE1	TYR	A	30	-24.547	-8.227	13.219	1.00	96.31	C
ATOM	193	CE2	TYR	A	30	-23.078	-6.387	12.773	1.00	96.31	C
ATOM	194	OH	TYR	A	30	-22.734	-8.492	11.703	1.00	96.31	O
ATOM	195	CZ	TYR	A	30	-23.453	-7.699	12.570	1.00	96.31	C
ATOM	196	N	ASN	A	31	-28.688	-4.191	15.953	1.00	93.62	N
ATOM	197	CA	ASN	A	31	-29.422	-3.688	17.109	1.00	93.62	C
ATOM	198	C	ASN	A	31	-28.797	-4.156	18.422	1.00	93.62	C
ATOM	199	CB	ASN	A	31	-30.891	-4.117	17.031	1.00	93.62	C
ATOM	200	O	ASN	A	31	-27.750	-4.812	18.406	1.00	93.62	O
ATOM	201	CG	ASN	A	31	-31.062	-5.617	17.141	1.00	93.62	C
ATOM	202	ND2	ASN	A	31	-32.281	-6.098	16.859	1.00	93.62	N
ATOM	203	OD1	ASN	A	31	-30.125	-6.340	17.500	1.00	93.62	O
ATOM	204	N	ALA	A	32	-29.375	-3.791	19.625	1.00	91.12	N

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ATOM	205	CA	ALA	A	32	-28.812	-4.055	20.953	1.00	91.12	C
ATOM	206	C	ALA	A	32	-28.797	-5.551	21.250	1.00	91.12	C
ATOM	207	CB	ALA	A	32	-29.609	-3.311	22.031	1.00	91.12	C
ATOM	208	O	ALA	A	32	-27.969	-6.020	22.047	1.00	91.12	O
ATOM	209	N	GLU	A	33	-29.672	-6.324	20.531	1.00	93.44	N
ATOM	210	CA	GLU	A	33	-29.797	-7.754	20.797	1.00	93.44	C
ATOM	211	C	GLU	A	33	-28.844	-8.570	19.922	1.00	93.44	C
ATOM	212	CB	GLU	A	33	-31.250	-8.211	20.562	1.00	93.44	C
ATOM	213	O	GLU	A	33	-28.781	-9.797	20.047	1.00	93.44	O
ATOM	214	CG	GLU	A	33	-32.250	-7.594	21.531	1.00	93.44	C
ATOM	215	CD	GLU	A	33	-33.656	-8.133	21.375	1.00	93.44	C
ATOM	216	OE1	GLU	A	33	-34.281	-8.484	22.391	1.00	93.44	O
ATOM	217	OE2	GLU	A	33	-34.125	-8.211	20.219	1.00	93.44	O
ATOM	218	N	GLY	A	34	-28.172	-7.773	19.000	1.00	92.25	N
ATOM	219	CA	GLY	A	34	-27.188	-8.453	18.172	1.00	92.25	C
ATOM	220	C	GLY	A	34	-27.734	-8.883	16.828	1.00	92.25	C
ATOM	221	O	GLY	A	34	-27.078	-9.625	16.094	1.00	92.25	O
ATOM	222	N	GLU	A	35	-28.953	-8.406	16.500	1.00	95.50	N
ATOM	223	CA	GLU	A	35	-29.516	-8.727	15.195	1.00	95.50	C
ATOM	224	C	GLU	A	35	-29.016	-7.770	14.117	1.00	95.50	C
ATOM	225	CB	GLU	A	35	-31.047	-8.703	15.258	1.00	95.50	C
ATOM	226	O	GLU	A	35	-28.938	-6.562	14.344	1.00	95.50	O
ATOM	227	CG	GLU	A	35	-31.641	-9.727	16.203	1.00	95.50	C
ATOM	228	CD	GLU	A	35	-33.156	-9.656	16.297	1.00	95.50	C
ATOM	229	OE1	GLU	A	35	-33.812	-10.719	16.422	1.00	95.50	O
ATOM	230	OE2	GLU	A	35	-33.688	-8.523	16.250	1.00	95.50	O
ATOM	231	N	LEU	A	36	-28.609	-8.344	12.977	1.00	96.62	N
ATOM	232	CA	LEU	A	36	-28.172	-7.543	11.844	1.00	96.62	C
ATOM	233	C	LEU	A	36	-29.344	-6.785	11.227	1.00	96.62	C
ATOM	234	CB	LEU	A	36	-27.516	-8.430	10.781	1.00	96.62	C
ATOM	235	O	LEU	A	36	-30.312	-7.398	10.773	1.00	96.62	O
ATOM	236	CG	LEU	A	36	-27.016	-7.719	9.523	1.00	96.62	C
ATOM	237	CD1	LEU	A	36	-25.891	-6.750	9.859	1.00	96.62	C
ATOM	238	CD2	LEU	A	36	-26.562	-8.734	8.477	1.00	96.62	C
ATOM	239	N	LEU	A	37	-29.234	-5.477	11.289	1.00	95.88	N
ATOM	240	CA	LEU	A	37	-30.328	-4.656	10.758	1.00	95.88	C
ATOM	241	C	LEU	A	37	-30.047	-4.254	9.312	1.00	95.88	C
ATOM	242	CB	LEU	A	37	-30.516	-3.406	11.617	1.00	95.88	C
ATOM	243	O	LEU	A	37	-30.953	-4.207	8.492	1.00	95.88	O
ATOM	244	CG	LEU	A	37	-31.000	-3.641	13.055	1.00	95.88	C
ATOM	245	CD1	LEU	A	37	-31.078	-2.318	13.805	1.00	95.88	C
ATOM	246	CD2	LEU	A	37	-32.375	-4.340	13.055	1.00	95.88	C
ATOM	247	N	LYS	A	38	-28.719	-4.059	9.148	1.00	95.06	N
ATOM	248	CA	LYS	A	38	-28.328	-3.576	7.824	1.00	95.06	C
ATOM	249	C	LYS	A	38	-26.891	-3.971	7.500	1.00	95.06	C
ATOM	250	CB	LYS	A	38	-28.484	-2.057	7.738	1.00	95.06	C
ATOM	251	O	LYS	A	38	-26.031	-3.986	8.383	1.00	95.06	O
ATOM	252	CG	LYS	A	38	-28.234	-1.486	6.352	1.00	95.06	C
ATOM	253	CD	LYS	A	38	-28.469	0.017	6.312	1.00	95.06	C
ATOM	254	CE	LYS	A	38	-28.219	0.590	4.926	1.00	95.06	C
ATOM	255	NZ	LYS	A	38	-28.484	2.059	4.875	1.00	95.06	N
ATOM	256	N	GLU	A	39	-26.688	-4.383	6.160	1.00	96.56	N
ATOM	257	CA	GLU	A	39	-25.359	-4.664	5.637	1.00	96.56	C

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ATOM	258	C	GLU A 39	-25.156	-4.020	4.266	1.00	96.56	C
ATOM	259	CB	GLU A 39	-25.125	-6.172	5.547	1.00	96.56	C
ATOM	260	O	GLU A 39	-26.016	-4.152	3.381	1.00	96.56	O
ATOM	261	CG	GLU A 39	-23.750	-6.551	5.012	1.00	96.56	C
ATOM	262	CD	GLU A 39	-23.531	-8.055	4.918	1.00	96.56	C
ATOM	263	OE1	GLU A 39	-22.375	-8.492	4.734	1.00	96.56	O
ATOM	264	OE2	GLU A 39	-24.531	-8.797	5.027	1.00	96.56	O
ATOM	265	N	GLU A 40	-24.047	-3.291	4.180	1.00	95.81	N
ATOM	266	CA	GLU A 40	-23.703	-2.664	2.906	1.00	95.81	C
ATOM	267	C	GLU A 40	-22.250	-2.928	2.535	1.00	95.81	C
ATOM	268	CB	GLU A 40	-23.969	-1.157	2.961	1.00	95.81	C
ATOM	269	O	GLU A 40	-21.359	-2.922	3.400	1.00	95.81	O
ATOM	270	CG	GLU A 40	-23.891	-0.471	1.604	1.00	95.81	C
ATOM	271	CD	GLU A 40	-24.344	0.979	1.641	1.00	95.81	C
ATOM	272	OE1	GLU A 40	-23.906	1.777	0.786	1.00	95.81	O
ATOM	273	OE2	GLU A 40	-25.156	1.320	2.533	1.00	95.81	O
ATOM	274	N	GLU A 41	-22.078	-3.184	1.230	1.00	96.44	N
ATOM	275	CA	GLU A 41	-20.734	-3.320	0.680	1.00	96.44	C
ATOM	276	C	GLU A 41	-20.516	-2.354	-0.480	1.00	96.44	C
ATOM	277	CB	GLU A 41	-20.484	-4.758	0.219	1.00	96.44	C
ATOM	278	O	GLU A 41	-21.328	-2.275	-1.396	1.00	96.44	O
ATOM	279	CG	GLU A 41	-20.297	-5.746	1.362	1.00	96.44	C
ATOM	280	CD	GLU A 41	-19.906	-7.141	0.894	1.00	96.44	C
ATOM	281	OE1	GLU A 41	-19.078	-7.801	1.564	1.00	96.44	O
ATOM	282	OE2	GLU A 41	-20.438	-7.578	-0.153	1.00	96.44	O
ATOM	283	N	ILE A 42	-19.422	-1.662	-0.381	1.00	94.50	N
ATOM	284	CA	ILE A 42	-19.109	-0.662	-1.397	1.00	94.50	C
ATOM	285	C	ILE A 42	-17.750	-0.969	-2.033	1.00	94.50	C
ATOM	286	CB	ILE A 42	-19.109	0.765	-0.806	1.00	94.50	C
ATOM	287	O	ILE A 42	-16.750	-1.095	-1.331	1.00	94.50	O
ATOM	288	CG1	ILE A 42	-20.453	1.056	-0.119	1.00	94.50	C
ATOM	289	CG2	ILE A 42	-18.828	1.802	-1.894	1.00	94.50	C
ATOM	290	CD1	ILE A 42	-20.453	2.312	0.739	1.00	94.50	C
ATOM	291	N	GLU A 43	-17.891	-1.204	-3.318	1.00	95.69	N
ATOM	292	CA	GLU A 43	-16.625	-1.243	-4.043	1.00	95.69	C
ATOM	293	C	GLU A 43	-16.078	0.163	-4.293	1.00	95.69	C
ATOM	294	CB	GLU A 43	-16.781	-1.986	-5.371	1.00	95.69	C
ATOM	295	O	GLU A 43	-16.750	0.993	-4.902	1.00	95.69	O
ATOM	296	CG	GLU A 43	-15.477	-2.184	-6.129	1.00	95.69	C
ATOM	297	CD	GLU A 43	-15.656	-2.936	-7.441	1.00	95.69	C
ATOM	298	OE1	GLU A 43	-15.664	-2.291	-8.516	1.00	95.69	O
ATOM	299	OE2	GLU A 43	-15.781	-4.180	-7.395	1.00	95.69	O
ATOM	300	N	ILE A 44	-14.891	0.373	-3.805	1.00	92.94	N
ATOM	301	CA	ILE A 44	-14.297	1.704	-3.877	1.00	92.94	C
ATOM	302	C	ILE A 44	-13.578	1.877	-5.211	1.00	92.94	C
ATOM	303	CB	ILE A 44	-13.328	1.954	-2.703	1.00	92.94	C
ATOM	304	O	ILE A 44	-13.859	2.814	-5.961	1.00	92.94	O
ATOM	305	CG1	ILE A 44	-14.062	1.844	-1.364	1.00	92.94	C
ATOM	306	CG2	ILE A 44	-12.648	3.320	-2.846	1.00	92.94	C
ATOM	307	CD1	ILE A 44	-13.148	1.906	-0.148	1.00	92.94	C
ATOM	308	N	GLU A 45	-12.805	0.954	-5.539	1.00	95.06	N
ATOM	309	CA	GLU A 45	-12.023	1.076	-6.766	1.00	95.06	C
ATOM	310	C	GLU A 45	-11.414	-0.263	-7.168	1.00	95.06	C

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ATOM	311	CB	GLU A 45	-10.922	2.127	-6.602	1.00	95.06	C
ATOM	312	O	GLU A 45	-10.992	-1.044	-6.312	1.00	95.06	O
ATOM	313	CG	GLU A 45	-10.164	2.432	-7.887	1.00	95.06	C
ATOM	314	CD	GLU A 45	-9.281	3.662	-7.785	1.00	95.06	C
ATOM	315	OE1	GLU A 45	-8.758	3.941	-6.684	1.00	95.06	O
ATOM	316	OE2	GLU A 45	-9.102	4.352	-8.812	1.00	95.06	O
ATOM	317	N	GLU A 46	-11.359	-0.489	-8.398	1.00	96.38	N
ATOM	318	CA	GLU A 46	-10.602	-1.561	-9.031	1.00	96.38	C
ATOM	319	C	GLU A 46	-9.930	-1.075	-10.312	1.00	96.38	C
ATOM	320	CB	GLU A 46	-11.508	-2.758	-9.328	1.00	96.38	C
ATOM	321	O	GLU A 46	-10.609	-0.607	-11.234	1.00	96.38	O
ATOM	322	CG	GLU A 46	-10.766	-3.979	-9.852	1.00	96.38	C
ATOM	323	CD	GLU A 46	-11.633	-5.219	-9.945	1.00	96.38	C
ATOM	324	OE1	GLU A 46	-11.109	-6.309	-10.266	1.00	96.38	O
ATOM	325	OE2	GLU A 46	-12.852	-5.102	-9.688	1.00	96.38	O
ATOM	326	N	LYS A 47	-8.711	-1.180	-10.305	1.00	96.56	N
ATOM	327	CA	LYS A 47	-7.996	-0.593	-11.430	1.00	96.56	C
ATOM	328	C	LYS A 47	-6.680	-1.322	-11.688	1.00	96.56	C
ATOM	329	CB	LYS A 47	-7.734	0.894	-11.188	1.00	96.56	C
ATOM	330	O	LYS A 47	-6.074	-1.860	-10.758	1.00	96.56	O
ATOM	331	CG	LYS A 47	-7.062	1.604	-12.352	1.00	96.56	C
ATOM	332	CD	LYS A 47	-6.805	3.072	-12.039	1.00	96.56	C
ATOM	333	CE	LYS A 47	-6.160	3.791	-13.219	1.00	96.56	C
ATOM	334	NZ	LYS A 47	-5.902	5.230	-12.914	1.00	96.56	N
ATOM	335	N	THR A 48	-6.285	-1.381	-12.961	1.00	97.81	N
ATOM	336	CA	THR A 48	-4.980	-1.883	-13.383	1.00	97.81	C
ATOM	337	C	THR A 48	-4.223	-0.821	-14.172	1.00	97.81	C
ATOM	338	CB	THR A 48	-5.121	-3.158	-14.234	1.00	97.81	C
ATOM	339	O	THR A 48	-4.762	-0.238	-15.117	1.00	97.81	O
ATOM	340	CG2	THR A 48	-3.758	-3.656	-14.703	1.00	97.81	C
ATOM	341	OG1	THR A 48	-5.746	-4.184	-13.453	1.00	97.81	O
ATOM	342	N	GLU A 49	-2.986	-0.563	-13.750	1.00	98.12	N
ATOM	343	CA	GLU A 49	-2.143	0.407	-14.445	1.00	98.12	C
ATOM	344	C	GLU A 49	-0.771	-0.181	-14.758	1.00	98.12	C
ATOM	345	CB	GLU A 49	-1.990	1.680	-13.609	1.00	98.12	C
ATOM	346	O	GLU A 49	-0.240	-0.982	-13.984	1.00	98.12	O
ATOM	347	CG	GLU A 49	-3.297	2.426	-13.375	1.00	98.12	C
ATOM	348	CD	GLU A 49	-3.131	3.682	-12.539	1.00	98.12	C
ATOM	349	OE1	GLU A 49	-3.139	4.797	-13.102	1.00	98.12	O
ATOM	350	OE2	GLU A 49	-2.992	3.549	-11.297	1.00	98.12	O
ATOM	351	N	ASN A 50	-0.238	0.225	-15.852	1.00	98.19	N
ATOM	352	CA	ASN A 50	1.083	-0.227	-16.281	1.00	98.19	C
ATOM	353	C	ASN A 50	2.055	0.940	-16.422	1.00	98.19	C
ATOM	354	CB	ASN A 50	0.988	-1.008	-17.594	1.00	98.19	C
ATOM	355	O	ASN A 50	1.703	1.979	-16.984	1.00	98.19	O
ATOM	356	CG	ASN A 50	0.072	-2.211	-17.484	1.00	98.19	C
ATOM	357	ND2	ASN A 50	-1.063	-2.152	-18.172	1.00	98.19	N
ATOM	358	OD1	ASN A 50	0.382	-3.188	-16.797	1.00	98.19	O
ATOM	359	N	TYR A 51	3.215	0.744	-15.875	1.00	97.94	N
ATOM	360	CA	TYR A 51	4.246	1.773	-15.938	1.00	97.94	C
ATOM	361	C	TYR A 51	5.555	1.201	-16.469	1.00	97.94	C
ATOM	362	CB	TYR A 51	4.469	2.400	-14.562	1.00	97.94	C
ATOM	363	O	TYR A 51	5.902	0.055	-16.172	1.00	97.94	O

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ATOM	364	CG	TYR	A	51	3.217	2.973	-13.945	1.00	97.94	C
ATOM	365	CD1	TYR	A	51	2.887	4.316	-14.109	1.00	97.94	C
ATOM	366	CD2	TYR	A	51	2.361	2.174	-13.195	1.00	97.94	C
ATOM	367	CE1	TYR	A	51	1.735	4.852	-13.539	1.00	97.94	C
ATOM	368	CE2	TYR	A	51	1.206	2.697	-12.625	1.00	97.94	C
ATOM	369	OH	TYR	A	51	-0.240	4.559	-12.234	1.00	97.94	O
ATOM	370	CZ	TYR	A	51	0.902	4.035	-12.805	1.00	97.94	C
ATOM	371	N	THR	A	52	6.215	1.980	-17.297	1.00	97.69	N
ATOM	372	CA	THR	A	52	7.547	1.616	-17.766	1.00	97.69	C
ATOM	373	C	THR	A	52	8.523	2.777	-17.578	1.00	97.69	C
ATOM	374	CB	THR	A	52	7.527	1.188	-19.250	1.00	97.69	C
ATOM	375	O	THR	A	52	8.203	3.918	-17.938	1.00	97.69	O
ATOM	376	CG2	THR	A	52	8.914	0.766	-19.719	1.00	97.69	C
ATOM	377	OG1	THR	A	52	6.625	0.086	-19.406	1.00	97.69	O
ATOM	378	N	PHE	A	53	9.680	2.393	-17.000	1.00	96.75	N
ATOM	379	CA	PHE	A	53	10.742	3.369	-16.797	1.00	96.75	C
ATOM	380	C	PHE	A	53	12.062	2.848	-17.359	1.00	96.75	C
ATOM	381	CB	PHE	A	53	10.906	3.705	-15.312	1.00	96.75	C
ATOM	382	O	PHE	A	53	12.312	1.640	-17.359	1.00	96.75	O
ATOM	383	CG	PHE	A	53	9.602	3.994	-14.617	1.00	96.75	C
ATOM	384	CD1	PHE	A	53	9.016	5.250	-14.703	1.00	96.75	C
ATOM	385	CD2	PHE	A	53	8.969	3.010	-13.867	1.00	96.75	C
ATOM	386	CE1	PHE	A	53	7.809	5.520	-14.055	1.00	96.75	C
ATOM	387	CE2	PHE	A	53	7.762	3.273	-13.219	1.00	96.75	C
ATOM	388	CZ	PHE	A	53	7.188	4.531	-13.312	1.00	96.75	C
ATOM	389	N	GLU	A	54	12.812	3.777	-17.828	1.00	96.62	N
ATOM	390	CA	GLU	A	54	14.133	3.395	-18.328	1.00	96.62	C
ATOM	391	C	GLU	A	54	15.164	4.473	-18.016	1.00	96.62	C
ATOM	392	CB	GLU	A	54	14.086	3.115	-19.828	1.00	96.62	C
ATOM	393	O	GLU	A	54	14.883	5.668	-18.141	1.00	96.62	O
ATOM	394	CG	GLU	A	54	15.414	2.670	-20.406	1.00	96.62	C
ATOM	395	CD	GLU	A	54	15.320	2.275	-21.875	1.00	96.62	C
ATOM	396	OE1	GLU	A	54	16.328	1.769	-22.438	1.00	96.62	O
ATOM	397	OE2	GLU	A	54	14.242	2.475	-22.469	1.00	96.62	O
ATOM	398	N	GLU	A	55	16.312	3.955	-17.609	1.00	97.12	N
ATOM	399	CA	GLU	A	55	17.438	4.840	-17.359	1.00	97.12	C
ATOM	400	C	GLU	A	55	18.719	4.277	-17.969	1.00	97.12	C
ATOM	401	CB	GLU	A	55	17.625	5.078	-15.859	1.00	97.12	C
ATOM	402	O	GLU	A	55	19.000	3.082	-17.844	1.00	97.12	O
ATOM	403	CG	GLU	A	55	18.594	6.195	-15.523	1.00	97.12	C
ATOM	404	CD	GLU	A	55	18.484	6.676	-14.086	1.00	97.12	C
ATOM	405	OE1	GLU	A	55	19.297	7.523	-13.664	1.00	97.12	O
ATOM	406	OE2	GLU	A	55	17.578	6.199	-13.375	1.00	97.12	O
ATOM	407	N	THR	A	56	19.500	5.184	-18.641	1.00	94.75	N
ATOM	408	CA	THR	A	56	20.750	4.770	-19.250	1.00	94.75	C
ATOM	409	C	THR	A	56	21.938	5.344	-18.469	1.00	94.75	C
ATOM	410	CB	THR	A	56	20.844	5.203	-20.719	1.00	94.75	C
ATOM	411	O	THR	A	56	21.891	6.484	-18.000	1.00	94.75	O
ATOM	412	CG2	THR	A	56	22.078	4.613	-21.391	1.00	94.75	C
ATOM	413	OG1	THR	A	56	19.672	4.754	-21.422	1.00	94.75	O
ATOM	414	N	VAL	A	57	22.953	4.504	-18.297	1.00	93.88	N
ATOM	415	CA	VAL	A	57	24.156	4.945	-17.594	1.00	93.88	C
ATOM	416	C	VAL	A	57	25.391	4.590	-18.422	1.00	93.88	C

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ATOM	417	CB VAL A 57	24.266	4.320	-16.188	1.00	93.88	C
ATOM	418	O VAL A 57	25.312	3.756	-19.328	1.00	93.88	O
ATOM	419	CG1 VAL A 57	23.125	4.797	-15.297	1.00	93.88	C
ATOM	420	CG2 VAL A 57	24.281	2.795	-16.281	1.00	93.88	C
ATOM	421	N GLU A 58	26.453	5.270	-18.141	1.00	90.25	N
ATOM	422	CA GLU A 58	27.641	5.133	-18.984	1.00	90.25	C
ATOM	423	C GLU A 58	28.531	3.982	-18.500	1.00	90.25	C
ATOM	424	CB GLU A 58	28.438	6.438	-18.984	1.00	90.25	C
ATOM	425	O GLU A 58	29.281	3.402	-19.281	1.00	90.25	O
ATOM	426	CG GLU A 58	27.688	7.613	-19.594	1.00	90.25	C
ATOM	427	CD GLU A 58	27.422	7.457	-21.078	1.00	90.25	C
ATOM	428	OE1 GLU A 58	26.328	7.836	-21.547	1.00	90.25	O
ATOM	429	OE2 GLU A 58	28.328	6.953	-21.797	1.00	90.25	O
ATOM	430	N THR A 59	28.438	3.682	-17.250	1.00	91.00	N
ATOM	431	CA THR A 59	29.312	2.646	-16.703	1.00	91.00	C
ATOM	432	C THR A 59	28.500	1.608	-15.930	1.00	91.00	C
ATOM	433	CB THR A 59	30.391	3.252	-15.773	1.00	91.00	C
ATOM	434	O THR A 59	27.422	1.917	-15.398	1.00	91.00	O
ATOM	435	CG2 THR A 59	31.141	4.379	-16.469	1.00	91.00	C
ATOM	436	OG1 THR A 59	29.750	3.768	-14.594	1.00	91.00	O
ATOM	437	N GLU A 60	28.984	0.456	-15.898	1.00	90.25	N
ATOM	438	CA GLU A 60	28.344	-0.637	-15.172	1.00	90.25	C
ATOM	439	C GLU A 60	28.266	-0.327	-13.680	1.00	90.25	C
ATOM	440	CB GLU A 60	29.109	-1.946	-15.391	1.00	90.25	C
ATOM	441	O GLU A 60	27.312	-0.734	-13.008	1.00	90.25	O
ATOM	442	CG GLU A 60	28.453	-3.156	-14.742	1.00	90.25	C
ATOM	443	CD GLU A 60	29.203	-4.457	-15.008	1.00	90.25	C
ATOM	444	OE1 GLU A 60	28.891	-5.480	-14.359	1.00	90.25	O
ATOM	445	OE2 GLU A 60	30.109	-4.449	-15.859	1.00	90.25	O
ATOM	446	N GLU A 61	29.172	0.385	-13.086	1.00	93.75	N
ATOM	447	CA GLU A 61	29.234	0.745	-11.672	1.00	93.75	C
ATOM	448	C GLU A 61	28.031	1.611	-11.273	1.00	93.75	C
ATOM	449	CB GLU A 61	30.547	1.473	-11.352	1.00	93.75	C
ATOM	450	O GLU A 61	27.656	1.654	-10.102	1.00	93.75	O
ATOM	451	CG GLU A 61	31.781	0.601	-11.492	1.00	93.75	C
ATOM	452	CD GLU A 61	33.062	1.303	-11.062	1.00	93.75	C
ATOM	453	OE1 GLU A 61	33.938	0.637	-10.492	1.00	93.75	O
ATOM	454	OE2 GLU A 61	33.156	2.527	-11.297	1.00	93.75	O
ATOM	455	N ASP A 62	27.438	2.281	-12.242	1.00	94.75	N
ATOM	456	CA ASP A 62	26.344	3.201	-11.961	1.00	94.75	C
ATOM	457	C ASP A 62	25.000	2.486	-12.023	1.00	94.75	C
ATOM	458	CB ASP A 62	26.359	4.375	-12.945	1.00	94.75	C
ATOM	459	O ASP A 62	23.953	3.074	-11.711	1.00	94.75	O
ATOM	460	CG ASP A 62	27.547	5.301	-12.742	1.00	94.75	C
ATOM	461	OD1 ASP A 62	28.000	5.461	-11.586	1.00	94.75	O
ATOM	462	OD2 ASP A 62	28.031	5.871	-13.742	1.00	94.75	O
ATOM	463	N LEU A 63	24.969	1.226	-12.414	1.00	92.88	N
ATOM	464	CA LEU A 63	23.734	0.478	-12.656	1.00	92.88	C
ATOM	465	C LEU A 63	22.938	0.327	-11.359	1.00	92.88	C
ATOM	466	CB LEU A 63	24.047	-0.901	-13.234	1.00	92.88	C
ATOM	467	O LEU A 63	21.719	0.530	-11.352	1.00	92.88	O
ATOM	468	CG LEU A 63	24.297	-0.958	-14.742	1.00	92.88	C
ATOM	469	CD1 LEU A 63	24.766	-2.350	-15.156	1.00	92.88	C

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ATOM	470	CD2 LEU A 63	23.047	-0.569	-15.516	1.00	92.88	C
ATOM	471	N PRO A 64	23.609	0.045	-10.242	1.00	92.44	N
ATOM	472	CA PRO A 64	22.859	-0.116	-9.000	1.00	92.44	C
ATOM	473	C PRO A 64	22.125	1.161	-8.578	1.00	92.44	C
ATOM	474	CB PRO A 64	23.938	-0.493	-7.977	1.00	92.44	C
ATOM	475	O PRO A 64	20.984	1.104	-8.109	1.00	92.44	O
ATOM	476	CG PRO A 64	25.000	-1.169	-8.781	1.00	92.44	C
ATOM	477	CD PRO A 64	25.094	-0.492	-10.117	1.00	92.44	C
ATOM	478	N ALA A 65	22.812	2.256	-8.711	1.00	94.38	N
ATOM	479	CA ALA A 65	22.188	3.527	-8.375	1.00	94.38	C
ATOM	480	C ALA A 65	21.000	3.816	-9.289	1.00	94.38	C
ATOM	481	CB ALA A 65	23.203	4.664	-8.445	1.00	94.38	C
ATOM	482	O ALA A 65	19.969	4.312	-8.844	1.00	94.38	O
ATOM	483	N ALA A 66	21.156	3.562	-10.570	1.00	95.56	N
ATOM	484	CA ALA A 66	20.078	3.748	-11.539	1.00	95.56	C
ATOM	485	C ALA A 66	18.891	2.842	-11.219	1.00	95.56	C
ATOM	486	CB ALA A 66	20.578	3.484	-12.953	1.00	95.56	C
ATOM	487	O ALA A 66	17.734	3.266	-11.305	1.00	95.56	O
ATOM	488	N GLU A 67	19.219	1.593	-10.859	1.00	94.88	N
ATOM	489	CA GLU A 67	18.172	0.656	-10.453	1.00	94.88	C
ATOM	490	C GLU A 67	17.406	1.173	-9.242	1.00	94.88	C
ATOM	491	CB GLU A 67	18.781	-0.720	-10.156	1.00	94.88	C
ATOM	492	O GLU A 67	16.188	1.142	-9.211	1.00	94.88	O
ATOM	493	CG GLU A 67	17.750	-1.760	-9.734	1.00	94.88	C
ATOM	494	CD GLU A 67	18.344	-3.135	-9.484	1.00	94.88	C
ATOM	495	OE1 GLU A 67	17.766	-3.924	-8.711	1.00	94.88	O
ATOM	496	OE2 GLU A 67	19.422	-3.424	-10.078	1.00	94.88	O
ATOM	497	N GLN A 68	18.109	1.619	-8.281	1.00	94.94	N
ATOM	498	CA GLN A 68	17.484	2.139	-7.070	1.00	94.94	C
ATOM	499	C GLN A 68	16.609	3.352	-7.379	1.00	94.94	C
ATOM	500	CB GLN A 68	18.547	2.510	-6.031	1.00	94.94	C
ATOM	501	O GLN A 68	15.539	3.516	-6.797	1.00	94.94	O
ATOM	502	CG GLN A 68	17.969	2.836	-4.656	1.00	94.94	C
ATOM	503	CD GLN A 68	17.172	1.692	-4.070	1.00	94.94	C
ATOM	504	NE2 GLN A 68	15.953	1.992	-3.615	1.00	94.94	N
ATOM	505	OE1 GLN A 68	17.625	0.548	-4.023	1.00	94.94	O
ATOM	506	N ALA A 69	17.094	4.191	-8.227	1.00	95.62	N
ATOM	507	CA ALA A 69	16.312	5.363	-8.617	1.00	95.62	C
ATOM	508	C ALA A 69	14.977	4.949	-9.242	1.00	95.62	C
ATOM	509	CB ALA A 69	17.094	6.230	-9.594	1.00	95.62	C
ATOM	510	O ALA A 69	13.938	5.559	-8.969	1.00	95.62	O
ATOM	511	N LEU A 70	14.969	3.951	-10.125	1.00	97.19	N
ATOM	512	CA LEU A 70	13.742	3.479	-10.766	1.00	97.19	C
ATOM	513	C LEU A 70	12.812	2.828	-9.742	1.00	97.19	C
ATOM	514	CB LEU A 70	14.070	2.484	-11.883	1.00	97.19	C
ATOM	515	O LEU A 70	11.594	3.000	-9.812	1.00	97.19	O
ATOM	516	CG LEU A 70	14.828	3.043	-13.086	1.00	97.19	C
ATOM	517	CD1 LEU A 70	15.000	1.966	-14.156	1.00	97.19	C
ATOM	518	CD2 LEU A 70	14.102	4.258	-13.656	1.00	97.19	C
ATOM	519	N LEU A 71	13.391	2.076	-8.758	1.00	95.62	N
ATOM	520	CA LEU A 71	12.586	1.479	-7.699	1.00	95.62	C
ATOM	521	C LEU A 71	11.969	2.555	-6.816	1.00	95.62	C
ATOM	522	CB LEU A 71	13.438	0.533	-6.848	1.00	95.62	C

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ATOM	523	O	LEU A 71	10.836	2.400	-6.344	1.00	95.62	O
ATOM	524	CG	LEU A 71	13.883	-0.770	-7.516	1.00	95.62	C
ATOM	525	CD1	LEU A 71	14.875	-1.510	-6.633	1.00	95.62	C
ATOM	526	CD2	LEU A 71	12.672	-1.649	-7.824	1.00	95.62	C
ATOM	527	N	ASP A 72	12.695	3.623	-6.562	1.00	95.50	N
ATOM	528	CA	ASP A 72	12.148	4.750	-5.816	1.00	95.50	C
ATOM	529	C	ASP A 72	10.961	5.371	-6.555	1.00	95.50	C
ATOM	530	CB	ASP A 72	13.227	5.809	-5.574	1.00	95.50	C
ATOM	531	O	ASP A 72	9.977	5.770	-5.934	1.00	95.50	O
ATOM	532	CG	ASP A 72	14.234	5.387	-4.523	1.00	95.50	C
ATOM	533	OD1	ASP A 72	13.961	4.453	-3.744	1.00	95.50	O
ATOM	534	OD2	ASP A 72	15.328	6.000	-4.477	1.00	95.50	O
ATOM	535	N	LYS A 73	11.070	5.473	-7.887	1.00	96.19	N
ATOM	536	CA	LYS A 73	9.945	5.973	-8.680	1.00	96.19	C
ATOM	537	C	LYS A 73	8.734	5.055	-8.547	1.00	96.19	C
ATOM	538	CB	LYS A 73	10.344	6.109	-10.148	1.00	96.19	C
ATOM	539	O	LYS A 73	7.602	5.527	-8.422	1.00	96.19	O
ATOM	540	CG	LYS A 73	11.289	7.270	-10.430	1.00	96.19	C
ATOM	541	CD	LYS A 73	11.609	7.387	-11.914	1.00	96.19	C
ATOM	542	CE	LYS A 73	12.578	8.523	-12.188	1.00	96.19	C
ATOM	543	NZ	LYS A 73	12.898	8.641	-13.641	1.00	96.19	N
ATOM	544	N	ALA A 74	9.000	3.777	-8.648	1.00	96.19	N
ATOM	545	CA	ALA A 74	7.922	2.807	-8.461	1.00	96.19	C
ATOM	546	C	ALA A 74	7.273	2.963	-7.090	1.00	96.19	C
ATOM	547	CB	ALA A 74	8.445	1.386	-8.641	1.00	96.19	C
ATOM	548	O	ALA A 74	6.047	2.959	-6.973	1.00	96.19	O
ATOM	549	N	ASN A 75	8.117	3.086	-6.078	1.00	96.44	N
ATOM	550	CA	ASN A 75	7.613	3.281	-4.723	1.00	96.44	C
ATOM	551	C	ASN A 75	6.730	4.523	-4.625	1.00	96.44	C
ATOM	552	CB	ASN A 75	8.773	3.375	-3.730	1.00	96.44	C
ATOM	553	O	ASN A 75	5.676	4.492	-3.986	1.00	96.44	O
ATOM	554	CG	ASN A 75	8.305	3.445	-2.289	1.00	96.44	C
ATOM	555	ND2	ASN A 75	8.719	4.484	-1.579	1.00	96.44	N
ATOM	556	OD1	ASN A 75	7.570	2.572	-1.819	1.00	96.44	O
ATOM	557	N	ALA A 76	7.137	5.539	-5.211	1.00	95.94	N
ATOM	558	CA	ALA A 76	6.371	6.781	-5.176	1.00	95.94	C
ATOM	559	C	ALA A 76	5.004	6.605	-5.832	1.00	95.94	C
ATOM	560	CB	ALA A 76	7.145	7.902	-5.867	1.00	95.94	C
ATOM	561	O	ALA A 76	3.998	7.117	-5.336	1.00	95.94	O
ATOM	562	N	ILE A 77	4.898	5.926	-6.898	1.00	96.88	N
ATOM	563	CA	ILE A 77	3.648	5.668	-7.605	1.00	96.88	C
ATOM	564	C	ILE A 77	2.725	4.824	-6.730	1.00	96.88	C
ATOM	565	CB	ILE A 77	3.898	4.961	-8.961	1.00	96.88	C
ATOM	566	O	ILE A 77	1.532	5.113	-6.613	1.00	96.88	O
ATOM	567	CG1	ILE A 77	4.555	5.926	-9.953	1.00	96.88	C
ATOM	568	CG2	ILE A 77	2.590	4.398	-9.523	1.00	96.88	C
ATOM	569	CD1	ILE A 77	5.086	5.254	-11.211	1.00	96.88	C
ATOM	570	N	ILE A 78	3.266	3.793	-6.141	1.00	97.06	N
ATOM	571	CA	ILE A 78	2.492	2.908	-5.281	1.00	97.06	C
ATOM	572	C	ILE A 78	1.932	3.697	-4.098	1.00	97.06	C
ATOM	573	CB	ILE A 78	3.344	1.722	-4.777	1.00	97.06	C
ATOM	574	O	ILE A 78	0.750	3.576	-3.766	1.00	97.06	O
ATOM	575	CG1	ILE A 78	3.746	0.818	-5.949	1.00	97.06	C

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ATOM	576	CG2 ILE A 78	2.588	0.928	-3.707	1.00	97.06	C
ATOM	577	CD1 ILE A 78	4.863	-0.163	-5.617	1.00	97.06	C
ATOM	578	N GLU A 79	2.770	4.551	-3.502	1.00	96.19	N
ATOM	579	CA GLU A 79	2.357	5.359	-2.361	1.00	96.19	C
ATOM	580	C GLU A 79	1.243	6.332	-2.746	1.00	96.19	C
ATOM	581	CB GLU A 79	3.549	6.129	-1.788	1.00	96.19	C
ATOM	582	O GLU A 79	0.299	6.535	-1.982	1.00	96.19	O
ATOM	583	CG GLU A 79	4.531	5.258	-1.020	1.00	96.19	C
ATOM	584	CD GLU A 79	5.648	6.051	-0.361	1.00	96.19	C
ATOM	585	OE1 GLU A 79	6.418	5.469	0.437	1.00	96.19	O
ATOM	586	OE2 GLU A 79	5.758	7.266	-0.644	1.00	96.19	O
ATOM	587	N LYS A 80	1.432	6.902	-3.848	1.00	96.44	N
ATOM	588	CA LYS A 80	0.400	7.816	-4.332	1.00	96.44	C
ATOM	589	C LYS A 80	-0.935	7.098	-4.504	1.00	96.44	C
ATOM	590	CB LYS A 80	0.827	8.453	-5.656	1.00	96.44	C
ATOM	591	O LYS A 80	-1.986	7.637	-4.152	1.00	96.44	O
ATOM	592	CG LYS A 80	-0.113	9.539	-6.148	1.00	96.44	C
ATOM	593	CD LYS A 80	0.387	10.164	-7.445	1.00	96.44	C
ATOM	594	CE LYS A 80	-0.593	11.203	-7.980	1.00	96.44	C
ATOM	595	NZ LYS A 80	-0.103	11.820	-9.250	1.00	96.44	N
ATOM	596	N GLU A 81	-0.868	5.934	-5.031	1.00	96.88	N
ATOM	597	CA GLU A 81	-2.094	5.160	-5.219	1.00	96.88	C
ATOM	598	C GLU A 81	-2.703	4.758	-3.879	1.00	96.88	C
ATOM	599	CB GLU A 81	-1.820	3.916	-6.066	1.00	96.88	C
ATOM	600	O GLU A 81	-3.922	4.820	-3.703	1.00	96.88	O
ATOM	601	CG GLU A 81	-3.078	3.174	-6.496	1.00	96.88	C
ATOM	602	CD GLU A 81	-3.965	3.984	-7.430	1.00	96.88	C
ATOM	603	OE1 GLU A 81	-5.184	3.711	-7.496	1.00	96.88	O
ATOM	604	OE2 GLU A 81	-3.434	4.898	-8.094	1.00	96.88	O
ATOM	605	N LEU A 82	-1.937	4.305	-2.936	1.00	96.56	N
ATOM	606	CA LEU A 82	-2.402	3.965	-1.596	1.00	96.56	C
ATOM	607	C LEU A 82	-3.051	5.172	-0.923	1.00	96.56	C
ATOM	608	CB LEU A 82	-1.243	3.451	-0.738	1.00	96.56	C
ATOM	609	O LEU A 82	-4.109	5.047	-0.301	1.00	96.56	O
ATOM	610	CG LEU A 82	-0.860	1.982	-0.927	1.00	96.56	C
ATOM	611	CD1 LEU A 82	0.435	1.673	-0.184	1.00	96.56	C
ATOM	612	CD2 LEU A 82	-1.986	1.070	-0.450	1.00	96.56	C
ATOM	613	N GLN A 83	-2.414	6.320	-1.066	1.00	96.50	N
ATOM	614	CA GLN A 83	-2.967	7.547	-0.500	1.00	96.50	C
ATOM	615	C GLN A 83	-4.332	7.863	-1.102	1.00	96.50	C
ATOM	616	CB GLN A 83	-2.014	8.719	-0.720	1.00	96.50	C
ATOM	617	O GLN A 83	-5.254	8.266	-0.389	1.00	96.50	O
ATOM	618	CG GLN A 83	-2.441	10.000	-0.017	1.00	96.50	C
ATOM	619	CD GLN A 83	-2.506	9.852	1.491	1.00	96.50	C
ATOM	620	NE2 GLN A 83	-3.658	10.172	2.070	1.00	96.50	N
ATOM	621	OE1 GLN A 83	-1.527	9.445	2.131	1.00	96.50	O
ATOM	622	N ALA A 84	-4.453	7.766	-2.375	1.00	96.19	N
ATOM	623	CA ALA A 84	-5.719	8.023	-3.055	1.00	96.19	C
ATOM	624	C ALA A 84	-6.816	7.102	-2.541	1.00	96.19	C
ATOM	625	CB ALA A 84	-5.555	7.871	-4.562	1.00	96.19	C
ATOM	626	O ALA A 84	-7.953	7.531	-2.334	1.00	96.19	O
ATOM	627	N LEU A 85	-6.508	5.793	-2.293	1.00	96.62	N
ATOM	628	CA LEU A 85	-7.480	4.840	-1.770	1.00	96.62	C

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ATOM	629	C	LEU A 85	-7.902	5.215	-0.353	1.00	96.62	C
ATOM	630	CB	LEU A 85	-6.906	3.422	-1.785	1.00	96.62	C
ATOM	631	O	LEU A 85	-9.094	5.176	-0.023	1.00	96.62	O
ATOM	632	CG	LEU A 85	-6.684	2.793	-3.162	1.00	96.62	C
ATOM	633	CD1	LEU A 85	-5.988	1.444	-3.025	1.00	96.62	C
ATOM	634	CD2	LEU A 85	-8.008	2.645	-3.900	1.00	96.62	C
ATOM	635	N	ILE A 86	-6.906	5.609	0.426	1.00	96.50	N
ATOM	636	CA	ILE A 86	-7.180	6.004	1.804	1.00	96.50	C
ATOM	637	C	ILE A 86	-8.055	7.258	1.818	1.00	96.50	C
ATOM	638	CB	ILE A 86	-5.871	6.250	2.590	1.00	96.50	C
ATOM	639	O	ILE A 86	-8.977	7.367	2.623	1.00	96.50	O
ATOM	640	CG1	ILE A 86	-5.133	4.930	2.826	1.00	96.50	C
ATOM	641	CG2	ILE A 86	-6.164	6.961	3.916	1.00	96.50	C
ATOM	642	CD1	ILE A 86	-5.879	3.955	3.727	1.00	96.50	C
ATOM	643	N	ASP A 87	-7.809	8.148	0.927	1.00	96.38	N
ATOM	644	CA	ASP A 87	-8.594	9.375	0.842	1.00	96.38	C
ATOM	645	C	ASP A 87	-10.047	9.070	0.471	1.00	96.38	C
ATOM	646	CB	ASP A 87	-7.984	10.336	-0.177	1.00	96.38	C
ATOM	647	O	ASP A 87	-10.977	9.656	1.035	1.00	96.38	O
ATOM	648	CG	ASP A 87	-6.684	10.953	0.299	1.00	96.38	C
ATOM	649	OD1	ASP A 87	-6.383	10.891	1.511	1.00	96.38	O
ATOM	650	OD2	ASP A 87	-5.953	11.523	-0.544	1.00	96.38	O
ATOM	651	N	LYS A 88	-10.203	8.219	-0.464	1.00	96.62	N
ATOM	652	CA	LYS A 88	-11.555	7.836	-0.866	1.00	96.62	C
ATOM	653	C	LYS A 88	-12.297	7.156	0.281	1.00	96.62	C
ATOM	654	CB	LYS A 88	-11.508	6.914	-2.084	1.00	96.62	C
ATOM	655	O	LYS A 88	-13.484	7.414	0.500	1.00	96.62	O
ATOM	656	CG	LYS A 88	-11.109	7.609	-3.375	1.00	96.62	C
ATOM	657	CD	LYS A 88	-11.055	6.633	-4.543	1.00	96.62	C
ATOM	658	CE	LYS A 88	-10.594	7.316	-5.824	1.00	96.62	C
ATOM	659	NZ	LYS A 88	-10.445	6.344	-6.949	1.00	96.62	N
ATOM	660	N	LEU A 89	-11.586	6.250	1.016	1.00	96.81	N
ATOM	661	CA	LEU A 89	-12.172	5.594	2.182	1.00	96.81	C
ATOM	662	C	LEU A 89	-12.531	6.613	3.256	1.00	96.81	C
ATOM	663	CB	LEU A 89	-11.203	4.551	2.752	1.00	96.81	C
ATOM	664	O	LEU A 89	-13.609	6.539	3.855	1.00	96.81	O
ATOM	665	CG	LEU A 89	-11.664	3.826	4.020	1.00	96.81	C
ATOM	666	CD1	LEU A 89	-12.977	3.100	3.768	1.00	96.81	C
ATOM	667	CD2	LEU A 89	-10.594	2.850	4.488	1.00	96.81	C
ATOM	668	N	GLN A 90	-11.617	7.535	3.484	1.00	96.31	N
ATOM	669	CA	GLN A 90	-11.867	8.594	4.461	1.00	96.31	C
ATOM	670	C	GLN A 90	-13.125	9.383	4.109	1.00	96.31	C
ATOM	671	CB	GLN A 90	-10.664	9.531	4.559	1.00	96.31	C
ATOM	672	O	GLN A 90	-13.906	9.742	4.988	1.00	96.31	O
ATOM	673	CG	GLN A 90	-10.828	10.625	5.605	1.00	96.31	C
ATOM	674	CD	GLN A 90	-10.961	10.070	7.016	1.00	96.31	C
ATOM	675	NE2	GLN A 90	-12.047	10.438	7.691	1.00	96.31	N
ATOM	676	OE1	GLN A 90	-10.102	9.328	7.488	1.00	96.31	O
ATOM	677	N	LYS A 91	-13.367	9.641	2.867	1.00	96.31	N
ATOM	678	CA	LYS A 91	-14.547	10.367	2.420	1.00	96.31	C
ATOM	679	C	LYS A 91	-15.820	9.594	2.752	1.00	96.31	C
ATOM	680	CB	LYS A 91	-14.477	10.641	0.917	1.00	96.31	C
ATOM	681	O	LYS A 91	-16.812	10.188	3.188	1.00	96.31	O

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ATOM	682	CG	LYS	A	91	-13.500	11.742	0.532	1.00	96.31	C
ATOM	683	CD	LYS	A	91	-13.492	11.984	-0.972	1.00	96.31	C
ATOM	684	CE	LYS	A	91	-12.469	13.039	-1.365	1.00	96.31	C
ATOM	685	NZ	LYS	A	91	-12.383	13.195	-2.848	1.00	96.31	N
ATOM	686	N	ILE	A	92	-15.742	8.281	2.578	1.00	95.75	N
ATOM	687	CA	ILE	A	92	-16.891	7.441	2.889	1.00	95.75	C
ATOM	688	C	ILE	A	92	-17.156	7.465	4.395	1.00	95.75	C
ATOM	689	CB	ILE	A	92	-16.688	5.988	2.404	1.00	95.75	C
ATOM	690	O	ILE	A	92	-18.297	7.656	4.828	1.00	95.75	O
ATOM	691	CG1	ILE	A	92	-16.609	5.941	0.874	1.00	95.75	C
ATOM	692	CG2	ILE	A	92	-17.797	5.074	2.930	1.00	95.75	C
ATOM	693	CD1	ILE	A	92	-16.156	4.598	0.316	1.00	95.75	C
ATOM	694	N	LEU	A	93	-16.141	7.336	5.195	1.00	94.88	N
ATOM	695	CA	LEU	A	93	-16.281	7.336	6.648	1.00	94.88	C
ATOM	696	C	LEU	A	93	-16.781	8.688	7.148	1.00	94.88	C
ATOM	697	CB	LEU	A	93	-14.930	7.000	7.305	1.00	94.88	C
ATOM	698	O	LEU	A	93	-17.594	8.750	8.070	1.00	94.88	O
ATOM	699	CG	LEU	A	93	-14.438	5.562	7.133	1.00	94.88	C
ATOM	700	CD1	LEU	A	93	-12.992	5.438	7.625	1.00	94.88	C
ATOM	701	CD2	LEU	A	93	-15.344	4.590	7.875	1.00	94.88	C
ATOM	702	N	ASP	A	94	-16.297	9.719	6.492	1.00	94.75	N
ATOM	703	CA	ASP	A	94	-16.766	11.055	6.840	1.00	94.75	C
ATOM	704	C	ASP	A	94	-18.266	11.195	6.586	1.00	94.75	C
ATOM	705	CB	ASP	A	94	-15.992	12.117	6.051	1.00	94.75	C
ATOM	706	O	ASP	A	94	-18.984	11.758	7.410	1.00	94.75	O
ATOM	707	CG	ASP	A	94	-14.555	12.266	6.508	1.00	94.75	C
ATOM	708	OD1	ASP	A	94	-14.188	11.711	7.566	1.00	94.75	O
ATOM	709	OD2	ASP	A	94	-13.773	12.938	5.805	1.00	94.75	O
ATOM	710	N	LYS	A	95	-18.688	10.633	5.508	1.00	93.44	N
ATOM	711	CA	LYS	A	95	-20.094	10.711	5.156	1.00	93.44	C
ATOM	712	C	LYS	A	95	-20.953	9.938	6.152	1.00	93.44	C
ATOM	713	CB	LYS	A	95	-20.328	10.172	3.742	1.00	93.44	C
ATOM	714	O	LYS	A	95	-22.094	10.312	6.418	1.00	93.44	O
ATOM	715	CG	LYS	A	95	-19.828	11.102	2.641	1.00	93.44	C
ATOM	716	CD	LYS	A	95	-20.156	10.539	1.258	1.00	93.44	C
ATOM	717	CE	LYS	A	95	-19.625	11.445	0.155	1.00	93.44	C
ATOM	718	NZ	LYS	A	95	-19.859	10.867	-1.201	1.00	93.44	N
ATOM	719	N	LEU	A	96	-20.344	8.984	6.758	1.00	91.44	N
ATOM	720	CA	LEU	A	96	-21.062	8.148	7.711	1.00	91.44	C
ATOM	721	C	LEU	A	96	-20.938	8.703	9.125	1.00	91.44	C
ATOM	722	CB	LEU	A	96	-20.547	6.707	7.668	1.00	91.44	C
ATOM	723	O	LEU	A	96	-21.531	8.164	10.062	1.00	91.44	O
ATOM	724	CG	LEU	A	96	-20.812	5.938	6.371	1.00	91.44	C
ATOM	725	CD1	LEU	A	96	-20.125	4.582	6.414	1.00	91.44	C
ATOM	726	CD2	LEU	A	96	-22.312	5.773	6.133	1.00	91.44	C
ATOM	727	N	GLY	A	97	-20.109	9.727	9.273	1.00	91.81	N
ATOM	728	CA	GLY	A	97	-19.953	10.383	10.562	1.00	91.81	C
ATOM	729	C	GLY	A	97	-18.828	9.789	11.398	1.00	91.81	C
ATOM	730	O	GLY	A	97	-18.828	9.930	12.625	1.00	91.81	O
ATOM	731	N	TYR	A	98	-17.875	9.078	10.820	1.00	92.06	N
ATOM	732	CA	TYR	A	98	-16.797	8.398	11.531	1.00	92.06	C
ATOM	733	C	TYR	A	98	-15.445	8.984	11.164	1.00	92.06	C
ATOM	734	CB	TYR	A	98	-16.812	6.898	11.219	1.00	92.06	C

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ATOM	735	O	TYR A 98	-14.508	8.250	10.844	1.00	92.06	O
ATOM	736	CG	TYR A 98	-18.141	6.234	11.500	1.00	92.06	C
ATOM	737	CD1	TYR A 98	-18.750	6.332	12.750	1.00	92.06	C
ATOM	738	CD2	TYR A 98	-18.797	5.508	10.508	1.00	92.06	C
ATOM	739	CE1	TYR A 98	-19.969	5.723	13.016	1.00	92.06	C
ATOM	740	CE2	TYR A 98	-20.031	4.895	10.766	1.00	92.06	C
ATOM	741	OH	TYR A 98	-21.812	4.402	12.273	1.00	92.06	O
ATOM	742	CZ	TYR A 98	-20.594	5.008	12.016	1.00	92.06	C
ATOM	743	N	LYS A 99	-15.258	10.281	11.289	1.00	93.38	N
ATOM	744	CA	LYS A 99	-14.039	11.016	10.945	1.00	93.38	C
ATOM	745	C	LYS A 99	-12.891	10.641	11.875	1.00	93.38	C
ATOM	746	CB	LYS A 99	-14.289	12.523	10.992	1.00	93.38	C
ATOM	747	O	LYS A 99	-11.719	10.836	11.531	1.00	93.38	O
ATOM	748	CG	LYS A 99	-15.320	13.016	9.984	1.00	93.38	C
ATOM	749	CD	LYS A 99	-15.508	14.523	10.070	1.00	93.38	C
ATOM	750	CE	LYS A 99	-16.516	15.016	9.039	1.00	93.38	C
ATOM	751	NZ	LYS A 99	-16.719	16.500	9.133	1.00	93.38	N
ATOM	752	N	GLU A 100	-13.219	10.047	12.984	1.00	94.69	N
ATOM	753	CA	GLU A 100	-12.242	9.742	14.023	1.00	94.69	C
ATOM	754	C	GLU A 100	-11.352	8.562	13.625	1.00	94.69	C
ATOM	755	CB	GLU A 100	-12.945	9.445	15.352	1.00	94.69	C
ATOM	756	O	GLU A 100	-10.359	8.273	14.297	1.00	94.69	O
ATOM	757	CG	GLU A 100	-13.578	10.664	16.000	1.00	94.69	C
ATOM	758	CD	GLU A 100	-14.977	10.961	15.484	1.00	94.69	C
ATOM	759	OE1	GLU A 100	-15.906	11.125	16.312	1.00	94.69	O
ATOM	760	OE2	GLU A 100	-15.148	11.023	14.242	1.00	94.69	O
ATOM	761	N	PHE A 101	-11.688	7.961	12.469	1.00	95.31	N
ATOM	762	CA	PHE A 101	-10.867	6.855	12.000	1.00	95.31	C
ATOM	763	C	PHE A 101	-9.633	7.375	11.266	1.00	95.31	C
ATOM	764	CB	PHE A 101	-11.672	5.934	11.086	1.00	95.31	C
ATOM	765	O	PHE A 101	-8.750	6.598	10.898	1.00	95.31	O
ATOM	766	CG	PHE A 101	-12.484	4.902	11.828	1.00	95.31	C
ATOM	767	CD1	PHE A 101	-11.891	3.725	12.273	1.00	95.31	C
ATOM	768	CD2	PHE A 101	-13.836	5.105	12.078	1.00	95.31	C
ATOM	769	CE1	PHE A 101	-12.633	2.770	12.961	1.00	95.31	C
ATOM	770	CE2	PHE A 101	-14.586	4.156	12.758	1.00	95.31	C
ATOM	771	CZ	PHE A 101	-13.984	2.986	13.203	1.00	95.31	C
ATOM	772	N	LYS A 102	-9.555	8.727	11.070	1.00	95.19	N
ATOM	773	CA	LYS A 102	-8.469	9.312	10.281	1.00	95.19	C
ATOM	774	C	LYS A 102	-7.109	8.914	10.844	1.00	95.19	C
ATOM	775	CB	LYS A 102	-8.594	10.836	10.242	1.00	95.19	C
ATOM	776	O	LYS A 102	-6.227	8.477	10.094	1.00	95.19	O
ATOM	777	CG	LYS A 102	-7.496	11.523	9.453	1.00	95.19	C
ATOM	778	CD	LYS A 102	-7.551	11.156	7.973	1.00	95.19	C
ATOM	779	CE	LYS A 102	-6.695	12.094	7.129	1.00	95.19	C
ATOM	780	NZ	LYS A 102	-5.238	11.820	7.297	1.00	95.19	N
ATOM	781	N	PRO A 103	-6.844	9.031	12.070	1.00	96.06	N
ATOM	782	CA	PRO A 103	-5.531	8.641	12.586	1.00	96.06	C
ATOM	783	C	PRO A 103	-5.223	7.164	12.336	1.00	96.06	C
ATOM	784	CB	PRO A 103	-5.633	8.930	14.078	1.00	96.06	C
ATOM	785	O	PRO A 103	-4.070	6.801	12.086	1.00	96.06	O
ATOM	786	CG	PRO A 103	-6.695	9.977	14.195	1.00	96.06	C
ATOM	787	CD	PRO A 103	-7.703	9.750	13.102	1.00	96.06	C

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ATOM	788	N	THR A 104	-6.266	6.301	12.453	1.00	96.06	N
ATOM	789	CA	THR A 104	-6.094	4.879	12.203	1.00	96.06	C
ATOM	790	C	THR A 104	-5.730	4.633	10.742	1.00	96.06	C
ATOM	791	CB	THR A 104	-7.367	4.086	12.555	1.00	96.06	C
ATOM	792	O	THR A 104	-4.844	3.826	10.445	1.00	96.06	O
ATOM	793	CG2	THR A 104	-7.156	2.590	12.359	1.00	96.06	C
ATOM	794	OG1	THR A 104	-7.715	4.340	13.922	1.00	96.06	O
ATOM	795	N	LEU A 105	-6.348	5.379	9.836	1.00	96.88	N
ATOM	796	CA	LEU A 105	-6.039	5.281	8.414	1.00	96.88	C
ATOM	797	C	LEU A 105	-4.613	5.746	8.141	1.00	96.88	C
ATOM	798	CB	LEU A 105	-7.027	6.109	7.594	1.00	96.88	C
ATOM	799	O	LEU A 105	-3.871	5.090	7.406	1.00	96.88	O
ATOM	800	CG	LEU A 105	-8.469	5.609	7.566	1.00	96.88	C
ATOM	801	CD1	LEU A 105	-9.375	6.629	6.879	1.00	96.88	C
ATOM	802	CD2	LEU A 105	-8.555	4.258	6.863	1.00	96.88	C
ATOM	803	N	ASP A 106	-4.215	6.883	8.758	1.00	95.75	N
ATOM	804	CA	ASP A 106	-2.877	7.434	8.570	1.00	95.75	C
ATOM	805	C	ASP A 106	-1.807	6.477	9.086	1.00	95.75	C
ATOM	806	CB	ASP A 106	-2.750	8.789	9.273	1.00	95.75	C
ATOM	807	O	ASP A 106	-0.753	6.320	8.461	1.00	95.75	O
ATOM	808	CG	ASP A 106	-3.543	9.891	8.586	1.00	95.75	C
ATOM	809	OD1	ASP A 106	-3.889	9.734	7.391	1.00	95.75	O
ATOM	810	OD2	ASP A 106	-3.820	10.914	9.234	1.00	95.75	O
ATOM	811	N	LYS A 107	-2.137	5.895	10.180	1.00	95.62	N
ATOM	812	CA	LYS A 107	-1.203	4.930	10.758	1.00	95.62	C
ATOM	813	C	LYS A 107	-1.022	3.725	9.836	1.00	95.62	C
ATOM	814	CB	LYS A 107	-1.685	4.473	12.133	1.00	95.62	C
ATOM	815	O	LYS A 107	0.102	3.273	9.617	1.00	95.62	O
ATOM	816	CG	LYS A 107	-0.717	3.541	12.852	1.00	95.62	C
ATOM	817	CD	LYS A 107	-1.240	3.141	14.227	1.00	95.62	C
ATOM	818	CE	LYS A 107	-0.299	2.166	14.922	1.00	95.62	C
ATOM	819	NZ	LYS A 107	-0.819	1.750	16.250	1.00	95.62	N
ATOM	820	N	ALA A 108	-2.139	3.133	9.336	1.00	95.81	N
ATOM	821	CA	ALA A 108	-2.082	1.994	8.430	1.00	95.81	C
ATOM	822	C	ALA A 108	-1.269	2.330	7.180	1.00	95.81	C
ATOM	823	CB	ALA A 108	-3.492	1.556	8.039	1.00	95.81	C
ATOM	824	O	ALA A 108	-0.456	1.521	6.723	1.00	95.81	O
ATOM	825	N	LEU A 109	-1.469	3.531	6.676	1.00	95.69	N
ATOM	826	CA	LEU A 109	-0.741	4.004	5.504	1.00	95.69	C
ATOM	827	C	LEU A 109	0.756	4.078	5.789	1.00	95.69	C
ATOM	828	CB	LEU A 109	-1.259	5.375	5.066	1.00	95.69	C
ATOM	829	O	LEU A 109	1.567	3.592	4.996	1.00	95.69	O
ATOM	830	CG	LEU A 109	-0.536	6.027	3.889	1.00	95.69	C
ATOM	831	CD1	LEU A 109	-0.675	5.168	2.637	1.00	95.69	C
ATOM	832	CD2	LEU A 109	-1.077	7.434	3.641	1.00	95.69	C
ATOM	833	N	ALA A 110	1.139	4.691	6.871	1.00	94.81	N
ATOM	834	CA	ALA A 110	2.545	4.887	7.219	1.00	94.81	C
ATOM	835	C	ALA A 110	3.252	3.547	7.402	1.00	94.81	C
ATOM	836	CB	ALA A 110	2.668	5.727	8.484	1.00	94.81	C
ATOM	837	O	ALA A 110	4.367	3.354	6.910	1.00	94.81	O
ATOM	838	N	GLU A 111	2.588	2.602	8.094	1.00	95.94	N
ATOM	839	CA	GLU A 111	3.180	1.289	8.336	1.00	95.94	C
ATOM	840	C	GLU A 111	3.344	0.510	7.031	1.00	95.94	C

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ATOM	841	CB	GLU A 111	2.330	0.487	9.320	1.00	95.94	C
ATOM	842	O	GLU A 111	4.375	-0.126	6.809	1.00	95.94	O
ATOM	843	CG	GLU A 111	2.439	0.973	10.758	1.00	95.94	C
ATOM	844	CD	GLU A 111	1.693	0.091	11.750	1.00	95.94	C
ATOM	845	OE1	GLU A 111	1.695	0.403	12.961	1.00	95.94	O
ATOM	846	OE2	GLU A 111	1.104	-0.921	11.305	1.00	95.94	O
ATOM	847	N	THR A 112	2.270	0.602	6.211	1.00	96.94	N
ATOM	848	CA	THR A 112	2.320	-0.108	4.938	1.00	96.94	C
ATOM	849	C	THR A 112	3.416	0.465	4.043	1.00	96.94	C
ATOM	850	CB	THR A 112	0.967	-0.040	4.207	1.00	96.94	C
ATOM	851	O	THR A 112	4.191	-0.283	3.447	1.00	96.94	O
ATOM	852	CG2	THR A 112	0.995	-0.859	2.920	1.00	96.94	C
ATOM	853	OG1	THR A 112	-0.059	-0.553	5.066	1.00	96.94	O
ATOM	854	N	SER A 113	3.574	1.783	4.012	1.00	95.31	N
ATOM	855	CA	SER A 113	4.559	2.465	3.180	1.00	95.31	C
ATOM	856	C	SER A 113	5.980	2.074	3.568	1.00	95.31	C
ATOM	857	CB	SER A 113	4.391	3.982	3.283	1.00	95.31	C
ATOM	858	O	SER A 113	6.820	1.828	2.701	1.00	95.31	O
ATOM	859	OG	SER A 113	3.174	4.395	2.688	1.00	95.31	O
ATOM	860	N	ALA A 114	6.293	2.004	4.824	1.00	93.25	N
ATOM	861	CA	ALA A 114	7.629	1.640	5.293	1.00	93.25	C
ATOM	862	C	ALA A 114	7.992	0.220	4.871	1.00	93.25	C
ATOM	863	CB	ALA A 114	7.711	1.775	6.812	1.00	93.25	C
ATOM	864	O	ALA A 114	9.117	-0.035	4.434	1.00	93.25	O
ATOM	865	N	LYS A 115	7.035	-0.648	4.812	1.00	96.06	N
ATOM	866	CA	LYS A 115	7.281	-2.055	4.512	1.00	96.06	C
ATOM	867	C	LYS A 115	7.395	-2.285	3.006	1.00	96.06	C
ATOM	868	CB	LYS A 115	6.168	-2.932	5.094	1.00	96.06	C
ATOM	869	O	LYS A 115	8.102	-3.189	2.562	1.00	96.06	O
ATOM	870	CG	LYS A 115	6.164	-2.994	6.613	1.00	96.06	C
ATOM	871	CD	LYS A 115	5.059	-3.904	7.129	1.00	96.06	C
ATOM	872	CE	LYS A 115	5.055	-3.973	8.648	1.00	96.06	C
ATOM	873	NZ	LYS A 115	3.986	-4.887	9.164	1.00	96.06	N
ATOM	874	N	ILE A 116	6.711	-1.446	2.203	1.00	95.75	N
ATOM	875	CA	ILE A 116	6.762	-1.552	0.750	1.00	95.75	C
ATOM	876	C	ILE A 116	8.164	-1.211	0.258	1.00	95.75	C
ATOM	877	CB	ILE A 116	5.719	-0.630	0.077	1.00	95.75	C
ATOM	878	O	ILE A 116	8.711	-1.899	-0.606	1.00	95.75	O
ATOM	879	CG1	ILE A 116	4.305	-1.168	0.309	1.00	95.75	C
ATOM	880	CG2	ILE A 116	6.012	-0.485	-1.419	1.00	95.75	C
ATOM	881	CD1	ILE A 116	3.199	-0.188	-0.066	1.00	95.75	C
ATOM	882	N	LYS A 117	8.719	-0.135	0.884	1.00	92.44	N
ATOM	883	CA	LYS A 117	10.062	0.283	0.505	1.00	92.44	C
ATOM	884	C	LYS A 117	11.070	-0.845	0.717	1.00	92.44	C
ATOM	885	CB	LYS A 117	10.484	1.519	1.302	1.00	92.44	C
ATOM	886	O	LYS A 117	11.906	-1.110	-0.151	1.00	92.44	O
ATOM	887	CG	LYS A 117	11.758	2.178	0.792	1.00	92.44	C
ATOM	888	CD	LYS A 117	12.031	3.494	1.508	1.00	92.44	C
ATOM	889	CE	LYS A 117	13.305	4.160	0.994	1.00	92.44	C
ATOM	890	NZ	LYS A 117	13.570	5.453	1.687	1.00	92.44	N
ATOM	891	N	GLU A 118	10.977	-1.527	1.789	1.00	91.88	N
ATOM	892	CA	GLU A 118	11.867	-2.637	2.109	1.00	91.88	C
ATOM	893	C	GLU A 118	11.641	-3.816	1.170	1.00	91.88	C

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ATOM	894	CB	GLU A 118	11.680	-3.078	3.564	1.00	91.88	C
ATOM	895	O	GLU A 118	12.602	-4.441	0.711	1.00	91.88	O
ATOM	896	CG	GLU A 118	12.148	-2.053	4.586	1.00	91.88	C
ATOM	897	CD	GLU A 118	11.922	-2.488	6.023	1.00	91.88	C
ATOM	898	OE1	GLU A 118	12.297	-1.737	6.953	1.00	91.88	O
ATOM	899	OE2	GLU A 118	11.359	-3.590	6.223	1.00	91.88	O
ATOM	900	N	ALA A 119	10.406	-3.990	0.821	1.00	94.12	N
ATOM	901	CA	ALA A 119	10.047	-5.129	-0.018	1.00	94.12	C
ATOM	902	C	ALA A 119	10.539	-4.930	-1.450	1.00	94.12	C
ATOM	903	CB	ALA A 119	8.539	-5.348	0.001	1.00	94.12	C
ATOM	904	O	ALA A 119	11.039	-5.867	-2.078	1.00	94.12	O
ATOM	905	N	LEU A 120	10.422	-3.777	-1.980	1.00	93.31	N
ATOM	906	CA	LEU A 120	10.883	-3.482	-3.334	1.00	93.31	C
ATOM	907	C	LEU A 120	12.391	-3.635	-3.439	1.00	93.31	C
ATOM	908	CB	LEU A 120	10.469	-2.066	-3.744	1.00	93.31	C
ATOM	909	O	LEU A 120	12.906	-4.137	-4.445	1.00	93.31	O
ATOM	910	CG	LEU A 120	8.992	-1.861	-4.078	1.00	93.31	C
ATOM	911	CD1	LEU A 120	8.680	-0.375	-4.230	1.00	93.31	C
ATOM	912	CD2	LEU A 120	8.617	-2.619	-5.348	1.00	93.31	C
ATOM	913	N	ALA A 121	13.047	-3.283	-2.350	1.00	89.56	N
ATOM	914	CA	ALA A 121	14.508	-3.348	-2.332	1.00	89.56	C
ATOM	915	C	ALA A 121	14.992	-4.793	-2.297	1.00	89.56	C
ATOM	916	CB	ALA A 121	15.062	-2.574	-1.137	1.00	89.56	C
ATOM	917	O	ALA A 121	16.094	-5.098	-2.766	1.00	89.56	O
ATOM	918	N	SER A 122	14.211	-5.629	-1.774	1.00	91.44	N
ATOM	919	CA	SER A 122	14.617	-7.023	-1.635	1.00	91.44	C
ATOM	920	C	SER A 122	14.664	-7.723	-2.988	1.00	91.44	C
ATOM	921	CB	SER A 122	13.672	-7.770	-0.698	1.00	91.44	C
ATOM	922	O	SER A 122	15.359	-8.727	-3.148	1.00	91.44	O
ATOM	923	OG	SER A 122	12.430	-8.023	-1.336	1.00	91.44	O
ATOM	924	N	GLY A 123	13.906	-7.203	-3.982	1.00	89.56	N
ATOM	925	CA	GLY A 123	13.867	-7.789	-5.312	1.00	89.56	C
ATOM	926	C	GLY A 123	13.203	-9.148	-5.352	1.00	89.56	C
ATOM	927	O	GLY A 123	13.414	-9.922	-6.285	1.00	89.56	O
ATOM	928	N	LYS A 124	12.438	-9.484	-4.266	1.00	92.62	N
ATOM	929	CA	LYS A 124	11.766	-10.773	-4.152	1.00	92.62	C
ATOM	930	C	LYS A 124	10.250	-10.594	-4.043	1.00	92.62	C
ATOM	931	CB	LYS A 124	12.289	-11.547	-2.947	1.00	92.62	C
ATOM	932	O	LYS A 124	9.773	-9.516	-3.680	1.00	92.62	O
ATOM	933	CG	LYS A 124	13.781	-11.844	-3.004	1.00	92.62	C
ATOM	934	CD	LYS A 124	14.234	-12.656	-1.799	1.00	92.62	C
ATOM	935	CE	LYS A 124	15.727	-12.961	-1.859	1.00	92.62	C
ATOM	936	NZ	LYS A 124	16.188	-13.695	-0.643	1.00	92.62	N
ATOM	937	N	ASP A 125	9.594	-11.703	-4.367	1.00	94.81	N
ATOM	938	CA	ASP A 125	8.164	-11.727	-4.090	1.00	94.81	C
ATOM	939	C	ASP A 125	7.887	-11.516	-2.604	1.00	94.81	C
ATOM	940	CB	ASP A 125	7.551	-13.047	-4.559	1.00	94.81	C
ATOM	941	O	ASP A 125	8.508	-12.156	-1.754	1.00	94.81	O
ATOM	942	CG	ASP A 125	7.602	-13.227	-6.066	1.00	94.81	C
ATOM	943	OD1	ASP A 125	8.047	-12.297	-6.773	1.00	94.81	O
ATOM	944	OD2	ASP A 125	7.191	-14.305	-6.547	1.00	94.81	O
ATOM	945	N	THR A 126	6.965	-10.711	-2.303	1.00	96.88	N
ATOM	946	CA	THR A 126	6.668	-10.414	-0.906	1.00	96.88	C

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ATOM	947	C	THR A 126	5.199	-10.031	-0.735	1.00	96.88	C
ATOM	948	CB	THR A 126	7.562	-9.281	-0.369	1.00	96.88	C
ATOM	949	O	THR A 126	4.602	-9.422	-1.626	1.00	96.88	O
ATOM	950	CG2	THR A 126	7.316	-9.047	1.118	1.00	96.88	C
ATOM	951	OG1	THR A 126	8.938	-9.633	-0.567	1.00	96.88	O
ATOM	952	N	THR A 127	4.617	-10.469	0.422	1.00	97.56	N
ATOM	953	CA	THR A 127	3.275	-10.055	0.807	1.00	97.56	C
ATOM	954	C	THR A 127	3.305	-9.281	2.123	1.00	97.56	C
ATOM	955	CB	THR A 127	2.330	-11.258	0.938	1.00	97.56	C
ATOM	956	O	THR A 127	3.900	-9.734	3.102	1.00	97.56	O
ATOM	957	CG2	THR A 127	0.933	-10.820	1.364	1.00	97.56	C
ATOM	958	OG1	THR A 127	2.244	-11.930	-0.326	1.00	97.56	O
ATOM	959	N	ILE A 128	2.734	-8.117	2.078	1.00	96.88	N
ATOM	960	CA	ILE A 128	2.631	-7.250	3.250	1.00	96.88	C
ATOM	961	C	ILE A 128	1.166	-7.102	3.656	1.00	96.88	C
ATOM	962	CB	ILE A 128	3.256	-5.859	2.984	1.00	96.88	C
ATOM	963	O	ILE A 128	0.312	-6.793	2.822	1.00	96.88	O
ATOM	964	CG1	ILE A 128	4.723	-6.008	2.572	1.00	96.88	C
ATOM	965	CG2	ILE A 128	3.117	-4.961	4.215	1.00	96.88	C
ATOM	966	CD1	ILE A 128	5.270	-4.816	1.798	1.00	96.88	C
ATOM	967	N	THR A 129	0.950	-7.426	4.961	1.00	97.88	N
ATOM	968	CA	THR A 129	-0.402	-7.223	5.473	1.00	97.88	C
ATOM	969	C	THR A 129	-0.386	-6.332	6.711	1.00	97.88	C
ATOM	970	CB	THR A 129	-1.076	-8.570	5.809	1.00	97.88	C
ATOM	971	O	THR A 129	0.327	-6.617	7.676	1.00	97.88	O
ATOM	972	CG2	THR A 129	-2.504	-8.359	6.301	1.00	97.88	C
ATOM	973	OG1	THR A 129	-1.102	-9.391	4.637	1.00	97.88	O
ATOM	974	N	VAL A 130	-1.104	-5.266	6.656	1.00	97.69	N
ATOM	975	CA	VAL A 130	-1.258	-4.371	7.801	1.00	97.69	C
ATOM	976	C	VAL A 130	-2.732	-4.273	8.188	1.00	97.69	C
ATOM	977	CB	VAL A 130	-0.689	-2.965	7.504	1.00	97.69	C
ATOM	978	O	VAL A 130	-3.586	-4.004	7.336	1.00	97.69	O
ATOM	979	CG1	VAL A 130	-0.990	-2.006	8.648	1.00	97.69	C
ATOM	980	CG2	VAL A 130	0.814	-3.043	7.246	1.00	97.69	C
ATOM	981	N	THR A 131	-2.949	-4.547	9.453	1.00	97.94	N
ATOM	982	CA	THR A 131	-4.309	-4.477	9.984	1.00	97.94	C
ATOM	983	C	THR A 131	-4.379	-3.504	11.156	1.00	97.94	C
ATOM	984	CB	THR A 131	-4.805	-5.863	10.430	1.00	97.94	C
ATOM	985	O	THR A 131	-3.562	-3.572	12.078	1.00	97.94	O
ATOM	986	CG2	THR A 131	-6.223	-5.785	10.984	1.00	97.94	C
ATOM	987	OG1	THR A 131	-4.789	-6.754	9.312	1.00	97.94	O
ATOM	988	N	GLU A 132	-5.316	-2.607	11.055	1.00	97.88	N
ATOM	989	CA	GLU A 132	-5.582	-1.668	12.141	1.00	97.88	C
ATOM	990	C	GLU A 132	-7.043	-1.731	12.578	1.00	97.88	C
ATOM	991	CB	GLU A 132	-5.223	-0.241	11.719	1.00	97.88	C
ATOM	992	O	GLU A 132	-7.941	-1.891	11.750	1.00	97.88	O
ATOM	993	CG	GLU A 132	-3.740	-0.035	11.453	1.00	97.88	C
ATOM	994	CD	GLU A 132	-2.883	-0.150	12.703	1.00	97.88	C
ATOM	995	OE1	GLU A 132	-1.714	-0.587	12.602	1.00	97.88	O
ATOM	996	OE2	GLU A 132	-3.385	0.199	13.789	1.00	97.88	O
ATOM	997	N	GLU A 133	-7.168	-1.662	13.828	1.00	96.94	N
ATOM	998	CA	GLU A 133	-8.516	-1.676	14.391	1.00	96.94	C
ATOM	999	C	GLU A 133	-8.734	-0.499	15.336	1.00	96.94	C

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ATOM	1000	CB	GLU A 133	-8.781	-2.994	15.117	1.00	96.94	C
ATOM	1001	O	GLU A 133	-7.793	-0.036	15.984	1.00	96.94	O
ATOM	1002	CG	GLU A 133	-8.672	-4.223	14.227	1.00	96.94	C
ATOM	1003	CD	GLU A 133	-8.906	-5.527	14.977	1.00	96.94	C
ATOM	1004	OE1	GLU A 133	-8.891	-6.605	14.336	1.00	96.94	O
ATOM	1005	OE2	GLU A 133	-9.125	-5.473	16.203	1.00	96.94	O
ATOM	1006	N	LYS A 134	-9.938	-0.047	15.289	1.00	96.44	N
ATOM	1007	CA	LYS A 134	-10.297	1.028	16.203	1.00	96.44	C
ATOM	1008	C	LYS A 134	-11.734	0.864	16.703	1.00	96.44	C
ATOM	1009	CB	LYS A 134	-10.133	2.391	15.539	1.00	96.44	C
ATOM	1010	O	LYS A 134	-12.625	0.483	15.945	1.00	96.44	O
ATOM	1011	CG	LYS A 134	-10.477	3.570	16.438	1.00	96.44	C
ATOM	1012	CD	LYS A 134	-9.352	3.873	17.406	1.00	96.44	C
ATOM	1013	CE	LYS A 134	-9.656	5.105	18.250	1.00	96.44	C
ATOM	1014	NZ	LYS A 134	-8.562	5.402	19.219	1.00	96.44	N
ATOM	1015	N	GLU A 135	-11.875	1.165	17.969	1.00	96.31	N
ATOM	1016	CA	GLU A 135	-13.203	1.182	18.578	1.00	96.31	C
ATOM	1017	C	GLU A 135	-13.594	2.592	19.000	1.00	96.31	C
ATOM	1018	CB	GLU A 135	-13.258	0.232	19.781	1.00	96.31	C
ATOM	1019	O	GLU A 135	-12.781	3.332	19.547	1.00	96.31	O
ATOM	1020	CG	GLU A 135	-13.125	-1.237	19.406	1.00	96.31	C
ATOM	1021	CD	GLU A 135	-13.297	-2.174	20.594	1.00	96.31	C
ATOM	1022	OE1	GLU A 135	-13.258	-3.410	20.391	1.00	96.31	O
ATOM	1023	OE2	GLU A 135	-13.477	-1.666	21.719	1.00	96.31	O
ATOM	1024	N	LEU A 136	-14.852	2.896	18.656	1.00	94.00	N
ATOM	1025	CA	LEU A 136	-15.367	4.203	19.047	1.00	94.00	C
ATOM	1026	C	LEU A 136	-16.609	4.055	19.922	1.00	94.00	C
ATOM	1027	CB	LEU A 136	-15.695	5.047	17.812	1.00	94.00	C
ATOM	1028	O	LEU A 136	-17.438	3.166	19.688	1.00	94.00	O
ATOM	1029	CG	LEU A 136	-14.539	5.285	16.828	1.00	94.00	C
ATOM	1030	CD1	LEU A 136	-15.055	5.977	15.570	1.00	94.00	C
ATOM	1031	CD2	LEU A 136	-13.438	6.105	17.484	1.00	94.00	C
ATOM	1032	N	GLU A 137	-16.672	4.891	20.969	1.00	90.62	N
ATOM	1033	CA	GLU A 137	-17.891	5.000	21.766	1.00	90.62	C
ATOM	1034	C	GLU A 137	-18.672	6.258	21.406	1.00	90.62	C
ATOM	1035	CB	GLU A 137	-17.562	4.988	23.266	1.00	90.62	C
ATOM	1036	O	GLU A 137	-18.156	7.371	21.547	1.00	90.62	O
ATOM	1037	CG	GLU A 137	-16.922	3.689	23.734	1.00	90.62	C
ATOM	1038	CD	GLU A 137	-17.938	2.576	23.953	1.00	90.62	C
ATOM	1039	OE1	GLU A 137	-17.562	1.386	23.891	1.00	90.62	O
ATOM	1040	OE2	GLU A 137	-19.125	2.896	24.203	1.00	90.62	O
ATOM	1041	N	LYS A 138	-19.844	5.977	20.828	1.00	87.50	N
ATOM	1042	CA	LYS A 138	-20.766	7.074	20.547	1.00	87.50	C
ATOM	1043	C	LYS A 138	-22.031	6.953	21.391	1.00	87.50	C
ATOM	1044	CB	LYS A 138	-21.109	7.113	19.062	1.00	87.50	C
ATOM	1045	O	LYS A 138	-22.344	5.879	21.906	1.00	87.50	O
ATOM	1046	CG	LYS A 138	-19.938	7.477	18.156	1.00	87.50	C
ATOM	1047	CD	LYS A 138	-20.422	8.016	16.812	1.00	87.50	C
ATOM	1048	CE	LYS A 138	-19.250	8.484	15.961	1.00	87.50	C
ATOM	1049	NZ	LYS A 138	-19.719	9.047	14.656	1.00	87.50	N
ATOM	1050	N	PRO A 139	-22.719	8.133	21.672	1.00	85.25	N
ATOM	1051	CA	PRO A 139	-23.969	7.980	22.391	1.00	85.25	C
ATOM	1052	C	PRO A 139	-24.922	6.992	21.734	1.00	85.25	C

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ATOM	1053	CB	PRO A 139	-24.562	9.398	22.391	1.00	85.25	C
ATOM	1054	O	PRO A 139	-25.266	7.156	20.562	1.00	85.25	O
ATOM	1055	CG	PRO A 139	-23.391	10.297	22.156	1.00	85.25	C
ATOM	1056	CD	PRO A 139	-22.375	9.555	21.328	1.00	85.25	C
ATOM	1057	N	GLY A 140	-25.188	5.906	22.406	1.00	88.25	N
ATOM	1058	CA	GLY A 140	-26.203	4.961	21.984	1.00	88.25	C
ATOM	1059	C	GLY A 140	-25.656	3.846	21.109	1.00	88.25	C
ATOM	1060	O	GLY A 140	-26.359	2.873	20.828	1.00	88.25	O
ATOM	1061	N	GLU A 141	-24.344	3.986	20.656	1.00	91.81	N
ATOM	1062	CA	GLU A 141	-23.781	2.971	19.766	1.00	91.81	C
ATOM	1063	C	GLU A 141	-22.312	2.707	20.078	1.00	91.81	C
ATOM	1064	CB	GLU A 141	-23.953	3.393	18.297	1.00	91.81	C
ATOM	1065	O	GLU A 141	-21.609	3.586	20.578	1.00	91.81	O
ATOM	1066	CG	GLU A 141	-25.391	3.703	17.906	1.00	91.81	C
ATOM	1067	CD	GLU A 141	-25.516	4.309	16.516	1.00	91.81	C
ATOM	1068	OE1	GLU A 141	-26.641	4.398	15.992	1.00	91.81	O
ATOM	1069	OE2	GLU A 141	-24.469	4.695	15.945	1.00	91.81	O
ATOM	1070	N	LYS A 142	-21.953	1.459	19.828	1.00	93.44	N
ATOM	1071	CA	LYS A 142	-20.547	1.066	19.750	1.00	93.44	C
ATOM	1072	C	LYS A 142	-20.125	0.834	18.297	1.00	93.44	C
ATOM	1073	CB	LYS A 142	-20.281	-0.193	20.578	1.00	93.44	C
ATOM	1074	O	LYS A 142	-20.797	0.107	17.562	1.00	93.44	O
ATOM	1075	CG	LYS A 142	-20.344	0.031	22.078	1.00	93.44	C
ATOM	1076	CD	LYS A 142	-19.984	-1.229	22.844	1.00	93.44	C
ATOM	1077	CE	LYS A 142	-20.109	-1.029	24.344	1.00	93.44	C
ATOM	1078	NZ	LYS A 142	-19.812	-2.279	25.109	1.00	93.44	N
ATOM	1079	N	VAL A 143	-19.000	1.461	17.953	1.00	95.12	N
ATOM	1080	CA	VAL A 143	-18.516	1.327	16.578	1.00	95.12	C
ATOM	1081	C	VAL A 143	-17.141	0.666	16.578	1.00	95.12	C
ATOM	1082	CB	VAL A 143	-18.453	2.695	15.867	1.00	95.12	C
ATOM	1083	O	VAL A 143	-16.234	1.101	17.297	1.00	95.12	O
ATOM	1084	CG1	VAL A 143	-18.062	2.523	14.406	1.00	95.12	C
ATOM	1085	CG2	VAL A 143	-19.797	3.420	15.984	1.00	95.12	C
ATOM	1086	N	LYS A 144	-17.047	-0.408	15.805	1.00	96.44	N
ATOM	1087	CA	LYS A 144	-15.773	-1.082	15.609	1.00	96.44	C
ATOM	1088	C	LYS A 144	-15.344	-1.040	14.148	1.00	96.44	C
ATOM	1089	CB	LYS A 144	-15.852	-2.531	16.094	1.00	96.44	C
ATOM	1090	O	LYS A 144	-16.109	-1.413	13.258	1.00	96.44	O
ATOM	1091	CG	LYS A 144	-15.953	-2.678	17.609	1.00	96.44	C
ATOM	1092	CD	LYS A 144	-15.875	-4.141	18.031	1.00	96.44	C
ATOM	1093	CE	LYS A 144	-16.031	-4.289	19.531	1.00	96.44	C
ATOM	1094	NZ	LYS A 144	-15.977	-5.723	19.953	1.00	96.44	N
ATOM	1095	N	GLY A 145	-14.219	-0.528	13.945	1.00	96.38	N
ATOM	1096	CA	GLY A 145	-13.688	-0.464	12.594	1.00	96.38	C
ATOM	1097	C	GLY A 145	-12.406	-1.256	12.414	1.00	96.38	C
ATOM	1098	O	GLY A 145	-11.562	-1.293	13.320	1.00	96.38	O
ATOM	1099	N	LYS A 146	-12.273	-1.974	11.328	1.00	97.38	N
ATOM	1100	CA	LYS A 146	-11.078	-2.732	10.961	1.00	97.38	C
ATOM	1101	C	LYS A 146	-10.625	-2.389	9.547	1.00	97.38	C
ATOM	1102	CB	LYS A 146	-11.344	-4.234	11.070	1.00	97.38	C
ATOM	1103	O	LYS A 146	-11.406	-2.465	8.594	1.00	97.38	O
ATOM	1104	CG	LYS A 146	-10.125	-5.102	10.805	1.00	97.38	C
ATOM	1105	CD	LYS A 146	-10.438	-6.582	10.969	1.00	97.38	C

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ATOM	1106	CE	LYS A 146	-9.219	-7.449	10.688	1.00	97.38	C
ATOM	1107	NZ	LYS A 146	-9.516	-8.898	10.883	1.00	97.38	N
ATOM	1108	N	ILE A 147	-9.375	-1.967	9.445	1.00	97.12	N
ATOM	1109	CA	ILE A 147	-8.781	-1.625	8.156	1.00	97.12	C
ATOM	1110	C	ILE A 147	-7.637	-2.590	7.848	1.00	97.12	C
ATOM	1111	CB	ILE A 147	-8.266	-0.167	8.148	1.00	97.12	C
ATOM	1112	O	ILE A 147	-6.715	-2.754	8.656	1.00	97.12	O
ATOM	1113	CG1	ILE A 147	-9.406	0.803	8.484	1.00	97.12	C
ATOM	1114	CG2	ILE A 147	-7.641	0.172	6.789	1.00	97.12	C
ATOM	1115	CD1	ILE A 147	-9.375	1.320	9.914	1.00	97.12	C
ATOM	1116	N	THR A 148	-7.742	-3.297	6.711	1.00	97.88	N
ATOM	1117	CA	THR A 148	-6.703	-4.230	6.289	1.00	97.88	C
ATOM	1118	C	THR A 148	-6.137	-3.828	4.930	1.00	97.88	C
ATOM	1119	CB	THR A 148	-7.238	-5.672	6.219	1.00	97.88	C
ATOM	1120	O	THR A 148	-6.879	-3.707	3.953	1.00	97.88	O
ATOM	1121	CG2	THR A 148	-6.125	-6.656	5.871	1.00	97.88	C
ATOM	1122	OG1	THR A 148	-7.793	-6.027	7.492	1.00	97.88	O
ATOM	1123	N	ILE A 149	-4.816	-3.529	4.852	1.00	98.19	N
ATOM	1124	CA	ILE A 149	-4.121	-3.260	3.600	1.00	98.19	C
ATOM	1125	C	ILE A 149	-3.180	-4.418	3.275	1.00	98.19	C
ATOM	1126	CB	ILE A 149	-3.332	-1.933	3.666	1.00	98.19	C
ATOM	1127	O	ILE A 149	-2.303	-4.758	4.074	1.00	98.19	O
ATOM	1128	CG1	ILE A 149	-4.266	-0.774	4.031	1.00	98.19	C
ATOM	1129	CG2	ILE A 149	-2.619	-1.662	2.338	1.00	98.19	C
ATOM	1130	CD1	ILE A 149	-3.549	0.542	4.293	1.00	98.19	C
ATOM	1131	N	THR A 150	-3.438	-5.070	2.180	1.00	97.94	N
ATOM	1132	CA	THR A 150	-2.568	-6.141	1.702	1.00	97.94	C
ATOM	1133	C	THR A 150	-1.870	-5.730	0.408	1.00	97.94	C
ATOM	1134	CB	THR A 150	-3.359	-7.441	1.474	1.00	97.94	C
ATOM	1135	O	THR A 150	-2.525	-5.359	-0.567	1.00	97.94	O
ATOM	1136	CG2	THR A 150	-2.432	-8.586	1.086	1.00	97.94	C
ATOM	1137	OG1	THR A 150	-4.055	-7.789	2.678	1.00	97.94	O
ATOM	1138	N	VAL A 151	-0.558	-5.715	0.443	1.00	98.06	N
ATOM	1139	CA	VAL A 151	0.241	-5.438	-0.746	1.00	98.06	C
ATOM	1140	C	VAL A 151	1.050	-6.680	-1.123	1.00	98.06	C
ATOM	1141	CB	VAL A 151	1.184	-4.234	-0.530	1.00	98.06	C
ATOM	1142	O	VAL A 151	1.813	-7.199	-0.308	1.00	98.06	O
ATOM	1143	CG1	VAL A 151	1.981	-3.938	-1.799	1.00	98.06	C
ATOM	1144	CG2	VAL A 151	0.386	-3.004	-0.099	1.00	98.06	C
ATOM	1145	N	THR A 152	0.797	-7.156	-2.295	1.00	97.94	N
ATOM	1146	CA	THR A 152	1.535	-8.305	-2.799	1.00	97.94	C
ATOM	1147	C	THR A 152	2.449	-7.906	-3.953	1.00	97.94	C
ATOM	1148	CB	THR A 152	0.580	-9.422	-3.264	1.00	97.94	C
ATOM	1149	O	THR A 152	1.980	-7.406	-4.977	1.00	97.94	O
ATOM	1150	CG2	THR A 152	1.353	-10.664	-3.695	1.00	97.94	C
ATOM	1151	OG1	THR A 152	-0.299	-9.773	-2.186	1.00	97.94	O
ATOM	1152	N	ILE A 153	3.736	-7.992	-3.701	1.00	97.00	N
ATOM	1153	CA	ILE A 153	4.738	-7.824	-4.750	1.00	97.00	C
ATOM	1154	C	ILE A 153	5.082	-9.188	-5.355	1.00	97.00	C
ATOM	1155	CB	ILE A 153	6.012	-7.141	-4.211	1.00	97.00	C
ATOM	1156	O	ILE A 153	5.582	-10.070	-4.660	1.00	97.00	O
ATOM	1157	CG1	ILE A 153	5.664	-5.785	-3.578	1.00	97.00	C
ATOM	1158	CG2	ILE A 153	7.051	-6.973	-5.324	1.00	97.00	C

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ATOM	1159	CD1 ILE A 153	6.812	-5.156	-2.799	1.00	97.00	C
ATOM	1160	N SER A 154	4.762	-9.359	-6.605	1.00	96.19	N
ATOM	1161	CA SER A 154	4.930	-10.680	-7.211	1.00	96.19	C
ATOM	1162	C SER A 154	5.535	-10.570	-8.602	1.00	96.19	C
ATOM	1163	CB SER A 154	3.588	-11.406	-7.281	1.00	96.19	C
ATOM	1164	O SER A 154	5.707	-9.469	-9.133	1.00	96.19	O
ATOM	1165	OG SER A 154	2.670	-10.688	-8.094	1.00	96.19	O
ATOM	1166	N ASP A 155	5.922	-11.695	-9.102	1.00	91.25	N
ATOM	1167	CA ASP A 155	6.434	-11.867	-10.461	1.00	91.25	C
ATOM	1168	C ASP A 155	7.652	-10.977	-10.703	1.00	91.25	C
ATOM	1169	CB ASP A 155	5.344	-11.562	-11.484	1.00	91.25	C
ATOM	1170	O ASP A 155	7.758	-10.328	-11.750	1.00	91.25	O
ATOM	1171	CG ASP A 155	4.172	-12.523	-11.414	1.00	91.25	C
ATOM	1172	OD1 ASP A 155	4.371	-13.703	-11.062	1.00	91.25	O
ATOM	1173	OD2 ASP A 155	3.035	-12.094	-11.711	1.00	91.25	O
ATOM	1174	N VAL A 156	8.430	-10.867	-9.625	1.00	91.31	N
ATOM	1175	CA VAL A 156	9.656	-10.102	-9.805	1.00	91.31	C
ATOM	1176	C VAL A 156	10.609	-10.859	-10.727	1.00	91.31	C
ATOM	1177	CB VAL A 156	10.352	-9.812	-8.453	1.00	91.31	C
ATOM	1178	O VAL A 156	11.031	-11.977	-10.406	1.00	91.31	O
ATOM	1179	CG1 VAL A 156	11.602	-8.961	-8.656	1.00	91.31	C
ATOM	1180	CG2 VAL A 156	9.383	-9.109	-7.500	1.00	91.31	C
ATOM	1181	N LYS A 157	10.773	-10.375	-11.914	1.00	92.88	N
ATOM	1182	CA LYS A 157	11.664	-10.984	-12.906	1.00	92.88	C
ATOM	1183	C LYS A 157	12.773	-10.016	-13.312	1.00	92.88	C
ATOM	1184	CB LYS A 157	10.867	-11.414	-14.141	1.00	92.88	C
ATOM	1185	O LYS A 157	12.523	-8.828	-13.523	1.00	92.88	O
ATOM	1186	CG LYS A 157	9.883	-12.547	-13.875	1.00	92.88	C
ATOM	1187	CD LYS A 157	9.156	-12.961	-15.141	1.00	92.88	C
ATOM	1188	CE LYS A 157	8.109	-14.031	-14.859	1.00	92.88	C
ATOM	1189	NZ LYS A 157	7.395	-14.445	-16.109	1.00	92.88	N
ATOM	1190	N GLU A 158	13.969	-10.602	-13.312	1.00	92.88	N
ATOM	1191	CA GLU A 158	15.109	-9.828	-13.781	1.00	92.88	C
ATOM	1192	C GLU A 158	15.758	-10.484	-15.000	1.00	92.88	C
ATOM	1193	CB GLU A 158	16.141	-9.656	-12.672	1.00	92.88	C
ATOM	1194	O GLU A 158	16.031	-11.688	-14.984	1.00	92.88	O
ATOM	1195	CG GLU A 158	15.680	-8.766	-11.531	1.00	92.88	C
ATOM	1196	CD GLU A 158	16.766	-8.492	-10.500	1.00	92.88	C
ATOM	1197	OE1 GLU A 158	16.469	-7.832	-9.477	1.00	92.88	O
ATOM	1198	OE2 GLU A 158	17.906	-8.945	-10.719	1.00	92.88	O
ATOM	1199	N GLU A 159	15.906	-9.727	-16.031	1.00	95.69	N
ATOM	1200	CA GLU A 159	16.531	-10.211	-17.250	1.00	95.69	C
ATOM	1201	C GLU A 159	17.609	-9.250	-17.750	1.00	95.69	C
ATOM	1202	CB GLU A 159	15.484	-10.430	-18.344	1.00	95.69	C
ATOM	1203	O GLU A 159	17.484	-8.039	-17.578	1.00	95.69	O
ATOM	1204	CG GLU A 159	14.438	-11.477	-18.000	1.00	95.69	C
ATOM	1205	CD GLU A 159	13.375	-11.648	-19.078	1.00	95.69	C
ATOM	1206	OE1 GLU A 159	12.984	-12.797	-19.375	1.00	95.69	O
ATOM	1207	OE2 GLU A 159	12.938	-10.617	-19.641	1.00	95.69	O
ATOM	1208	N THR A 160	18.688	-9.820	-18.203	1.00	94.31	N
ATOM	1209	CA THR A 160	19.734	-9.016	-18.828	1.00	94.31	C
ATOM	1210	C THR A 160	19.891	-9.383	-20.297	1.00	94.31	C
ATOM	1211	CB THR A 160	21.078	-9.203	-18.109	1.00	94.31	C

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ATOM	1212	O	THR A 160	19.969	-10.562	-20.656	1.00	94.31	O
ATOM	1213	CG2	THR A 160	22.172	-8.344	-18.734	1.00	94.31	C
ATOM	1214	OG1	THR A 160	20.938	-8.836	-16.734	1.00	94.31	O
ATOM	1215	N	LYS A 161	19.781	-8.398	-21.078	1.00	93.69	N
ATOM	1216	CA	LYS A 161	19.938	-8.578	-22.516	1.00	93.69	C
ATOM	1217	C	LYS A 161	21.109	-7.758	-23.047	1.00	93.69	C
ATOM	1218	CB	LYS A 161	18.656	-8.188	-23.266	1.00	93.69	C
ATOM	1219	O	LYS A 161	21.250	-6.578	-22.719	1.00	93.69	O
ATOM	1220	CG	LYS A 161	18.688	-8.484	-24.750	1.00	93.69	C
ATOM	1221	CD	LYS A 161	17.359	-8.125	-25.422	1.00	93.69	C
ATOM	1222	CE	LYS A 161	17.391	-8.406	-26.922	1.00	93.69	C
ATOM	1223	NZ	LYS A 161	16.109	-8.023	-27.578	1.00	93.69	N
ATOM	1224	N	VAL A 162	22.031	-8.414	-23.859	1.00	91.75	N
ATOM	1225	CA	VAL A 162	23.141	-7.742	-24.516	1.00	91.75	C
ATOM	1226	C	VAL A 162	22.844	-7.613	-26.016	1.00	91.75	C
ATOM	1227	CB	VAL A 162	24.469	-8.500	-24.297	1.00	91.75	C
ATOM	1228	O	VAL A 162	22.594	-8.609	-26.688	1.00	91.75	O
ATOM	1229	CG1	VAL A 162	25.625	-7.777	-24.984	1.00	91.75	C
ATOM	1230	CG2	VAL A 162	24.750	-8.672	-22.812	1.00	91.75	C
ATOM	1231	N	GLU A 163	22.750	-6.422	-26.438	1.00	88.44	N
ATOM	1232	CA	GLU A 163	22.578	-6.160	-27.859	1.00	88.44	C
ATOM	1233	C	GLU A 163	23.891	-5.699	-28.500	1.00	88.44	C
ATOM	1234	CB	GLU A 163	21.484	-5.117	-28.094	1.00	88.44	C
ATOM	1235	O	GLU A 163	24.484	-4.707	-28.062	1.00	88.44	O
ATOM	1236	CG	GLU A 163	20.109	-5.559	-27.641	1.00	88.44	C
ATOM	1237	CD	GLU A 163	19.016	-4.543	-27.953	1.00	88.44	C
ATOM	1238	OE1	GLU A 163	18.062	-4.879	-28.703	1.00	88.44	O
ATOM	1239	OE2	GLU A 163	19.109	-3.402	-27.453	1.00	88.44	O
ATOM	1240	N	GLU A 164	24.375	-6.543	-29.516	1.00	85.81	N
ATOM	1241	CA	GLU A 164	25.641	-6.211	-30.188	1.00	85.81	C
ATOM	1242	C	GLU A 164	25.391	-5.465	-31.484	1.00	85.81	C
ATOM	1243	CB	GLU A 164	26.453	-7.477	-30.453	1.00	85.81	C
ATOM	1244	O	GLU A 164	24.891	-6.043	-32.469	1.00	85.81	O
ATOM	1245	CG	GLU A 164	26.875	-8.219	-29.188	1.00	85.81	C
ATOM	1246	CD	GLU A 164	27.812	-9.383	-29.453	1.00	85.81	C
ATOM	1247	OE1	GLU A 164	28.562	-9.789	-28.531	1.00	85.81	O
ATOM	1248	OE2	GLU A 164	27.797	-9.898	-30.594	1.00	85.81	O
ATOM	1249	N	THR A 165	25.172	-4.152	-31.375	1.00	76.19	N
ATOM	1250	CA	THR A 165	25.094	-3.322	-32.562	1.00	76.19	C
ATOM	1251	C	THR A 165	26.391	-2.543	-32.781	1.00	76.19	C
ATOM	1252	CB	THR A 165	23.906	-2.340	-32.469	1.00	76.19	C
ATOM	1253	O	THR A 165	27.484	-3.064	-32.531	1.00	76.19	O
ATOM	1254	CG2	THR A 165	22.578	-3.086	-32.375	1.00	76.19	C
ATOM	1255	OG1	THR A 165	24.062	-1.510	-31.328	1.00	76.19	O
ATOM	1256	N	GLU A 166	26.359	-1.305	-33.344	1.00	80.94	N
ATOM	1257	CA	GLU A 166	27.547	-0.460	-33.500	1.00	80.94	C
ATOM	1258	C	GLU A 166	28.156	-0.117	-32.125	1.00	80.94	C
ATOM	1259	CB	GLU A 166	27.203	0.822	-34.250	1.00	80.94	C
ATOM	1260	O	GLU A 166	29.375	-0.091	-32.000	1.00	80.94	O
ATOM	1261	CG	GLU A 166	26.891	0.601	-35.719	1.00	80.94	C
ATOM	1262	CD	GLU A 166	26.703	1.895	-36.500	1.00	80.94	C
ATOM	1263	OE1	GLU A 166	26.906	1.894	-37.750	1.00	80.94	O
ATOM	1264	OE2	GLU A 166	26.375	2.920	-35.875	1.00	80.94	O

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ATOM	1265	N	GLU A 167	27.375	0.016	-31.094	1.00	78.00	N
ATOM	1266	CA	GLU A 167	27.672	0.176	-29.672	1.00	78.00	C
ATOM	1267	C	GLU A 167	27.078	-0.966	-28.859	1.00	78.00	C
ATOM	1268	CB	GLU A 167	27.141	1.520	-29.156	1.00	78.00	C
ATOM	1269	O	GLU A 167	25.953	-1.411	-29.125	1.00	78.00	O
ATOM	1270	CG	GLU A 167	27.797	2.727	-29.812	1.00	78.00	C
ATOM	1271	CD	GLU A 167	27.312	4.055	-29.250	1.00	78.00	C
ATOM	1272	OE1	GLU A 167	28.125	5.012	-29.188	1.00	78.00	O
ATOM	1273	OE2	GLU A 167	26.125	4.133	-28.859	1.00	78.00	O
ATOM	1274	N	THR A 168	27.906	-1.655	-28.109	1.00	84.75	N
ATOM	1275	CA	THR A 168	27.359	-2.678	-27.219	1.00	84.75	C
ATOM	1276	C	THR A 168	26.438	-2.053	-26.172	1.00	84.75	C
ATOM	1277	CB	THR A 168	28.484	-3.459	-26.516	1.00	84.75	C
ATOM	1278	O	THR A 168	26.828	-1.104	-25.484	1.00	84.75	O
ATOM	1279	CG2	THR A 168	27.922	-4.562	-25.641	1.00	84.75	C
ATOM	1280	OG1	THR A 168	29.344	-4.047	-27.516	1.00	84.75	O
ATOM	1281	N	VAL A 169	25.125	-2.486	-26.078	1.00	87.00	N
ATOM	1282	CA	VAL A 169	24.188	-2.041	-25.047	1.00	87.00	C
ATOM	1283	C	VAL A 169	23.812	-3.215	-24.141	1.00	87.00	C
ATOM	1284	CB	VAL A 169	22.922	-1.417	-25.656	1.00	87.00	C
ATOM	1285	O	VAL A 169	23.375	-4.258	-24.625	1.00	87.00	O
ATOM	1286	CG1	VAL A 169	21.969	-0.940	-24.562	1.00	87.00	C
ATOM	1287	CG2	VAL A 169	23.281	-0.264	-26.594	1.00	87.00	C
ATOM	1288	N	VAL A 170	24.078	-3.076	-22.938	1.00	90.94	N
ATOM	1289	CA	VAL A 170	23.641	-4.031	-21.922	1.00	90.94	C
ATOM	1290	C	VAL A 170	22.391	-3.498	-21.219	1.00	90.94	C
ATOM	1291	CB	VAL A 170	24.750	-4.324	-20.891	1.00	90.94	C
ATOM	1292	O	VAL A 170	22.422	-2.420	-20.625	1.00	90.94	O
ATOM	1293	CG1	VAL A 170	24.281	-5.371	-19.875	1.00	90.94	C
ATOM	1294	CG2	VAL A 170	26.016	-4.793	-21.594	1.00	90.94	C
ATOM	1295	N	THR A 171	21.281	-4.246	-21.344	1.00	93.56	N
ATOM	1296	CA	THR A 171	20.031	-3.799	-20.734	1.00	93.56	C
ATOM	1297	C	THR A 171	19.578	-4.766	-19.641	1.00	93.56	C
ATOM	1298	CB	THR A 171	18.922	-3.658	-21.797	1.00	93.56	C
ATOM	1299	O	THR A 171	19.406	-5.961	-19.906	1.00	93.56	O
ATOM	1300	CG2	THR A 171	17.625	-3.119	-21.172	1.00	93.56	C
ATOM	1301	OG1	THR A 171	19.344	-2.758	-22.828	1.00	93.56	O
ATOM	1302	N	LYS A 172	19.438	-4.211	-18.547	1.00	94.00	N
ATOM	1303	CA	LYS A 172	18.812	-4.926	-17.422	1.00	94.00	C
ATOM	1304	C	LYS A 172	17.344	-4.547	-17.281	1.00	94.00	C
ATOM	1305	CB	LYS A 172	19.562	-4.633	-16.125	1.00	94.00	C
ATOM	1306	O	LYS A 172	17.016	-3.371	-17.125	1.00	94.00	O
ATOM	1307	CG	LYS A 172	19.094	-5.465	-14.938	1.00	94.00	C
ATOM	1308	CD	LYS A 172	19.938	-5.211	-13.703	1.00	94.00	C
ATOM	1309	CE	LYS A 172	19.484	-6.062	-12.523	1.00	94.00	C
ATOM	1310	NZ	LYS A 172	20.281	-5.781	-11.297	1.00	94.00	N
ATOM	1311	N	THR A 173	16.484	-5.523	-17.359	1.00	96.06	N
ATOM	1312	CA	THR A 173	15.047	-5.281	-17.250	1.00	96.06	C
ATOM	1313	C	THR A 173	14.484	-5.895	-15.977	1.00	96.06	C
ATOM	1314	CB	THR A 173	14.297	-5.844	-18.469	1.00	96.06	C
ATOM	1315	O	THR A 173	14.680	-7.086	-15.719	1.00	96.06	O
ATOM	1316	CG2	THR A 173	12.797	-5.543	-18.391	1.00	96.06	C
ATOM	1317	OG1	THR A 173	14.820	-5.250	-19.672	1.00	96.06	O

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ATOM	1318	N	ILE A 174	13.781	-5.043	-15.172	1.00	95.25	N
ATOM	1319	CA	ILE A 174	13.094	-5.496	-13.977	1.00	95.25	C
ATOM	1320	C	ILE A 174	11.578	-5.391	-14.180	1.00	95.25	C
ATOM	1321	CB	ILE A 174	13.516	-4.680	-12.734	1.00	95.25	C
ATOM	1322	O	ILE A 174	11.070	-4.336	-14.562	1.00	95.25	O
ATOM	1323	CG1	ILE A 174	15.047	-4.691	-12.586	1.00	95.25	C
ATOM	1324	CG2	ILE A 174	12.844	-5.223	-11.469	1.00	95.25	C
ATOM	1325	CD1	ILE A 174	15.578	-3.631	-11.633	1.00	95.25	C
ATOM	1326	N	THR A 175	10.930	-6.496	-14.016	1.00	96.56	N
ATOM	1327	CA	THR A 175	9.477	-6.508	-14.102	1.00	96.56	C
ATOM	1328	C	THR A 175	8.859	-6.812	-12.734	1.00	96.56	C
ATOM	1329	CB	THR A 175	8.984	-7.539	-15.133	1.00	96.56	C
ATOM	1330	O	THR A 175	9.227	-7.789	-12.086	1.00	96.56	O
ATOM	1331	CG2	THR A 175	7.465	-7.488	-15.281	1.00	96.56	C
ATOM	1332	OG1	THR A 175	9.586	-7.258	-16.406	1.00	96.56	O
ATOM	1333	N	ILE A 176	7.902	-5.902	-12.359	1.00	96.75	N
ATOM	1334	CA	ILE A 176	7.281	-6.082	-11.055	1.00	96.75	C
ATOM	1335	C	ILE A 176	5.762	-5.980	-11.188	1.00	96.75	C
ATOM	1336	CB	ILE A 176	7.797	-5.039	-10.039	1.00	96.75	C
ATOM	1337	O	ILE A 176	5.250	-5.121	-11.914	1.00	96.75	O
ATOM	1338	CG1	ILE A 176	9.328	-5.086	-9.953	1.00	96.75	C
ATOM	1339	CG2	ILE A 176	7.164	-5.273	-8.656	1.00	96.75	C
ATOM	1340	CD1	ILE A 176	9.938	-3.922	-9.188	1.00	96.75	C
ATOM	1341	N	ASN A 177	5.094	-6.906	-10.594	1.00	97.69	N
ATOM	1342	CA	ASN A 177	3.650	-6.824	-10.406	1.00	97.69	C
ATOM	1343	C	ASN A 177	3.287	-6.504	-8.961	1.00	97.69	C
ATOM	1344	CB	ASN A 177	2.977	-8.125	-10.852	1.00	97.69	C
ATOM	1345	O	ASN A 177	3.688	-7.223	-8.039	1.00	97.69	O
ATOM	1346	CG	ASN A 177	1.467	-8.008	-10.922	1.00	97.69	C
ATOM	1347	ND2	ASN A 177	0.801	-9.102	-11.258	1.00	97.69	N
ATOM	1348	OD1	ASN A 177	0.904	-6.934	-10.672	1.00	97.69	O
ATOM	1349	N	VAL A 178	2.480	-5.465	-8.781	1.00	98.25	N
ATOM	1350	CA	VAL A 178	2.064	-5.090	-7.434	1.00	98.25	C
ATOM	1351	C	VAL A 178	0.541	-5.121	-7.336	1.00	98.25	C
ATOM	1352	CB	VAL A 178	2.598	-3.693	-7.039	1.00	98.25	C
ATOM	1353	O	VAL A 178	-0.151	-4.492	-8.141	1.00	98.25	O
ATOM	1354	CG1	VAL A 178	2.117	-3.307	-5.641	1.00	98.25	C
ATOM	1355	CG2	VAL A 178	4.121	-3.666	-7.109	1.00	98.25	C
ATOM	1356	N	ASN A 179	0.072	-5.836	-6.344	1.00	98.31	N
ATOM	1357	CA	ASN A 179	-1.354	-5.879	-6.035	1.00	98.31	C
ATOM	1358	C	ASN A 179	-1.663	-5.191	-4.711	1.00	98.31	C
ATOM	1359	CB	ASN A 179	-1.859	-7.324	-6.020	1.00	98.31	C
ATOM	1360	O	ASN A 179	-1.135	-5.582	-3.666	1.00	98.31	O
ATOM	1361	CG	ASN A 179	-1.751	-7.996	-7.371	1.00	98.31	C
ATOM	1362	ND2	ASN A 179	-0.811	-8.922	-7.500	1.00	98.31	N
ATOM	1363	OD1	ASN A 179	-2.506	-7.684	-8.297	1.00	98.31	O
ATOM	1364	N	ILE A 180	-2.475	-4.219	-4.816	1.00	98.19	N
ATOM	1365	CA	ILE A 180	-2.904	-3.537	-3.600	1.00	98.19	C
ATOM	1366	C	ILE A 180	-4.363	-3.875	-3.309	1.00	98.19	C
ATOM	1367	CB	ILE A 180	-2.721	-2.008	-3.713	1.00	98.19	C
ATOM	1368	O	ILE A 180	-5.238	-3.662	-4.152	1.00	98.19	O
ATOM	1369	CG1	ILE A 180	-1.249	-1.664	-3.975	1.00	98.19	C
ATOM	1370	CG2	ILE A 180	-3.229	-1.308	-2.447	1.00	98.19	C

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ATOM	1371	CD1 ILE A 180	-1.007	-0.201	-4.316	1.00	98.19	C
ATOM	1372	N ASN A 181	-4.582	-4.441	-2.113	1.00	97.94	N
ATOM	1373	CA ASN A 181	-5.938	-4.695	-1.637	1.00	97.94	C
ATOM	1374	C ASN A 181	-6.230	-3.939	-0.345	1.00	97.94	C
ATOM	1375	CB ASN A 181	-6.160	-6.195	-1.435	1.00	97.94	C
ATOM	1376	O ASN A 181	-5.562	-4.152	0.669	1.00	97.94	O
ATOM	1377	CG ASN A 181	-7.605	-6.539	-1.141	1.00	97.94	C
ATOM	1378	ND2 ASN A 181	-7.855	-7.785	-0.761	1.00	97.94	N
ATOM	1379	OD1 ASN A 181	-8.492	-5.688	-1.254	1.00	97.94	O
ATOM	1380	N LEU A 182	-7.199	-3.082	-0.449	1.00	98.00	N
ATOM	1381	CA LEU A 182	-7.652	-2.361	0.735	1.00	98.00	C
ATOM	1382	C LEU A 182	-9.062	-2.783	1.122	1.00	98.00	C
ATOM	1383	CB LEU A 182	-7.609	-0.850	0.493	1.00	98.00	C
ATOM	1384	O LEU A 182	-9.992	-2.666	0.321	1.00	98.00	O
ATOM	1385	CG LEU A 182	-8.023	0.037	1.667	1.00	98.00	C
ATOM	1386	CD1 LEU A 182	-7.160	1.292	1.717	1.00	98.00	C
ATOM	1387	CD2 LEU A 182	-9.500	0.404	1.562	1.00	98.00	C
ATOM	1388	N GLU A 183	-9.172	-3.367	2.301	1.00	97.12	N
ATOM	1389	CA GLU A 183	-10.469	-3.764	2.844	1.00	97.12	C
ATOM	1390	C GLU A 183	-10.758	-3.051	4.160	1.00	97.12	C
ATOM	1391	CB GLU A 183	-10.531	-5.281	3.041	1.00	97.12	C
ATOM	1392	O GLU A 183	-9.922	-3.043	5.066	1.00	97.12	O
ATOM	1393	CG GLU A 183	-10.414	-6.074	1.748	1.00	97.12	C
ATOM	1394	CD GLU A 183	-10.500	-7.578	1.958	1.00	97.12	C
ATOM	1395	OE1 GLU A 183	-10.391	-8.336	0.967	1.00	97.12	O
ATOM	1396	OE2 GLU A 183	-10.672	-8.000	3.123	1.00	97.12	O
ATOM	1397	N ALA A 184	-11.922	-2.432	4.234	1.00	96.75	N
ATOM	1398	CA ALA A 184	-12.359	-1.771	5.461	1.00	96.75	C
ATOM	1399	C ALA A 184	-13.750	-2.246	5.875	1.00	96.75	C
ATOM	1400	CB ALA A 184	-12.352	-0.255	5.281	1.00	96.75	C
ATOM	1401	O ALA A 184	-14.641	-2.395	5.031	1.00	96.75	O
ATOM	1402	N LYS A 185	-13.797	-2.527	7.125	1.00	97.25	N
ATOM	1403	CA LYS A 185	-15.070	-2.979	7.684	1.00	97.25	C
ATOM	1404	C LYS A 185	-15.422	-2.193	8.945	1.00	97.25	C
ATOM	1405	CB LYS A 185	-15.016	-4.477	7.996	1.00	97.25	C
ATOM	1406	O LYS A 185	-14.594	-2.045	9.844	1.00	97.25	O
ATOM	1407	CG LYS A 185	-16.344	-5.051	8.477	1.00	97.25	C
ATOM	1408	CD LYS A 185	-16.266	-6.562	8.656	1.00	97.25	C
ATOM	1409	CE LYS A 185	-17.594	-7.148	9.078	1.00	97.25	C
ATOM	1410	NZ LYS A 185	-17.531	-8.633	9.227	1.00	97.25	N
ATOM	1411	N VAL A 186	-16.641	-1.656	8.953	1.00	96.75	N
ATOM	1412	CA VAL A 186	-17.156	-0.944	10.117	1.00	96.75	C
ATOM	1413	C VAL A 186	-18.406	-1.648	10.641	1.00	96.75	C
ATOM	1414	CB VAL A 186	-17.484	0.531	9.789	1.00	96.75	C
ATOM	1415	O VAL A 186	-19.328	-1.944	9.875	1.00	96.75	O
ATOM	1416	CG1 VAL A 186	-18.250	1.187	10.930	1.00	96.75	C
ATOM	1417	CG2 VAL A 186	-16.188	1.301	9.500	1.00	96.75	C
ATOM	1418	N ILE A 187	-18.359	-1.938	11.891	1.00	96.44	N
ATOM	1419	CA ILE A 187	-19.500	-2.570	12.539	1.00	96.44	C
ATOM	1420	C ILE A 187	-20.062	-1.638	13.609	1.00	96.44	C
ATOM	1421	CB ILE A 187	-19.109	-3.928	13.172	1.00	96.44	C
ATOM	1422	O ILE A 187	-19.328	-1.166	14.484	1.00	96.44	O
ATOM	1423	CG1 ILE A 187	-18.578	-4.883	12.094	1.00	96.44	C

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ATOM	1424	CG2 ILE A 187	-20.297	-4.539	13.914	1.00	96.44	C
ATOM	1425	CD1 ILE A 187	-18.000	-6.176	12.641	1.00	96.44	C
ATOM	1426	N VAL A 188	-21.391	-1.398	13.555	1.00	94.94	N
ATOM	1427	CA VAL A 188	-22.078	-0.541	14.516	1.00	94.94	C
ATOM	1428	C VAL A 188	-23.078	-1.361	15.320	1.00	94.94	C
ATOM	1429	CB VAL A 188	-22.781	0.642	13.820	1.00	94.94	C
ATOM	1430	O VAL A 188	-23.938	-2.037	14.742	1.00	94.94	O
ATOM	1431	CG1 VAL A 188	-23.453	1.550	14.844	1.00	94.94	C
ATOM	1432	CG2 VAL A 188	-21.781	1.435	12.977	1.00	94.94	C
ATOM	1433	N LYS A 189	-22.969	-1.274	16.641	1.00	94.31	N
ATOM	1434	CA LYS A 189	-23.938	-1.921	17.531	1.00	94.31	C
ATOM	1435	C LYS A 189	-24.625	-0.901	18.422	1.00	94.31	C
ATOM	1436	CB LYS A 189	-23.250	-2.994	18.375	1.00	94.31	C
ATOM	1437	O LYS A 189	-23.953	-0.105	19.094	1.00	94.31	O
ATOM	1438	CG LYS A 189	-24.219	-3.879	19.156	1.00	94.31	C
ATOM	1439	CD LYS A 189	-23.484	-5.023	19.844	1.00	94.31	C
ATOM	1440	CE LYS A 189	-24.453	-5.898	20.641	1.00	94.31	C
ATOM	1441	NZ LYS A 189	-23.750	-7.043	21.297	1.00	94.31	N
ATOM	1442	N LYS A 190	-25.984	-1.037	18.531	1.00	92.56	N
ATOM	1443	CA LYS A 190	-26.734	-0.188	19.453	1.00	92.56	C
ATOM	1444	C LYS A 190	-26.562	-0.658	20.906	1.00	92.56	C
ATOM	1445	CB LYS A 190	-28.219	-0.169	19.094	1.00	92.56	C
ATOM	1446	O LYS A 190	-26.516	-1.860	21.172	1.00	92.56	O
ATOM	1447	CG LYS A 190	-28.547	0.708	17.891	1.00	92.56	C
ATOM	1448	CD LYS A 190	-30.047	0.942	17.766	1.00	92.56	C
ATOM	1449	CE LYS A 190	-30.375	1.879	16.609	1.00	92.56	C
ATOM	1450	NZ LYS A 190	-31.844	2.080	16.453	1.00	92.56	N
ATOM	1451	N LYS A 191	-26.344	0.328	21.797	1.00	86.38	N
ATOM	1452	CA LYS A 191	-26.281	0.014	23.219	1.00	86.38	C
ATOM	1453	C LYS A 191	-27.672	-0.143	23.812	1.00	86.38	C
ATOM	1454	CB LYS A 191	-25.500	1.099	23.969	1.00	86.38	C
ATOM	1455	O LYS A 191	-28.641	0.439	23.312	1.00	86.38	O
ATOM	1456	CG LYS A 191	-24.016	1.143	23.641	1.00	86.38	C
ATOM	1457	CD LYS A 191	-23.281	2.158	24.500	1.00	86.38	C
ATOM	1458	CE LYS A 191	-21.797	2.213	24.172	1.00	86.38	C
ATOM	1459	NZ LYS A 191	-21.094	3.248	24.969	1.00	86.38	N
ATOM	1460	N LYS A 192	-27.812	-1.168	24.672	1.00	79.88	N
ATOM	1461	CA LYS A 192	-29.062	-1.319	25.438	1.00	79.88	C
ATOM	1462	C LYS A 192	-29.422	-0.026	26.156	1.00	79.88	C
ATOM	1463	CB LYS A 192	-28.922	-2.465	26.453	1.00	79.88	C
ATOM	1464	O LYS A 192	-28.547	0.659	26.703	1.00	79.88	O
ATOM	1465	CG LYS A 192	-29.047	-3.850	25.828	1.00	79.88	C
ATOM	1466	CD LYS A 192	-29.297	-4.914	26.891	1.00	79.88	C
ATOM	1467	CE LYS A 192	-29.453	-6.297	26.266	1.00	79.88	C
ATOM	1468	NZ LYS A 192	-29.688	-7.344	27.312	1.00	79.88	N
TER	1469	LYS A 192						
END								
ATOM	1	N SER A 8	36.625	-4.559	-20.969	1.00	73.56	N
ATOM	2	CA SER A 8	35.188	-4.418	-20.984	1.00	73.56	C
ATOM	3	C SER A 8	34.594	-4.441	-19.578	1.00	73.56	C
ATOM	4	CB SER A 8	34.562	-5.527	-21.828	1.00	73.56	C
ATOM	5	O SER A 8	34.938	-5.320	-18.781	1.00	73.56	O
ATOM	6	OG SER A 8	34.844	-6.805	-21.281	1.00	73.56	O

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ATOM	7	N	THR	A	9	34.531	-3.354	-18.859	1.00	84.12	N
ATOM	8	CA	THR	A	9	33.781	-3.166	-17.609	1.00	84.12	C
ATOM	9	C	THR	A	9	32.344	-3.625	-17.734	1.00	84.12	C
ATOM	10	CB	THR	A	9	33.844	-1.692	-17.156	1.00	84.12	C
ATOM	11	O	THR	A	9	31.656	-3.230	-18.672	1.00	84.12	O
ATOM	12	CG2	THR	A	9	33.219	-1.524	-15.773	1.00	84.12	C
ATOM	13	OG1	THR	A	9	35.188	-1.244	-17.109	1.00	84.12	O
ATOM	14	N	LYS	A	10	31.953	-4.551	-16.969	1.00	88.31	N
ATOM	15	CA	LYS	A	10	30.562	-4.996	-16.844	1.00	88.31	C
ATOM	16	C	LYS	A	10	29.844	-4.277	-15.703	1.00	88.31	C
ATOM	17	CB	LYS	A	10	30.500	-6.512	-16.625	1.00	88.31	C
ATOM	18	O	LYS	A	10	30.453	-3.996	-14.664	1.00	88.31	O
ATOM	19	CG	LYS	A	10	30.906	-7.324	-17.844	1.00	88.31	C
ATOM	20	CD	LYS	A	10	30.672	-8.812	-17.625	1.00	88.31	C
ATOM	21	CE	LYS	A	10	31.109	-9.633	-18.828	1.00	88.31	C
ATOM	22	NZ	LYS	A	10	30.953	-11.102	-18.594	1.00	88.31	N
ATOM	23	N	TYR	A	11	28.641	-3.859	-15.969	1.00	92.44	N
ATOM	24	CA	TYR	A	11	27.812	-3.162	-14.984	1.00	92.44	C
ATOM	25	C	TYR	A	11	26.609	-4.008	-14.586	1.00	92.44	C
ATOM	26	CB	TYR	A	11	27.344	-1.813	-15.539	1.00	92.44	C
ATOM	27	O	TYR	A	11	25.938	-4.582	-15.438	1.00	92.44	O
ATOM	28	CG	TYR	A	11	28.484	-0.869	-15.875	1.00	92.44	C
ATOM	29	CD1	TYR	A	11	28.953	0.036	-14.930	1.00	92.44	C
ATOM	30	CD2	TYR	A	11	29.062	-0.877	-17.141	1.00	92.44	C
ATOM	31	CE1	TYR	A	11	30.000	0.910	-15.242	1.00	92.44	C
ATOM	32	CE2	TYR	A	11	30.094	-0.008	-17.453	1.00	92.44	C
ATOM	33	OH	TYR	A	11	31.594	1.742	-16.812	1.00	92.44	O
ATOM	34	CZ	TYR	A	11	30.562	0.880	-16.500	1.00	92.44	C
ATOM	35	N	ARG	A	12	26.406	-4.141	-13.336	1.00	93.62	N
ATOM	36	CA	ARG	A	12	25.281	-4.891	-12.781	1.00	93.62	C
ATOM	37	C	ARG	A	12	24.453	-4.023	-11.844	1.00	93.62	C
ATOM	38	CB	ARG	A	12	25.797	-6.129	-12.031	1.00	93.62	C
ATOM	39	O	ARG	A	12	25.000	-3.291	-11.016	1.00	93.62	O
ATOM	40	CG	ARG	A	12	24.688	-7.008	-11.477	1.00	93.62	C
ATOM	41	CD	ARG	A	12	25.250	-8.219	-10.734	1.00	93.62	C
ATOM	42	NE	ARG	A	12	25.969	-9.109	-11.633	1.00	93.62	N
ATOM	43	NH1	ARG	A	12	27.000	-10.305	-9.945	1.00	93.62	N
ATOM	44	NH2	ARG	A	12	27.406	-10.828	-12.133	1.00	93.62	N
ATOM	45	CZ	ARG	A	12	26.797	-10.078	-11.234	1.00	93.62	C
ATOM	46	N	VAL	A	13	23.141	-4.012	-12.016	1.00	94.81	N
ATOM	47	CA	VAL	A	13	22.203	-3.342	-11.109	1.00	94.81	C
ATOM	48	C	VAL	A	13	21.359	-4.379	-10.383	1.00	94.81	C
ATOM	49	CB	VAL	A	13	21.297	-2.348	-11.867	1.00	94.81	C
ATOM	50	O	VAL	A	13	20.781	-5.273	-11.008	1.00	94.81	O
ATOM	51	CG1	VAL	A	13	20.391	-1.597	-10.891	1.00	94.81	C
ATOM	52	CG2	VAL	A	13	22.141	-1.368	-12.680	1.00	94.81	C
ATOM	53	N	LYS	A	14	21.375	-4.277	-9.086	1.00	96.06	N
ATOM	54	CA	LYS	A	14	20.609	-5.164	-8.211	1.00	96.06	C
ATOM	55	C	LYS	A	14	19.609	-4.375	-7.367	1.00	96.06	C
ATOM	56	CB	LYS	A	14	21.531	-5.965	-7.309	1.00	96.06	C
ATOM	57	O	LYS	A	14	19.938	-3.320	-6.828	1.00	96.06	O
ATOM	58	CG	LYS	A	14	20.844	-7.051	-6.504	1.00	96.06	C
ATOM	59	CD	LYS	A	14	21.828	-7.852	-5.664	1.00	96.06	C

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ATOM	60	CE	LYS	A	14	21.125	-8.914	-4.832	1.00	96.06	C
ATOM	61	NZ	LYS	A	14	22.094	-9.703	-4.012	1.00	96.06	N
ATOM	62	N	LEU	A	15	18.344	-4.848	-7.305	1.00	97.00	N
ATOM	63	CA	LEU	A	15	17.312	-4.270	-6.434	1.00	97.00	C
ATOM	64	C	LEU	A	15	16.844	-5.285	-5.398	1.00	97.00	C
ATOM	65	CB	LEU	A	15	16.125	-3.775	-7.262	1.00	97.00	C
ATOM	66	O	LEU	A	15	16.375	-6.371	-5.758	1.00	97.00	O
ATOM	67	CG	LEU	A	15	15.023	-3.051	-6.492	1.00	97.00	C
ATOM	68	CD1	LEU	A	15	14.336	-2.025	-7.387	1.00	97.00	C
ATOM	69	CD2	LEU	A	15	14.008	-4.051	-5.941	1.00	97.00	C
ATOM	70	N	ASN	A	16	17.078	-4.938	-4.156	1.00	97.25	N
ATOM	71	CA	ASN	A	16	16.562	-5.742	-3.047	1.00	97.25	C
ATOM	72	C	ASN	A	16	15.305	-5.137	-2.445	1.00	97.25	C
ATOM	73	CB	ASN	A	16	17.641	-5.906	-1.969	1.00	97.25	C
ATOM	74	O	ASN	A	16	15.336	-4.020	-1.918	1.00	97.25	O
ATOM	75	CG	ASN	A	16	18.875	-6.637	-2.477	1.00	97.25	C
ATOM	76	ND2	ASN	A	16	20.047	-6.152	-2.096	1.00	97.25	N
ATOM	77	OD1	ASN	A	16	18.766	-7.625	-3.205	1.00	97.25	O
ATOM	78	N	LEU	A	17	14.203	-5.852	-2.520	1.00	97.62	N
ATOM	79	CA	LEU	A	17	12.914	-5.367	-2.027	1.00	97.62	C
ATOM	80	C	LEU	A	17	12.438	-6.195	-0.837	1.00	97.62	C
ATOM	81	CB	LEU	A	17	11.867	-5.402	-3.141	1.00	97.62	C
ATOM	82	O	LEU	A	17	12.344	-7.422	-0.929	1.00	97.62	O
ATOM	83	CG	LEU	A	17	10.438	-5.047	-2.736	1.00	97.62	C
ATOM	84	CD1	LEU	A	17	10.344	-3.576	-2.340	1.00	97.62	C
ATOM	85	CD2	LEU	A	17	9.461	-5.359	-3.871	1.00	97.62	C
ATOM	86	N	THR	A	18	12.297	-5.543	0.319	1.00	97.62	N
ATOM	87	CA	THR	A	18	11.633	-6.137	1.473	1.00	97.62	C
ATOM	88	C	THR	A	18	10.195	-5.641	1.583	1.00	97.62	C
ATOM	89	CB	THR	A	18	12.391	-5.820	2.777	1.00	97.62	C
ATOM	90	O	THR	A	18	9.953	-4.445	1.760	1.00	97.62	O
ATOM	91	CG2	THR	A	18	11.727	-6.496	3.975	1.00	97.62	C
ATOM	92	OG1	THR	A	18	13.734	-6.293	2.666	1.00	97.62	O
ATOM	93	N	LEU	A	19	9.281	-6.547	1.446	1.00	97.88	N
ATOM	94	CA	LEU	A	19	7.863	-6.211	1.457	1.00	97.88	C
ATOM	95	C	LEU	A	19	7.188	-6.766	2.707	1.00	97.88	C
ATOM	96	CB	LEU	A	19	7.176	-6.758	0.204	1.00	97.88	C
ATOM	97	O	LEU	A	19	7.141	-7.980	2.908	1.00	97.88	O
ATOM	98	CG	LEU	A	19	5.719	-6.344	-0.002	1.00	97.88	C
ATOM	99	CD1	LEU	A	19	5.617	-4.832	-0.179	1.00	97.88	C
ATOM	100	CD2	LEU	A	19	5.121	-7.070	-1.203	1.00	97.88	C
ATOM	101	N	ASN	A	20	6.703	-5.859	3.529	1.00	98.00	N
ATOM	102	CA	ASN	A	20	5.922	-6.203	4.711	1.00	98.00	C
ATOM	103	C	ASN	A	20	4.445	-5.859	4.523	1.00	98.00	C
ATOM	104	CB	ASN	A	20	6.477	-5.500	5.949	1.00	98.00	C
ATOM	105	O	ASN	A	20	4.098	-4.691	4.332	1.00	98.00	O
ATOM	106	CG	ASN	A	20	7.934	-5.840	6.211	1.00	98.00	C
ATOM	107	ND2	ASN	A	20	8.797	-4.840	6.113	1.00	98.00	N
ATOM	108	OD1	ASN	A	20	8.273	-6.992	6.492	1.00	98.00	O
ATOM	109	N	THR	A	21	3.594	-6.844	4.570	1.00	98.00	N
ATOM	110	CA	THR	A	21	2.178	-6.609	4.305	1.00	98.00	C
ATOM	111	C	THR	A	21	1.333	-6.980	5.520	1.00	98.00	C
ATOM	112	CB	THR	A	21	1.700	-7.414	3.080	1.00	98.00	C

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ATOM	113	O	THR	A	21	1.589	-7.988	6.180	1.00	98.00	O
ATOM	114	CG2	THR	A	21	2.402	-6.949	1.809	1.00	98.00	C
ATOM	115	OG1	THR	A	21	1.981	-8.805	3.289	1.00	98.00	O
ATOM	116	N	LYS	A	22	0.433	-6.086	5.820	1.00	97.00	N
ATOM	117	CA	LYS	A	22	-0.533	-6.297	6.895	1.00	97.00	C
ATOM	118	C	LYS	A	22	-1.938	-5.895	6.457	1.00	97.00	C
ATOM	119	CB	LYS	A	22	-0.128	-5.508	8.141	1.00	97.00	C
ATOM	120	O	LYS	A	22	-2.123	-4.859	5.816	1.00	97.00	O
ATOM	121	CG	LYS	A	22	1.139	-6.020	8.812	1.00	97.00	C
ATOM	122	CD	LYS	A	22	1.476	-5.215	10.062	1.00	97.00	C
ATOM	123	CE	LYS	A	22	2.791	-5.664	10.680	1.00	97.00	C
ATOM	124	NZ	LYS	A	22	3.123	-4.879	11.906	1.00	97.00	N
ATOM	125	N	SER	A	23	-2.881	-6.730	6.656	1.00	97.75	N
ATOM	126	CA	SER	A	23	-4.285	-6.426	6.410	1.00	97.75	C
ATOM	127	C	SER	A	23	-5.148	-6.762	7.625	1.00	97.75	C
ATOM	128	CB	SER	A	23	-4.793	-7.188	5.188	1.00	97.75	C
ATOM	129	O	SER	A	23	-4.969	-7.812	8.242	1.00	97.75	O
ATOM	130	OG	SER	A	23	-6.176	-6.941	4.977	1.00	97.75	O
ATOM	131	N	SER	A	24	-6.004	-5.859	8.016	1.00	96.88	N
ATOM	132	CA	SER	A	24	-6.828	-6.062	9.195	1.00	96.88	C
ATOM	133	C	SER	A	24	-8.266	-5.613	8.953	1.00	96.88	C
ATOM	134	CB	SER	A	24	-6.250	-5.305	10.391	1.00	96.88	C
ATOM	135	O	SER	A	24	-8.523	-4.785	8.070	1.00	96.88	O
ATOM	136	OG	SER	A	24	-6.227	-3.910	10.148	1.00	96.88	O
ATOM	137	N	PHE	A	25	-9.164	-6.199	9.672	1.00	96.81	N
ATOM	138	CA	PHE	A	25	-10.594	-5.914	9.617	1.00	96.81	C
ATOM	139	C	PHE	A	25	-11.164	-5.750	11.016	1.00	96.81	C
ATOM	140	CB	PHE	A	25	-11.328	-7.027	8.867	1.00	96.81	C
ATOM	141	O	PHE	A	25	-10.867	-6.543	11.914	1.00	96.81	O
ATOM	142	CG	PHE	A	25	-12.828	-6.867	8.867	1.00	96.81	C
ATOM	143	CD1	PHE	A	25	-13.609	-7.535	9.805	1.00	96.81	C
ATOM	144	CD2	PHE	A	25	-13.453	-6.051	7.934	1.00	96.81	C
ATOM	145	CE1	PHE	A	25	-15.000	-7.387	9.805	1.00	96.81	C
ATOM	146	CE2	PHE	A	25	-14.836	-5.898	7.930	1.00	96.81	C
ATOM	147	CZ	PHE	A	25	-15.609	-6.570	8.867	1.00	96.81	C
ATOM	148	N	SER	A	26	-11.906	-4.664	11.219	1.00	96.88	N
ATOM	149	CA	SER	A	26	-12.594	-4.469	12.492	1.00	96.88	C
ATOM	150	C	SER	A	26	-14.078	-4.188	12.281	1.00	96.88	C
ATOM	151	CB	SER	A	26	-11.953	-3.318	13.273	1.00	96.88	C
ATOM	152	O	SER	A	26	-14.453	-3.479	11.344	1.00	96.88	O
ATOM	153	OG	SER	A	26	-12.227	-2.074	12.648	1.00	96.88	O
ATOM	154	N	TYR	A	27	-14.867	-4.754	13.211	1.00	94.19	N
ATOM	155	CA	TYR	A	27	-16.328	-4.707	13.133	1.00	94.19	C
ATOM	156	C	TYR	A	27	-16.922	-4.320	14.477	1.00	94.19	C
ATOM	157	CB	TYR	A	27	-16.875	-6.062	12.680	1.00	94.19	C
ATOM	158	O	TYR	A	27	-16.578	-4.895	15.508	1.00	94.19	O
ATOM	159	CG	TYR	A	27	-18.375	-6.176	12.805	1.00	94.19	C
ATOM	160	CD1	TYR	A	27	-18.969	-6.711	13.945	1.00	94.19	C
ATOM	161	CD2	TYR	A	27	-19.203	-5.746	11.773	1.00	94.19	C
ATOM	162	CE1	TYR	A	27	-20.344	-6.816	14.062	1.00	94.19	C
ATOM	163	CE2	TYR	A	27	-20.594	-5.848	11.875	1.00	94.19	C
ATOM	164	OH	TYR	A	27	-22.516	-6.488	13.133	1.00	94.19	O
ATOM	165	CZ	TYR	A	27	-21.156	-6.383	13.023	1.00	94.19	C

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ATOM	166	N	GLU A 28	-17.750	-3.275	14.445	1.00	96.69	N
ATOM	167	CA	GLU A 28	-18.469	-2.855	15.648	1.00	96.69	C
ATOM	168	C	GLU A 28	-19.953	-2.689	15.367	1.00	96.69	C
ATOM	169	CB	GLU A 28	-17.891	-1.550	16.188	1.00	96.69	C
ATOM	170	O	GLU A 28	-20.344	-2.043	14.398	1.00	96.69	O
ATOM	171	CG	GLU A 28	-16.438	-1.663	16.641	1.00	96.69	C
ATOM	172	CD	GLU A 28	-15.859	-0.355	17.156	1.00	96.69	C
ATOM	173	OE1	GLU A 28	-14.789	-0.376	17.812	1.00	96.69	O
ATOM	174	OE2	GLU A 28	-16.484	0.700	16.922	1.00	96.69	O
ATOM	175	N	ARG A 29	-20.734	-3.305	16.266	1.00	95.31	N
ATOM	176	CA	ARG A 29	-22.188	-3.199	16.172	1.00	95.31	C
ATOM	177	C	ARG A 29	-22.781	-2.477	17.375	1.00	95.31	C
ATOM	178	CB	ARG A 29	-22.828	-4.586	16.031	1.00	95.31	C
ATOM	179	O	ARG A 29	-22.500	-2.850	18.516	1.00	95.31	O
ATOM	180	CG	ARG A 29	-24.312	-4.559	15.711	1.00	95.31	C
ATOM	181	CD	ARG A 29	-24.859	-5.953	15.430	1.00	95.31	C
ATOM	182	NE	ARG A 29	-26.312	-5.945	15.289	1.00	95.31	N
ATOM	183	NH1	ARG A 29	-26.516	-8.242	15.117	1.00	95.31	N
ATOM	184	NH2	ARG A 29	-28.375	-6.914	15.016	1.00	95.31	N
ATOM	185	CZ	ARG A 29	-27.062	-7.035	15.141	1.00	95.31	C
ATOM	186	N	TYR A 30	-23.656	-1.449	17.094	1.00	95.62	N
ATOM	187	CA	TYR A 30	-24.250	-0.626	18.141	1.00	95.62	C
ATOM	188	C	TYR A 30	-25.781	-0.720	18.094	1.00	95.62	C
ATOM	189	CB	TYR A 30	-23.812	0.834	17.984	1.00	95.62	C
ATOM	190	O	TYR A 30	-26.359	-0.927	17.016	1.00	95.62	O
ATOM	191	CG	TYR A 30	-22.328	1.041	18.141	1.00	95.62	C
ATOM	192	CD1	TYR A 30	-21.781	1.436	19.375	1.00	95.62	C
ATOM	193	CD2	TYR A 30	-21.469	0.842	17.078	1.00	95.62	C
ATOM	194	CE1	TYR A 30	-20.422	1.629	19.516	1.00	95.62	C
ATOM	195	CE2	TYR A 30	-20.094	1.032	17.219	1.00	95.62	C
ATOM	196	OH	TYR A 30	-18.219	1.614	18.578	1.00	95.62	O
ATOM	197	CZ	TYR A 30	-19.578	1.425	18.438	1.00	95.62	C
ATOM	198	N	ASP A 31	-26.375	-0.631	19.312	1.00	93.88	N
ATOM	199	CA	ASP A 31	-27.828	-0.496	19.312	1.00	93.88	C
ATOM	200	C	ASP A 31	-28.250	0.933	18.984	1.00	93.88	C
ATOM	201	CB	ASP A 31	-28.391	-0.905	20.688	1.00	93.88	C
ATOM	202	O	ASP A 31	-27.406	1.775	18.672	1.00	93.88	O
ATOM	203	CG	ASP A 31	-27.938	0.015	21.812	1.00	93.88	C
ATOM	204	OD1	ASP A 31	-27.375	1.093	21.531	1.00	93.88	O
ATOM	205	OD2	ASP A 31	-28.172	-0.341	22.984	1.00	93.88	O
ATOM	206	N	ALA A 32	-29.594	1.313	19.000	1.00	90.69	N
ATOM	207	CA	ALA A 32	-30.109	2.621	18.594	1.00	90.69	C
ATOM	208	C	ALA A 32	-29.641	3.711	19.562	1.00	90.69	C
ATOM	209	CB	ALA A 32	-31.641	2.598	18.547	1.00	90.69	C
ATOM	210	O	ALA A 32	-29.484	4.871	19.156	1.00	90.69	O
ATOM	211	N	ALA A 33	-29.375	3.285	20.812	1.00	92.06	N
ATOM	212	CA	ALA A 33	-28.984	4.238	21.859	1.00	92.06	C
ATOM	213	C	ALA A 33	-27.484	4.504	21.812	1.00	92.06	C
ATOM	214	CB	ALA A 33	-29.391	3.727	23.234	1.00	92.06	C
ATOM	215	O	ALA A 33	-26.984	5.383	22.531	1.00	92.06	O
ATOM	216	N	GLY A 34	-26.734	3.746	20.969	1.00	92.69	N
ATOM	217	CA	GLY A 34	-25.297	3.953	20.844	1.00	92.69	C
ATOM	218	C	GLY A 34	-24.484	3.055	21.750	1.00	92.69	C

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ATOM	219	O	GLY A 34	-23.297	3.287	21.969	1.00	92.69	O
ATOM	220	N	ARG A 35	-25.141	1.993	22.297	1.00	94.44	N
ATOM	221	CA	ARG A 35	-24.422	1.049	23.141	1.00	94.44	C
ATOM	222	C	ARG A 35	-23.766	-0.044	22.297	1.00	94.44	C
ATOM	223	CB	ARG A 35	-25.344	0.424	24.172	1.00	94.44	C
ATOM	224	O	ARG A 35	-24.375	-0.578	21.375	1.00	94.44	O
ATOM	225	CG	ARG A 35	-25.891	1.415	25.188	1.00	94.44	C
ATOM	226	CD	ARG A 35	-26.750	0.729	26.250	1.00	94.44	C
ATOM	227	NE	ARG A 35	-27.969	0.159	25.672	1.00	94.44	N
ATOM	228	NH1	ARG A 35	-28.828	-0.574	27.688	1.00	94.44	N
ATOM	229	NH2	ARG A 35	-29.984	-0.930	25.734	1.00	94.44	N
ATOM	230	CZ	ARG A 35	-28.922	-0.447	26.359	1.00	94.44	C
ATOM	231	N	LEU A 36	-22.484	-0.330	22.578	1.00	96.56	N
ATOM	232	CA	LEU A 36	-21.734	-1.350	21.844	1.00	96.56	C
ATOM	233	C	LEU A 36	-22.312	-2.738	22.125	1.00	96.56	C
ATOM	234	CB	LEU A 36	-20.266	-1.305	22.234	1.00	96.56	C
ATOM	235	O	LEU A 36	-22.359	-3.176	23.281	1.00	96.56	O
ATOM	236	CG	LEU A 36	-19.344	-2.324	21.547	1.00	96.56	C
ATOM	237	CD1	LEU A 36	-19.266	-2.041	20.062	1.00	96.56	C
ATOM	238	CD2	LEU A 36	-17.953	-2.312	22.188	1.00	96.56	C
ATOM	239	N	LEU A 37	-22.750	-3.381	21.062	1.00	95.88	N
ATOM	240	CA	LEU A 37	-23.312	-4.715	21.203	1.00	95.88	C
ATOM	241	C	LEU A 37	-22.266	-5.789	20.922	1.00	95.88	C
ATOM	242	CB	LEU A 37	-24.516	-4.895	20.250	1.00	95.88	C
ATOM	243	O	LEU A 37	-22.219	-6.809	21.609	1.00	95.88	O
ATOM	244	CG	LEU A 37	-25.734	-4.031	20.547	1.00	95.88	C
ATOM	245	CD1	LEU A 37	-26.797	-4.234	19.453	1.00	95.88	C
ATOM	246	CD2	LEU A 37	-26.312	-4.352	21.922	1.00	95.88	C
ATOM	247	N	GLU A 38	-21.438	-5.434	19.906	1.00	95.06	N
ATOM	248	CA	GLU A 38	-20.453	-6.418	19.484	1.00	95.06	C
ATOM	249	C	GLU A 38	-19.234	-5.742	18.859	1.00	95.06	C
ATOM	250	CB	GLU A 38	-21.062	-7.406	18.484	1.00	95.06	C
ATOM	251	O	GLU A 38	-19.359	-4.750	18.141	1.00	95.06	O
ATOM	252	CG	GLU A 38	-20.125	-8.539	18.078	1.00	95.06	C
ATOM	253	CD	GLU A 38	-20.750	-9.492	17.078	1.00	95.06	C
ATOM	254	OE1	GLU A 38	-20.188	-10.586	16.859	1.00	95.06	O
ATOM	255	OE2	GLU A 38	-21.797	-9.141	16.500	1.00	95.06	O
ATOM	256	N	ARG A 39	-18.078	-6.289	19.172	1.00	96.75	N
ATOM	257	CA	ARG A 39	-16.828	-5.852	18.547	1.00	96.75	C
ATOM	258	C	ARG A 39	-15.977	-7.043	18.141	1.00	96.75	C
ATOM	259	CB	ARG A 39	-16.047	-4.934	19.484	1.00	96.75	C
ATOM	260	O	ARG A 39	-15.781	-7.973	18.938	1.00	96.75	O
ATOM	261	CG	ARG A 39	-14.734	-4.441	18.906	1.00	96.75	C
ATOM	262	CD	ARG A 39	-14.008	-3.502	19.859	1.00	96.75	C
ATOM	263	NE	ARG A 39	-12.820	-2.918	19.250	1.00	96.75	N
ATOM	264	NH1	ARG A 39	-12.305	-1.568	21.062	1.00	96.75	N
ATOM	265	NH2	ARG A 39	-10.977	-1.546	19.188	1.00	96.75	N
ATOM	266	CZ	ARG A 39	-12.039	-2.012	19.828	1.00	96.75	C
ATOM	267	N	ARG A 40	-15.531	-6.957	16.891	1.00	95.38	N
ATOM	268	CA	ARG A 40	-14.633	-7.988	16.391	1.00	95.38	C
ATOM	269	C	ARG A 40	-13.445	-7.367	15.656	1.00	95.38	C
ATOM	270	CB	ARG A 40	-15.391	-8.938	15.453	1.00	95.38	C
ATOM	271	O	ARG A 40	-13.625	-6.465	14.836	1.00	95.38	O

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ATOM	272	CG	ARG	A	40	-16.328	-9.891	16.172	1.00	95.38	C
ATOM	273	CD	ARG	A	40	-16.969	-10.883	15.219	1.00	95.38	C
ATOM	274	NE	ARG	A	40	-18.000	-11.680	15.875	1.00	95.38	N
ATOM	275	NH1	ARG	A	40	-18.500	-12.953	14.008	1.00	95.38	N
ATOM	276	NH2	ARG	A	40	-19.625	-13.305	15.984	1.00	95.38	N
ATOM	277	CZ	ARG	A	40	-18.703	-12.641	15.289	1.00	95.38	C
ATOM	278	N	GLU	A	41	-12.234	-7.855	15.945	1.00	96.56	N
ATOM	279	CA	GLU	A	41	-11.023	-7.484	15.227	1.00	96.56	C
ATOM	280	C	GLU	A	41	-10.352	-8.703	14.609	1.00	96.56	C
ATOM	281	CB	GLU	A	41	-10.047	-6.762	16.156	1.00	96.56	C
ATOM	282	O	GLU	A	41	-10.195	-9.734	15.266	1.00	96.56	O
ATOM	283	CG	GLU	A	41	-10.555	-5.418	16.672	1.00	96.56	C
ATOM	284	CD	GLU	A	41	-9.547	-4.688	17.531	1.00	96.56	C
ATOM	285	OE1	GLU	A	41	-9.664	-3.449	17.688	1.00	96.56	O
ATOM	286	OE2	GLU	A	41	-8.633	-5.355	18.078	1.00	96.56	O
ATOM	287	N	GLU	A	42	-9.977	-8.609	13.398	1.00	96.31	N
ATOM	288	CA	GLU	A	42	-9.383	-9.727	12.680	1.00	96.31	C
ATOM	289	C	GLU	A	42	-8.148	-9.289	11.898	1.00	96.31	C
ATOM	290	CB	GLU	A	42	-10.406	-10.359	11.727	1.00	96.31	C
ATOM	291	O	GLU	A	42	-8.156	-8.250	11.234	1.00	96.31	O
ATOM	292	CG	GLU	A	42	-11.625	-10.945	12.430	1.00	96.31	C
ATOM	293	CD	GLU	A	42	-12.648	-11.523	11.477	1.00	96.31	C
ATOM	294	OE1	GLU	A	42	-13.727	-10.914	11.297	1.00	96.31	O
ATOM	295	OE2	GLU	A	42	-12.375	-12.602	10.898	1.00	96.31	O
ATOM	296	N	GLU	A	43	-7.090	-10.094	12.062	1.00	97.50	N
ATOM	297	CA	GLU	A	43	-5.941	-9.953	11.172	1.00	97.50	C
ATOM	298	C	GLU	A	43	-6.066	-10.875	9.961	1.00	97.50	C
ATOM	299	CB	GLU	A	43	-4.641	-10.250	11.922	1.00	97.50	C
ATOM	300	O	GLU	A	43	-6.086	-12.102	10.109	1.00	97.50	O
ATOM	301	CG	GLU	A	43	-3.385	-9.938	11.125	1.00	97.50	C
ATOM	302	CD	GLU	A	43	-2.102	-10.211	11.891	1.00	97.50	C
ATOM	303	OE1	GLU	A	43	-1.619	-11.367	11.883	1.00	97.50	O
ATOM	304	OE2	GLU	A	43	-1.573	-9.258	12.508	1.00	97.50	O
ATOM	305	N	LEU	A	44	-6.141	-10.266	8.812	1.00	96.00	N
ATOM	306	CA	LEU	A	44	-6.375	-11.055	7.609	1.00	96.00	C
ATOM	307	C	LEU	A	44	-5.062	-11.539	7.004	1.00	96.00	C
ATOM	308	CB	LEU	A	44	-7.156	-10.234	6.574	1.00	96.00	C
ATOM	309	O	LEU	A	44	-5.004	-12.617	6.418	1.00	96.00	O
ATOM	310	CG	LEU	A	44	-8.547	-9.766	6.992	1.00	96.00	C
ATOM	311	CD1	LEU	A	44	-9.156	-8.883	5.906	1.00	96.00	C
ATOM	312	CD2	LEU	A	44	-9.453	-10.961	7.285	1.00	96.00	C
ATOM	313	N	GLU	A	45	-3.996	-10.742	7.207	1.00	95.94	N
ATOM	314	CA	GLU	A	45	-2.682	-11.094	6.680	1.00	95.94	C
ATOM	315	C	GLU	A	45	-1.571	-10.359	7.426	1.00	95.94	C
ATOM	316	CB	GLU	A	45	-2.600	-10.789	5.184	1.00	95.94	C
ATOM	317	O	GLU	A	45	-1.714	-9.180	7.754	1.00	95.94	O
ATOM	318	CG	GLU	A	45	-1.275	-11.180	4.547	1.00	95.94	C
ATOM	319	CD	GLU	A	45	-1.287	-11.086	3.029	1.00	95.94	C
ATOM	320	OE1	GLU	A	45	-1.087	-9.977	2.488	1.00	95.94	O
ATOM	321	OE2	GLU	A	45	-1.499	-12.133	2.375	1.00	95.94	O
ATOM	322	N	ASN	A	46	-0.521	-11.039	7.621	1.00	96.31	N
ATOM	323	CA	ASN	A	46	0.744	-10.523	8.125	1.00	96.31	C
ATOM	324	C	ASN	A	46	1.934	-11.289	7.562	1.00	96.31	C

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ATOM	325	CB	ASN	A	46	0.765	-10.555	9.656	1.00	96.31	C
ATOM	326	O	ASN	A	46	2.254	-12.383	8.039	1.00	96.31	O
ATOM	327	CG	ASN	A	46	1.949	-9.812	10.242	1.00	96.31	C
ATOM	328	ND2	ASN	A	46	2.215	-10.039	11.523	1.00	96.31	N
ATOM	329	OD1	ASN	A	46	2.619	-9.039	9.547	1.00	96.31	O
ATOM	330	N	LYS	A	47	2.508	-10.664	6.598	1.00	97.19	N
ATOM	331	CA	LYS	A	47	3.518	-11.414	5.859	1.00	97.19	C
ATOM	332	C	LYS	A	47	4.711	-10.531	5.504	1.00	97.19	C
ATOM	333	CB	LYS	A	47	2.916	-12.023	4.594	1.00	97.19	C
ATOM	334	O	LYS	A	47	4.547	-9.336	5.242	1.00	97.19	O
ATOM	335	CG	LYS	A	47	3.848	-12.969	3.857	1.00	97.19	C
ATOM	336	CD	LYS	A	47	3.145	-13.656	2.693	1.00	97.19	C
ATOM	337	CE	LYS	A	47	4.066	-14.641	1.985	1.00	97.19	C
ATOM	338	NZ	LYS	A	47	3.385	-15.305	0.833	1.00	97.19	N
ATOM	339	N	THR	A	48	5.887	-11.172	5.566	1.00	97.25	N
ATOM	340	CA	THR	A	48	7.102	-10.531	5.078	1.00	97.25	C
ATOM	341	C	THR	A	48	7.699	-11.312	3.914	1.00	97.25	C
ATOM	342	CB	THR	A	48	8.148	-10.391	6.199	1.00	97.25	C
ATOM	343	O	THR	A	48	7.840	-12.539	3.986	1.00	97.25	O
ATOM	344	CG2	THR	A	48	9.438	-9.773	5.676	1.00	97.25	C
ATOM	345	OG1	THR	A	48	7.621	-9.562	7.242	1.00	97.25	O
ATOM	346	N	GLU	A	49	8.031	-10.555	2.842	1.00	97.44	N
ATOM	347	CA	GLU	A	49	8.664	-11.164	1.671	1.00	97.44	C
ATOM	348	C	GLU	A	49	9.922	-10.406	1.267	1.00	97.44	C
ATOM	349	CB	GLU	A	49	7.680	-11.211	0.498	1.00	97.44	C
ATOM	350	O	GLU	A	49	9.977	-9.180	1.350	1.00	97.44	O
ATOM	351	CG	GLU	A	49	6.414	-12.008	0.785	1.00	97.44	C
ATOM	352	CD	GLU	A	49	5.398	-11.945	-0.345	1.00	97.44	C
ATOM	353	OE1	GLU	A	49	5.488	-12.773	-1.281	1.00	97.44	O
ATOM	354	OE2	GLU	A	49	4.512	-11.070	-0.294	1.00	97.44	O
ATOM	355	N	ASN	A	50	10.898	-11.195	0.891	1.00	97.75	N
ATOM	356	CA	ASN	A	50	12.133	-10.609	0.364	1.00	97.75	C
ATOM	357	C	ASN	A	50	12.328	-10.961	-1.109	1.00	97.75	C
ATOM	358	CB	ASN	A	50	13.336	-11.070	1.185	1.00	97.75	C
ATOM	359	O	ASN	A	50	12.312	-12.133	-1.482	1.00	97.75	O
ATOM	360	CG	ASN	A	50	13.234	-10.680	2.646	1.00	97.75	C
ATOM	361	ND2	ASN	A	50	13.156	-11.680	3.520	1.00	97.75	N
ATOM	362	OD1	ASN	A	50	13.211	-9.500	2.988	1.00	97.75	O
ATOM	363	N	LEU	A	51	12.477	-9.922	-1.921	1.00	97.38	N
ATOM	364	CA	LEU	A	51	12.625	-10.156	-3.352	1.00	97.38	C
ATOM	365	C	LEU	A	51	13.875	-9.469	-3.885	1.00	97.38	C
ATOM	366	CB	LEU	A	51	11.391	-9.656	-4.109	1.00	97.38	C
ATOM	367	O	LEU	A	51	14.250	-8.398	-3.402	1.00	97.38	O
ATOM	368	CG	LEU	A	51	10.055	-10.305	-3.730	1.00	97.38	C
ATOM	369	CD1	LEU	A	51	8.922	-9.289	-3.863	1.00	97.38	C
ATOM	370	CD2	LEU	A	51	9.789	-11.531	-4.594	1.00	97.38	C
ATOM	371	N	THR	A	52	14.523	-10.148	-4.793	1.00	97.06	N
ATOM	372	CA	THR	A	52	15.711	-9.586	-5.426	1.00	97.06	C
ATOM	373	C	THR	A	52	15.578	-9.609	-6.949	1.00	97.06	C
ATOM	374	CB	THR	A	52	16.984	-10.344	-5.008	1.00	97.06	C
ATOM	375	O	THR	A	52	15.148	-10.609	-7.520	1.00	97.06	O
ATOM	376	CG2	THR	A	52	18.219	-9.734	-5.656	1.00	97.06	C
ATOM	377	OG1	THR	A	52	17.125	-10.281	-3.584	1.00	97.06	O

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ATOM	378	N	PHE A 53	15.883	-8.430	-7.547	1.00	96.06	N
ATOM	379	CA	PHE A 53	15.922	-8.289	-9.000	1.00	96.06	C
ATOM	380	C	PHE A 53	17.312	-7.859	-9.461	1.00	96.06	C
ATOM	381	CB	PHE A 53	14.875	-7.270	-9.469	1.00	96.06	C
ATOM	382	O	PHE A 53	17.969	-7.043	-8.805	1.00	96.06	O
ATOM	383	CG	PHE A 53	13.508	-7.500	-8.891	1.00	96.06	C
ATOM	384	CD1	PHE A 53	12.602	-8.336	-9.523	1.00	96.06	C
ATOM	385	CD2	PHE A 53	13.125	-6.875	-7.707	1.00	96.06	C
ATOM	386	CE1	PHE A 53	11.328	-8.547	-8.992	1.00	96.06	C
ATOM	387	CE2	PHE A 53	11.859	-7.082	-7.172	1.00	96.06	C
ATOM	388	CZ	PHE A 53	10.961	-7.918	-7.816	1.00	96.06	C
ATOM	389	N	GLU A 54	17.703	-8.469	-10.578	1.00	96.44	N
ATOM	390	CA	GLU A 54	19.016	-8.078	-11.055	1.00	96.44	C
ATOM	391	C	GLU A 54	19.062	-7.996	-12.578	1.00	96.44	C
ATOM	392	CB	GLU A 54	20.078	-9.070	-10.562	1.00	96.44	C
ATOM	393	O	GLU A 54	18.359	-8.742	-13.266	1.00	96.44	O
ATOM	394	CG	GLU A 54	19.891	-10.484	-11.078	1.00	96.44	C
ATOM	395	CD	GLU A 54	20.891	-11.477	-10.500	1.00	96.44	C
ATOM	396	OE1	GLU A 54	21.016	-12.594	-11.047	1.00	96.44	O
ATOM	397	OE2	GLU A 54	21.547	-11.133	-9.492	1.00	96.44	O
ATOM	398	N	ARG A 55	19.891	-7.051	-13.016	1.00	96.00	N
ATOM	399	CA	ARG A 55	20.078	-6.898	-14.453	1.00	96.00	C
ATOM	400	C	ARG A 55	21.516	-6.496	-14.781	1.00	96.00	C
ATOM	401	CB	ARG A 55	19.094	-5.859	-15.016	1.00	96.00	C
ATOM	402	O	ARG A 55	22.078	-5.613	-14.133	1.00	96.00	O
ATOM	403	CG	ARG A 55	19.109	-5.762	-16.531	1.00	96.00	C
ATOM	404	CD	ARG A 55	17.938	-4.938	-17.062	1.00	96.00	C
ATOM	405	NE	ARG A 55	17.922	-4.887	-18.516	1.00	96.00	N
ATOM	406	NH1	ARG A 55	15.820	-3.947	-18.672	1.00	96.00	N
ATOM	407	NH2	ARG A 55	17.016	-4.418	-20.562	1.00	96.00	N
ATOM	408	CZ	ARG A 55	16.922	-4.418	-19.250	1.00	96.00	C
ATOM	409	N	GLU A 56	22.047	-7.148	-15.789	1.00	94.44	N
ATOM	410	CA	GLU A 56	23.391	-6.801	-16.250	1.00	94.44	C
ATOM	411	C	GLU A 56	23.328	-5.930	-17.500	1.00	94.44	C
ATOM	412	CB	GLU A 56	24.219	-8.062	-16.531	1.00	94.44	C
ATOM	413	O	GLU A 56	22.531	-6.184	-18.406	1.00	94.44	O
ATOM	414	CG	GLU A 56	24.516	-8.883	-15.281	1.00	94.44	C
ATOM	415	CD	GLU A 56	25.375	-10.102	-15.562	1.00	94.44	C
ATOM	416	OE1	GLU A 56	26.031	-10.609	-14.625	1.00	94.44	O
ATOM	417	OE2	GLU A 56	25.406	-10.555	-16.734	1.00	94.44	O
ATOM	418	N	VAL A 57	24.203	-4.852	-17.500	1.00	92.44	N
ATOM	419	CA	VAL A 57	24.266	-3.996	-18.672	1.00	92.44	C
ATOM	420	C	VAL A 57	25.719	-3.848	-19.125	1.00	92.44	C
ATOM	421	CB	VAL A 57	23.656	-2.605	-18.391	1.00	92.44	C
ATOM	422	O	VAL A 57	26.641	-4.105	-18.359	1.00	92.44	O
ATOM	423	CG1	VAL A 57	22.156	-2.727	-18.094	1.00	92.44	C
ATOM	424	CG2	VAL A 57	24.391	-1.919	-17.250	1.00	92.44	C
ATOM	425	N	GLU A 58	25.859	-3.527	-20.375	1.00	89.00	N
ATOM	426	CA	GLU A 58	27.172	-3.547	-20.984	1.00	89.00	C
ATOM	427	C	GLU A 58	27.891	-2.213	-20.797	1.00	89.00	C
ATOM	428	CB	GLU A 58	27.078	-3.885	-22.469	1.00	89.00	C
ATOM	429	O	GLU A 58	29.125	-2.156	-20.797	1.00	89.00	O
ATOM	430	CG	GLU A 58	26.547	-5.281	-22.750	1.00	89.00	C

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ATOM	431	CD	GLU	A	58	26.641	-5.684	-24.219	1.00	89.00	C
ATOM	432	OE1	GLU	A	58	26.938	-6.867	-24.500	1.00	89.00	O
ATOM	433	OE2	GLU	A	58	26.422	-4.805	-25.078	1.00	89.00	O
ATOM	434	N	THR	A	59	27.094	-1.171	-20.672	1.00	89.81	N
ATOM	435	CA	THR	A	59	27.688	0.158	-20.578	1.00	89.81	C
ATOM	436	C	THR	A	59	27.109	0.929	-19.391	1.00	89.81	C
ATOM	437	CB	THR	A	59	27.469	0.960	-21.875	1.00	89.81	C
ATOM	438	O	THR	A	59	25.984	0.653	-18.953	1.00	89.81	O
ATOM	439	CG2	THR	A	59	27.953	0.176	-23.094	1.00	89.81	C
ATOM	440	OG1	THR	A	59	26.078	1.248	-22.016	1.00	89.81	O
ATOM	441	N	GLU	A	60	27.812	1.818	-18.891	1.00	88.12	N
ATOM	442	CA	GLU	A	60	27.391	2.672	-17.781	1.00	88.12	C
ATOM	443	C	GLU	A	60	26.188	3.521	-18.156	1.00	88.12	C
ATOM	444	CB	GLU	A	60	28.547	3.570	-17.328	1.00	88.12	C
ATOM	445	O	GLU	A	60	25.328	3.803	-17.328	1.00	88.12	O
ATOM	446	CG	GLU	A	60	28.234	4.410	-16.094	1.00	88.12	C
ATOM	447	CD	GLU	A	60	29.391	5.277	-15.641	1.00	88.12	C
ATOM	448	OE1	GLU	A	60	29.188	6.195	-14.820	1.00	88.12	O
ATOM	449	OE2	GLU	A	60	30.531	5.039	-16.109	1.00	88.12	O
ATOM	450	N	GLU	A	61	26.000	3.920	-19.406	1.00	91.69	N
ATOM	451	CA	GLU	A	61	24.922	4.750	-19.922	1.00	91.69	C
ATOM	452	C	GLU	A	61	23.578	4.031	-19.812	1.00	91.69	C
ATOM	453	CB	GLU	A	61	25.188	5.156	-21.375	1.00	91.69	C
ATOM	454	O	GLU	A	61	22.531	4.676	-19.750	1.00	91.69	O
ATOM	455	CG	GLU	A	61	26.375	6.086	-21.547	1.00	91.69	C
ATOM	456	CD	GLU	A	61	26.547	6.590	-22.969	1.00	91.69	C
ATOM	457	OE1	GLU	A	61	26.781	7.805	-23.156	1.00	91.69	O
ATOM	458	OE2	GLU	A	61	26.438	5.766	-23.906	1.00	91.69	O
ATOM	459	N	GLU	A	62	23.641	2.688	-19.734	1.00	92.69	N
ATOM	460	CA	GLU	A	62	22.438	1.878	-19.703	1.00	92.69	C
ATOM	461	C	GLU	A	62	21.938	1.690	-18.281	1.00	92.69	C
ATOM	462	CB	GLU	A	62	22.672	0.516	-20.359	1.00	92.69	C
ATOM	463	O	GLU	A	62	20.844	1.161	-18.047	1.00	92.69	O
ATOM	464	CG	GLU	A	62	23.000	0.598	-21.844	1.00	92.69	C
ATOM	465	CD	GLU	A	62	23.297	-0.757	-22.469	1.00	92.69	C
ATOM	466	OE1	GLU	A	62	22.484	-1.230	-23.297	1.00	92.69	O
ATOM	467	OE2	GLU	A	62	24.344	-1.352	-22.125	1.00	92.69	O
ATOM	468	N	LEU	A	63	22.719	2.123	-17.250	1.00	91.31	N
ATOM	469	CA	LEU	A	63	22.453	1.866	-15.844	1.00	91.31	C
ATOM	470	C	LEU	A	63	21.156	2.531	-15.406	1.00	91.31	C
ATOM	471	CB	LEU	A	63	23.609	2.367	-14.984	1.00	91.31	C
ATOM	472	O	LEU	A	63	20.328	1.905	-14.750	1.00	91.31	O
ATOM	473	CG	LEU	A	63	24.859	1.485	-14.945	1.00	91.31	C
ATOM	474	CD1	LEU	A	63	25.984	2.174	-14.164	1.00	91.31	C
ATOM	475	CD2	LEU	A	63	24.547	0.124	-14.344	1.00	91.31	C
ATOM	476	N	PRO	A	64	20.875	3.742	-15.836	1.00	90.88	N
ATOM	477	CA	PRO	A	64	19.641	4.391	-15.422	1.00	90.88	C
ATOM	478	C	PRO	A	64	18.391	3.689	-15.977	1.00	90.88	C
ATOM	479	CB	PRO	A	64	19.766	5.805	-16.000	1.00	90.88	C
ATOM	480	O	PRO	A	64	17.391	3.557	-15.273	1.00	90.88	O
ATOM	481	CG	PRO	A	64	21.234	6.051	-16.078	1.00	90.88	C
ATOM	482	CD	PRO	A	64	21.922	4.754	-16.406	1.00	90.88	C
ATOM	483	N	ALA	A	65	18.484	3.307	-17.234	1.00	93.31	N

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ATOM	484	CA	ALA	A	65	17.375	2.576	-17.844	1.00	93.31	C
ATOM	485	C	ALA	A	65	17.156	1.244	-17.141	1.00	93.31	C
ATOM	486	CB	ALA	A	65	17.641	2.346	-19.328	1.00	93.31	C
ATOM	487	O	ALA	A	65	16.000	0.844	-16.906	1.00	93.31	O
ATOM	488	N	ALA	A	66	18.219	0.584	-16.828	1.00	94.12	N
ATOM	489	CA	ALA	A	66	18.141	-0.683	-16.109	1.00	94.12	C
ATOM	490	C	ALA	A	66	17.531	-0.482	-14.727	1.00	94.12	C
ATOM	491	CB	ALA	A	66	19.516	-1.330	-16.000	1.00	94.12	C
ATOM	492	O	ALA	A	66	16.703	-1.282	-14.289	1.00	94.12	O
ATOM	493	N	LYS	A	67	17.984	0.572	-14.062	1.00	91.94	N
ATOM	494	CA	LYS	A	67	17.406	0.918	-12.766	1.00	91.94	C
ATOM	495	C	LYS	A	67	15.898	1.148	-12.867	1.00	91.94	C
ATOM	496	CB	LYS	A	67	18.094	2.162	-12.195	1.00	91.94	C
ATOM	497	O	LYS	A	67	15.133	0.643	-12.055	1.00	91.94	O
ATOM	498	CG	LYS	A	67	17.625	2.529	-10.789	1.00	91.94	C
ATOM	499	CD	LYS	A	67	18.375	3.742	-10.250	1.00	91.94	C
ATOM	500	CE	LYS	A	67	17.859	4.164	-8.883	1.00	91.94	C
ATOM	501	NZ	LYS	A	67	18.562	5.375	-8.375	1.00	91.94	N
ATOM	502	N	ALA	A	68	15.492	1.903	-13.812	1.00	92.75	N
ATOM	503	CA	ALA	A	68	14.086	2.207	-14.039	1.00	92.75	C
ATOM	504	C	ALA	A	68	13.281	0.934	-14.289	1.00	92.75	C
ATOM	505	CB	ALA	A	68	13.922	3.174	-15.203	1.00	92.75	C
ATOM	506	O	ALA	A	68	12.164	0.787	-13.789	1.00	92.75	O
ATOM	507	N	GLU	A	69	13.805	0.035	-14.984	1.00	95.00	N
ATOM	508	CA	GLU	A	69	13.148	-1.234	-15.273	1.00	95.00	C
ATOM	509	C	GLU	A	69	12.953	-2.059	-14.000	1.00	95.00	C
ATOM	510	CB	GLU	A	69	13.945	-2.033	-16.297	1.00	95.00	C
ATOM	511	O	GLU	A	69	11.906	-2.672	-13.805	1.00	95.00	O
ATOM	512	CG	GLU	A	69	13.875	-1.466	-17.719	1.00	95.00	C
ATOM	513	CD	GLU	A	69	14.703	-2.248	-18.719	1.00	95.00	C
ATOM	514	OE1	GLU	A	69	14.695	-1.896	-19.922	1.00	95.00	O
ATOM	515	OE2	GLU	A	69	15.367	-3.223	-18.297	1.00	95.00	O
ATOM	516	N	LEU	A	70	14.047	-2.111	-13.195	1.00	95.81	N
ATOM	517	CA	LEU	A	70	13.969	-2.877	-11.953	1.00	95.81	C
ATOM	518	C	LEU	A	70	12.930	-2.271	-11.008	1.00	95.81	C
ATOM	519	CB	LEU	A	70	15.328	-2.932	-11.266	1.00	95.81	C
ATOM	520	O	LEU	A	70	12.203	-2.998	-10.336	1.00	95.81	O
ATOM	521	CG	LEU	A	70	16.406	-3.750	-11.969	1.00	95.81	C
ATOM	522	CD1	LEU	A	70	17.688	-3.793	-11.125	1.00	95.81	C
ATOM	523	CD2	LEU	A	70	15.914	-5.160	-12.258	1.00	95.81	C
ATOM	524	N	ILE	A	71	12.859	-0.943	-10.969	1.00	94.00	N
ATOM	525	CA	ILE	A	71	11.859	-0.257	-10.156	1.00	94.00	C
ATOM	526	C	ILE	A	71	10.461	-0.597	-10.664	1.00	94.00	C
ATOM	527	CB	ILE	A	71	12.078	1.272	-10.164	1.00	94.00	C
ATOM	528	O	ILE	A	71	9.539	-0.817	-9.875	1.00	94.00	O
ATOM	529	CG1	ILE	A	71	13.375	1.633	-9.438	1.00	94.00	C
ATOM	530	CG2	ILE	A	71	10.883	1.992	-9.539	1.00	94.00	C
ATOM	531	CD1	ILE	A	71	13.391	1.245	-7.969	1.00	94.00	C
ATOM	532	N	GLU	A	72	10.305	-0.643	-11.961	1.00	95.81	N
ATOM	533	CA	GLU	A	72	9.023	-1.013	-12.555	1.00	95.81	C
ATOM	534	C	GLU	A	72	8.625	-2.432	-12.164	1.00	95.81	C
ATOM	535	CB	GLU	A	72	9.078	-0.883	-14.086	1.00	95.81	C
ATOM	536	O	GLU	A	72	7.445	-2.711	-11.938	1.00	95.81	O

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ATOM	537	CG	GLU A 72	7.727	-1.032	-14.766	1.00	95.81	C
ATOM	538	CD	GLU A 72	7.781	-0.785	-16.266	1.00	95.81	C
ATOM	539	OE1	GLU A 72	6.730	-0.896	-16.938	1.00	95.81	O
ATOM	540	OE2	GLU A 72	8.883	-0.480	-16.766	1.00	95.81	O
ATOM	541	N	GLU A 73	9.539	-3.307	-12.141	1.00	96.75	N
ATOM	542	CA	GLU A 73	9.273	-4.668	-11.688	1.00	96.75	C
ATOM	543	C	GLU A 73	8.820	-4.680	-10.227	1.00	96.75	C
ATOM	544	CB	GLU A 73	10.516	-5.547	-11.867	1.00	96.75	C
ATOM	545	O	GLU A 73	7.906	-5.422	-9.859	1.00	96.75	O
ATOM	546	CG	GLU A 73	10.859	-5.836	-13.320	1.00	96.75	C
ATOM	547	CD	GLU A 73	9.828	-6.711	-14.016	1.00	96.75	C
ATOM	548	OE1	GLU A 73	9.188	-6.238	-14.984	1.00	96.75	O
ATOM	549	OE2	GLU A 73	9.664	-7.879	-13.602	1.00	96.75	O
ATOM	550	N	ALA A 74	9.523	-3.885	-9.430	1.00	94.94	N
ATOM	551	CA	ALA A 74	9.141	-3.754	-8.023	1.00	94.94	C
ATOM	552	C	ALA A 74	7.715	-3.225	-7.895	1.00	94.94	C
ATOM	553	CB	ALA A 74	10.117	-2.838	-7.289	1.00	94.94	C
ATOM	554	O	ALA A 74	6.938	-3.709	-7.070	1.00	94.94	O
ATOM	555	N	VAL A 75	7.355	-2.246	-8.742	1.00	95.81	N
ATOM	556	CA	VAL A 75	6.016	-1.668	-8.742	1.00	95.81	C
ATOM	557	C	VAL A 75	4.988	-2.752	-9.055	1.00	95.81	C
ATOM	558	CB	VAL A 75	5.898	-0.511	-9.758	1.00	95.81	C
ATOM	559	O	VAL A 75	3.943	-2.832	-8.406	1.00	95.81	O
ATOM	560	CG1	VAL A 75	4.438	-0.104	-9.945	1.00	95.81	C
ATOM	561	CG2	VAL A 75	6.734	0.685	-9.305	1.00	95.81	C
ATOM	562	N	LYS A 76	5.258	-3.553	-9.977	1.00	96.62	N
ATOM	563	CA	LYS A 76	4.332	-4.613	-10.367	1.00	96.62	C
ATOM	564	C	LYS A 76	4.094	-5.586	-9.219	1.00	96.62	C
ATOM	565	CB	LYS A 76	4.863	-5.363	-11.586	1.00	96.62	C
ATOM	566	O	LYS A 76	2.963	-6.020	-8.984	1.00	96.62	O
ATOM	567	CG	LYS A 76	4.801	-4.562	-12.883	1.00	96.62	C
ATOM	568	CD	LYS A 76	5.332	-5.367	-14.062	1.00	96.62	C
ATOM	569	CE	LYS A 76	5.359	-4.539	-15.336	1.00	96.62	C
ATOM	570	NZ	LYS A 76	5.945	-5.297	-16.484	1.00	96.62	N
ATOM	571	N	VAL A 77	5.148	-5.926	-8.516	1.00	96.62	N
ATOM	572	CA	VAL A 77	5.051	-6.844	-7.383	1.00	96.62	C
ATOM	573	C	VAL A 77	4.219	-6.207	-6.270	1.00	96.62	C
ATOM	574	CB	VAL A 77	6.445	-7.238	-6.848	1.00	96.62	C
ATOM	575	O	VAL A 77	3.352	-6.859	-5.684	1.00	96.62	O
ATOM	576	CG1	VAL A 77	6.320	-8.000	-5.531	1.00	96.62	C
ATOM	577	CG2	VAL A 77	7.191	-8.078	-7.883	1.00	96.62	C
ATOM	578	N	ILE A 78	4.457	-4.973	-5.957	1.00	97.00	N
ATOM	579	CA	ILE A 78	3.744	-4.254	-4.906	1.00	97.00	C
ATOM	580	C	ILE A 78	2.266	-4.137	-5.273	1.00	97.00	C
ATOM	581	CB	ILE A 78	4.348	-2.852	-4.672	1.00	97.00	C
ATOM	582	O	ILE A 78	1.393	-4.367	-4.434	1.00	97.00	O
ATOM	583	CG1	ILE A 78	5.750	-2.973	-4.055	1.00	97.00	C
ATOM	584	CG2	ILE A 78	3.430	-2.010	-3.781	1.00	97.00	C
ATOM	585	CD1	ILE A 78	6.531	-1.667	-4.043	1.00	97.00	C
ATOM	586	N	GLU A 79	1.990	-3.807	-6.555	1.00	97.19	N
ATOM	587	CA	GLU A 79	0.614	-3.705	-7.027	1.00	97.19	C
ATOM	588	C	GLU A 79	-0.120	-5.035	-6.879	1.00	97.19	C
ATOM	589	CB	GLU A 79	0.580	-3.246	-8.484	1.00	97.19	C

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ATOM	590	O	GLU A 79	-1.286	-5.066	-6.484	1.00	97.19	O
ATOM	591	CG	GLU A 79	0.965	-1.786	-8.680	1.00	97.19	C
ATOM	592	CD	GLU A 79	0.858	-1.323	-10.125	1.00	97.19	C
ATOM	593	OE1	GLU A 79	0.870	-0.096	-10.375	1.00	97.19	O
ATOM	594	OE2	GLU A 79	0.761	-2.195	-11.016	1.00	97.19	O
ATOM	595	N	LYS A 80	0.544	-6.047	-7.289	1.00	97.12	N
ATOM	596	CA	LYS A 80	-0.055	-7.371	-7.145	1.00	97.12	C
ATOM	597	C	LYS A 80	-0.375	-7.672	-5.684	1.00	97.12	C
ATOM	598	CB	LYS A 80	0.873	-8.445	-7.707	1.00	97.12	C
ATOM	599	O	LYS A 80	-1.437	-8.219	-5.371	1.00	97.12	O
ATOM	600	CG	LYS A 80	0.254	-9.836	-7.758	1.00	97.12	C
ATOM	601	CD	LYS A 80	1.191	-10.844	-8.414	1.00	97.12	C
ATOM	602	CE	LYS A 80	0.590	-12.242	-8.422	1.00	97.12	C
ATOM	603	NZ	LYS A 80	1.516	-13.234	-9.039	1.00	97.12	N
ATOM	604	N	LYS A 81	0.539	-7.301	-4.848	1.00	97.25	N
ATOM	605	CA	LYS A 81	0.304	-7.539	-3.426	1.00	97.25	C
ATOM	606	C	LYS A 81	-0.849	-6.688	-2.906	1.00	97.25	C
ATOM	607	CB	LYS A 81	1.571	-7.258	-2.617	1.00	97.25	C
ATOM	608	O	LYS A 81	-1.637	-7.137	-2.072	1.00	97.25	O
ATOM	609	CG	LYS A 81	1.562	-7.859	-1.220	1.00	97.25	C
ATOM	610	CD	LYS A 81	1.396	-9.375	-1.267	1.00	97.25	C
ATOM	611	CE	LYS A 81	1.360	-9.977	0.132	1.00	97.25	C
ATOM	612	NZ	LYS A 81	1.094	-11.445	0.095	1.00	97.25	N
ATOM	613	N	LEU A 82	-0.973	-5.449	-3.252	1.00	98.00	N
ATOM	614	CA	LEU A 82	-2.096	-4.582	-2.904	1.00	98.00	C
ATOM	615	C	LEU A 82	-3.418	-5.207	-3.336	1.00	98.00	C
ATOM	616	CB	LEU A 82	-1.932	-3.205	-3.553	1.00	98.00	C
ATOM	617	O	LEU A 82	-4.391	-5.199	-2.578	1.00	98.00	O
ATOM	618	CG	LEU A 82	-0.977	-2.236	-2.854	1.00	98.00	C
ATOM	619	CD1	LEU A 82	-0.685	-1.039	-3.752	1.00	98.00	C
ATOM	620	CD2	LEU A 82	-1.559	-1.780	-1.520	1.00	98.00	C
ATOM	621	N	GLU A 83	-3.416	-5.715	-4.543	1.00	97.88	N
ATOM	622	CA	GLU A 83	-4.621	-6.355	-5.059	1.00	97.88	C
ATOM	623	C	GLU A 83	-5.016	-7.562	-4.211	1.00	97.88	C
ATOM	624	CB	GLU A 83	-4.426	-6.777	-6.516	1.00	97.88	C
ATOM	625	O	GLU A 83	-6.195	-7.773	-3.932	1.00	97.88	O
ATOM	626	CG	GLU A 83	-4.320	-5.609	-7.488	1.00	97.88	C
ATOM	627	CD	GLU A 83	-3.971	-6.035	-8.906	1.00	97.88	C
ATOM	628	OE1	GLU A 83	-3.904	-5.164	-9.797	1.00	97.88	O
ATOM	629	OE2	GLU A 83	-3.762	-7.250	-9.117	1.00	97.88	O
ATOM	630	N	GLU A 84	-4.055	-8.375	-3.871	1.00	97.12	N
ATOM	631	CA	GLU A 84	-4.297	-9.555	-3.037	1.00	97.12	C
ATOM	632	C	GLU A 84	-4.883	-9.156	-1.684	1.00	97.12	C
ATOM	633	CB	GLU A 84	-3.006	-10.352	-2.842	1.00	97.12	C
ATOM	634	O	GLU A 84	-5.824	-9.789	-1.199	1.00	97.12	O
ATOM	635	CG	GLU A 84	-2.506	-11.031	-4.105	1.00	97.12	C
ATOM	636	CD	GLU A 84	-1.182	-11.750	-3.916	1.00	97.12	C
ATOM	637	OE1	GLU A 84	-0.655	-12.320	-4.898	1.00	97.12	O
ATOM	638	OE2	GLU A 84	-0.666	-11.750	-2.775	1.00	97.12	O
ATOM	639	N	LEU A 85	-4.297	-8.055	-1.076	1.00	97.69	N
ATOM	640	CA	LEU A 85	-4.777	-7.590	0.220	1.00	97.69	C
ATOM	641	C	LEU A 85	-6.207	-7.074	0.115	1.00	97.69	C
ATOM	642	CB	LEU A 85	-3.865	-6.484	0.765	1.00	97.69	C

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ATOM	643	O	LEU A 85	-7.035	-7.348	0.988	1.00	97.69	O
ATOM	644	CG	LEU A 85	-2.453	-6.910	1.168	1.00	97.69	C
ATOM	645	CD1	LEU A 85	-1.620	-5.691	1.552	1.00	97.69	C
ATOM	646	CD2	LEU A 85	-2.502	-7.914	2.314	1.00	97.69	C
ATOM	647	N	PHE A 86	-6.527	-6.379	-1.006	1.00	97.38	N
ATOM	648	CA	PHE A 86	-7.867	-5.844	-1.222	1.00	97.38	C
ATOM	649	C	PHE A 86	-8.859	-6.969	-1.493	1.00	97.38	C
ATOM	650	CB	PHE A 86	-7.871	-4.852	-2.387	1.00	97.38	C
ATOM	651	O	PHE A 86	-10.031	-6.875	-1.115	1.00	97.38	O
ATOM	652	CG	PHE A 86	-7.617	-3.426	-1.970	1.00	97.38	C
ATOM	653	CD1	PHE A 86	-8.641	-2.486	-2.004	1.00	97.38	C
ATOM	654	CD2	PHE A 86	-6.359	-3.027	-1.542	1.00	97.38	C
ATOM	655	CE1	PHE A 86	-8.414	-1.168	-1.618	1.00	97.38	C
ATOM	656	CE2	PHE A 86	-6.121	-1.712	-1.155	1.00	97.38	C
ATOM	657	CZ	PHE A 86	-7.148	-0.784	-1.195	1.00	97.38	C
ATOM	658	N	GLU A 87	-8.398	-7.957	-2.125	1.00	97.19	N
ATOM	659	CA	GLU A 87	-9.273	-9.102	-2.377	1.00	97.19	C
ATOM	660	C	GLU A 87	-9.656	-9.797	-1.075	1.00	97.19	C
ATOM	661	CB	GLU A 87	-8.602	-10.094	-3.328	1.00	97.19	C
ATOM	662	O	GLU A 87	-10.805	-10.203	-0.899	1.00	97.19	O
ATOM	663	CG	GLU A 87	-9.500	-11.242	-3.758	1.00	97.19	C
ATOM	664	CD	GLU A 87	-10.719	-10.789	-4.551	1.00	97.19	C
ATOM	665	OE1	GLU A 87	-11.727	-11.523	-4.582	1.00	97.19	O
ATOM	666	OE2	GLU A 87	-10.656	-9.688	-5.141	1.00	97.19	O
ATOM	667	N	LYS A 88	-8.750	-9.961	-0.172	1.00	96.06	N
ATOM	668	CA	LYS A 88	-9.039	-10.547	1.132	1.00	96.06	C
ATOM	669	C	LYS A 88	-10.062	-9.711	1.896	1.00	96.06	C
ATOM	670	CB	LYS A 88	-7.758	-10.695	1.955	1.00	96.06	C
ATOM	671	O	LYS A 88	-10.984	-10.258	2.510	1.00	96.06	O
ATOM	672	CG	LYS A 88	-6.812	-11.773	1.447	1.00	96.06	C
ATOM	673	CD	LYS A 88	-5.570	-11.883	2.318	1.00	96.06	C
ATOM	674	CE	LYS A 88	-4.613	-12.945	1.798	1.00	96.06	C
ATOM	675	NZ	LYS A 88	-3.363	-13.016	2.613	1.00	96.06	N
ATOM	676	N	LEU A 89	-9.852	-8.352	1.852	1.00	96.12	N
ATOM	677	CA	LEU A 89	-10.789	-7.438	2.496	1.00	96.12	C
ATOM	678	C	LEU A 89	-12.164	-7.520	1.843	1.00	96.12	C
ATOM	679	CB	LEU A 89	-10.266	-6.000	2.436	1.00	96.12	C
ATOM	680	O	LEU A 89	-13.188	-7.551	2.533	1.00	96.12	O
ATOM	681	CG	LEU A 89	-9.461	-5.523	3.643	1.00	96.12	C
ATOM	682	CD1	LEU A 89	-8.133	-4.922	3.186	1.00	96.12	C
ATOM	683	CD2	LEU A 89	-10.258	-4.512	4.457	1.00	96.12	C
ATOM	684	N	ARG A 90	-12.188	-7.602	0.541	1.00	95.88	N
ATOM	685	CA	ARG A 90	-13.422	-7.711	-0.223	1.00	95.88	C
ATOM	686	C	ARG A 90	-14.211	-8.953	0.188	1.00	95.88	C
ATOM	687	CB	ARG A 90	-13.125	-7.750	-1.724	1.00	95.88	C
ATOM	688	O	ARG A 90	-15.422	-8.883	0.409	1.00	95.88	O
ATOM	689	CG	ARG A 90	-14.367	-7.684	-2.598	1.00	95.88	C
ATOM	690	CD	ARG A 90	-14.016	-7.691	-4.078	1.00	95.88	C
ATOM	691	NE	ARG A 90	-13.398	-6.441	-4.496	1.00	95.88	N
ATOM	692	NH1	ARG A 90	-11.922	-7.426	-5.977	1.00	95.88	N
ATOM	693	NH2	ARG A 90	-11.914	-5.148	-5.691	1.00	95.88	N
ATOM	694	CZ	ARG A 90	-12.414	-6.340	-5.387	1.00	95.88	C
ATOM	695	N	LYS A 91	-13.562	-10.055	0.202	1.00	95.81	N

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ATOM	696	CA	LYS	A	91	-14.195	-11.320	0.575	1.00	95.81	C
ATOM	697	C	LYS	A	91	-14.797	-11.234	1.974	1.00	95.81	C
ATOM	698	CB	LYS	A	91	-13.188	-12.469	0.504	1.00	95.81	C
ATOM	699	O	LYS	A	91	-15.922	-11.695	2.199	1.00	95.81	O
ATOM	700	CG	LYS	A	91	-12.859	-12.914	-0.913	1.00	95.81	C
ATOM	701	CD	LYS	A	91	-11.906	-14.102	-0.916	1.00	95.81	C
ATOM	702	CE	LYS	A	91	-11.555	-14.531	-2.332	1.00	95.81	C
ATOM	703	NZ	LYS	A	91	-10.578	-15.664	-2.340	1.00	95.81	N
ATOM	704	N	ARG	A	92	-14.039	-10.586	2.771	1.00	95.12	N
ATOM	705	CA	ARG	A	92	-14.531	-10.469	4.141	1.00	95.12	C
ATOM	706	C	ARG	A	92	-15.758	-9.562	4.203	1.00	95.12	C
ATOM	707	CB	ARG	A	92	-13.438	-9.938	5.062	1.00	95.12	C
ATOM	708	O	ARG	A	92	-16.734	-9.883	4.891	1.00	95.12	O
ATOM	709	CG	ARG	A	92	-13.844	-9.859	6.527	1.00	95.12	C
ATOM	710	CD	ARG	A	92	-14.219	-11.227	7.074	1.00	95.12	C
ATOM	711	NE	ARG	A	92	-14.633	-11.156	8.477	1.00	95.12	N
ATOM	712	NH1	ARG	A	92	-15.711	-13.195	8.484	1.00	95.12	N
ATOM	713	NH2	ARG	A	92	-15.656	-11.914	10.383	1.00	95.12	N
ATOM	714	CZ	ARG	A	92	-15.336	-12.086	9.109	1.00	95.12	C
ATOM	715	N	LEU	A	93	-15.812	-8.406	3.580	1.00	93.75	N
ATOM	716	CA	LEU	A	93	-16.938	-7.477	3.539	1.00	93.75	C
ATOM	717	C	LEU	A	93	-18.141	-8.117	2.854	1.00	93.75	C
ATOM	718	CB	LEU	A	93	-16.547	-6.188	2.814	1.00	93.75	C
ATOM	719	O	LEU	A	93	-19.281	-7.887	3.258	1.00	93.75	O
ATOM	720	CG	LEU	A	93	-15.562	-5.273	3.543	1.00	93.75	C
ATOM	721	CD1	LEU	A	93	-15.062	-4.184	2.604	1.00	93.75	C
ATOM	722	CD2	LEU	A	93	-16.219	-4.660	4.777	1.00	93.75	C
ATOM	723	N	GLU	A	94	-17.844	-8.922	1.869	1.00	93.69	N
ATOM	724	CA	GLU	A	94	-18.906	-9.656	1.180	1.00	93.69	C
ATOM	725	C	GLU	A	94	-19.578	-10.656	2.111	1.00	93.69	C
ATOM	726	CB	GLU	A	94	-18.344	-10.383	-0.048	1.00	93.69	C
ATOM	727	O	GLU	A	94	-20.797	-10.812	2.084	1.00	93.69	O
ATOM	728	CG	GLU	A	94	-19.406	-11.000	-0.938	1.00	93.69	C
ATOM	729	CD	GLU	A	94	-18.844	-11.641	-2.197	1.00	93.69	C
ATOM	730	OE1	GLU	A	94	-19.625	-12.234	-2.975	1.00	93.69	O
ATOM	731	OE2	GLU	A	94	-17.609	-11.539	-2.408	1.00	93.69	O
ATOM	732	N	GLU	A	95	-18.781	-11.281	2.918	1.00	92.75	N
ATOM	733	CA	GLU	A	95	-19.312	-12.234	3.893	1.00	92.75	C
ATOM	734	C	GLU	A	95	-20.250	-11.547	4.883	1.00	92.75	C
ATOM	735	CB	GLU	A	95	-18.172	-12.930	4.641	1.00	92.75	C
ATOM	736	O	GLU	A	95	-21.156	-12.172	5.426	1.00	92.75	O
ATOM	737	CG	GLU	A	95	-17.359	-13.883	3.777	1.00	92.75	C
ATOM	738	CD	GLU	A	95	-16.188	-14.516	4.516	1.00	92.75	C
ATOM	739	OE1	GLU	A	95	-15.523	-15.406	3.945	1.00	92.75	O
ATOM	740	OE2	GLU	A	95	-15.938	-14.109	5.672	1.00	92.75	O
ATOM	741	N	LEU	A	96	-20.078	-10.227	5.031	1.00	90.12	N
ATOM	742	CA	LEU	A	96	-20.922	-9.453	5.926	1.00	90.12	C
ATOM	743	C	LEU	A	96	-22.125	-8.883	5.180	1.00	90.12	C
ATOM	744	CB	LEU	A	96	-20.125	-8.320	6.578	1.00	90.12	C
ATOM	745	O	LEU	A	96	-22.969	-8.211	5.773	1.00	90.12	O
ATOM	746	CG	LEU	A	96	-19.078	-8.734	7.605	1.00	90.12	C
ATOM	747	CD1	LEU	A	96	-18.281	-7.516	8.062	1.00	90.12	C
ATOM	748	CD2	LEU	A	96	-19.734	-9.430	8.789	1.00	90.12	C

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ATOM	749	N	GLY A 97	-22.109	-9.164	3.883	1.00	90.75	N
ATOM	750	CA	GLY A 97	-23.203	-8.672	3.051	1.00	90.75	C
ATOM	751	C	GLY A 97	-23.031	-7.223	2.639	1.00	90.75	C
ATOM	752	O	GLY A 97	-24.016	-6.543	2.338	1.00	90.75	O
ATOM	753	N	LEU A 98	-21.844	-6.641	2.744	1.00	90.94	N
ATOM	754	CA	LEU A 98	-21.547	-5.246	2.436	1.00	90.94	C
ATOM	755	C	LEU A 98	-20.969	-5.109	1.029	1.00	90.94	C
ATOM	756	CB	LEU A 98	-20.562	-4.664	3.459	1.00	90.94	C
ATOM	757	O	LEU A 98	-19.844	-4.641	0.858	1.00	90.94	O
ATOM	758	CG	LEU A 98	-21.047	-4.637	4.910	1.00	90.94	C
ATOM	759	CD1	LEU A 98	-19.906	-4.188	5.832	1.00	90.94	C
ATOM	760	CD2	LEU A 98	-22.250	-3.721	5.059	1.00	90.94	C
ATOM	761	N	THR A 99	-21.719	-5.375	0.039	1.00	91.56	N
ATOM	762	CA	THR A 99	-21.250	-5.363	-1.347	1.00	91.56	C
ATOM	763	C	THR A 99	-21.234	-3.941	-1.899	1.00	91.56	C
ATOM	764	CB	THR A 99	-22.141	-6.254	-2.236	1.00	91.56	C
ATOM	765	O	THR A 99	-20.578	-3.666	-2.902	1.00	91.56	O
ATOM	766	CG2	THR A 99	-22.031	-7.719	-1.831	1.00	91.56	C
ATOM	767	OG1	THR A 99	-23.500	-5.836	-2.107	1.00	91.56	O
ATOM	768	N	GLU A 100	-21.984	-3.031	-1.264	1.00	91.31	N
ATOM	769	CA	GLU A 100	-22.109	-1.644	-1.704	1.00	91.31	C
ATOM	770	C	GLU A 100	-20.781	-0.906	-1.555	1.00	91.31	C
ATOM	771	CB	GLU A 100	-23.203	-0.918	-0.920	1.00	91.31	C
ATOM	772	O	GLU A 100	-20.594	0.170	-2.127	1.00	91.31	O
ATOM	773	CG	GLU A 100	-24.594	-1.505	-1.121	1.00	91.31	C
ATOM	774	CD	GLU A 100	-25.047	-2.373	0.040	1.00	91.31	C
ATOM	775	OE1	GLU A 100	-25.969	-1.954	0.786	1.00	91.31	O
ATOM	776	OE2	GLU A 100	-24.484	-3.479	0.205	1.00	91.31	O
ATOM	777	N	VAL A 101	-19.812	-1.548	-0.809	1.00	93.81	N
ATOM	778	CA	VAL A 101	-18.531	-0.896	-0.497	1.00	93.81	C
ATOM	779	C	VAL A 101	-17.562	-1.091	-1.653	1.00	93.81	C
ATOM	780	CB	VAL A 101	-17.922	-1.439	0.814	1.00	93.81	C
ATOM	781	O	VAL A 101	-16.500	-0.464	-1.688	1.00	93.81	O
ATOM	782	CG1	VAL A 101	-18.797	-1.057	2.012	1.00	93.81	C
ATOM	783	CG2	VAL A 101	-17.766	-2.955	0.736	1.00	93.81	C
ATOM	784	N	GLU A 102	-17.875	-1.836	-2.625	1.00	94.94	N
ATOM	785	CA	GLU A 102	-16.984	-2.217	-3.713	1.00	94.94	C
ATOM	786	C	GLU A 102	-16.406	-0.989	-4.402	1.00	94.94	C
ATOM	787	CB	GLU A 102	-17.719	-3.092	-4.730	1.00	94.94	C
ATOM	788	O	GLU A 102	-15.195	-0.933	-4.664	1.00	94.94	O
ATOM	789	CG	GLU A 102	-17.969	-4.516	-4.258	1.00	94.94	C
ATOM	790	CD	GLU A 102	-16.688	-5.344	-4.164	1.00	94.94	C
ATOM	791	OE1	GLU A 102	-16.484	-6.031	-3.139	1.00	94.94	O
ATOM	792	OE2	GLU A 102	-15.891	-5.309	-5.129	1.00	94.94	O
ATOM	793	N	PRO A 103	-17.172	-0.006	-4.680	1.00	95.56	N
ATOM	794	CA	PRO A 103	-16.594	1.176	-5.324	1.00	95.56	C
ATOM	795	C	PRO A 103	-15.539	1.867	-4.461	1.00	95.56	C
ATOM	796	CB	PRO A 103	-17.797	2.086	-5.543	1.00	95.56	C
ATOM	797	O	PRO A 103	-14.562	2.412	-4.984	1.00	95.56	O
ATOM	798	CG	PRO A 103	-18.969	1.157	-5.594	1.00	95.56	C
ATOM	799	CD	PRO A 103	-18.688	-0.011	-4.691	1.00	95.56	C
ATOM	800	N	LEU A 104	-15.797	1.826	-3.094	1.00	95.62	N
ATOM	801	CA	LEU A 104	-14.828	2.432	-2.188	1.00	95.62	C

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ATOM	802	C	LEU A 104	-13.500	1.692	-2.242	1.00	95.62	C
ATOM	803	CB	LEU A 104	-15.367	2.436	-0.754	1.00	95.62	C
ATOM	804	O	LEU A 104	-12.438	2.318	-2.264	1.00	95.62	O
ATOM	805	CG	LEU A 104	-16.594	3.312	-0.489	1.00	95.62	C
ATOM	806	CD1	LEU A 104	-17.062	3.145	0.951	1.00	95.62	C
ATOM	807	CD2	LEU A 104	-16.266	4.773	-0.786	1.00	95.62	C
ATOM	808	N	LEU A 105	-13.586	0.362	-2.328	1.00	96.75	N
ATOM	809	CA	LEU A 105	-12.398	-0.478	-2.410	1.00	96.75	C
ATOM	810	C	LEU A 105	-11.641	-0.225	-3.711	1.00	96.75	C
ATOM	811	CB	LEU A 105	-12.781	-1.957	-2.305	1.00	96.75	C
ATOM	812	O	LEU A 105	-10.422	-0.066	-3.703	1.00	96.75	O
ATOM	813	CG	LEU A 105	-13.266	-2.436	-0.938	1.00	96.75	C
ATOM	814	CD1	LEU A 105	-13.836	-3.848	-1.043	1.00	96.75	C
ATOM	815	CD2	LEU A 105	-12.141	-2.381	0.086	1.00	96.75	C
ATOM	816	N	ASP A 106	-12.352	-0.134	-4.816	1.00	96.81	N
ATOM	817	CA	ASP A 106	-11.734	0.056	-6.129	1.00	96.81	C
ATOM	818	C	ASP A 106	-11.055	1.418	-6.219	1.00	96.81	C
ATOM	819	CB	ASP A 106	-12.781	-0.084	-7.238	1.00	96.81	C
ATOM	820	O	ASP A 106	-9.945	1.526	-6.746	1.00	96.81	O
ATOM	821	CG	ASP A 106	-13.273	-1.510	-7.410	1.00	96.81	C
ATOM	822	OD1	ASP A 106	-12.570	-2.455	-7.000	1.00	96.81	O
ATOM	823	OD2	ASP A 106	-14.383	-1.690	-7.969	1.00	96.81	O
ATOM	824	N	GLU A 107	-11.719	2.418	-5.691	1.00	97.06	N
ATOM	825	CA	GLU A 107	-11.156	3.766	-5.734	1.00	97.06	C
ATOM	826	C	GLU A 107	-9.891	3.865	-4.887	1.00	97.06	C
ATOM	827	CB	GLU A 107	-12.188	4.793	-5.262	1.00	97.06	C
ATOM	828	O	GLU A 107	-8.914	4.484	-5.301	1.00	97.06	O
ATOM	829	CG	GLU A 107	-13.328	5.016	-6.246	1.00	97.06	C
ATOM	830	CD	GLU A 107	-14.320	6.078	-5.789	1.00	97.06	C
ATOM	831	OE1	GLU A 107	-15.031	6.652	-6.641	1.00	97.06	O
ATOM	832	OE2	GLU A 107	-14.383	6.336	-4.566	1.00	97.06	O
ATOM	833	N	ALA A 108	-9.984	3.219	-3.703	1.00	97.12	N
ATOM	834	CA	ALA A 108	-8.828	3.230	-2.816	1.00	97.12	C
ATOM	835	C	ALA A 108	-7.641	2.512	-3.455	1.00	97.12	C
ATOM	836	CB	ALA A 108	-9.172	2.588	-1.476	1.00	97.12	C
ATOM	837	O	ALA A 108	-6.508	2.996	-3.396	1.00	97.12	O
ATOM	838	N	LEU A 109	-7.879	1.374	-4.043	1.00	97.94	N
ATOM	839	CA	LEU A 109	-6.848	0.585	-4.711	1.00	97.94	C
ATOM	840	C	LEU A 109	-6.234	1.363	-5.867	1.00	97.94	C
ATOM	841	CB	LEU A 109	-7.430	-0.736	-5.219	1.00	97.94	C
ATOM	842	O	LEU A 109	-5.008	1.436	-5.992	1.00	97.94	O
ATOM	843	CG	LEU A 109	-6.469	-1.650	-5.980	1.00	97.94	C
ATOM	844	CD1	LEU A 109	-5.277	-2.021	-5.102	1.00	97.94	C
ATOM	845	CD2	LEU A 109	-7.191	-2.902	-6.465	1.00	97.94	C
ATOM	846	N	LYS A 110	-7.105	1.921	-6.703	1.00	97.69	N
ATOM	847	CA	LYS A 110	-6.656	2.684	-7.863	1.00	97.69	C
ATOM	848	C	LYS A 110	-5.766	3.850	-7.441	1.00	97.69	C
ATOM	849	CB	LYS A 110	-7.852	3.201	-8.664	1.00	97.69	C
ATOM	850	O	LYS A 110	-4.691	4.055	-8.016	1.00	97.69	O
ATOM	851	CG	LYS A 110	-7.473	3.936	-9.938	1.00	97.69	C
ATOM	852	CD	LYS A 110	-8.703	4.438	-10.688	1.00	97.69	C
ATOM	853	CE	LYS A 110	-8.320	5.246	-11.914	1.00	97.69	C
ATOM	854	NZ	LYS A 110	-9.523	5.758	-12.641	1.00	97.69	N

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ATOM	855	N	GLU A 111	-6.215	4.602	-6.504	1.00	97.88	N
ATOM	856	CA	GLU A 111	-5.477	5.766	-6.027	1.00	97.88	C
ATOM	857	C	GLU A 111	-4.148	5.352	-5.395	1.00	97.88	C
ATOM	858	CB	GLU A 111	-6.312	6.562	-5.020	1.00	97.88	C
ATOM	859	O	GLU A 111	-3.119	5.988	-5.633	1.00	97.88	O
ATOM	860	CG	GLU A 111	-5.656	7.855	-4.562	1.00	97.88	C
ATOM	861	CD	GLU A 111	-6.543	8.688	-3.652	1.00	97.88	C
ATOM	862	OE1	GLU A 111	-6.074	9.727	-3.133	1.00	97.88	O
ATOM	863	OE2	GLU A 111	-7.715	8.297	-3.457	1.00	97.88	O
ATOM	864	N	THR A 112	-4.172	4.289	-4.574	1.00	97.88	N
ATOM	865	CA	THR A 112	-2.965	3.828	-3.896	1.00	97.88	C
ATOM	866	C	THR A 112	-1.915	3.377	-4.910	1.00	97.88	C
ATOM	867	CB	THR A 112	-3.275	2.674	-2.926	1.00	97.88	C
ATOM	868	O	THR A 112	-0.737	3.717	-4.781	1.00	97.88	O
ATOM	869	CG2	THR A 112	-2.025	2.240	-2.168	1.00	97.88	C
ATOM	870	OG1	THR A 112	-4.266	3.104	-1.984	1.00	97.88	O
ATOM	871	N	LYS A 113	-2.314	2.689	-5.977	1.00	97.56	N
ATOM	872	CA	LYS A 113	-1.411	2.232	-7.027	1.00	97.56	C
ATOM	873	C	LYS A 113	-0.718	3.408	-7.707	1.00	97.56	C
ATOM	874	CB	LYS A 113	-2.170	1.400	-8.062	1.00	97.56	C
ATOM	875	O	LYS A 113	0.497	3.385	-7.914	1.00	97.56	O
ATOM	876	CG	LYS A 113	-2.529	-0.000	-7.586	1.00	97.56	C
ATOM	877	CD	LYS A 113	-3.195	-0.811	-8.695	1.00	97.56	C
ATOM	878	CE	LYS A 113	-3.443	-2.250	-8.258	1.00	97.56	C
ATOM	879	NZ	LYS A 113	-4.133	-3.037	-9.320	1.00	97.56	N
ATOM	880	N	ALA A 114	-1.520	4.363	-8.039	1.00	96.44	N
ATOM	881	CA	ALA A 114	-0.981	5.531	-8.734	1.00	96.44	C
ATOM	882	C	ALA A 114	0.046	6.254	-7.867	1.00	96.44	C
ATOM	883	CB	ALA A 114	-2.109	6.484	-9.125	1.00	96.44	C
ATOM	884	O	ALA A 114	1.122	6.621	-8.344	1.00	96.44	O
ATOM	885	N	LYS A 115	-0.213	6.352	-6.566	1.00	97.25	N
ATOM	886	CA	LYS A 115	0.662	7.082	-5.656	1.00	97.25	C
ATOM	887	C	LYS A 115	1.933	6.293	-5.359	1.00	97.25	C
ATOM	888	CB	LYS A 115	-0.070	7.406	-4.352	1.00	97.25	C
ATOM	889	O	LYS A 115	3.014	6.871	-5.223	1.00	97.25	O
ATOM	890	CG	LYS A 115	-1.149	8.469	-4.496	1.00	97.25	C
ATOM	891	CD	LYS A 115	-1.763	8.828	-3.148	1.00	97.25	C
ATOM	892	CE	LYS A 115	-2.771	9.961	-3.277	1.00	97.25	C
ATOM	893	NZ	LYS A 115	-3.338	10.352	-1.951	1.00	97.25	N
ATOM	894	N	VAL A 116	1.805	4.977	-5.262	1.00	95.88	N
ATOM	895	CA	VAL A 116	2.959	4.121	-5.016	1.00	95.88	C
ATOM	896	C	VAL A 116	3.926	4.203	-6.195	1.00	95.88	C
ATOM	897	CB	VAL A 116	2.537	2.654	-4.773	1.00	95.88	C
ATOM	898	O	VAL A 116	5.141	4.297	-6.008	1.00	95.88	O
ATOM	899	CG1	VAL A 116	3.742	1.723	-4.879	1.00	95.88	C
ATOM	900	CG2	VAL A 116	1.865	2.514	-3.408	1.00	95.88	C
ATOM	901	N	LYS A 117	3.348	4.188	-7.355	1.00	94.88	N
ATOM	902	CA	LYS A 117	4.168	4.301	-8.555	1.00	94.88	C
ATOM	903	C	LYS A 117	4.977	5.598	-8.547	1.00	94.88	C
ATOM	904	CB	LYS A 117	3.299	4.234	-9.812	1.00	94.88	C
ATOM	905	O	LYS A 117	6.180	5.586	-8.812	1.00	94.88	O
ATOM	906	CG	LYS A 117	4.090	4.160	-11.109	1.00	94.88	C
ATOM	907	CD	LYS A 117	3.174	3.996	-12.312	1.00	94.88	C

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ATOM	908	CE	LYS	A	117	3.963	3.945	-13.617	1.00	94.88	C
ATOM	909	NZ	LYS	A	117	3.066	3.789	-14.797	1.00	94.88	N
ATOM	910	N	LYS	A	118	4.367	6.645	-8.250	1.00	94.12	N
ATOM	911	CA	LYS	A	118	5.027	7.945	-8.203	1.00	94.12	C
ATOM	912	C	LYS	A	118	6.082	7.992	-7.102	1.00	94.12	C
ATOM	913	CB	LYS	A	118	4.000	9.062	-8.000	1.00	94.12	C
ATOM	914	O	LYS	A	118	7.176	8.523	-7.305	1.00	94.12	O
ATOM	915	CG	LYS	A	118	3.135	9.336	-9.219	1.00	94.12	C
ATOM	916	CD	LYS	A	118	2.180	10.500	-8.977	1.00	94.12	C
ATOM	917	CE	LYS	A	118	1.274	10.742	-10.180	1.00	94.12	C
ATOM	918	NZ	LYS	A	118	0.290	11.828	-9.914	1.00	94.12	N
ATOM	919	N	ALA	A	119	5.754	7.375	-6.012	1.00	94.38	N
ATOM	920	CA	ALA	A	119	6.648	7.410	-4.855	1.00	94.38	C
ATOM	921	C	ALA	A	119	7.910	6.594	-5.109	1.00	94.38	C
ATOM	922	CB	ALA	A	119	5.926	6.895	-3.611	1.00	94.38	C
ATOM	923	O	ALA	A	119	9.016	7.027	-4.781	1.00	94.38	O
ATOM	924	N	LEU	A	120	7.816	5.457	-5.703	1.00	92.50	N
ATOM	925	CA	LEU	A	120	8.969	4.598	-5.973	1.00	92.50	C
ATOM	926	C	LEU	A	120	9.867	5.215	-7.035	1.00	92.50	C
ATOM	927	CB	LEU	A	120	8.500	3.209	-6.422	1.00	92.50	C
ATOM	928	O	LEU	A	120	11.086	5.051	-6.988	1.00	92.50	O
ATOM	929	CG	LEU	A	120	8.062	2.246	-5.316	1.00	92.50	C
ATOM	930	CD1	LEU	A	120	7.383	1.022	-5.918	1.00	92.50	C
ATOM	931	CD2	LEU	A	120	9.258	1.835	-4.465	1.00	92.50	C
ATOM	932	N	ALA	A	121	9.227	5.945	-7.930	1.00	89.75	N
ATOM	933	CA	ALA	A	121	9.992	6.609	-8.977	1.00	89.75	C
ATOM	934	C	ALA	A	121	10.844	7.738	-8.406	1.00	89.75	C
ATOM	935	CB	ALA	A	121	9.062	7.145	-10.062	1.00	89.75	C
ATOM	936	O	ALA	A	121	11.898	8.078	-8.961	1.00	89.75	O
ATOM	937	N	SER	A	122	10.422	8.305	-7.336	1.00	90.19	N
ATOM	938	CA	SER	A	122	11.141	9.422	-6.742	1.00	90.19	C
ATOM	939	C	SER	A	122	12.445	8.969	-6.102	1.00	90.19	C
ATOM	940	CB	SER	A	122	10.266	10.125	-5.695	1.00	90.19	C
ATOM	941	O	SER	A	122	13.375	9.766	-5.938	1.00	90.19	O
ATOM	942	OG	SER	A	122	10.141	9.328	-4.531	1.00	90.19	O
ATOM	943	N	GLY	A	123	12.523	7.633	-5.762	1.00	88.25	N
ATOM	944	CA	GLY	A	123	13.734	7.074	-5.172	1.00	88.25	C
ATOM	945	C	GLY	A	123	13.984	7.562	-3.756	1.00	88.25	C
ATOM	946	O	GLY	A	123	15.109	7.500	-3.264	1.00	88.25	O
ATOM	947	N	LYS	A	124	12.906	8.148	-3.094	1.00	91.25	N
ATOM	948	CA	LYS	A	124	13.016	8.680	-1.738	1.00	91.25	C
ATOM	949	C	LYS	A	124	12.062	7.961	-0.786	1.00	91.25	C
ATOM	950	CB	LYS	A	124	12.727	10.180	-1.727	1.00	91.25	C
ATOM	951	O	LYS	A	124	11.086	7.348	-1.221	1.00	91.25	O
ATOM	952	CG	LYS	A	124	13.680	11.000	-2.582	1.00	91.25	C
ATOM	953	CD	LYS	A	124	13.344	12.484	-2.539	1.00	91.25	C
ATOM	954	CE	LYS	A	124	14.273	13.297	-3.426	1.00	91.25	C
ATOM	955	NZ	LYS	A	124	13.906	14.750	-3.428	1.00	91.25	N
ATOM	956	N	ASP	A	125	12.438	8.062	0.467	1.00	94.62	N
ATOM	957	CA	ASP	A	125	11.492	7.586	1.474	1.00	94.62	C
ATOM	958	C	ASP	A	125	10.148	8.305	1.346	1.00	94.62	C
ATOM	959	CB	ASP	A	125	12.062	7.785	2.879	1.00	94.62	C
ATOM	960	O	ASP	A	125	10.102	9.508	1.090	1.00	94.62	O

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ATOM	961	CG	ASP A 125	13.281	6.926	3.150	1.00	94.62	C
ATOM	962	OD1	ASP A 125	13.633	6.070	2.305	1.00	94.62	O
ATOM	963	OD2	ASP A 125	13.906	7.102	4.219	1.00	94.62	O
ATOM	964	N	SER A 126	9.094	7.586	1.566	1.00	96.75	N
ATOM	965	CA	SER A 126	7.773	8.203	1.462	1.00	96.75	C
ATOM	966	C	SER A 126	6.730	7.414	2.246	1.00	96.75	C
ATOM	967	CB	SER A 126	7.348	8.312	-0.003	1.00	96.75	C
ATOM	968	O	SER A 126	6.922	6.227	2.521	1.00	96.75	O
ATOM	969	OG	SER A 126	8.305	9.039	-0.752	1.00	96.75	O
ATOM	970	N	THR A 127	5.684	8.188	2.691	1.00	97.19	N
ATOM	971	CA	THR A 127	4.504	7.582	3.301	1.00	97.19	C
ATOM	972	C	THR A 127	3.238	7.996	2.557	1.00	97.19	C
ATOM	973	CB	THR A 127	4.383	7.973	4.785	1.00	97.19	C
ATOM	974	O	THR A 127	2.996	9.188	2.344	1.00	97.19	O
ATOM	975	CG2	THR A 127	3.166	7.316	5.430	1.00	97.19	C
ATOM	976	OG1	THR A 127	5.562	7.555	5.484	1.00	97.19	O
ATOM	977	N	ILE A 128	2.512	7.000	2.164	1.00	97.06	N
ATOM	978	CA	ILE A 128	1.259	7.215	1.448	1.00	97.06	C
ATOM	979	C	ILE A 128	0.088	6.730	2.299	1.00	97.06	C
ATOM	980	CB	ILE A 128	1.260	6.504	0.078	1.00	97.06	C
ATOM	981	O	ILE A 128	0.107	5.605	2.807	1.00	97.06	O
ATOM	982	CG1	ILE A 128	2.441	6.984	-0.773	1.00	97.06	C
ATOM	983	CG2	ILE A 128	-0.068	6.730	-0.650	1.00	97.06	C
ATOM	984	CD1	ILE A 128	2.885	5.988	-1.835	1.00	97.06	C
ATOM	985	N	THR A 129	-0.872	7.660	2.449	1.00	97.88	N
ATOM	986	CA	THR A 129	-2.084	7.262	3.156	1.00	97.88	C
ATOM	987	C	THR A 129	-3.324	7.570	2.322	1.00	97.88	C
ATOM	988	CB	THR A 129	-2.191	7.969	4.523	1.00	97.88	C
ATOM	989	O	THR A 129	-3.502	8.703	1.862	1.00	97.88	O
ATOM	990	CG2	THR A 129	-3.428	7.504	5.285	1.00	97.88	C
ATOM	991	OG1	THR A 129	-1.024	7.672	5.301	1.00	97.88	O
ATOM	992	N	VAL A 130	-4.102	6.562	2.105	1.00	98.12	N
ATOM	993	CA	VAL A 130	-5.367	6.730	1.400	1.00	98.12	C
ATOM	994	C	VAL A 130	-6.520	6.262	2.287	1.00	98.12	C
ATOM	995	CB	VAL A 130	-5.379	5.957	0.062	1.00	98.12	C
ATOM	996	O	VAL A 130	-6.496	5.141	2.805	1.00	98.12	O
ATOM	997	CG1	VAL A 130	-6.750	6.055	-0.605	1.00	98.12	C
ATOM	998	CG2	VAL A 130	-4.289	6.492	-0.868	1.00	98.12	C
ATOM	999	N	THR A 131	-7.492	7.191	2.455	1.00	97.88	N
ATOM	1000	CA	THR A 131	-8.656	6.859	3.264	1.00	97.88	C
ATOM	1001	C	THR A 131	-9.945	7.078	2.475	1.00	97.88	C
ATOM	1002	CB	THR A 131	-8.695	7.691	4.559	1.00	97.88	C
ATOM	1003	O	THR A 131	-10.133	8.125	1.857	1.00	97.88	O
ATOM	1004	CG2	THR A 131	-9.898	7.312	5.422	1.00	97.88	C
ATOM	1005	OG1	THR A 131	-7.496	7.469	5.301	1.00	97.88	O
ATOM	1006	N	ARG A 132	-10.828	6.043	2.502	1.00	97.56	N
ATOM	1007	CA	ARG A 132	-12.156	6.137	1.907	1.00	97.56	C
ATOM	1008	C	ARG A 132	-13.234	5.781	2.922	1.00	97.56	C
ATOM	1009	CB	ARG A 132	-12.266	5.223	0.685	1.00	97.56	C
ATOM	1010	O	ARG A 132	-13.094	4.816	3.676	1.00	97.56	O
ATOM	1011	CG	ARG A 132	-11.344	5.613	-0.461	1.00	97.56	C
ATOM	1012	CD	ARG A 132	-11.773	6.926	-1.104	1.00	97.56	C
ATOM	1013	NE	ARG A 132	-10.922	7.273	-2.240	1.00	97.56	N

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ATOM	1014	NH1 ARG A 132	-11.383	9.539	-2.158	1.00	97.56	N
ATOM	1015	NH2 ARG A 132	-9.961	8.703	-3.754	1.00	97.56	N
ATOM	1016	CZ ARG A 132	-10.758	8.508	-2.715	1.00	97.56	C
ATOM	1017	N GLU A 133	-14.211	6.594	2.885	1.00	96.75	N
ATOM	1018	CA GLU A 133	-15.297	6.348	3.822	1.00	96.75	C
ATOM	1019	C GLU A 133	-16.641	6.309	3.104	1.00	96.75	C
ATOM	1020	CB GLU A 133	-15.320	7.414	4.918	1.00	96.75	C
ATOM	1021	O GLU A 133	-16.844	6.996	2.096	1.00	96.75	O
ATOM	1022	CG GLU A 133	-14.016	7.516	5.703	1.00	96.75	C
ATOM	1023	CD GLU A 133	-14.008	8.656	6.707	1.00	96.75	C
ATOM	1024	OE1 GLU A 133	-13.227	8.602	7.680	1.00	96.75	O
ATOM	1025	OE2 GLU A 133	-14.797	9.617	6.516	1.00	96.75	O
ATOM	1026	N GLY A 134	-17.547	5.465	3.656	1.00	95.31	N
ATOM	1027	CA GLY A 134	-18.891	5.398	3.107	1.00	95.31	C
ATOM	1028	C GLY A 134	-19.953	5.039	4.141	1.00	95.31	C
ATOM	1029	O GLY A 134	-19.641	4.391	5.145	1.00	95.31	O
ATOM	1030	N ARG A 135	-21.094	5.613	3.873	1.00	95.31	N
ATOM	1031	CA ARG A 135	-22.250	5.281	4.691	1.00	95.31	C
ATOM	1032	C ARG A 135	-23.359	4.672	3.842	1.00	95.31	C
ATOM	1033	CB ARG A 135	-22.766	6.523	5.418	1.00	95.31	C
ATOM	1034	O ARG A 135	-23.656	5.156	2.746	1.00	95.31	O
ATOM	1035	CG ARG A 135	-21.781	7.113	6.414	1.00	95.31	C
ATOM	1036	CD ARG A 135	-22.344	8.344	7.109	1.00	95.31	C
ATOM	1037	NE ARG A 135	-21.406	8.906	8.062	1.00	95.31	N
ATOM	1038	NH1 ARG A 135	-22.625	10.820	8.461	1.00	95.31	N
ATOM	1039	NH2 ARG A 135	-20.625	10.492	9.531	1.00	95.31	N
ATOM	1040	CZ ARG A 135	-21.562	10.070	8.688	1.00	95.31	C
ATOM	1041	N PHE A 136	-23.906	3.605	4.445	1.00	91.81	N
ATOM	1042	CA PHE A 136	-24.938	2.910	3.699	1.00	91.81	C
ATOM	1043	C PHE A 136	-26.156	2.637	4.582	1.00	91.81	C
ATOM	1044	CB PHE A 136	-24.406	1.596	3.121	1.00	91.81	C
ATOM	1045	O PHE A 136	-26.016	2.447	5.793	1.00	91.81	O
ATOM	1046	CG PHE A 136	-23.094	1.741	2.400	1.00	91.81	C
ATOM	1047	CD1 PHE A 136	-23.062	2.088	1.056	1.00	91.81	C
ATOM	1048	CD2 PHE A 136	-21.891	1.531	3.068	1.00	91.81	C
ATOM	1049	CE1 PHE A 136	-21.844	2.223	0.386	1.00	91.81	C
ATOM	1050	CE2 PHE A 136	-20.672	1.664	2.406	1.00	91.81	C
ATOM	1051	CZ PHE A 136	-20.656	2.010	1.064	1.00	91.81	C
ATOM	1052	N GLU A 137	-27.328	2.721	3.934	1.00	90.44	N
ATOM	1053	CA GLU A 137	-28.562	2.402	4.660	1.00	90.44	C
ATOM	1054	C GLU A 137	-29.062	1.003	4.312	1.00	90.44	C
ATOM	1055	CB GLU A 137	-29.641	3.438	4.355	1.00	90.44	C
ATOM	1056	O GLU A 137	-29.172	0.651	3.139	1.00	90.44	O
ATOM	1057	CG GLU A 137	-29.344	4.828	4.898	1.00	90.44	C
ATOM	1058	CD GLU A 137	-30.578	5.680	5.094	1.00	90.44	C
ATOM	1059	OE1 GLU A 137	-30.672	6.391	6.121	1.00	90.44	O
ATOM	1060	OE2 GLU A 137	-31.469	5.637	4.215	1.00	90.44	O
ATOM	1061	N ARG A 138	-29.203	0.174	5.395	1.00	86.44	N
ATOM	1062	CA ARG A 138	-29.891	-1.113	5.277	1.00	86.44	C
ATOM	1063	C ARG A 138	-31.156	-1.141	6.125	1.00	86.44	C
ATOM	1064	CB ARG A 138	-28.953	-2.252	5.695	1.00	86.44	C
ATOM	1065	O ARG A 138	-31.297	-0.351	7.062	1.00	86.44	O
ATOM	1066	CG ARG A 138	-27.781	-2.465	4.750	1.00	86.44	C

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ATOM	1067	CD	ARG A 138	-26.984	-3.715	5.109	1.00	86.44	C
ATOM	1068	NE	ARG A 138	-25.891	-3.943	4.172	1.00	86.44	N
ATOM	1069	NH1	ARG A 138	-25.047	-5.781	5.289	1.00	86.44	N
ATOM	1070	NH2	ARG A 138	-24.031	-5.035	3.373	1.00	86.44	N
ATOM	1071	CZ	ARG A 138	-25.000	-4.918	4.281	1.00	86.44	C
ATOM	1072	N	PRO A 139	-32.188	-1.955	5.652	1.00	84.94	N
ATOM	1073	CA	PRO A 139	-33.375	-2.010	6.531	1.00	84.94	C
ATOM	1074	C	PRO A 139	-33.000	-2.264	7.992	1.00	84.94	C
ATOM	1075	CB	PRO A 139	-34.188	-3.178	5.969	1.00	84.94	C
ATOM	1076	O	PRO A 139	-32.375	-3.277	8.305	1.00	84.94	O
ATOM	1077	CG	PRO A 139	-33.719	-3.299	4.547	1.00	84.94	C
ATOM	1078	CD	PRO A 139	-32.281	-2.867	4.457	1.00	84.94	C
ATOM	1079	N	GLY A 140	-33.250	-1.290	8.812	1.00	88.62	N
ATOM	1080	CA	GLY A 140	-33.125	-1.436	10.258	1.00	88.62	C
ATOM	1081	C	GLY A 140	-31.734	-1.068	10.758	1.00	88.62	C
ATOM	1082	O	GLY A 140	-31.516	-0.989	11.969	1.00	88.62	O
ATOM	1083	N	GLU A 141	-30.734	-0.819	9.766	1.00	90.44	N
ATOM	1084	CA	GLU A 141	-29.359	-0.565	10.188	1.00	90.44	C
ATOM	1085	C	GLU A 141	-28.719	0.547	9.367	1.00	90.44	C
ATOM	1086	CB	GLU A 141	-28.516	-1.842	10.094	1.00	90.44	C
ATOM	1087	O	GLU A 141	-29.078	0.744	8.203	1.00	90.44	O
ATOM	1088	CG	GLU A 141	-29.078	-3.008	10.898	1.00	90.44	C
ATOM	1089	CD	GLU A 141	-28.328	-4.309	10.664	1.00	90.44	C
ATOM	1090	OE1	GLU A 141	-28.422	-5.227	11.516	1.00	90.44	O
ATOM	1091	OE2	GLU A 141	-27.641	-4.414	9.625	1.00	90.44	O
ATOM	1092	N	GLU A 142	-27.859	1.319	9.977	1.00	92.75	N
ATOM	1093	CA	GLU A 142	-26.922	2.207	9.305	1.00	92.75	C
ATOM	1094	C	GLU A 142	-25.500	1.633	9.344	1.00	92.75	C
ATOM	1095	CB	GLU A 142	-26.938	3.596	9.953	1.00	92.75	C
ATOM	1096	O	GLU A 142	-25.016	1.249	10.406	1.00	92.75	O
ATOM	1097	CG	GLU A 142	-26.125	4.637	9.188	1.00	92.75	C
ATOM	1098	CD	GLU A 142	-26.219	6.027	9.797	1.00	92.75	C
ATOM	1099	OE1	GLU A 142	-25.344	6.379	10.633	1.00	92.75	O
ATOM	1100	OE2	GLU A 142	-27.156	6.773	9.445	1.00	92.75	O
ATOM	1101	N	VAL A 143	-24.906	1.590	8.211	1.00	93.75	N
ATOM	1102	CA	VAL A 143	-23.562	0.996	8.133	1.00	93.75	C
ATOM	1103	C	VAL A 143	-22.562	2.057	7.707	1.00	93.75	C
ATOM	1104	CB	VAL A 143	-23.547	-0.192	7.141	1.00	93.75	C
ATOM	1105	O	VAL A 143	-22.766	2.771	6.723	1.00	93.75	O
ATOM	1106	CG1	VAL A 143	-22.156	-0.828	7.102	1.00	93.75	C
ATOM	1107	CG2	VAL A 143	-24.594	-1.229	7.523	1.00	93.75	C
ATOM	1108	N	GLU A 144	-21.531	2.182	8.461	1.00	95.62	N
ATOM	1109	CA	GLU A 144	-20.391	3.049	8.141	1.00	95.62	C
ATOM	1110	C	GLU A 144	-19.125	2.238	7.898	1.00	95.62	C
ATOM	1111	CB	GLU A 144	-20.172	4.070	9.250	1.00	95.62	C
ATOM	1112	O	GLU A 144	-18.781	1.370	8.703	1.00	95.62	O
ATOM	1113	CG	GLU A 144	-19.109	5.117	8.922	1.00	95.62	C
ATOM	1114	CD	GLU A 144	-18.906	6.141	10.031	1.00	95.62	C
ATOM	1115	OE1	GLU A 144	-17.750	6.492	10.328	1.00	95.62	O
ATOM	1116	OE2	GLU A 144	-19.922	6.594	10.602	1.00	95.62	O
ATOM	1117	N	VAL A 145	-18.516	2.488	6.805	1.00	95.81	N
ATOM	1118	CA	VAL A 145	-17.297	1.756	6.469	1.00	95.81	C
ATOM	1119	C	VAL A 145	-16.156	2.738	6.223	1.00	95.81	C

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ATOM	1120	CB VAL A 145	-17.500	0.856	5.230	1.00	95.81	C
ATOM	1121	O VAL A 145	-16.328	3.754	5.547	1.00	95.81	O
ATOM	1122	CG1 VAL A 145	-16.219	0.108	4.887	1.00	95.81	C
ATOM	1123	CG2 VAL A 145	-18.641	-0.126	5.469	1.00	95.81	C
ATOM	1124	N THR A 146	-15.008	2.498	6.832	1.00	97.31	N
ATOM	1125	CA THR A 146	-13.781	3.252	6.605	1.00	97.31	C
ATOM	1126	C THR A 146	-12.656	2.332	6.129	1.00	97.31	C
ATOM	1127	CB THR A 146	-13.336	3.990	7.883	1.00	97.31	C
ATOM	1128	O THR A 146	-12.336	1.340	6.793	1.00	97.31	O
ATOM	1129	CG2 THR A 146	-12.094	4.844	7.621	1.00	97.31	C
ATOM	1130	OG1 THR A 146	-14.398	4.836	8.328	1.00	97.31	O
ATOM	1131	N ILE A 147	-12.117	2.619	4.992	1.00	97.31	N
ATOM	1132	CA ILE A 147	-10.992	1.870	4.445	1.00	97.31	C
ATOM	1133	C ILE A 147	-9.727	2.730	4.488	1.00	97.31	C
ATOM	1134	CB ILE A 147	-11.273	1.400	3.002	1.00	97.31	C
ATOM	1135	O ILE A 147	-9.719	3.852	3.975	1.00	97.31	O
ATOM	1136	CG1 ILE A 147	-12.547	0.551	2.953	1.00	97.31	C
ATOM	1137	CG2 ILE A 147	-10.070	0.625	2.443	1.00	97.31	C
ATOM	1138	CD1 ILE A 147	-13.062	0.289	1.546	1.00	97.31	C
ATOM	1139	N THR A 148	-8.734	2.240	5.164	1.00	97.75	N
ATOM	1140	CA THR A 148	-7.473	2.965	5.250	1.00	97.75	C
ATOM	1141	C THR A 148	-6.328	2.129	4.688	1.00	97.75	C
ATOM	1142	CB THR A 148	-7.156	3.359	6.707	1.00	97.75	C
ATOM	1143	O THR A 148	-6.148	0.972	5.074	1.00	97.75	O
ATOM	1144	CG2 THR A 148	-5.883	4.191	6.785	1.00	97.75	C
ATOM	1145	OG1 THR A 148	-8.250	4.125	7.234	1.00	97.75	O
ATOM	1146	N VAL A 149	-5.594	2.732	3.729	1.00	98.19	N
ATOM	1147	CA VAL A 149	-4.402	2.102	3.176	1.00	98.19	C
ATOM	1148	C VAL A 149	-3.176	2.961	3.475	1.00	98.19	C
ATOM	1149	CB VAL A 149	-4.535	1.875	1.652	1.00	98.19	C
ATOM	1150	O VAL A 149	-3.158	4.156	3.170	1.00	98.19	O
ATOM	1151	CG1 VAL A 149	-3.352	1.066	1.122	1.00	98.19	C
ATOM	1152	CG2 VAL A 149	-5.852	1.174	1.331	1.00	98.19	C
ATOM	1153	N THR A 150	-2.217	2.334	4.133	1.00	98.06	N
ATOM	1154	CA THR A 150	-0.954	3.016	4.398	1.00	98.06	C
ATOM	1155	C THR A 150	0.212	2.258	3.768	1.00	98.06	C
ATOM	1156	CB THR A 150	-0.710	3.174	5.910	1.00	98.06	C
ATOM	1157	O THR A 150	0.367	1.054	3.986	1.00	98.06	O
ATOM	1158	CG2 THR A 150	0.567	3.963	6.180	1.00	98.06	C
ATOM	1159	OG1 THR A 150	-1.819	3.865	6.496	1.00	98.06	O
ATOM	1160	N VAL A 151	0.957	2.963	2.953	1.00	98.12	N
ATOM	1161	CA VAL A 151	2.168	2.408	2.359	1.00	98.12	C
ATOM	1162	C VAL A 151	3.379	3.240	2.781	1.00	98.12	C
ATOM	1163	CB VAL A 151	2.070	2.354	0.818	1.00	98.12	C
ATOM	1164	O VAL A 151	3.443	4.441	2.502	1.00	98.12	O
ATOM	1165	CG1 VAL A 151	3.330	1.728	0.220	1.00	98.12	C
ATOM	1166	CG2 VAL A 151	0.828	1.575	0.390	1.00	98.12	C
ATOM	1167	N LYS A 152	4.242	2.553	3.436	1.00	98.06	N
ATOM	1168	CA LYS A 152	5.484	3.205	3.828	1.00	98.06	C
ATOM	1169	C LYS A 152	6.668	2.660	3.033	1.00	98.06	C
ATOM	1170	CB LYS A 152	5.734	3.029	5.328	1.00	98.06	C
ATOM	1171	O LYS A 152	6.934	1.455	3.053	1.00	98.06	O
ATOM	1172	CG LYS A 152	6.875	3.877	5.867	1.00	98.06	C

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ATOM	1173	CD	LYS A 152	7.023	3.719	7.375	1.00	98.06	C
ATOM	1174	CE	LYS A 152	8.195	4.527	7.910	1.00	98.06	C
ATOM	1175	NZ	LYS A 152	8.344	4.379	9.391	1.00	98.06	N
ATOM	1176	N	ILE A 153	7.301	3.564	2.301	1.00	97.06	N
ATOM	1177	CA	ILE A 153	8.523	3.240	1.575	1.00	97.06	C
ATOM	1178	C	ILE A 153	9.734	3.756	2.350	1.00	97.06	C
ATOM	1179	CB	ILE A 153	8.508	3.832	0.148	1.00	97.06	C
ATOM	1180	O	ILE A 153	9.867	4.961	2.586	1.00	97.06	O
ATOM	1181	CG1	ILE A 153	7.270	3.354	-0.616	1.00	97.06	C
ATOM	1182	CG2	ILE A 153	9.789	3.463	-0.604	1.00	97.06	C
ATOM	1183	CD1	ILE A 153	7.004	4.117	-1.906	1.00	97.06	C
ATOM	1184	N	SER A 154	10.594	2.838	2.768	1.00	95.44	N
ATOM	1185	CA	SER A 154	11.703	3.238	3.623	1.00	95.44	C
ATOM	1186	C	SER A 154	13.000	2.537	3.217	1.00	95.44	C
ATOM	1187	CB	SER A 154	11.391	2.934	5.090	1.00	95.44	C
ATOM	1188	O	SER A 154	12.984	1.634	2.377	1.00	95.44	O
ATOM	1189	OG	SER A 154	11.094	1.559	5.266	1.00	95.44	O
ATOM	1190	N	ASN A 155	14.070	3.057	3.705	1.00	88.88	N
ATOM	1191	CA	ASN A 155	15.414	2.508	3.549	1.00	88.88	C
ATOM	1192	C	ASN A 155	15.828	2.443	2.080	1.00	88.88	C
ATOM	1193	CB	ASN A 155	15.508	1.121	4.188	1.00	88.88	C
ATOM	1194	O	ASN A 155	16.375	1.436	1.628	1.00	88.88	O
ATOM	1195	CG	ASN A 155	15.398	1.166	5.699	1.00	88.88	C
ATOM	1196	ND2	ASN A 155	14.875	0.097	6.285	1.00	88.88	N
ATOM	1197	OD1	ASN A 155	15.781	2.154	6.332	1.00	88.88	O
ATOM	1198	N	VAL A 156	15.398	3.510	1.363	1.00	88.62	N
ATOM	1199	CA	VAL A 156	15.852	3.574	-0.021	1.00	88.62	C
ATOM	1200	C	VAL A 156	17.328	3.955	-0.060	1.00	88.62	C
ATOM	1201	CB	VAL A 156	15.023	4.582	-0.847	1.00	88.62	C
ATOM	1202	O	VAL A 156	17.688	5.102	0.220	1.00	88.62	O
ATOM	1203	CG1	VAL A 156	15.461	4.570	-2.311	1.00	88.62	C
ATOM	1204	CG2	VAL A 156	13.531	4.262	-0.729	1.00	88.62	C
ATOM	1205	N	LYS A 157	18.203	2.951	-0.184	1.00	90.69	N
ATOM	1206	CA	LYS A 157	19.656	3.168	-0.219	1.00	90.69	C
ATOM	1207	C	LYS A 157	20.266	2.590	-1.490	1.00	90.69	C
ATOM	1208	CB	LYS A 157	20.312	2.551	1.013	1.00	90.69	C
ATOM	1209	O	LYS A 157	19.875	1.509	-1.938	1.00	90.69	O
ATOM	1210	CG	LYS A 157	19.891	3.182	2.330	1.00	90.69	C
ATOM	1211	CD	LYS A 157	20.578	2.527	3.516	1.00	90.69	C
ATOM	1212	CE	LYS A 157	20.109	3.119	4.836	1.00	90.69	C
ATOM	1213	NZ	LYS A 157	20.797	2.479	6.004	1.00	90.69	N
ATOM	1214	N	THR A 158	21.094	3.354	-2.035	1.00	91.00	N
ATOM	1215	CA	THR A 158	21.844	2.873	-3.193	1.00	91.00	C
ATOM	1216	C	THR A 158	23.312	2.678	-2.846	1.00	91.00	C
ATOM	1217	CB	THR A 158	21.719	3.844	-4.383	1.00	91.00	C
ATOM	1218	O	THR A 158	23.953	3.576	-2.289	1.00	91.00	O
ATOM	1219	CG2	THR A 158	22.453	3.312	-5.605	1.00	91.00	C
ATOM	1220	OG1	THR A 158	20.344	4.012	-4.711	1.00	91.00	O
ATOM	1221	N	GLU A 159	23.797	1.509	-3.031	1.00	93.88	N
ATOM	1222	CA	GLU A 159	25.203	1.179	-2.781	1.00	93.88	C
ATOM	1223	C	GLU A 159	25.875	0.682	-4.051	1.00	93.88	C
ATOM	1224	CB	GLU A 159	25.312	0.127	-1.676	1.00	93.88	C
ATOM	1225	O	GLU A 159	25.281	-0.061	-4.836	1.00	93.88	O

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ATOM	1226	CG	GLU A 159	24.703	0.562	-0.348	1.00	93.88	C
ATOM	1227	CD	GLU A 159	24.688	-0.545	0.694	1.00	93.88	C
ATOM	1228	OE1	GLU A 159	25.016	-0.275	1.873	1.00	93.88	O
ATOM	1229	OE2	GLU A 159	24.359	-1.693	0.328	1.00	93.88	O
ATOM	1230	N	THR A 160	27.078	1.151	-4.262	1.00	93.12	N
ATOM	1231	CA	THR A 160	27.844	0.708	-5.410	1.00	93.12	C
ATOM	1232	C	THR A 160	29.125	-0.008	-4.961	1.00	93.12	C
ATOM	1233	CB	THR A 160	28.219	1.891	-6.324	1.00	93.12	C
ATOM	1234	O	THR A 160	29.828	0.471	-4.070	1.00	93.12	O
ATOM	1235	CG2	THR A 160	28.984	1.417	-7.551	1.00	93.12	C
ATOM	1236	OG1	THR A 160	27.016	2.551	-6.750	1.00	93.12	O
ATOM	1237	N	GLU A 161	29.250	-1.160	-5.445	1.00	92.69	N
ATOM	1238	CA	GLU A 161	30.438	-1.953	-5.129	1.00	92.69	C
ATOM	1239	C	GLU A 161	31.203	-2.330	-6.395	1.00	92.69	C
ATOM	1240	CB	GLU A 161	30.047	-3.215	-4.352	1.00	92.69	C
ATOM	1241	O	GLU A 161	30.594	-2.650	-7.418	1.00	92.69	O
ATOM	1242	CG	GLU A 161	29.406	-2.934	-3.002	1.00	92.69	C
ATOM	1243	CD	GLU A 161	28.953	-4.191	-2.281	1.00	92.69	C
ATOM	1244	OE1	GLU A 161	29.672	-4.668	-1.375	1.00	92.69	O
ATOM	1245	OE2	GLU A 161	27.859	-4.707	-2.627	1.00	92.69	O
ATOM	1246	N	VAL A 162	32.562	-2.186	-6.379	1.00	90.69	N
ATOM	1247	CA	VAL A 162	33.438	-2.576	-7.492	1.00	90.69	C
ATOM	1248	C	VAL A 162	34.188	-3.844	-7.129	1.00	90.69	C
ATOM	1249	CB	VAL A 162	34.406	-1.448	-7.875	1.00	90.69	C
ATOM	1250	O	VAL A 162	34.875	-3.896	-6.098	1.00	90.69	O
ATOM	1251	CG1	VAL A 162	35.281	-1.871	-9.055	1.00	90.69	C
ATOM	1252	CG2	VAL A 162	33.656	-0.166	-8.203	1.00	90.69	C
ATOM	1253	N	GLU A 163	33.906	-4.918	-7.883	1.00	87.19	N
ATOM	1254	CA	GLU A 163	34.656	-6.156	-7.730	1.00	87.19	C
ATOM	1255	C	GLU A 163	35.719	-6.285	-8.812	1.00	87.19	C
ATOM	1256	CB	GLU A 163	33.719	-7.367	-7.766	1.00	87.19	C
ATOM	1257	O	GLU A 163	35.406	-6.219	-10.008	1.00	87.19	O
ATOM	1258	CG	GLU A 163	32.688	-7.371	-6.664	1.00	87.19	C
ATOM	1259	CD	GLU A 163	31.734	-8.562	-6.734	1.00	87.19	C
ATOM	1260	OE1	GLU A 163	31.844	-9.469	-5.879	1.00	87.19	O
ATOM	1261	OE2	GLU A 163	30.891	-8.586	-7.652	1.00	87.19	O
ATOM	1262	N	GLU A 164	37.156	-6.453	-8.344	1.00	84.19	N
ATOM	1263	CA	GLU A 164	38.250	-6.469	-9.312	1.00	84.19	C
ATOM	1264	C	GLU A 164	38.875	-7.848	-9.391	1.00	84.19	C
ATOM	1265	CB	GLU A 164	39.281	-5.410	-8.953	1.00	84.19	C
ATOM	1266	O	GLU A 164	39.719	-8.203	-8.539	1.00	84.19	O
ATOM	1267	CG	GLU A 164	38.750	-3.986	-8.969	1.00	84.19	C
ATOM	1268	CD	GLU A 164	39.812	-2.947	-8.633	1.00	84.19	C
ATOM	1269	OE1	GLU A 164	39.656	-1.766	-9.008	1.00	84.19	O
ATOM	1270	OE2	GLU A 164	40.812	-3.316	-7.984	1.00	84.19	O
ATOM	1271	N	GLU A 165	38.062	-9.000	-9.398	1.00	73.62	N
ATOM	1272	CA	GLU A 165	38.719	-10.305	-9.383	1.00	73.62	C
ATOM	1273	C	GLU A 165	39.188	-10.703	-10.781	1.00	73.62	C
ATOM	1274	CB	GLU A 165	37.781	-11.375	-8.820	1.00	73.62	C
ATOM	1275	O	GLU A 165	40.375	-10.844	-11.016	1.00	73.62	O
ATOM	1276	CG	GLU A 165	37.500	-11.242	-7.328	1.00	73.62	C
ATOM	1277	CD	GLU A 165	36.750	-12.414	-6.742	1.00	73.62	C
ATOM	1278	OE1	GLU A 165	37.250	-13.055	-5.789	1.00	73.62	O

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ATOM	1279	OE2 GLU A 165	35.625	-12.703	-7.246	1.00	73.62	O
ATOM	1280	N GLU A 166	38.469	-10.930	-11.859	1.00	75.62	N
ATOM	1281	CA GLU A 166	38.875	-11.344	-13.195	1.00	75.62	C
ATOM	1282	C GLU A 166	38.500	-10.281	-14.234	1.00	75.62	C
ATOM	1283	CB GLU A 166	38.219	-12.680	-13.570	1.00	75.62	C
ATOM	1284	O GLU A 166	39.312	-9.953	-15.109	1.00	75.62	O
ATOM	1285	CG GLU A 166	38.750	-13.859	-12.766	1.00	75.62	C
ATOM	1286	CD GLU A 166	38.156	-15.195	-13.203	1.00	75.62	C
ATOM	1287	OE1 GLU A 166	38.938	-16.172	-13.359	1.00	75.62	O
ATOM	1288	OE2 GLU A 166	36.938	-15.258	-13.398	1.00	75.62	O
ATOM	1289	N GLU A 167	37.406	-9.594	-14.188	1.00	75.94	N
ATOM	1290	CA GLU A 167	36.844	-8.469	-14.906	1.00	75.94	C
ATOM	1291	C GLU A 167	36.312	-7.410	-13.945	1.00	75.94	C
ATOM	1292	CB GLU A 167	35.719	-8.938	-15.844	1.00	75.94	C
ATOM	1293	O GLU A 167	35.844	-7.738	-12.844	1.00	75.94	O
ATOM	1294	CG GLU A 167	36.188	-9.828	-16.984	1.00	75.94	C
ATOM	1295	CD GLU A 167	35.094	-10.234	-17.938	1.00	75.94	C
ATOM	1296	OE1 GLU A 167	35.375	-10.453	-19.141	1.00	75.94	O
ATOM	1297	OE2 GLU A 167	33.938	-10.336	-17.484	1.00	75.94	O
ATOM	1298	N GLU A 168	36.594	-6.199	-14.250	1.00	83.69	N
ATOM	1299	CA GLU A 168	36.000	-5.156	-13.438	1.00	83.69	C
ATOM	1300	C GLU A 168	34.469	-5.184	-13.555	1.00	83.69	C
ATOM	1301	CB GLU A 168	36.531	-3.779	-13.828	1.00	83.69	C
ATOM	1302	O GLU A 168	33.938	-5.105	-14.656	1.00	83.69	O
ATOM	1303	CG GLU A 168	36.062	-2.650	-12.930	1.00	83.69	C
ATOM	1304	CD GLU A 168	36.625	-1.296	-13.305	1.00	83.69	C
ATOM	1305	OE1 GLU A 168	35.844	-0.319	-13.430	1.00	83.69	O
ATOM	1306	OE2 GLU A 168	37.875	-1.211	-13.469	1.00	83.69	O
ATOM	1307	N VAL A 169	33.688	-5.500	-12.445	1.00	87.94	N
ATOM	1308	CA VAL A 169	32.250	-5.426	-12.398	1.00	87.94	C
ATOM	1309	C VAL A 169	31.812	-4.320	-11.438	1.00	87.94	C
ATOM	1310	CB VAL A 169	31.609	-6.773	-11.969	1.00	87.94	C
ATOM	1311	O VAL A 169	32.219	-4.309	-10.266	1.00	87.94	O
ATOM	1312	CG1 VAL A 169	30.094	-6.680	-11.945	1.00	87.94	C
ATOM	1313	CG2 VAL A 169	32.062	-7.891	-12.906	1.00	87.94	C
ATOM	1314	N VAL A 170	31.094	-3.443	-11.914	1.00	90.50	N
ATOM	1315	CA VAL A 170	30.484	-2.416	-11.070	1.00	90.50	C
ATOM	1316	C VAL A 170	29.047	-2.803	-10.742	1.00	90.50	C
ATOM	1317	CB VAL A 170	30.531	-1.029	-11.750	1.00	90.50	C
ATOM	1318	O VAL A 170	28.219	-2.949	-11.641	1.00	90.50	O
ATOM	1319	CG1 VAL A 170	29.922	0.037	-10.836	1.00	90.50	C
ATOM	1320	CG2 VAL A 170	31.953	-0.663	-12.133	1.00	90.50	C
ATOM	1321	N THR A 171	28.766	-3.041	-9.477	1.00	93.12	N
ATOM	1322	CA THR A 171	27.422	-3.445	-9.039	1.00	93.12	C
ATOM	1323	C THR A 171	26.750	-2.330	-8.242	1.00	93.12	C
ATOM	1324	CB THR A 171	27.484	-4.727	-8.188	1.00	93.12	C
ATOM	1325	O THR A 171	27.297	-1.864	-7.238	1.00	93.12	O
ATOM	1326	CG2 THR A 171	26.094	-5.180	-7.777	1.00	93.12	C
ATOM	1327	OG1 THR A 171	28.109	-5.770	-8.938	1.00	93.12	O
ATOM	1328	N THR A 172	25.703	-1.938	-8.703	1.00	93.44	N
ATOM	1329	CA THR A 172	24.859	-0.986	-7.992	1.00	93.44	C
ATOM	1330	C THR A 172	23.656	-1.692	-7.359	1.00	93.44	C
ATOM	1331	CB THR A 172	24.359	0.129	-8.930	1.00	93.44	C

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ATOM	1332	O	THR A 172	22.891	-2.371	-8.047	1.00	93.44	O
ATOM	1333	CG2	THR A 172	23.516	1.152	-8.172	1.00	93.44	C
ATOM	1334	OG1	THR A 172	25.484	0.792	-9.516	1.00	93.44	O
ATOM	1335	N	THR A 173	23.547	-1.625	-6.094	1.00	95.12	N
ATOM	1336	CA	THR A 173	22.469	-2.275	-5.359	1.00	95.12	C
ATOM	1337	C	THR A 173	21.500	-1.239	-4.789	1.00	95.12	C
ATOM	1338	CB	THR A 173	23.016	-3.154	-4.223	1.00	95.12	C
ATOM	1339	O	THR A 173	21.922	-0.298	-4.113	1.00	95.12	O
ATOM	1340	CG2	THR A 173	21.891	-3.875	-3.492	1.00	95.12	C
ATOM	1341	OG1	THR A 173	23.922	-4.125	-4.770	1.00	95.12	O
ATOM	1342	N	ILE A 174	20.234	-1.446	-5.051	1.00	94.31	N
ATOM	1343	CA	ILE A 174	19.172	-0.615	-4.500	1.00	94.31	C
ATOM	1344	C	ILE A 174	18.375	-1.413	-3.471	1.00	94.31	C
ATOM	1345	CB	ILE A 174	18.234	-0.086	-5.609	1.00	94.31	C
ATOM	1346	O	ILE A 174	17.828	-2.473	-3.785	1.00	94.31	O
ATOM	1347	CG1	ILE A 174	19.047	0.613	-6.707	1.00	94.31	C
ATOM	1348	CG2	ILE A 174	17.188	0.858	-5.023	1.00	94.31	C
ATOM	1349	CD1	ILE A 174	18.281	0.810	-8.008	1.00	94.31	C
ATOM	1350	N	ASN A 175	18.375	-0.909	-2.289	1.00	95.81	N
ATOM	1351	CA	ASN A 175	17.578	-1.539	-1.239	1.00	95.81	C
ATOM	1352	C	ASN A 175	16.312	-0.745	-0.943	1.00	95.81	C
ATOM	1353	CB	ASN A 175	18.406	-1.706	0.034	1.00	95.81	C
ATOM	1354	O	ASN A 175	16.375	0.458	-0.684	1.00	95.81	O
ATOM	1355	CG	ASN A 175	19.625	-2.592	-0.172	1.00	95.81	C
ATOM	1356	ND2	ASN A 175	20.797	-1.983	-0.224	1.00	95.81	N
ATOM	1357	OD1	ASN A 175	19.500	-3.814	-0.285	1.00	95.81	O
ATOM	1358	N	ILE A 176	15.188	-1.506	-0.955	1.00	96.00	N
ATOM	1359	CA	ILE A 176	13.922	-0.838	-0.668	1.00	96.00	C
ATOM	1360	C	ILE A 176	13.102	-1.681	0.307	1.00	96.00	C
ATOM	1361	CB	ILE A 176	13.117	-0.579	-1.960	1.00	96.00	C
ATOM	1362	O	ILE A 176	12.953	-2.891	0.119	1.00	96.00	O
ATOM	1363	CG1	ILE A 176	13.953	0.223	-2.961	1.00	96.00	C
ATOM	1364	CG2	ILE A 176	11.805	0.145	-1.642	1.00	96.00	C
ATOM	1365	CD1	ILE A 176	13.328	0.338	-4.344	1.00	96.00	C
ATOM	1366	N	ASP A 177	12.641	-1.051	1.347	1.00	97.31	N
ATOM	1367	CA	ASP A 177	11.680	-1.658	2.262	1.00	97.31	C
ATOM	1368	C	ASP A 177	10.289	-1.060	2.070	1.00	97.31	C
ATOM	1369	CB	ASP A 177	12.133	-1.482	3.713	1.00	97.31	C
ATOM	1370	O	ASP A 177	10.117	0.161	2.115	1.00	97.31	O
ATOM	1371	CG	ASP A 177	13.398	-2.254	4.035	1.00	97.31	C
ATOM	1372	OD1	ASP A 177	13.820	-3.104	3.219	1.00	97.31	O
ATOM	1373	OD2	ASP A 177	13.977	-2.014	5.113	1.00	97.31	O
ATOM	1374	N	VAL A 178	9.328	-1.911	1.882	1.00	98.12	N
ATOM	1375	CA	VAL A 178	7.965	-1.412	1.710	1.00	98.12	C
ATOM	1376	C	VAL A 178	7.039	-2.066	2.734	1.00	98.12	C
ATOM	1377	CB	VAL A 178	7.441	-1.669	0.279	1.00	98.12	C
ATOM	1378	O	VAL A 178	6.969	-3.295	2.818	1.00	98.12	O
ATOM	1379	CG1	VAL A 178	6.020	-1.130	0.118	1.00	98.12	C
ATOM	1380	CG2	VAL A 178	8.375	-1.036	-0.751	1.00	98.12	C
ATOM	1381	N	ASP A 179	6.363	-1.225	3.525	1.00	98.31	N
ATOM	1382	CA	ASP A 179	5.324	-1.669	4.449	1.00	98.31	C
ATOM	1383	C	ASP A 179	3.934	-1.332	3.916	1.00	98.31	C
ATOM	1384	CB	ASP A 179	5.527	-1.036	5.828	1.00	98.31	C

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ATOM	1385	O	ASP A 179	3.615	-0.162	3.693	1.00	98.31	O
ATOM	1386	CG	ASP A 179	6.809	-1.490	6.508	1.00	98.31	C
ATOM	1387	OD1	ASP A 179	6.973	-2.705	6.746	1.00	98.31	O
ATOM	1388	OD2	ASP A 179	7.656	-0.624	6.809	1.00	98.31	O
ATOM	1389	N	ILE A 180	3.166	-2.336	3.723	1.00	98.25	N
ATOM	1390	CA	ILE A 180	1.801	-2.121	3.258	1.00	98.25	C
ATOM	1391	C	ILE A 180	0.814	-2.521	4.352	1.00	98.25	C
ATOM	1392	CB	ILE A 180	1.516	-2.914	1.961	1.00	98.25	C
ATOM	1393	O	ILE A 180	0.837	-3.658	4.832	1.00	98.25	O
ATOM	1394	CG1	ILE A 180	2.535	-2.549	0.876	1.00	98.25	C
ATOM	1395	CG2	ILE A 180	0.085	-2.658	1.477	1.00	98.25	C
ATOM	1396	CD1	ILE A 180	2.463	-3.430	-0.363	1.00	98.25	C
ATOM	1397	N	GLU A 181	-0.028	-1.542	4.688	1.00	97.81	N
ATOM	1398	CA	GLU A 181	-1.100	-1.809	5.645	1.00	97.81	C
ATOM	1399	C	GLU A 181	-2.461	-1.431	5.066	1.00	97.81	C
ATOM	1400	CB	GLU A 181	-0.854	-1.053	6.953	1.00	97.81	C
ATOM	1401	O	GLU A 181	-2.664	-0.292	4.641	1.00	97.81	O
ATOM	1402	CG	GLU A 181	-1.845	-1.395	8.055	1.00	97.81	C
ATOM	1403	CD	GLU A 181	-1.550	-0.686	9.367	1.00	97.81	C
ATOM	1404	OE1	GLU A 181	-2.502	-0.208	10.023	1.00	97.81	O
ATOM	1405	OE2	GLU A 181	-0.358	-0.607	9.742	1.00	97.81	O
ATOM	1406	N	VAL A 182	-3.314	-2.434	5.027	1.00	97.81	N
ATOM	1407	CA	VAL A 182	-4.684	-2.193	4.590	1.00	97.81	C
ATOM	1408	C	VAL A 182	-5.656	-2.539	5.711	1.00	97.81	C
ATOM	1409	CB	VAL A 182	-5.023	-3.008	3.320	1.00	97.81	C
ATOM	1410	O	VAL A 182	-5.598	-3.635	6.277	1.00	97.81	O
ATOM	1411	CG1	VAL A 182	-6.441	-2.699	2.842	1.00	97.81	C
ATOM	1412	CG2	VAL A 182	-4.008	-2.721	2.215	1.00	97.81	C
ATOM	1413	N	SER A 183	-6.488	-1.540	6.059	1.00	96.62	N
ATOM	1414	CA	SER A 183	-7.430	-1.789	7.145	1.00	96.62	C
ATOM	1415	C	SER A 183	-8.836	-1.349	6.770	1.00	96.62	C
ATOM	1416	CB	SER A 183	-6.980	-1.066	8.414	1.00	96.62	C
ATOM	1417	O	SER A 183	-9.016	-0.385	6.020	1.00	96.62	O
ATOM	1418	OG	SER A 183	-7.031	0.339	8.242	1.00	96.62	O
ATOM	1419	N	ALA A 184	-9.805	-2.160	7.191	1.00	96.94	N
ATOM	1420	CA	ALA A 184	-11.219	-1.818	7.055	1.00	96.94	C
ATOM	1421	C	ALA A 184	-11.914	-1.808	8.414	1.00	96.94	C
ATOM	1422	CB	ALA A 184	-11.914	-2.797	6.113	1.00	96.94	C
ATOM	1423	O	ALA A 184	-11.742	-2.732	9.211	1.00	96.94	O
ATOM	1424	N	ARG A 185	-12.570	-0.718	8.609	1.00	97.06	N
ATOM	1425	CA	ARG A 185	-13.359	-0.584	9.828	1.00	97.06	C
ATOM	1426	C	ARG A 185	-14.844	-0.436	9.500	1.00	97.06	C
ATOM	1427	CB	ARG A 185	-12.883	0.614	10.648	1.00	97.06	C
ATOM	1428	O	ARG A 185	-15.234	0.460	8.742	1.00	97.06	O
ATOM	1429	CG	ARG A 185	-13.562	0.733	12.008	1.00	97.06	C
ATOM	1430	CD	ARG A 185	-12.984	1.883	12.828	1.00	97.06	C
ATOM	1431	NE	ARG A 185	-13.609	1.977	14.141	1.00	97.06	N
ATOM	1432	NH1	ARG A 185	-12.352	3.785	14.836	1.00	97.06	N
ATOM	1433	NH2	ARG A 185	-13.930	2.873	16.234	1.00	97.06	N
ATOM	1434	CZ	ARG A 185	-13.297	2.877	15.070	1.00	97.06	C
ATOM	1435	N	VAL A 186	-15.656	-1.346	10.070	1.00	96.44	N
ATOM	1436	CA	VAL A 186	-17.094	-1.343	9.828	1.00	96.44	C
ATOM	1437	C	VAL A 186	-17.844	-1.050	11.125	1.00	96.44	C

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ATOM	1438	CB	VAL A 186	-17.578	-2.686	9.227	1.00	96.44	C
ATOM	1439	O	VAL A 186	-17.625	-1.716	12.141	1.00	96.44	O
ATOM	1440	CG1	VAL A 186	-19.094	-2.680	9.031	1.00	96.44	C
ATOM	1441	CG2	VAL A 186	-16.859	-2.969	7.910	1.00	96.44	C
ATOM	1442	N	ARG A 187	-18.703	-0.048	11.062	1.00	96.00	N
ATOM	1443	CA	ARG A 187	-19.594	0.273	12.180	1.00	96.00	C
ATOM	1444	C	ARG A 187	-21.062	0.157	11.773	1.00	96.00	C
ATOM	1445	CB	ARG A 187	-19.297	1.682	12.703	1.00	96.00	C
ATOM	1446	O	ARG A 187	-21.484	0.769	10.789	1.00	96.00	O
ATOM	1447	CG	ARG A 187	-17.969	1.811	13.422	1.00	96.00	C
ATOM	1448	CD	ARG A 187	-17.781	3.197	14.016	1.00	96.00	C
ATOM	1449	NE	ARG A 187	-16.500	3.316	14.719	1.00	96.00	N
ATOM	1450	NH1	ARG A 187	-16.672	5.590	15.078	1.00	96.00	N
ATOM	1451	NH2	ARG A 187	-14.836	4.445	15.820	1.00	96.00	N
ATOM	1452	CZ	ARG A 187	-16.016	4.449	15.203	1.00	96.00	C
ATOM	1453	N	ILE A 188	-21.766	-0.578	12.562	1.00	93.88	N
ATOM	1454	CA	ILE A 188	-23.188	-0.760	12.281	1.00	93.88	C
ATOM	1455	C	ILE A 188	-24.016	-0.231	13.453	1.00	93.88	C
ATOM	1456	CB	ILE A 188	-23.531	-2.244	12.016	1.00	93.88	C
ATOM	1457	O	ILE A 188	-23.750	-0.573	14.609	1.00	93.88	O
ATOM	1458	CG1	ILE A 188	-22.750	-2.756	10.789	1.00	93.88	C
ATOM	1459	CG2	ILE A 188	-25.031	-2.430	11.828	1.00	93.88	C
ATOM	1460	CD1	ILE A 188	-22.906	-4.250	10.547	1.00	93.88	C
ATOM	1461	N	ARG A 189	-24.953	0.603	13.109	1.00	93.62	N
ATOM	1462	CA	ARG A 189	-25.875	1.115	14.109	1.00	93.62	C
ATOM	1463	C	ARG A 189	-27.312	0.699	13.789	1.00	93.62	C
ATOM	1464	CB	ARG A 189	-25.781	2.641	14.203	1.00	93.62	C
ATOM	1465	O	ARG A 189	-27.797	0.924	12.680	1.00	93.62	O
ATOM	1466	CG	ARG A 189	-26.578	3.238	15.352	1.00	93.62	C
ATOM	1467	CD	ARG A 189	-26.359	4.738	15.469	1.00	93.62	C
ATOM	1468	NE	ARG A 189	-27.141	5.312	16.562	1.00	93.62	N
ATOM	1469	NH1	ARG A 189	-26.203	7.426	16.391	1.00	93.62	N
ATOM	1470	NH2	ARG A 189	-27.797	6.996	17.984	1.00	93.62	N
ATOM	1471	CZ	ARG A 189	-27.047	6.578	16.969	1.00	93.62	C
ATOM	1472	N	LEU A 190	-28.031	0.098	14.836	1.00	92.38	N
ATOM	1473	CA	LEU A 190	-29.422	-0.305	14.656	1.00	92.38	C
ATOM	1474	C	LEU A 190	-30.344	0.899	14.742	1.00	92.38	C
ATOM	1475	CB	LEU A 190	-29.812	-1.350	15.695	1.00	92.38	C
ATOM	1476	O	LEU A 190	-30.125	1.803	15.547	1.00	92.38	O
ATOM	1477	CG	LEU A 190	-29.016	-2.654	15.695	1.00	92.38	C
ATOM	1478	CD1	LEU A 190	-29.438	-3.539	16.859	1.00	92.38	C
ATOM	1479	CD2	LEU A 190	-29.203	-3.387	14.367	1.00	92.38	C
ATOM	1480	N	LYS A 191	-31.297	1.029	13.820	1.00	87.62	N
ATOM	1481	CA	LYS A 191	-32.312	2.076	13.875	1.00	87.62	C
ATOM	1482	C	LYS A 191	-33.375	1.763	14.938	1.00	87.62	C
ATOM	1483	CB	LYS A 191	-32.969	2.250	12.508	1.00	87.62	C
ATOM	1484	O	LYS A 191	-33.562	0.600	15.281	1.00	87.62	O
ATOM	1485	CG	LYS A 191	-32.062	2.828	11.445	1.00	87.62	C
ATOM	1486	CD	LYS A 191	-32.812	3.070	10.133	1.00	87.62	C
ATOM	1487	CE	LYS A 191	-31.891	3.646	9.070	1.00	87.62	C
ATOM	1488	NZ	LYS A 191	-32.594	3.844	7.770	1.00	87.62	N
ATOM	1489	N	PRO A 192	-33.844	2.797	15.672	1.00	80.44	N
ATOM	1490	CA	PRO A 192	-34.906	2.527	16.641	1.00	80.44	C

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ATOM 1491 C PRO A 192 -36.062 1.738 16.031 1.00 80.44 C
ATOM 1492 CB PRO A 192 -35.375 3.926 17.062 1.00 80.44 C
ATOM 1493 O PRO A 192 -36.406 1.931 14.859 1.00 80.44 O
ATOM 1494 CG PRO A 192 -34.750 4.848 16.062 1.00 80.44 C
ATOM 1495 CD PRO A 192 -33.688 4.090 15.297 1.00 80.44 C
TER 1496 PRO A 192
END
MODEL 1
ATOM 29 N MET A 8 57.844 -10.469 -26.328 1.00 69.25 N
ATOM 30 CA MET A 8 56.500 -11.031 -26.516 1.00 69.25 C
ATOM 31 C MET A 8 55.438 -9.938 -26.469 1.00 69.25 C
ATOM 32 CB MET A 8 56.219 -12.078 -25.438 1.00 69.25 C
ATOM 33 O MET A 8 55.406 -9.133 -25.531 1.00 69.25 O
ATOM 34 CG MET A 8 55.062 -13.000 -25.781 1.00 69.25 C
ATOM 35 SD MET A 8 55.375 -14.734 -25.297 1.00 69.25 S
ATOM 36 CE MET A 8 53.812 -15.508 -25.844 1.00 69.25 C
ATOM 37 N GLU A 9 55.062 -9.273 -27.625 1.00 74.56 N
ATOM 38 CA GLU A 9 53.969 -8.336 -27.906 1.00 74.56 C
ATOM 39 C GLU A 9 52.656 -8.852 -27.359 1.00 74.56 C
ATOM 40 CB GLU A 9 53.844 -8.086 -29.406 1.00 74.56 C
ATOM 41 O GLU A 9 52.250 -9.984 -27.641 1.00 74.56 O
ATOM 42 CG GLU A 9 53.594 -6.633 -29.781 1.00 74.56 C
ATOM 43 CD GLU A 9 53.531 -6.391 -31.281 1.00 74.56 C
ATOM 44 OE1 GLU A 9 52.938 -5.371 -31.703 1.00 74.56 O
ATOM 45 OE2 GLU A 9 54.062 -7.230 -32.031 1.00 74.56 O
ATOM 46 N VAL A 10 52.250 -8.547 -26.172 1.00 77.25 N
ATOM 47 CA VAL A 10 50.969 -8.773 -25.547 1.00 77.25 C
ATOM 48 C VAL A 10 49.906 -7.914 -26.234 1.00 77.25 C
ATOM 49 CB VAL A 10 51.000 -8.477 -24.031 1.00 77.25 C
ATOM 50 O VAL A 10 50.094 -6.703 -26.375 1.00 77.25 O
ATOM 51 CG1 VAL A 10 49.625 -8.695 -23.406 1.00 77.25 C
ATOM 52 CG2 VAL A 10 52.031 -9.352 -23.344 1.00 77.25 C
ATOM 53 N LYS A 11 49.031 -8.484 -26.922 1.00 84.81 N
ATOM 54 CA LYS A 11 47.844 -7.863 -27.484 1.00 84.81 C
ATOM 55 C LYS A 11 46.875 -7.430 -26.391 1.00 84.81 C
ATOM 56 CB LYS A 11 47.156 -8.820 -28.453 1.00 84.81 C
ATOM 57 O LYS A 11 46.719 -8.125 -25.391 1.00 84.81 O
ATOM 58 CG LYS A 11 47.750 -8.836 -29.859 1.00 84.81 C
ATOM 59 CD LYS A 11 46.938 -9.711 -30.812 1.00 84.81 C
ATOM 60 CE LYS A 11 47.594 -9.820 -32.156 1.00 84.81 C
ATOM 61 NZ LYS A 11 46.812 -10.680 -33.094 1.00 84.81 N
ATOM 62 N GLU A 12 46.250 -6.207 -26.516 1.00 88.88 N
ATOM 63 CA GLU A 12 45.281 -5.633 -25.578 1.00 88.88 C
ATOM 64 C GLU A 12 43.906 -5.504 -26.203 1.00 88.88 C
ATOM 65 CB GLU A 12 45.781 -4.262 -25.094 1.00 88.88 C
ATOM 66 O GLU A 12 43.781 -5.020 -27.328 1.00 88.88 O
ATOM 67 CG GLU A 12 47.000 -4.328 -24.188 1.00 88.88 C
ATOM 68 CD GLU A 12 47.344 -2.988 -23.562 1.00 88.88 C
ATOM 69 OE1 GLU A 12 48.250 -2.943 -22.688 1.00 88.88 O
ATOM 70 OE2 GLU A 12 46.719 -1.975 -23.953 1.00 88.88 O
ATOM 71 N GLU A 13 42.969 -5.992 -25.609 1.00 89.12 N
ATOM 72 CA GLU A 13 41.562 -5.859 -26.000 1.00 89.12 C
ATOM 73 C GLU A 13 40.750 -5.230 -24.875 1.00 89.12 C

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ATOM	74	CB	GLU A 13	40.969	-7.223	-26.375	1.00	89.12	C
ATOM	75	O	GLU A 13	40.844	-5.637	-23.719	1.00	89.12	O
ATOM	76	CG	GLU A 13	41.500	-7.773	-27.688	1.00	89.12	C
ATOM	77	CD	GLU A 13	40.812	-9.055	-28.125	1.00	89.12	C
ATOM	78	OE1	GLU A 13	40.812	-9.367	-29.344	1.00	89.12	O
ATOM	79	OE2	GLU A 13	40.250	-9.750	-27.250	1.00	89.12	O
ATOM	80	N	VAL A 14	39.969	-4.191	-25.250	1.00	90.50	N
ATOM	81	CA	VAL A 14	39.094	-3.479	-24.312	1.00	90.50	C
ATOM	82	C	VAL A 14	37.656	-3.629	-24.719	1.00	90.50	C
ATOM	83	CB	VAL A 14	39.469	-1.982	-24.219	1.00	90.50	C
ATOM	84	O	VAL A 14	37.312	-3.418	-25.891	1.00	90.50	O
ATOM	85	CG1	VAL A 14	38.531	-1.244	-23.266	1.00	90.50	C
ATOM	86	CG2	VAL A 14	40.938	-1.824	-23.766	1.00	90.50	C
ATOM	87	N	GLU A 15	36.812	-4.102	-23.859	1.00	92.50	N
ATOM	88	CA	GLU A 15	35.344	-4.207	-24.000	1.00	92.50	C
ATOM	89	C	GLU A 15	34.625	-3.252	-23.062	1.00	92.50	C
ATOM	90	CB	GLU A 15	34.875	-5.645	-23.750	1.00	92.50	C
ATOM	91	O	GLU A 15	34.906	-3.229	-21.859	1.00	92.50	O
ATOM	92	CG	GLU A 15	33.406	-5.863	-24.000	1.00	92.50	C
ATOM	93	CD	GLU A 15	32.938	-7.277	-23.688	1.00	92.50	C
ATOM	94	OE1	GLU A 15	31.719	-7.531	-23.703	1.00	92.50	O
ATOM	95	OE2	GLU A 15	33.812	-8.133	-23.422	1.00	92.50	O
ATOM	96	N	GLU A 16	33.719	-2.430	-23.609	1.00	94.19	N
ATOM	97	CA	GLU A 16	32.906	-1.492	-22.828	1.00	94.19	C
ATOM	98	C	GLU A 16	31.438	-1.941	-22.766	1.00	94.19	C
ATOM	99	CB	GLU A 16	33.000	-0.085	-23.438	1.00	94.19	C
ATOM	100	O	GLU A 16	30.812	-2.195	-23.797	1.00	94.19	O
ATOM	101	CG	GLU A 16	34.375	0.512	-23.391	1.00	94.19	C
ATOM	102	CD	GLU A 16	34.438	1.985	-23.766	1.00	94.19	C
ATOM	103	OE1	GLU A 16	35.406	2.682	-23.406	1.00	94.19	O
ATOM	104	OE2	GLU A 16	33.469	2.449	-24.422	1.00	94.19	O
ATOM	105	N	LYS A 17	31.000	-2.119	-21.641	1.00	93.56	N
ATOM	106	CA	LYS A 17	29.609	-2.514	-21.406	1.00	93.56	C
ATOM	107	C	LYS A 17	28.875	-1.479	-20.562	1.00	93.56	C
ATOM	108	CB	LYS A 17	29.547	-3.885	-20.734	1.00	93.56	C
ATOM	109	O	LYS A 17	29.375	-1.059	-19.516	1.00	93.56	O
ATOM	110	CG	LYS A 17	28.141	-4.461	-20.641	1.00	93.56	C
ATOM	111	CD	LYS A 17	28.156	-5.875	-20.078	1.00	93.56	C
ATOM	112	CE	LYS A 17	26.750	-6.461	-20.000	1.00	93.56	C
ATOM	113	NZ	LYS A 17	26.750	-7.852	-19.453	1.00	93.56	N
ATOM	114	N	LYS A 18	27.766	-0.987	-21.094	1.00	92.25	N
ATOM	115	CA	LYS A 18	26.906	-0.069	-20.359	1.00	92.25	C
ATOM	116	C	LYS A 18	25.594	-0.747	-19.953	1.00	92.25	C
ATOM	117	CB	LYS A 18	26.609	1.178	-21.188	1.00	92.25	C
ATOM	118	O	LYS A 18	24.922	-1.347	-20.781	1.00	92.25	O
ATOM	119	CG	LYS A 18	27.828	2.043	-21.469	1.00	92.25	C
ATOM	120	CD	LYS A 18	27.469	3.293	-22.250	1.00	92.25	C
ATOM	121	CE	LYS A 18	28.688	4.133	-22.578	1.00	92.25	C
ATOM	122	NZ	LYS A 18	28.328	5.375	-23.328	1.00	92.25	N
ATOM	123	N	GLU A 19	25.312	-0.682	-18.719	1.00	93.12	N
ATOM	124	CA	GLU A 19	24.078	-1.246	-18.172	1.00	93.12	C
ATOM	125	C	GLU A 19	23.234	-0.176	-17.469	1.00	93.12	C
ATOM	126	CB	GLU A 19	24.391	-2.385	-17.188	1.00	93.12	C

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ATOM	127	O	GLU A 19	23.766	0.589	-16.656	1.00	93.12	O
ATOM	128	CG	GLU A 19	24.984	-3.617	-17.859	1.00	93.12	C
ATOM	129	CD	GLU A 19	25.188	-4.777	-16.906	1.00	93.12	C
ATOM	130	OE1	GLU A 19	25.219	-5.945	-17.359	1.00	93.12	O
ATOM	131	OE2	GLU A 19	25.328	-4.520	-15.688	1.00	93.12	O
ATOM	132	N	GLU A 20	22.047	-0.147	-17.828	1.00	93.62	N
ATOM	133	CA	GLU A 20	21.125	0.785	-17.188	1.00	93.62	C
ATOM	134	C	GLU A 20	19.938	0.051	-16.562	1.00	93.62	C
ATOM	135	CB	GLU A 20	20.625	1.832	-18.188	1.00	93.62	C
ATOM	136	O	GLU A 20	19.250	-0.721	-17.250	1.00	93.62	O
ATOM	137	CG	GLU A 20	21.734	2.715	-18.750	1.00	93.62	C
ATOM	138	CD	GLU A 20	21.219	3.807	-19.672	1.00	93.62	C
ATOM	139	OE1	GLU A 20	21.422	5.004	-19.359	1.00	93.62	O
ATOM	140	OE2	GLU A 20	20.609	3.463	-20.719	1.00	93.62	O
ATOM	141	N	THR A 21	19.672	0.393	-15.328	1.00	94.69	N
ATOM	142	CA	THR A 21	18.578	-0.280	-14.648	1.00	94.69	C
ATOM	143	C	THR A 21	17.766	0.710	-13.812	1.00	94.69	C
ATOM	144	CB	THR A 21	19.094	-1.418	-13.742	1.00	94.69	C
ATOM	145	O	THR A 21	18.266	1.790	-13.477	1.00	94.69	O
ATOM	146	CG2	THR A 21	19.812	-2.480	-14.562	1.00	94.69	C
ATOM	147	OG1	THR A 21	19.984	-0.878	-12.773	1.00	94.69	O
ATOM	148	N	VAL A 22	16.578	0.331	-13.484	1.00	95.81	N
ATOM	149	CA	VAL A 22	15.664	1.120	-12.664	1.00	95.81	C
ATOM	150	C	VAL A 22	15.258	0.320	-11.430	1.00	95.81	C
ATOM	151	CB	VAL A 22	14.406	1.549	-13.461	1.00	95.81	C
ATOM	152	O	VAL A 22	14.969	-0.876	-11.523	1.00	95.81	O
ATOM	153	CG1	VAL A 22	13.438	2.322	-12.562	1.00	95.81	C
ATOM	154	CG2	VAL A 22	14.805	2.387	-14.672	1.00	95.81	C
ATOM	155	N	VAL A 23	15.367	0.963	-10.312	1.00	96.19	N
ATOM	156	CA	VAL A 23	14.820	0.405	-9.078	1.00	96.19	C
ATOM	157	C	VAL A 23	13.641	1.250	-8.602	1.00	96.19	C
ATOM	158	CB	VAL A 23	15.898	0.323	-7.973	1.00	96.19	C
ATOM	159	O	VAL A 23	13.766	2.465	-8.438	1.00	96.19	O
ATOM	160	CG1	VAL A 23	15.305	-0.241	-6.684	1.00	96.19	C
ATOM	161	CG2	VAL A 23	17.078	-0.529	-8.438	1.00	96.19	C
ATOM	162	N	ILE A 24	12.430	0.623	-8.406	1.00	95.81	N
ATOM	163	CA	ILE A 24	11.273	1.370	-7.941	1.00	95.81	C
ATOM	164	C	ILE A 24	10.875	0.891	-6.551	1.00	95.81	C
ATOM	165	CB	ILE A 24	10.078	1.229	-8.922	1.00	95.81	C
ATOM	166	O	ILE A 24	10.812	-0.315	-6.297	1.00	95.81	O
ATOM	167	CG1	ILE A 24	8.977	2.238	-8.570	1.00	95.81	C
ATOM	168	CG2	ILE A 24	9.539	-0.202	-8.898	1.00	95.81	C
ATOM	169	CD1	ILE A 24	8.039	2.553	-9.719	1.00	95.81	C
ATOM	170	N	ASN A 25	10.812	1.788	-5.664	1.00	96.81	N
ATOM	171	CA	ASN A 25	10.297	1.555	-4.316	1.00	96.81	C
ATOM	172	C	ASN A 25	8.898	2.148	-4.141	1.00	96.81	C
ATOM	173	CB	ASN A 25	11.250	2.125	-3.270	1.00	96.81	C
ATOM	174	O	ASN A 25	8.727	3.367	-4.207	1.00	96.81	O
ATOM	175	CG	ASN A 25	12.609	1.462	-3.301	1.00	96.81	C
ATOM	176	ND2	ASN A 25	13.664	2.260	-3.156	1.00	96.81	N
ATOM	177	OD1	ASN A 25	12.719	0.242	-3.451	1.00	96.81	O
ATOM	178	N	ILE A 26	7.883	1.309	-3.916	1.00	96.00	N
ATOM	179	CA	ILE A 26	6.512	1.797	-3.826	1.00	96.00	C

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ATOM	180	C	ILE A 26	5.973	1.560	-2.418	1.00	96.00	C
ATOM	181	CB	ILE A 26	5.602	1.117	-4.871	1.00	96.00	C
ATOM	182	O	ILE A 26	6.035	0.442	-1.901	1.00	96.00	O
ATOM	183	CG1	ILE A 26	6.160	1.320	-6.285	1.00	96.00	C
ATOM	184	CG2	ILE A 26	4.168	1.652	-4.770	1.00	96.00	C
ATOM	185	CD1	ILE A 26	5.445	0.512	-7.359	1.00	96.00	C
ATOM	186	N	THR A 27	5.590	2.594	-1.790	1.00	95.94	N
ATOM	187	CA	THR A 27	4.871	2.518	-0.524	1.00	95.94	C
ATOM	188	C	THR A 27	3.379	2.766	-0.735	1.00	95.94	C
ATOM	189	CB	THR A 27	5.422	3.533	0.494	1.00	95.94	C
ATOM	190	O	THR A 27	2.984	3.811	-1.254	1.00	95.94	O
ATOM	191	CG2	THR A 27	4.688	3.428	1.827	1.00	95.94	C
ATOM	192	OG1	THR A 27	6.816	3.277	0.707	1.00	95.94	O
ATOM	193	N	ILE A 28	2.482	1.817	-0.333	1.00	95.94	N
ATOM	194	CA	ILE A 28	1.037	1.936	-0.492	1.00	95.94	C
ATOM	195	C	ILE A 28	0.381	2.121	0.875	1.00	95.94	C
ATOM	196	CB	ILE A 28	0.445	0.700	-1.207	1.00	95.94	C
ATOM	197	O	ILE A 28	0.540	1.283	1.766	1.00	95.94	O
ATOM	198	CG1	ILE A 28	1.179	0.445	-2.527	1.00	95.94	C
ATOM	199	CG2	ILE A 28	-1.058	0.881	-1.441	1.00	95.94	C
ATOM	200	CD1	ILE A 28	0.905	-0.925	-3.135	1.00	95.94	C
ATOM	201	N	ASN A 29	-0.261	3.197	1.021	1.00	95.50	N
ATOM	202	CA	ASN A 29	-1.019	3.475	2.236	1.00	95.50	C
ATOM	203	C	ASN A 29	-2.521	3.365	1.997	1.00	95.50	C
ATOM	204	CB	ASN A 29	-0.667	4.859	2.785	1.00	95.50	C
ATOM	205	O	ASN A 29	-3.074	4.078	1.160	1.00	95.50	O
ATOM	206	CG	ASN A 29	0.811	5.012	3.086	1.00	95.50	C
ATOM	207	ND2	ASN A 29	1.453	5.973	2.434	1.00	95.50	N
ATOM	208	OD1	ASN A 29	1.371	4.270	3.896	1.00	95.50	O
ATOM	209	N	ILE A 30	-3.205	2.506	2.793	1.00	94.56	N
ATOM	210	CA	ILE A 30	-4.629	2.264	2.586	1.00	94.56	C
ATOM	211	C	ILE A 30	-5.418	2.742	3.803	1.00	94.56	C
ATOM	212	CB	ILE A 30	-4.914	0.768	2.318	1.00	94.56	C
ATOM	213	O	ILE A 30	-5.141	2.328	4.930	1.00	94.56	O
ATOM	214	CG1	ILE A 30	-4.074	0.268	1.136	1.00	94.56	C
ATOM	215	CG2	ILE A 30	-6.406	0.540	2.064	1.00	94.56	C
ATOM	216	CD1	ILE A 30	-3.990	-1.249	1.036	1.00	94.56	C
ATOM	217	N	ASN A 31	-6.348	3.609	3.486	1.00	94.25	N
ATOM	218	CA	ASN A 31	-7.293	4.090	4.488	1.00	94.25	C
ATOM	219	C	ASN A 31	-8.734	3.818	4.074	1.00	94.25	C
ATOM	220	CB	ASN A 31	-7.086	5.582	4.750	1.00	94.25	C
ATOM	221	O	ASN A 31	-9.117	4.078	2.934	1.00	94.25	O
ATOM	222	CG	ASN A 31	-5.684	5.902	5.223	1.00	94.25	C
ATOM	223	ND2	ASN A 31	-4.918	6.594	4.387	1.00	94.25	N
ATOM	224	OD1	ASN A 31	-5.293	5.535	6.336	1.00	94.25	O
ATOM	225	N	ALA A 32	-9.492	3.277	5.070	1.00	94.31	N
ATOM	226	CA	ALA A 32	-10.867	2.965	4.703	1.00	94.31	C
ATOM	227	C	ALA A 32	-11.828	3.330	5.832	1.00	94.31	C
ATOM	228	CB	ALA A 32	-11.000	1.486	4.352	1.00	94.31	C
ATOM	229	O	ALA A 32	-11.477	3.238	7.008	1.00	94.31	O
ATOM	230	N	SER A 33	-12.984	3.779	5.383	1.00	95.00	N
ATOM	231	CA	SER A 33	-14.039	4.070	6.348	1.00	95.00	C
ATOM	232	C	SER A 33	-15.422	3.848	5.742	1.00	95.00	C

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ATOM	233	CB	SER A 33	-13.922	5.512	6.852	1.00	95.00	C
ATOM	234	O	SER A 33	-15.594	3.938	4.527	1.00	95.00	O
ATOM	235	OG	SER A 33	-14.148	6.434	5.797	1.00	95.00	O
ATOM	236	N	VAL A 34	-16.344	3.473	6.652	1.00	95.31	N
ATOM	237	CA	VAL A 34	-17.719	3.314	6.164	1.00	95.31	C
ATOM	238	C	VAL A 34	-18.688	3.975	7.133	1.00	95.31	C
ATOM	239	CB	VAL A 34	-18.078	1.825	5.973	1.00	95.31	C
ATOM	240	O	VAL A 34	-18.406	4.102	8.328	1.00	95.31	O
ATOM	241	CG1	VAL A 34	-17.250	1.203	4.855	1.00	95.31	C
ATOM	242	CG2	VAL A 34	-17.891	1.058	7.277	1.00	95.31	C
ATOM	243	N	SER A 35	-19.781	4.391	6.508	1.00	94.31	N
ATOM	244	CA	SER A 35	-20.906	4.875	7.309	1.00	94.31	C
ATOM	245	C	SER A 35	-22.234	4.375	6.754	1.00	94.31	C
ATOM	246	CB	SER A 35	-20.906	6.402	7.359	1.00	94.31	C
ATOM	247	O	SER A 35	-22.359	4.141	5.551	1.00	94.31	O
ATOM	248	OG	SER A 35	-21.109	6.949	6.066	1.00	94.31	O
ATOM	249	N	TRP A 36	-23.094	4.023	7.680	1.00	91.81	N
ATOM	250	CA	TRP A 36	-24.391	3.568	7.211	1.00	91.81	C
ATOM	251	C	TRP A 36	-25.516	4.145	8.070	1.00	91.81	C
ATOM	252	CB	TRP A 36	-24.453	2.039	7.219	1.00	91.81	C
ATOM	253	O	TRP A 36	-25.297	4.473	9.242	1.00	91.81	O
ATOM	254	CG	TRP A 36	-24.328	1.429	8.578	1.00	91.81	C
ATOM	255	CD1	TRP A 36	-25.359	1.091	9.430	1.00	91.81	C
ATOM	256	CD2	TRP A 36	-23.125	1.088	9.258	1.00	91.81	C
ATOM	257	CE2	TRP A 36	-23.484	0.546	10.508	1.00	91.81	C
ATOM	258	CE3	TRP A 36	-21.766	1.188	8.922	1.00	91.81	C
ATOM	259	NE1	TRP A 36	-24.844	0.560	10.594	1.00	91.81	N
ATOM	260	CH2	TRP A 36	-21.203	0.214	11.078	1.00	91.81	C
ATOM	261	CZ2	TRP A 36	-22.531	0.105	11.430	1.00	91.81	C
ATOM	262	CZ3	TRP A 36	-20.812	0.748	9.836	1.00	91.81	C
ATOM	263	N	GLU A 37	-26.641	4.328	7.316	1.00	91.50	N
ATOM	264	CA	GLU A 37	-27.812	4.934	7.957	1.00	91.50	C
ATOM	265	C	GLU A 37	-29.094	4.191	7.586	1.00	91.50	C
ATOM	266	CB	GLU A 37	-27.922	6.410	7.570	1.00	91.50	C
ATOM	267	O	GLU A 37	-29.250	3.734	6.449	1.00	91.50	O
ATOM	268	CG	GLU A 37	-29.016	7.160	8.336	1.00	91.50	C
ATOM	269	CD	GLU A 37	-29.062	8.641	8.000	1.00	91.50	C
ATOM	270	OE1	GLU A 37	-30.094	9.109	7.469	1.00	91.50	O
ATOM	271	OE2	GLU A 37	-28.062	9.344	8.266	1.00	91.50	O
ATOM	272	N	LYS A 38	-29.812	3.941	8.609	1.00	87.25	N
ATOM	273	CA	LYS A 38	-31.172	3.438	8.398	1.00	87.25	C
ATOM	274	C	LYS A 38	-32.219	4.504	8.727	1.00	87.25	C
ATOM	275	CB	LYS A 38	-31.406	2.189	9.250	1.00	87.25	C
ATOM	276	O	LYS A 38	-32.219	5.059	9.828	1.00	87.25	O
ATOM	277	CG	LYS A 38	-30.719	0.941	8.734	1.00	87.25	C
ATOM	278	CD	LYS A 38	-31.047	-0.278	9.578	1.00	87.25	C
ATOM	279	CE	LYS A 38	-30.203	-1.483	9.188	1.00	87.25	C
ATOM	280	NZ	LYS A 38	-30.469	-2.658	10.070	1.00	87.25	N
ATOM	281	N	LYS A 39	-33.094	4.738	7.707	1.00	89.25	N
ATOM	282	CA	LYS A 39	-34.125	5.758	7.938	1.00	89.25	C
ATOM	283	C	LYS A 39	-35.500	5.145	7.945	1.00	89.25	C
ATOM	284	CB	LYS A 39	-34.031	6.852	6.871	1.00	89.25	C
ATOM	285	O	LYS A 39	-35.844	4.297	7.109	1.00	89.25	O

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ATOM	286	CG	LYS	A	39	-32.781	7.730	6.984	1.00	89.25	C
ATOM	287	CD	LYS	A	39	-32.844	8.891	5.996	1.00	89.25	C
ATOM	288	CE	LYS	A	39	-31.609	9.781	6.121	1.00	89.25	C
ATOM	289	NZ	LYS	A	39	-31.656	10.930	5.168	1.00	89.25	N
ATOM	290	N	SER	A	40	-36.250	5.473	9.023	1.00	84.31	N
ATOM	291	CA	SER	A	40	-37.688	5.227	9.070	1.00	84.31	C
ATOM	292	C	SER	A	40	-38.469	6.504	9.391	1.00	84.31	C
ATOM	293	CB	SER	A	40	-38.000	4.152	10.109	1.00	84.31	C
ATOM	294	O	SER	A	40	-37.875	7.516	9.766	1.00	84.31	O
ATOM	295	OG	SER	A	40	-37.688	4.598	11.414	1.00	84.31	O
ATOM	296	N	PRO	A	41	-39.906	6.504	9.102	1.00	81.12	N
ATOM	297	CA	PRO	A	41	-40.625	7.734	9.391	1.00	81.12	C
ATOM	298	C	PRO	A	41	-40.469	8.211	10.828	1.00	81.12	C
ATOM	299	CB	PRO	A	41	-42.094	7.344	9.117	1.00	81.12	C
ATOM	300	O	PRO	A	41	-40.469	9.414	11.094	1.00	81.12	O
ATOM	301	CG	PRO	A	41	-42.000	6.164	8.203	1.00	81.12	C
ATOM	302	CD	PRO	A	41	-40.719	5.438	8.477	1.00	81.12	C
ATOM	303	N	THR	A	42	-40.219	7.305	11.734	1.00	84.81	N
ATOM	304	CA	THR	A	42	-40.219	7.715	13.133	1.00	84.81	C
ATOM	305	C	THR	A	42	-38.844	7.578	13.742	1.00	84.81	C
ATOM	306	CB	THR	A	42	-41.219	6.883	13.953	1.00	84.81	C
ATOM	307	O	THR	A	42	-38.594	8.016	14.875	1.00	84.81	O
ATOM	308	CG2	THR	A	42	-42.656	7.172	13.523	1.00	84.81	C
ATOM	309	OG1	THR	A	42	-40.969	5.488	13.758	1.00	84.81	O
ATOM	310	N	GLU	A	43	-37.906	7.086	12.844	1.00	88.38	N
ATOM	311	CA	GLU	A	43	-36.625	6.828	13.484	1.00	88.38	C
ATOM	312	C	GLU	A	43	-35.500	6.828	12.461	1.00	88.38	C
ATOM	313	CB	GLU	A	43	-36.656	5.492	14.234	1.00	88.38	C
ATOM	314	O	GLU	A	43	-35.688	6.434	11.305	1.00	88.38	O
ATOM	315	CG	GLU	A	43	-35.344	5.164	14.945	1.00	88.38	C
ATOM	316	CD	GLU	A	43	-35.375	3.799	15.617	1.00	88.38	C
ATOM	317	OE1	GLU	A	43	-34.562	2.924	15.234	1.00	88.38	O
ATOM	318	OE2	GLU	A	43	-36.188	3.605	16.547	1.00	88.38	O
ATOM	319	N	THR	A	44	-34.281	7.406	12.836	1.00	89.75	N
ATOM	320	CA	THR	A	44	-33.031	7.320	12.070	1.00	89.75	C
ATOM	321	C	THR	A	44	-31.922	6.684	12.906	1.00	89.75	C
ATOM	322	CB	THR	A	44	-32.594	8.711	11.586	1.00	89.75	C
ATOM	323	O	THR	A	44	-31.688	7.094	14.047	1.00	89.75	O
ATOM	324	CG2	THR	A	44	-31.359	8.609	10.688	1.00	89.75	C
ATOM	325	OG1	THR	A	44	-33.656	9.328	10.852	1.00	89.75	O
ATOM	326	N	GLU	A	45	-31.359	5.715	12.234	1.00	90.69	N
ATOM	327	CA	GLU	A	45	-30.203	5.090	12.859	1.00	90.69	C
ATOM	328	C	GLU	A	45	-28.938	5.324	12.039	1.00	90.69	C
ATOM	329	CB	GLU	A	45	-30.438	3.592	13.055	1.00	90.69	C
ATOM	330	O	GLU	A	45	-28.938	5.121	10.820	1.00	90.69	O
ATOM	331	CG	GLU	A	45	-29.328	2.895	13.844	1.00	90.69	C
ATOM	332	CD	GLU	A	45	-29.594	1.410	14.047	1.00	90.69	C
ATOM	333	OE1	GLU	A	45	-28.953	0.583	13.352	1.00	90.69	O
ATOM	334	OE2	GLU	A	45	-30.438	1.071	14.906	1.00	90.69	O
ATOM	335	N	SER	A	46	-27.859	5.691	12.734	1.00	92.94	N
ATOM	336	CA	SER	A	46	-26.625	5.914	12.000	1.00	92.94	C
ATOM	337	C	SER	A	46	-25.438	5.297	12.727	1.00	92.94	C
ATOM	338	CB	SER	A	46	-26.391	7.410	11.789	1.00	92.94	C

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ATOM	339	O	SER A 46	-25.438	5.184	13.953	1.00	92.94	O
ATOM	340	OG	SER A 46	-26.297	8.086	13.039	1.00	92.94	O
ATOM	341	N	SER A 47	-24.500	4.852	11.906	1.00	93.75	N
ATOM	342	CA	SER A 47	-23.250	4.297	12.438	1.00	93.75	C
ATOM	343	C	SER A 47	-22.094	4.523	11.477	1.00	93.75	C
ATOM	344	CB	SER A 47	-23.406	2.801	12.719	1.00	93.75	C
ATOM	345	O	SER A 47	-22.312	4.754	10.281	1.00	93.75	O
ATOM	346	OG	SER A 47	-24.422	2.572	13.688	1.00	93.75	O
ATOM	347	N	SER A 48	-20.922	4.516	12.078	1.00	94.19	N
ATOM	348	CA	SER A 48	-19.703	4.637	11.266	1.00	94.19	C
ATOM	349	C	SER A 48	-18.594	3.744	11.797	1.00	94.19	C
ATOM	350	CB	SER A 48	-19.234	6.090	11.219	1.00	94.19	C
ATOM	351	O	SER A 48	-18.578	3.389	12.977	1.00	94.19	O
ATOM	352	OG	SER A 48	-18.828	6.523	12.508	1.00	94.19	O
ATOM	353	N	LEU A 49	-17.703	3.381	10.852	1.00	93.62	N
ATOM	354	CA	LEU A 49	-16.578	2.521	11.203	1.00	93.62	C
ATOM	355	C	LEU A 49	-15.320	2.920	10.438	1.00	93.62	C
ATOM	356	CB	LEU A 49	-16.922	1.055	10.922	1.00	93.62	C
ATOM	357	O	LEU A 49	-15.367	3.094	9.211	1.00	93.62	O
ATOM	358	CG	LEU A 49	-15.828	0.033	11.250	1.00	93.62	C
ATOM	359	CD1	LEU A 49	-15.594	-0.037	12.750	1.00	93.62	C
ATOM	360	CD2	LEU A 49	-16.203	-1.338	10.695	1.00	93.62	C
ATOM	361	N	GLU A 50	-14.211	3.141	11.227	1.00	93.25	N
ATOM	362	CA	GLU A 50	-12.898	3.365	10.633	1.00	93.25	C
ATOM	363	C	GLU A 50	-12.039	2.105	10.695	1.00	93.25	C
ATOM	364	CB	GLU A 50	-12.180	4.523	11.336	1.00	93.25	C
ATOM	365	O	GLU A 50	-12.000	1.424	11.727	1.00	93.25	O
ATOM	366	CG	GLU A 50	-12.914	5.852	11.234	1.00	93.25	C
ATOM	367	CD	GLU A 50	-12.812	6.488	9.859	1.00	93.25	C
ATOM	368	OE1	GLU A 50	-13.758	7.199	9.445	1.00	93.25	O
ATOM	369	OE2	GLU A 50	-11.781	6.273	9.188	1.00	93.25	O
ATOM	370	N	PHE A 51	-11.406	1.846	9.586	1.00	91.50	N
ATOM	371	CA	PHE A 51	-10.555	0.662	9.531	1.00	91.50	C
ATOM	372	C	PHE A 51	-9.117	1.015	9.875	1.00	91.50	C
ATOM	373	CB	PHE A 51	-10.617	0.018	8.141	1.00	91.50	C
ATOM	374	O	PHE A 51	-8.672	2.145	9.656	1.00	91.50	O
ATOM	375	CG	PHE A 51	-11.969	-0.550	7.793	1.00	91.50	C
ATOM	376	CD1	PHE A 51	-12.188	-1.923	7.809	1.00	91.50	C
ATOM	377	CD2	PHE A 51	-13.023	0.289	7.453	1.00	91.50	C
ATOM	378	CE1	PHE A 51	-13.430	-2.451	7.488	1.00	91.50	C
ATOM	379	CE2	PHE A 51	-14.273	-0.232	7.133	1.00	91.50	C
ATOM	380	CZ	PHE A 51	-14.477	-1.602	7.148	1.00	91.50	C
ATOM	381	N	PRO A 52	-8.445	0.021	10.453	1.00	88.00	N
ATOM	382	CA	PRO A 52	-7.023	0.275	10.688	1.00	88.00	C
ATOM	383	C	PRO A 52	-6.266	0.620	9.406	1.00	88.00	C
ATOM	384	CB	PRO A 52	-6.523	-1.046	11.281	1.00	88.00	C
ATOM	385	O	PRO A 52	-6.523	0.032	8.359	1.00	88.00	O
ATOM	386	CG	PRO A 52	-7.758	-1.745	11.750	1.00	88.00	C
ATOM	387	CD	PRO A 52	-8.922	-1.275	10.922	1.00	88.00	C
ATOM	388	N	LYS A 53	-5.406	1.631	9.602	1.00	91.69	N
ATOM	389	CA	LYS A 53	-4.539	2.014	8.492	1.00	91.69	C
ATOM	390	C	LYS A 53	-3.582	0.883	8.125	1.00	91.69	C
ATOM	391	CB	LYS A 53	-3.748	3.277	8.844	1.00	91.69	C

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ATOM	392	O	LYS A 53	-3.070	0.187	9.008	1.00	91.69	O
ATOM	393	CG	LYS A 53	-4.602	4.531	8.938	1.00	91.69	C
ATOM	394	CD	LYS A 53	-3.750	5.766	9.219	1.00	91.69	C
ATOM	395	CE	LYS A 53	-4.609	7.012	9.391	1.00	91.69	C
ATOM	396	NZ	LYS A 53	-3.781	8.219	9.703	1.00	91.69	N
ATOM	397	N	LYS A 54	-3.322	0.841	6.750	1.00	91.81	N
ATOM	398	CA	LYS A 54	-2.395	-0.192	6.301	1.00	91.81	C
ATOM	399	C	LYS A 54	-1.342	0.386	5.359	1.00	91.81	C
ATOM	400	CB	LYS A 54	-3.150	-1.327	5.605	1.00	91.81	C
ATOM	401	O	LYS A 54	-1.638	1.276	4.559	1.00	91.81	O
ATOM	402	CG	LYS A 54	-4.145	-2.049	6.504	1.00	91.81	C
ATOM	403	CD	LYS A 54	-3.441	-2.986	7.477	1.00	91.81	C
ATOM	404	CE	LYS A 54	-4.438	-3.816	8.273	1.00	91.81	C
ATOM	405	NZ	LYS A 54	-3.775	-4.559	9.391	1.00	91.81	N
ATOM	406	N	THR A 55	-0.152	-0.219	5.609	1.00	94.94	N
ATOM	407	CA	THR A 55	0.955	0.204	4.762	1.00	94.94	C
ATOM	408	C	THR A 55	1.665	-1.005	4.156	1.00	94.94	C
ATOM	409	CB	THR A 55	1.967	1.060	5.543	1.00	94.94	C
ATOM	410	O	THR A 55	1.948	-1.979	4.859	1.00	94.94	O
ATOM	411	CG2	THR A 55	3.115	1.512	4.648	1.00	94.94	C
ATOM	412	OG1	THR A 55	1.302	2.215	6.066	1.00	94.94	O
ATOM	413	N	LYS A 56	1.873	-0.927	2.807	1.00	93.81	N
ATOM	414	CA	LYS A 56	2.635	-1.967	2.121	1.00	93.81	C
ATOM	415	C	LYS A 56	3.789	-1.367	1.324	1.00	93.81	C
ATOM	416	CB	LYS A 56	1.725	-2.777	1.197	1.00	93.81	C
ATOM	417	O	LYS A 56	3.654	-0.290	0.741	1.00	93.81	O
ATOM	418	CG	LYS A 56	0.640	-3.559	1.926	1.00	93.81	C
ATOM	419	CD	LYS A 56	1.206	-4.797	2.609	1.00	93.81	C
ATOM	420	CE	LYS A 56	0.101	-5.672	3.184	1.00	93.81	C
ATOM	421	NZ	LYS A 56	0.652	-6.875	3.875	1.00	93.81	N
ATOM	422	N	ASN A 57	4.879	-2.137	1.352	1.00	96.12	N
ATOM	423	CA	ASN A 57	6.070	-1.688	0.639	1.00	96.12	C
ATOM	424	C	ASN A 57	6.488	-2.686	-0.438	1.00	96.12	C
ATOM	425	CB	ASN A 57	7.223	-1.448	1.616	1.00	96.12	C
ATOM	426	O	ASN A 57	6.461	-3.896	-0.213	1.00	96.12	O
ATOM	427	CG	ASN A 57	6.914	-0.366	2.631	1.00	96.12	C
ATOM	428	ND2	ASN A 57	6.664	-0.770	3.871	1.00	96.12	N
ATOM	429	OD1	ASN A 57	6.895	0.823	2.305	1.00	96.12	O
ATOM	430	N	PHE A 58	6.812	-2.117	-1.561	1.00	95.00	N
ATOM	431	CA	PHE A 58	7.281	-2.943	-2.668	1.00	95.00	C
ATOM	432	C	PHE A 58	8.562	-2.369	-3.266	1.00	95.00	C
ATOM	433	CB	PHE A 58	6.203	-3.061	-3.748	1.00	95.00	C
ATOM	434	O	PHE A 58	8.703	-1.150	-3.393	1.00	95.00	O
ATOM	435	CG	PHE A 58	4.918	-3.674	-3.262	1.00	95.00	C
ATOM	436	CD1	PHE A 58	4.734	-5.051	-3.293	1.00	95.00	C
ATOM	437	CD2	PHE A 58	3.896	-2.875	-2.771	1.00	95.00	C
ATOM	438	CE1	PHE A 58	3.547	-5.621	-2.842	1.00	95.00	C
ATOM	439	CE2	PHE A 58	2.705	-3.438	-2.318	1.00	95.00	C
ATOM	440	CZ	PHE A 58	2.533	-4.812	-2.357	1.00	95.00	C
ATOM	441	N	LYS A 59	9.438	-3.309	-3.486	1.00	95.94	N
ATOM	442	CA	LYS A 59	10.672	-2.932	-4.164	1.00	95.94	C
ATOM	443	C	LYS A 59	10.945	-3.842	-5.355	1.00	95.94	C
ATOM	444	CB	LYS A 59	11.852	-2.973	-3.189	1.00	95.94	C

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ATOM	445	O	LYS A	59	10.875	-5.066	-5.238	1.00	95.94	O
ATOM	446	CG	LYS A	59	13.172	-2.527	-3.799	1.00	95.94	C
ATOM	447	CD	LYS A	59	14.297	-2.545	-2.770	1.00	95.94	C
ATOM	448	CE	LYS A	59	15.617	-2.090	-3.375	1.00	95.94	C
ATOM	449	NZ	LYS A	59	16.703	-2.051	-2.357	1.00	95.94	N
ATOM	450	N	LYS A	60	11.219	-3.156	-6.473	1.00	96.12	N
ATOM	451	CA	LYS A	60	11.492	-3.979	-7.648	1.00	96.12	C
ATOM	452	C	LYS A	60	12.508	-3.303	-8.562	1.00	96.12	C
ATOM	453	CB	LYS A	60	10.203	-4.266	-8.414	1.00	96.12	C
ATOM	454	O	LYS A	60	12.453	-2.092	-8.781	1.00	96.12	O
ATOM	455	CG	LYS A	60	10.367	-5.270	-9.547	1.00	96.12	C
ATOM	456	CD	LYS A	60	10.531	-6.688	-9.016	1.00	96.12	C
ATOM	457	CE	LYS A	60	10.461	-7.719	-10.133	1.00	96.12	C
ATOM	458	NZ	LYS A	60	10.688	-9.102	-9.625	1.00	96.12	N
ATOM	459	N	GLU A	61	13.438	-4.160	-9.133	1.00	95.75	N
ATOM	460	CA	GLU A	61	14.430	-3.719	-10.109	1.00	95.75	C
ATOM	461	C	GLU A	61	14.078	-4.199	-11.516	1.00	95.75	C
ATOM	462	CB	GLU A	61	15.828	-4.211	-9.719	1.00	95.75	C
ATOM	463	O	GLU A	61	13.695	-5.355	-11.703	1.00	95.75	O
ATOM	464	CG	GLU A	61	16.938	-3.723	-10.641	1.00	95.75	C
ATOM	465	CD	GLU A	61	18.328	-4.109	-10.172	1.00	95.75	C
ATOM	466	OE1	GLU A	61	19.312	-3.816	-10.883	1.00	95.75	O
ATOM	467	OE2	GLU A	61	18.422	-4.715	-9.078	1.00	95.75	O
ATOM	468	N	PHE A	62	14.180	-3.240	-12.523	1.00	95.44	N
ATOM	469	CA	PHE A	62	13.867	-3.654	-13.891	1.00	95.44	C
ATOM	470	C	PHE A	62	14.570	-2.754	-14.898	1.00	95.44	C
ATOM	471	CB	PHE A	62	12.359	-3.635	-14.125	1.00	95.44	C
ATOM	472	O	PHE A	62	15.164	-1.742	-14.531	1.00	95.44	O
ATOM	473	CG	PHE A	62	11.727	-2.287	-13.906	1.00	95.44	C
ATOM	474	CD1	PHE A	62	11.422	-1.845	-12.625	1.00	95.44	C
ATOM	475	CD2	PHE A	62	11.438	-1.460	-14.984	1.00	95.44	C
ATOM	476	CE1	PHE A	62	10.836	-0.597	-12.422	1.00	95.44	C
ATOM	477	CE2	PHE A	62	10.852	-0.212	-14.789	1.00	95.44	C
ATOM	478	CZ	PHE A	62	10.555	0.218	-13.500	1.00	95.44	C
ATOM	479	N	LYS A	63	14.523	-3.148	-16.203	1.00	94.62	N
ATOM	480	CA	LYS A	63	15.133	-2.375	-17.281	1.00	94.62	C
ATOM	481	C	LYS A	63	14.195	-1.275	-17.766	1.00	94.62	C
ATOM	482	CB	LYS A	63	15.523	-3.287	-18.438	1.00	94.62	C
ATOM	483	O	LYS A	63	12.977	-1.393	-17.641	1.00	94.62	O
ATOM	484	CG	LYS A	63	16.609	-4.297	-18.094	1.00	94.62	C
ATOM	485	CD	LYS A	63	16.984	-5.137	-19.312	1.00	94.62	C
ATOM	486	CE	LYS A	63	18.047	-6.184	-18.953	1.00	94.62	C
ATOM	487	NZ	LYS A	63	18.422	-7.008	-20.141	1.00	94.62	N
ATOM	488	N	TYR A	64	14.836	-0.274	-18.344	1.00	93.31	N
ATOM	489	CA	TYR A	64	14.031	0.756	-19.000	1.00	93.31	C
ATOM	490	C	TYR A	64	13.164	0.158	-20.094	1.00	93.31	C
ATOM	491	CB	TYR A	64	14.930	1.852	-19.578	1.00	93.31	C
ATOM	492	O	TYR A	64	13.609	-0.727	-20.828	1.00	93.31	O
ATOM	493	CG	TYR A	64	15.500	2.785	-18.531	1.00	93.31	C
ATOM	494	CD1	TYR A	64	14.742	3.830	-18.016	1.00	93.31	C
ATOM	495	CD2	TYR A	64	16.797	2.623	-18.078	1.00	93.31	C
ATOM	496	CE1	TYR A	64	15.258	4.695	-17.062	1.00	93.31	C
ATOM	497	CE2	TYR A	64	17.328	3.482	-17.109	1.00	93.31	C

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ATOM	498	OH TYR A 64	17.078	5.363	-15.664	1.00	93.31	O
ATOM	499	CZ TYR A 64	16.562	4.512	-16.609	1.00	93.31	C
ATOM	500	N GLY A 65	11.891	0.562	-20.156	1.00	93.56	N
ATOM	501	CA GLY A 65	10.977	0.099	-21.188	1.00	93.56	C
ATOM	502	C GLY A 65	10.125	-1.074	-20.750	1.00	93.56	C
ATOM	503	O GLY A 65	9.102	-1.371	-21.375	1.00	93.56	O
ATOM	504	N GLU A 66	10.562	-1.738	-19.703	1.00	95.38	N
ATOM	505	CA GLU A 66	9.797	-2.844	-19.141	1.00	95.38	C
ATOM	506	C GLU A 66	8.641	-2.336	-18.281	1.00	95.38	C
ATOM	507	CB GLU A 66	10.695	-3.766	-18.312	1.00	95.38	C
ATOM	508	O GLU A 66	8.750	-1.294	-17.641	1.00	95.38	O
ATOM	509	CG GLU A 66	10.008	-5.039	-17.844	1.00	95.38	C
ATOM	510	CD GLU A 66	10.898	-5.914	-16.984	1.00	95.38	C
ATOM	511	OE1 GLU A 66	10.375	-6.582	-16.062	1.00	95.38	O
ATOM	512	OE2 GLU A 66	12.125	-5.934	-17.219	1.00	95.38	O
ATOM	513	N GLU A 67	7.461	-3.025	-18.438	1.00	95.75	N
ATOM	514	CA GLU A 67	6.316	-2.730	-17.578	1.00	95.75	C
ATOM	515	C GLU A 67	6.223	-3.719	-16.422	1.00	95.75	C
ATOM	516	CB GLU A 67	5.020	-2.752	-18.391	1.00	95.75	C
ATOM	517	O GLU A 67	6.316	-4.930	-16.625	1.00	95.75	O
ATOM	518	CG GLU A 67	3.789	-2.334	-17.594	1.00	95.75	C
ATOM	519	CD GLU A 67	2.518	-2.309	-18.438	1.00	95.75	C
ATOM	520	OE1 GLU A 67	1.943	-3.391	-18.688	1.00	95.75	O
ATOM	521	OE2 GLU A 67	2.092	-1.200	-18.828	1.00	95.75	O
ATOM	522	N ILE A 68	6.070	-3.119	-15.266	1.00	93.88	N
ATOM	523	CA ILE A 68	5.891	-4.004	-14.125	1.00	93.88	C
ATOM	524	C ILE A 68	4.469	-3.861	-13.578	1.00	93.88	C
ATOM	525	CB ILE A 68	6.918	-3.703	-13.008	1.00	93.88	C
ATOM	526	O ILE A 68	3.857	-2.797	-13.695	1.00	93.88	O
ATOM	527	CG1 ILE A 68	6.738	-2.271	-12.492	1.00	93.88	C
ATOM	528	CG2 ILE A 68	8.344	-3.924	-13.523	1.00	93.88	C
ATOM	529	CD1 ILE A 68	7.375	-2.025	-11.125	1.00	93.88	C
ATOM	530	N GLU A 69	3.992	-4.969	-13.086	1.00	95.31	N
ATOM	531	CA GLU A 69	2.641	-5.020	-12.531	1.00	95.31	C
ATOM	532	C GLU A 69	2.646	-5.570	-11.109	1.00	95.31	C
ATOM	533	CB GLU A 69	1.730	-5.875	-13.422	1.00	95.31	C
ATOM	534	O GLU A 69	3.301	-6.574	-10.828	1.00	95.31	O
ATOM	535	CG GLU A 69	0.276	-5.891	-12.977	1.00	95.31	C
ATOM	536	CD GLU A 69	-0.625	-6.695	-13.898	1.00	95.31	C
ATOM	537	OE1 GLU A 69	-1.865	-6.645	-13.734	1.00	95.31	O
ATOM	538	OE2 GLU A 69	-0.086	-7.391	-14.789	1.00	95.31	O
ATOM	539	N ILE A 70	1.989	-4.812	-10.227	1.00	93.50	N
ATOM	540	CA ILE A 70	1.801	-5.250	-8.852	1.00	93.50	C
ATOM	541	C ILE A 70	0.314	-5.457	-8.570	1.00	93.50	C
ATOM	542	CB ILE A 70	2.396	-4.230	-7.848	1.00	93.50	C
ATOM	543	O ILE A 70	-0.498	-4.555	-8.797	1.00	93.50	O
ATOM	544	CG1 ILE A 70	3.887	-4.016	-8.133	1.00	93.50	C
ATOM	545	CG2 ILE A 70	2.172	-4.699	-6.406	1.00	93.50	C
ATOM	546	CD1 ILE A 70	4.473	-2.785	-7.453	1.00	93.50	C
ATOM	547	N ASN A 71	-0.002	-6.711	-8.203	1.00	94.31	N
ATOM	548	CA ASN A 71	-1.377	-7.039	-7.840	1.00	94.31	C
ATOM	549	C ASN A 71	-1.496	-7.406	-6.363	1.00	94.31	C
ATOM	550	CB ASN A 71	-1.907	-8.180	-8.719	1.00	94.31	C

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ATOM	551	O	ASN A 71	-0.796	-8.297	-5.883	1.00	94.31	O
ATOM	552	CG	ASN A 71	-2.014	-7.789	-10.180	1.00	94.31	C
ATOM	553	ND2	ASN A 71	-1.172	-8.383	-11.016	1.00	94.31	N
ATOM	554	OD1	ASN A 71	-2.846	-6.957	-10.555	1.00	94.31	O
ATOM	555	N	GLU A 72	-2.404	-6.680	-5.785	1.00	91.56	N
ATOM	556	CA	GLU A 72	-2.656	-6.988	-4.379	1.00	91.56	C
ATOM	557	C	GLU A 72	-4.145	-7.215	-4.121	1.00	91.56	C
ATOM	558	CB	GLU A 72	-2.127	-5.871	-3.479	1.00	91.56	C
ATOM	559	O	GLU A 72	-4.973	-6.371	-4.465	1.00	91.56	O
ATOM	560	CG	GLU A 72	-2.141	-6.215	-1.996	1.00	91.56	C
ATOM	561	CD	GLU A 72	-0.886	-6.938	-1.537	1.00	91.56	C
ATOM	562	OE1	GLU A 72	-0.737	-7.184	-0.318	1.00	91.56	O
ATOM	563	OE2	GLU A 72	-0.044	-7.266	-2.402	1.00	91.56	O
ATOM	564	N	ASN A 73	-4.414	-8.352	-3.641	1.00	90.88	N
ATOM	565	CA	ASN A 73	-5.773	-8.719	-3.246	1.00	90.88	C
ATOM	566	C	ASN A 73	-5.824	-9.211	-1.804	1.00	90.88	C
ATOM	567	CB	ASN A 73	-6.344	-9.773	-4.191	1.00	90.88	C
ATOM	568	O	ASN A 73	-5.152	-10.180	-1.451	1.00	90.88	O
ATOM	569	CG	ASN A 73	-6.500	-9.266	-5.609	1.00	90.88	C
ATOM	570	ND2	ASN A 73	-5.910	-9.977	-6.562	1.00	90.88	N
ATOM	571	OD1	ASN A 73	-7.145	-8.242	-5.852	1.00	90.88	O
ATOM	572	N	LEU A 74	-6.645	-8.547	-1.030	1.00	92.12	N
ATOM	573	CA	LEU A 74	-6.652	-8.922	0.378	1.00	92.12	C
ATOM	574	C	LEU A 74	-8.078	-8.984	0.915	1.00	92.12	C
ATOM	575	CB	LEU A 74	-5.828	-7.934	1.204	1.00	92.12	C
ATOM	576	O	LEU A 74	-8.945	-8.227	0.476	1.00	92.12	O
ATOM	577	CG	LEU A 74	-4.309	-8.023	1.052	1.00	92.12	C
ATOM	578	CD1	LEU A 74	-3.637	-6.820	1.704	1.00	92.12	C
ATOM	579	CD2	LEU A 74	-3.787	-9.328	1.652	1.00	92.12	C
ATOM	580	N	GLU A 75	-8.273	-9.914	1.645	1.00	92.50	N
ATOM	581	CA	GLU A 75	-9.516	-10.078	2.395	1.00	92.50	C
ATOM	582	C	GLU A 75	-9.242	-10.188	3.893	1.00	92.50	C
ATOM	583	CB	GLU A 75	-10.273	-11.312	1.907	1.00	92.50	C
ATOM	584	O	GLU A 75	-8.414	-10.984	4.324	1.00	92.50	O
ATOM	585	CG	GLU A 75	-11.609	-11.523	2.605	1.00	92.50	C
ATOM	586	CD	GLU A 75	-12.375	-12.734	2.094	1.00	92.50	C
ATOM	587	OE1	GLU A 75	-12.461	-13.750	2.826	1.00	92.50	O
ATOM	588	OE2	GLU A 75	-12.883	-12.672	0.952	1.00	92.50	O
ATOM	589	N	GLU A 76	-10.047	-9.422	4.629	1.00	90.62	N
ATOM	590	CA	GLU A 76	-9.852	-9.414	6.078	1.00	90.62	C
ATOM	591	C	GLU A 76	-11.188	-9.484	6.812	1.00	90.62	C
ATOM	592	CB	GLU A 76	-9.086	-8.156	6.508	1.00	90.62	C
ATOM	593	O	GLU A 76	-12.203	-8.992	6.316	1.00	90.62	O
ATOM	594	CG	GLU A 76	-7.688	-8.062	5.906	1.00	90.62	C
ATOM	595	CD	GLU A 76	-6.945	-6.801	6.328	1.00	90.62	C
ATOM	596	OE1	GLU A 76	-6.062	-6.887	7.215	1.00	90.62	O
ATOM	597	OE2	GLU A 76	-7.246	-5.723	5.770	1.00	90.62	O
ATOM	598	N	SER A 77	-11.078	-10.125	7.949	1.00	93.69	N
ATOM	599	CA	SER A 77	-12.258	-10.203	8.805	1.00	93.69	C
ATOM	600	C	SER A 77	-11.922	-9.859	10.250	1.00	93.69	C
ATOM	601	CB	SER A 77	-12.883	-11.594	8.727	1.00	93.69	C
ATOM	602	O	SER A 77	-10.852	-10.234	10.750	1.00	93.69	O
ATOM	603	OG	SER A 77	-13.211	-11.930	7.391	1.00	93.69	O

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ATOM	604	N	PHE A 78	-12.711	-9.062	10.844	1.00	92.31	N
ATOM	605	CA	PHE A 78	-12.477	-8.758	12.250	1.00	92.31	C
ATOM	606	C	PHE A 78	-13.773	-8.359	12.945	1.00	92.31	C
ATOM	607	CB	PHE A 78	-11.438	-7.645	12.398	1.00	92.31	C
ATOM	608	O	PHE A 78	-14.781	-8.086	12.281	1.00	92.31	O
ATOM	609	CG	PHE A 78	-11.789	-6.383	11.656	1.00	92.31	C
ATOM	610	CD1	PHE A 78	-11.430	-6.223	10.320	1.00	92.31	C
ATOM	611	CD2	PHE A 78	-12.492	-5.363	12.281	1.00	92.31	C
ATOM	612	CE1	PHE A 78	-11.750	-5.059	9.633	1.00	92.31	C
ATOM	613	CE2	PHE A 78	-12.820	-4.195	11.602	1.00	92.31	C
ATOM	614	CZ	PHE A 78	-12.445	-4.047	10.273	1.00	92.31	C
ATOM	615	N	GLU A 79	-13.734	-8.430	14.219	1.00	94.31	N
ATOM	616	CA	GLU A 79	-14.859	-7.980	15.031	1.00	94.31	C
ATOM	617	C	GLU A 79	-14.633	-6.562	15.547	1.00	94.31	C
ATOM	618	CB	GLU A 79	-15.086	-8.938	16.203	1.00	94.31	C
ATOM	619	O	GLU A 79	-13.508	-6.180	15.859	1.00	94.31	O
ATOM	620	CG	GLU A 79	-15.414	-10.367	15.773	1.00	94.31	C
ATOM	621	CD	GLU A 79	-15.867	-11.250	16.922	1.00	94.31	C
ATOM	622	OE1	GLU A 79	-16.531	-12.273	16.672	1.00	94.31	O
ATOM	623	OE2	GLU A 79	-15.555	-10.906	18.094	1.00	94.31	O
ATOM	624	N	ALA A 80	-15.820	-5.805	15.523	1.00	91.69	N
ATOM	625	CA	ALA A 80	-15.727	-4.422	15.984	1.00	91.69	C
ATOM	626	C	ALA A 80	-16.969	-4.012	16.766	1.00	91.69	C
ATOM	627	CB	ALA A 80	-15.508	-3.482	14.797	1.00	91.69	C
ATOM	628	O	ALA A 80	-18.016	-4.652	16.641	1.00	91.69	O
ATOM	629	N	THR A 81	-16.719	-3.092	17.641	1.00	93.31	N
ATOM	630	CA	THR A 81	-17.828	-2.459	18.344	1.00	93.31	C
ATOM	631	C	THR A 81	-18.141	-1.084	17.766	1.00	93.31	C
ATOM	632	CB	THR A 81	-17.531	-2.320	19.859	1.00	93.31	C
ATOM	633	O	THR A 81	-17.234	-0.250	17.625	1.00	93.31	O
ATOM	634	CG2	THR A 81	-18.750	-1.773	20.609	1.00	93.31	C
ATOM	635	OG1	THR A 81	-17.188	-3.605	20.391	1.00	93.31	O
ATOM	636	N	VAL A 82	-19.422	-0.876	17.344	1.00	92.31	N
ATOM	637	CA	VAL A 82	-19.750	0.402	16.734	1.00	92.31	C
ATOM	638	C	VAL A 82	-20.812	1.121	17.562	1.00	92.31	C
ATOM	639	CB	VAL A 82	-20.266	0.216	15.273	1.00	92.31	C
ATOM	640	O	VAL A 82	-21.641	0.479	18.203	1.00	92.31	O
ATOM	641	CG1	VAL A 82	-19.156	-0.351	14.391	1.00	92.31	C
ATOM	642	CG2	VAL A 82	-21.484	-0.693	15.250	1.00	92.31	C
ATOM	643	N	LYS A 83	-20.625	2.336	17.609	1.00	93.50	N
ATOM	644	CA	LYS A 83	-21.625	3.182	18.250	1.00	93.50	C
ATOM	645	C	LYS A 83	-22.797	3.447	17.312	1.00	93.50	C
ATOM	646	CB	LYS A 83	-21.016	4.504	18.703	1.00	93.50	C
ATOM	647	O	LYS A 83	-22.609	3.885	16.172	1.00	93.50	O
ATOM	648	CG	LYS A 83	-21.906	5.336	19.609	1.00	93.50	C
ATOM	649	CD	LYS A 83	-21.203	6.594	20.094	1.00	93.50	C
ATOM	650	CE	LYS A 83	-22.125	7.441	20.969	1.00	93.50	C
ATOM	651	NZ	LYS A 83	-21.438	8.672	21.469	1.00	93.50	N
ATOM	652	N	VAL A 84	-23.969	3.146	17.812	1.00	90.69	N
ATOM	653	CA	VAL A 84	-25.188	3.359	17.031	1.00	90.69	C
ATOM	654	C	VAL A 84	-26.000	4.488	17.656	1.00	90.69	C
ATOM	655	CB	VAL A 84	-26.031	2.072	16.953	1.00	90.69	C
ATOM	656	O	VAL A 84	-26.297	4.473	18.859	1.00	90.69	O

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ATOM	657	CG1 VAL A 84	-27.312	2.318	16.156	1.00	90.69	C
ATOM	658	CG2 VAL A 84	-25.234	0.936	16.328	1.00	90.69	C
ATOM	659	N THR A 85	-26.281	5.457	16.875	1.00	92.75	N
ATOM	660	CA THR A 85	-27.109	6.570	17.312	1.00	92.75	C
ATOM	661	C THR A 85	-28.500	6.480	16.688	1.00	92.75	C
ATOM	662	CB THR A 85	-26.469	7.926	16.969	1.00	92.75	C
ATOM	663	O THR A 85	-28.625	6.461	15.469	1.00	92.75	O
ATOM	664	CG2 THR A 85	-27.312	9.086	17.484	1.00	92.75	C
ATOM	665	OG1 THR A 85	-25.156	7.996	17.547	1.00	92.75	O
ATOM	666	N THR A 86	-29.453	6.355	17.531	1.00	91.81	N
ATOM	667	CA THR A 86	-30.844	6.328	17.094	1.00	91.81	C
ATOM	668	C THR A 86	-31.562	7.625	17.453	1.00	91.81	C
ATOM	669	CB THR A 86	-31.594	5.133	17.703	1.00	91.81	C
ATOM	670	O THR A 86	-31.609	8.000	18.625	1.00	91.81	O
ATOM	671	CG2 THR A 86	-33.000	5.027	17.125	1.00	91.81	C
ATOM	672	OG1 THR A 86	-30.891	3.924	17.406	1.00	91.81	O
ATOM	673	N LYS A 87	-32.031	8.250	16.406	1.00	92.00	N
ATOM	674	CA LYS A 87	-32.781	9.508	16.625	1.00	92.00	C
ATOM	675	C LYS A 87	-34.250	9.328	16.359	1.00	92.00	C
ATOM	676	CB LYS A 87	-32.219	10.609	15.719	1.00	92.00	C
ATOM	677	O LYS A 87	-34.656	8.883	15.273	1.00	92.00	O
ATOM	678	CG LYS A 87	-30.812	11.070	16.109	1.00	92.00	C
ATOM	679	CD LYS A 87	-30.359	12.250	15.258	1.00	92.00	C
ATOM	680	CE LYS A 87	-28.938	12.680	15.617	1.00	92.00	C
ATOM	681	NZ LYS A 87	-28.484	13.836	14.781	1.00	92.00	N
ATOM	682	N THR A 88	-35.031	9.594	17.453	1.00	90.38	N
ATOM	683	CA THR A 88	-36.500	9.703	17.344	1.00	90.38	C
ATOM	684	C THR A 88	-36.938	11.148	17.547	1.00	90.38	C
ATOM	685	CB THR A 88	-37.219	8.797	18.359	1.00	90.38	C
ATOM	686	O THR A 88	-36.156	12.000	17.938	1.00	90.38	O
ATOM	687	CG2 THR A 88	-36.812	7.336	18.172	1.00	90.38	C
ATOM	688	OG1 THR A 88	-36.875	9.211	19.688	1.00	90.38	O
ATOM	689	N PRO A 89	-38.281	11.453	17.188	1.00	87.69	N
ATOM	690	CA PRO A 89	-38.750	12.820	17.422	1.00	87.69	C
ATOM	691	C PRO A 89	-38.656	13.242	18.875	1.00	87.69	C
ATOM	692	CB PRO A 89	-40.219	12.773	16.953	1.00	87.69	C
ATOM	693	O PRO A 89	-38.500	14.430	19.172	1.00	87.69	O
ATOM	694	CG PRO A 89	-40.281	11.641	15.984	1.00	87.69	C
ATOM	695	CD PRO A 89	-39.281	10.602	16.406	1.00	87.69	C
ATOM	696	N THR A 90	-38.625	12.312	19.812	1.00	90.12	N
ATOM	697	CA THR A 90	-38.719	12.656	21.234	1.00	90.12	C
ATOM	698	C THR A 90	-37.375	12.500	21.922	1.00	90.12	C
ATOM	699	CB THR A 90	-39.750	11.773	21.953	1.00	90.12	C
ATOM	700	O THR A 90	-37.094	13.164	22.922	1.00	90.12	O
ATOM	701	CG2 THR A 90	-41.156	12.062	21.422	1.00	90.12	C
ATOM	702	OG1 THR A 90	-39.438	10.398	21.719	1.00	90.12	O
ATOM	703	N GLU A 91	-36.438	11.727	21.281	1.00	94.12	N
ATOM	704	CA GLU A 91	-35.188	11.477	22.016	1.00	94.12	C
ATOM	705	C GLU A 91	-34.094	10.945	21.078	1.00	94.12	C
ATOM	706	CB GLU A 91	-35.438	10.492	23.156	1.00	94.12	C
ATOM	707	O GLU A 91	-34.375	10.555	19.953	1.00	94.12	O
ATOM	708	CG GLU A 91	-35.844	9.102	22.688	1.00	94.12	C
ATOM	709	CD GLU A 91	-36.094	8.141	23.844	1.00	94.12	C

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ATOM	710	OE1 GLU A 91	-36.906	7.184	23.672	1.00	94.12	O
ATOM	711	OE2 GLU A 91	-35.500	8.344	24.922	1.00	94.12	O
ATOM	712	N THR A 92	-32.750	11.000	21.594	1.00	94.38	N
ATOM	713	CA THR A 92	-31.594	10.359	20.984	1.00	94.38	C
ATOM	714	C THR A 92	-31.031	9.281	21.891	1.00	94.38	C
ATOM	715	CB THR A 92	-30.500	11.391	20.656	1.00	94.38	C
ATOM	716	O THR A 92	-30.750	9.539	23.078	1.00	94.38	O
ATOM	717	CG2 THR A 92	-29.297	10.727	19.984	1.00	94.38	C
ATOM	718	OG1 THR A 92	-31.031	12.391	19.781	1.00	94.38	O
ATOM	719	N ILE A 93	-30.938	8.062	21.328	1.00	93.25	N
ATOM	720	CA ILE A 93	-30.375	6.953	22.094	1.00	93.25	C
ATOM	721	C ILE A 93	-29.047	6.508	21.453	1.00	93.25	C
ATOM	722	CB ILE A 93	-31.359	5.770	22.172	1.00	93.25	C
ATOM	723	O ILE A 93	-28.953	6.352	20.234	1.00	93.25	O
ATOM	724	CG1 ILE A 93	-32.688	6.215	22.797	1.00	93.25	C
ATOM	725	CG2 ILE A 93	-30.734	4.605	22.953	1.00	93.25	C
ATOM	726	CD1 ILE A 93	-33.812	5.230	22.594	1.00	93.25	C
ATOM	727	N GLU A 94	-28.031	6.309	22.312	1.00	95.38	N
ATOM	728	CA GLU A 94	-26.734	5.801	21.875	1.00	95.38	C
ATOM	729	C GLU A 94	-26.438	4.438	22.484	1.00	95.38	C
ATOM	730	CB GLU A 94	-25.609	6.789	22.234	1.00	95.38	C
ATOM	731	O GLU A 94	-26.594	4.246	23.688	1.00	95.38	O
ATOM	732	CG GLU A 94	-25.750	8.141	21.531	1.00	95.38	C
ATOM	733	CD GLU A 94	-24.562	9.062	21.797	1.00	95.38	C
ATOM	734	OE1 GLU A 94	-24.375	10.031	21.031	1.00	95.38	O
ATOM	735	OE2 GLU A 94	-23.828	8.812	22.781	1.00	95.38	O
ATOM	736	N GLU A 95	-26.141	3.525	21.688	1.00	93.69	N
ATOM	737	CA GLU A 95	-25.812	2.189	22.172	1.00	93.69	C
ATOM	738	C GLU A 95	-24.625	1.599	21.406	1.00	93.69	C
ATOM	739	CB GLU A 95	-27.031	1.264	22.078	1.00	93.69	C
ATOM	740	O GLU A 95	-24.344	2.018	20.281	1.00	93.69	O
ATOM	741	CG GLU A 95	-27.484	1.015	20.641	1.00	93.69	C
ATOM	742	CD GLU A 95	-28.734	0.145	20.562	1.00	93.69	C
ATOM	743	OE1 GLU A 95	-29.500	0.288	19.578	1.00	93.69	O
ATOM	744	OE2 GLU A 95	-28.938	-0.685	21.469	1.00	93.69	O
ATOM	745	N GLU A 96	-23.938	0.677	22.000	1.00	94.75	N
ATOM	746	CA GLU A 96	-22.828	-0.033	21.359	1.00	94.75	C
ATOM	747	C GLU A 96	-23.281	-1.405	20.859	1.00	94.75	C
ATOM	748	CB GLU A 96	-21.656	-0.181	22.312	1.00	94.75	C
ATOM	749	O GLU A 96	-24.000	-2.121	21.547	1.00	94.75	O
ATOM	750	CG GLU A 96	-21.016	1.143	22.719	1.00	94.75	C
ATOM	751	CD GLU A 96	-19.766	0.975	23.562	1.00	94.75	C
ATOM	752	OE1 GLU A 96	-18.953	1.930	23.656	1.00	94.75	O
ATOM	753	OE2 GLU A 96	-19.578	-0.122	24.141	1.00	94.75	O
ATOM	754	N ARG A 97	-22.906	-1.693	19.656	1.00	92.00	N
ATOM	755	CA ARG A 97	-23.250	-2.988	19.078	1.00	92.00	C
ATOM	756	C ARG A 97	-22.000	-3.672	18.516	1.00	92.00	C
ATOM	757	CB ARG A 97	-24.297	-2.824	17.969	1.00	92.00	C
ATOM	758	O ARG A 97	-21.094	-3.006	18.016	1.00	92.00	O
ATOM	759	CG ARG A 97	-25.656	-2.402	18.484	1.00	92.00	C
ATOM	760	CD ARG A 97	-26.703	-2.389	17.359	1.00	92.00	C
ATOM	761	NE ARG A 97	-27.984	-1.885	17.828	1.00	92.00	N
ATOM	762	NH1 ARG A 97	-29.062	-2.131	15.797	1.00	92.00	N

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ATOM	763	NH2 ARG A 97	-30.203	-1.301	17.609	1.00	92.00	N
ATOM	764	CZ ARG A 97	-29.078	-1.772	17.078	1.00	92.00	C
ATOM	765	N GLU A 98	-21.969	-4.965	18.719	1.00	95.00	N
ATOM	766	CA GLU A 98	-20.891	-5.746	18.141	1.00	95.00	C
ATOM	767	C GLU A 98	-21.203	-6.160	16.719	1.00	95.00	C
ATOM	768	CB GLU A 98	-20.594	-6.984	19.000	1.00	95.00	C
ATOM	769	O GLU A 98	-22.312	-6.625	16.422	1.00	95.00	O
ATOM	770	CG GLU A 98	-20.047	-6.664	20.391	1.00	95.00	C
ATOM	771	CD GLU A 98	-19.578	-7.895	21.141	1.00	95.00	C
ATOM	772	OE1 GLU A 98	-18.391	-7.926	21.562	1.00	95.00	O
ATOM	773	OE2 GLU A 98	-20.391	-8.836	21.312	1.00	95.00	O
ATOM	774	N VAL A 99	-20.219	-5.961	15.805	1.00	93.88	N
ATOM	775	CA VAL A 99	-20.406	-6.328	14.406	1.00	93.88	C
ATOM	776	C VAL A 99	-19.234	-7.168	13.922	1.00	93.88	C
ATOM	777	CB VAL A 99	-20.578	-5.078	13.508	1.00	93.88	C
ATOM	778	O VAL A 99	-18.125	-7.078	14.469	1.00	93.88	O
ATOM	779	CG1 VAL A 99	-21.844	-4.305	13.898	1.00	93.88	C
ATOM	780	CG2 VAL A 99	-19.344	-4.184	13.602	1.00	93.88	C
ATOM	781	N SER A 100	-19.578	-8.047	13.039	1.00	94.38	N
ATOM	782	CA SER A 100	-18.547	-8.742	12.281	1.00	94.38	C
ATOM	783	C SER A 100	-18.297	-8.062	10.938	1.00	94.38	C
ATOM	784	CB SER A 100	-18.922	-10.203	12.062	1.00	94.38	C
ATOM	785	O SER A 100	-19.234	-7.797	10.188	1.00	94.38	O
ATOM	786	OG SER A 100	-17.875	-10.914	11.445	1.00	94.38	O
ATOM	787	N VAL A 101	-17.031	-7.770	10.672	1.00	94.00	N
ATOM	788	CA VAL A 101	-16.672	-6.996	9.484	1.00	94.00	C
ATOM	789	C VAL A 101	-15.789	-7.832	8.562	1.00	94.00	C
ATOM	790	CB VAL A 101	-15.977	-5.672	9.852	1.00	94.00	C
ATOM	791	O VAL A 101	-14.828	-8.453	9.023	1.00	94.00	O
ATOM	792	CG1 VAL A 101	-15.633	-4.875	8.594	1.00	94.00	C
ATOM	793	CG2 VAL A 101	-16.859	-4.844	10.789	1.00	94.00	C
ATOM	794	N LYS A 102	-16.234	-7.863	7.332	1.00	94.75	N
ATOM	795	CA LYS A 102	-15.398	-8.406	6.266	1.00	94.75	C
ATOM	796	C LYS A 102	-15.031	-7.336	5.250	1.00	94.75	C
ATOM	797	CB LYS A 102	-16.109	-9.570	5.570	1.00	94.75	C
ATOM	798	O LYS A 102	-15.906	-6.746	4.613	1.00	94.75	O
ATOM	799	CG LYS A 102	-15.227	-10.367	4.625	1.00	94.75	C
ATOM	800	CD LYS A 102	-15.961	-11.555	4.031	1.00	94.75	C
ATOM	801	CE LYS A 102	-15.070	-12.352	3.084	1.00	94.75	C
ATOM	802	NZ LYS A 102	-15.773	-13.555	2.543	1.00	94.75	N
ATOM	803	N PHE A 103	-13.719	-7.043	5.121	1.00	93.69	N
ATOM	804	CA PHE A 103	-13.172	-6.016	4.242	1.00	93.69	C
ATOM	805	C PHE A 103	-12.344	-6.641	3.129	1.00	93.69	C
ATOM	806	CB PHE A 103	-12.320	-5.023	5.039	1.00	93.69	C
ATOM	807	O PHE A 103	-11.320	-7.285	3.393	1.00	93.69	O
ATOM	808	CG PHE A 103	-11.695	-3.945	4.195	1.00	93.69	C
ATOM	809	CD1 PHE A 103	-10.398	-3.514	4.441	1.00	93.69	C
ATOM	810	CD2 PHE A 103	-12.406	-3.363	3.152	1.00	93.69	C
ATOM	811	CE1 PHE A 103	-9.812	-2.516	3.662	1.00	93.69	C
ATOM	812	CE2 PHE A 103	-11.828	-2.367	2.369	1.00	93.69	C
ATOM	813	CZ PHE A 103	-10.539	-1.943	2.627	1.00	93.69	C
ATOM	814	N LYS A 104	-12.844	-6.488	1.896	1.00	94.12	N
ATOM	815	CA LYS A 104	-12.141	-6.988	0.715	1.00	94.12	C

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ATOM	816	C	LYS A 104	-11.688	-5.840	-0.182	1.00	94.12	C
ATOM	817	CB	LYS A 104	-13.039	-7.945	-0.073	1.00	94.12	C
ATOM	818	O	LYS A 104	-12.469	-4.938	-0.486	1.00	94.12	O
ATOM	819	CG	LYS A 104	-13.328	-9.250	0.651	1.00	94.12	C
ATOM	820	CD	LYS A 104	-14.133	-10.203	-0.223	1.00	94.12	C
ATOM	821	CE	LYS A 104	-14.477	-11.492	0.520	1.00	94.12	C
ATOM	822	NZ	LYS A 104	-15.297	-12.414	-0.322	1.00	94.12	N
ATOM	823	N	TYR A 105	-10.359	-5.848	-0.521	1.00	93.06	N
ATOM	824	CA	TYR A 105	-9.914	-4.832	-1.465	1.00	93.06	C
ATOM	825	C	TYR A 105	-8.922	-5.414	-2.467	1.00	93.06	C
ATOM	826	CB	TYR A 105	-9.273	-3.654	-0.724	1.00	93.06	C
ATOM	827	O	TYR A 105	-8.297	-6.441	-2.201	1.00	93.06	O
ATOM	828	CG	TYR A 105	-8.031	-4.027	0.046	1.00	93.06	C
ATOM	829	CD1	TYR A 105	-8.102	-4.441	1.373	1.00	93.06	C
ATOM	830	CD2	TYR A 105	-6.773	-3.963	-0.551	1.00	93.06	C
ATOM	831	CE1	TYR A 105	-6.961	-4.785	2.088	1.00	93.06	C
ATOM	832	CE2	TYR A 105	-5.625	-4.301	0.154	1.00	93.06	C
ATOM	833	OH	TYR A 105	-4.594	-5.051	2.172	1.00	93.06	O
ATOM	834	CZ	TYR A 105	-5.727	-4.711	1.471	1.00	93.06	C
ATOM	835	N	SER A 106	-8.891	-4.801	-3.627	1.00	94.31	N
ATOM	836	CA	SER A 106	-7.988	-5.176	-4.715	1.00	94.31	C
ATOM	837	C	SER A 106	-7.277	-3.955	-5.285	1.00	94.31	C
ATOM	838	CB	SER A 106	-8.758	-5.895	-5.824	1.00	94.31	C
ATOM	839	O	SER A 106	-7.914	-2.947	-5.598	1.00	94.31	O
ATOM	840	OG	SER A 106	-7.883	-6.289	-6.867	1.00	94.31	O
ATOM	841	N	ILE A 107	-5.977	-4.047	-5.402	1.00	95.19	N
ATOM	842	CA	ILE A 107	-5.156	-2.967	-5.945	1.00	95.19	C
ATOM	843	C	ILE A 107	-4.281	-3.506	-7.074	1.00	95.19	C
ATOM	844	CB	ILE A 107	-4.285	-2.314	-4.852	1.00	95.19	C
ATOM	845	O	ILE A 107	-3.639	-4.547	-6.926	1.00	95.19	O
ATOM	846	CG1	ILE A 107	-5.160	-1.796	-3.707	1.00	95.19	C
ATOM	847	CG2	ILE A 107	-3.432	-1.188	-5.441	1.00	95.19	C
ATOM	848	CD1	ILE A 107	-4.395	-1.495	-2.426	1.00	95.19	C
ATOM	849	N	ASN A 108	-4.340	-2.818	-8.172	1.00	96.56	N
ATOM	850	CA	ASN A 108	-3.479	-3.113	-9.312	1.00	96.56	C
ATOM	851	C	ASN A 108	-2.656	-1.895	-9.719	1.00	96.56	C
ATOM	852	CB	ASN A 108	-4.305	-3.619	-10.492	1.00	96.56	C
ATOM	853	O	ASN A 108	-3.213	-0.840	-10.031	1.00	96.56	O
ATOM	854	CG	ASN A 108	-3.447	-4.031	-11.672	1.00	96.56	C
ATOM	855	ND2	ASN A 108	-2.928	-5.254	-11.633	1.00	96.56	N
ATOM	856	OD1	ASN A 108	-3.252	-3.260	-12.617	1.00	96.56	O
ATOM	857	N	ILE A 109	-1.365	-2.102	-9.719	1.00	96.25	N
ATOM	858	CA	ILE A 109	-0.454	-1.019	-10.070	1.00	96.25	C
ATOM	859	C	ILE A 109	0.415	-1.437	-11.250	1.00	96.25	C
ATOM	860	CB	ILE A 109	0.433	-0.617	-8.867	1.00	96.25	C
ATOM	861	O	ILE A 109	1.032	-2.504	-11.234	1.00	96.25	O
ATOM	862	CG1	ILE A 109	-0.436	-0.275	-7.652	1.00	96.25	C
ATOM	863	CG2	ILE A 109	1.343	0.559	-9.242	1.00	96.25	C
ATOM	864	CD1	ILE A 109	0.335	-0.194	-6.344	1.00	96.25	C
ATOM	865	N	LYS A 110	0.379	-0.577	-12.266	1.00	96.56	N
ATOM	866	CA	LYS A 110	1.262	-0.765	-13.414	1.00	96.56	C
ATOM	867	C	LYS A 110	2.238	0.401	-13.555	1.00	96.56	C
ATOM	868	CB	LYS A 110	0.447	-0.921	-14.703	1.00	96.56	C

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ATOM	869	O	LYS A 110	1.831	1.564	-13.523	1.00	96.56	O
ATOM	870	CG	LYS A 110	-0.393	-2.189	-14.750	1.00	96.56	C
ATOM	871	CD	LYS A 110	-1.162	-2.299	-16.062	1.00	96.56	C
ATOM	872	CE	LYS A 110	-2.045	-3.541	-16.094	1.00	96.56	C
ATOM	873	NZ	LYS A 110	-2.832	-3.631	-17.359	1.00	96.56	N
ATOM	874	N	VAL A 111	3.521	0.044	-13.656	1.00	95.75	N
ATOM	875	CA	VAL A 111	4.562	1.062	-13.758	1.00	95.75	C
ATOM	876	C	VAL A 111	5.453	0.768	-14.961	1.00	95.75	C
ATOM	877	CB	VAL A 111	5.414	1.138	-12.469	1.00	95.75	C
ATOM	878	O	VAL A 111	5.863	-0.376	-15.180	1.00	95.75	O
ATOM	879	CG1	VAL A 111	6.473	2.230	-12.586	1.00	95.75	C
ATOM	880	CG2	VAL A 111	4.520	1.382	-11.258	1.00	95.75	C
ATOM	881	N	LYS A 112	5.629	1.841	-15.680	1.00	95.81	N
ATOM	882	CA	LYS A 112	6.566	1.805	-16.797	1.00	95.81	C
ATOM	883	C	LYS A 112	7.469	3.035	-16.797	1.00	95.81	C
ATOM	884	CB	LYS A 112	5.812	1.708	-18.125	1.00	95.81	C
ATOM	885	O	LYS A 112	6.992	4.164	-16.656	1.00	95.81	O
ATOM	886	CG	LYS A 112	6.715	1.496	-19.328	1.00	95.81	C
ATOM	887	CD	LYS A 112	5.906	1.323	-20.609	1.00	95.81	C
ATOM	888	CE	LYS A 112	6.801	1.034	-21.797	1.00	95.81	C
ATOM	889	NZ	LYS A 112	6.008	0.812	-23.047	1.00	95.81	N
ATOM	890	N	VAL A 113	8.820	2.705	-16.875	1.00	95.50	N
ATOM	891	CA	VAL A 113	9.797	3.789	-16.906	1.00	95.50	C
ATOM	892	C	VAL A 113	10.547	3.768	-18.250	1.00	95.50	C
ATOM	893	CB	VAL A 113	10.797	3.689	-15.734	1.00	95.50	C
ATOM	894	O	VAL A 113	11.094	2.736	-18.641	1.00	95.50	O
ATOM	895	CG1	VAL A 113	11.773	4.863	-15.758	1.00	95.50	C
ATOM	896	CG2	VAL A 113	10.047	3.633	-14.406	1.00	95.50	C
ATOM	897	N	GLU A 114	10.508	4.973	-18.875	1.00	94.69	N
ATOM	898	CA	GLU A 114	11.195	5.102	-20.156	1.00	94.69	C
ATOM	899	C	GLU A 114	12.148	6.289	-20.156	1.00	94.69	C
ATOM	900	CB	GLU A 114	10.180	5.242	-21.297	1.00	94.69	C
ATOM	901	O	GLU A 114	12.016	7.199	-19.328	1.00	94.69	O
ATOM	902	CG	GLU A 114	9.242	4.055	-21.438	1.00	94.69	C
ATOM	903	CD	GLU A 114	8.258	4.195	-22.594	1.00	94.69	C
ATOM	904	OE1	GLU A 114	8.359	3.424	-23.562	1.00	94.69	O
ATOM	905	OE2	GLU A 114	7.387	5.090	-22.516	1.00	94.69	O
ATOM	906	N	LYS A 115	13.133	6.125	-21.047	1.00	90.38	N
ATOM	907	CA	LYS A 115	14.008	7.250	-21.344	1.00	90.38	C
ATOM	908	C	LYS A 115	13.797	7.746	-22.781	1.00	90.38	C
ATOM	909	CB	LYS A 115	15.477	6.855	-21.141	1.00	90.38	C
ATOM	910	O	LYS A 115	13.992	7.000	-23.734	1.00	90.38	O
ATOM	911	CG	LYS A 115	15.945	6.953	-19.703	1.00	90.38	C
ATOM	912	CD	LYS A 115	17.438	6.699	-19.578	1.00	90.38	C
ATOM	913	CE	LYS A 115	17.891	6.664	-18.125	1.00	90.38	C
ATOM	914	NZ	LYS A 115	19.359	6.406	-18.016	1.00	90.38	N
ATOM	915	N	LYS A 116	13.180	8.922	-22.891	1.00	89.69	N
ATOM	916	CA	LYS A 116	13.031	9.539	-24.203	1.00	89.69	C
ATOM	917	C	LYS A 116	13.711	10.906	-24.250	1.00	89.69	C
ATOM	918	CB	LYS A 116	11.555	9.688	-24.562	1.00	89.69	C
ATOM	919	O	LYS A 116	13.430	11.773	-23.422	1.00	89.69	O
ATOM	920	CG	LYS A 116	10.883	8.375	-24.953	1.00	89.69	C
ATOM	921	CD	LYS A 116	9.484	8.602	-25.516	1.00	89.69	C

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ATOM	922	CE	LYS A 116	8.805	7.293	-25.891	1.00	89.69	C
ATOM	923	NZ	LYS A 116	7.449	7.516	-26.469	1.00	89.69	N
ATOM	924	N	ASP A 117	14.664	11.078	-25.156	1.00	89.94	N
ATOM	925	CA	ASP A 117	15.297	12.367	-25.422	1.00	89.94	C
ATOM	926	C	ASP A 117	15.969	12.922	-24.172	1.00	89.94	C
ATOM	927	CB	ASP A 117	14.273	13.367	-25.953	1.00	89.94	C
ATOM	928	O	ASP A 117	15.867	14.109	-23.875	1.00	89.94	O
ATOM	929	CG	ASP A 117	13.625	12.922	-27.250	1.00	89.94	C
ATOM	930	OD1	ASP A 117	14.320	12.320	-28.094	1.00	89.94	O
ATOM	931	OD2	ASP A 117	12.422	13.188	-27.438	1.00	89.94	O
ATOM	932	N	GLY A 118	16.516	11.992	-23.344	1.00	84.50	N
ATOM	933	CA	GLY A 118	17.234	12.438	-22.156	1.00	84.50	C
ATOM	934	C	GLY A 118	16.312	12.672	-20.969	1.00	84.50	C
ATOM	935	O	GLY A 118	16.781	13.062	-19.891	1.00	84.50	O
ATOM	936	N	LYS A 119	14.977	12.555	-21.188	1.00	89.56	N
ATOM	937	CA	LYS A 119	14.000	12.734	-20.109	1.00	89.56	C
ATOM	938	C	LYS A 119	13.477	11.391	-19.609	1.00	89.56	C
ATOM	939	CB	LYS A 119	12.844	13.609	-20.578	1.00	89.56	C
ATOM	940	O	LYS A 119	13.336	10.445	-20.391	1.00	89.56	O
ATOM	941	CG	LYS A 119	13.242	15.031	-20.938	1.00	89.56	C
ATOM	942	CD	LYS A 119	12.047	15.852	-21.391	1.00	89.56	C
ATOM	943	CE	LYS A 119	12.453	17.250	-21.812	1.00	89.56	C
ATOM	944	NZ	LYS A 119	11.289	18.062	-22.281	1.00	89.56	N
ATOM	945	N	LEU A 120	13.305	11.383	-18.328	1.00	90.88	N
ATOM	946	CA	LEU A 120	12.711	10.211	-17.703	1.00	90.88	C
ATOM	947	C	LEU A 120	11.188	10.312	-17.688	1.00	90.88	C
ATOM	948	CB	LEU A 120	13.234	10.039	-16.266	1.00	90.88	C
ATOM	949	O	LEU A 120	10.633	11.312	-17.203	1.00	90.88	O
ATOM	950	CG	LEU A 120	12.953	8.695	-15.594	1.00	90.88	C
ATOM	951	CD1	LEU A 120	13.836	7.609	-16.188	1.00	90.88	C
ATOM	952	CD2	LEU A 120	13.156	8.805	-14.086	1.00	90.88	C
ATOM	953	N	ILE A 121	10.539	9.414	-18.328	1.00	93.12	N
ATOM	954	CA	ILE A 121	9.086	9.375	-18.344	1.00	93.12	C
ATOM	955	C	ILE A 121	8.586	8.227	-17.469	1.00	93.12	C
ATOM	956	CB	ILE A 121	8.547	9.219	-19.797	1.00	93.12	C
ATOM	957	O	ILE A 121	8.938	7.066	-17.703	1.00	93.12	O
ATOM	958	CG1	ILE A 121	9.070	10.352	-20.688	1.00	93.12	C
ATOM	959	CG2	ILE A 121	7.016	9.172	-19.797	1.00	93.12	C
ATOM	960	CD1	ILE A 121	8.781	10.156	-22.156	1.00	93.12	C
ATOM	961	N	ILE A 122	7.770	8.547	-16.531	1.00	94.38	N
ATOM	962	CA	ILE A 122	7.234	7.551	-15.609	1.00	94.38	C
ATOM	963	C	ILE A 122	5.719	7.465	-15.766	1.00	94.38	C
ATOM	964	CB	ILE A 122	7.605	7.883	-14.148	1.00	94.38	C
ATOM	965	O	ILE A 122	5.004	8.438	-15.523	1.00	94.38	O
ATOM	966	CG1	ILE A 122	9.117	8.109	-14.016	1.00	94.38	C
ATOM	967	CG2	ILE A 122	7.137	6.770	-13.203	1.00	94.38	C
ATOM	968	CD1	ILE A 122	9.539	8.719	-12.688	1.00	94.38	C
ATOM	969	N	ASP A 123	5.273	6.402	-16.250	1.00	94.88	N
ATOM	970	CA	ASP A 123	3.844	6.145	-16.375	1.00	94.88	C
ATOM	971	C	ASP A 123	3.344	5.238	-15.258	1.00	94.88	C
ATOM	972	CB	ASP A 123	3.533	5.523	-17.734	1.00	94.88	C
ATOM	973	O	ASP A 123	3.812	4.105	-15.109	1.00	94.88	O
ATOM	974	CG	ASP A 123	3.795	6.469	-18.891	1.00	94.88	C

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ATOM	975	OD1 ASP A 123	3.457	7.668	-18.797	1.00	94.88	O
ATOM	976	OD2 ASP A 123	4.340	6.012	-19.922	1.00	94.88	O
ATOM	977	N VAL A 124	2.422	5.762	-14.500	1.00	95.12	N
ATOM	978	CA VAL A 124	1.878	4.996	-13.383	1.00	95.12	C
ATOM	979	C VAL A 124	0.360	4.895	-13.516	1.00	95.12	C
ATOM	980	CB VAL A 124	2.254	5.629	-12.023	1.00	95.12	C
ATOM	981	O VAL A 124	-0.324	5.910	-13.672	1.00	95.12	O
ATOM	982	CG1 VAL A 124	1.747	4.766	-10.867	1.00	95.12	C
ATOM	983	CG2 VAL A 124	3.766	5.824	-11.922	1.00	95.12	C
ATOM	984	N GLU A 125	-0.080	3.703	-13.562	1.00	96.19	N
ATOM	985	CA GLU A 125	-1.517	3.447	-13.547	1.00	96.19	C
ATOM	986	C GLU A 125	-1.928	2.674	-12.297	1.00	96.19	C
ATOM	987	CB GLU A 125	-1.939	2.682	-14.805	1.00	96.19	C
ATOM	988	O GLU A 125	-1.342	1.637	-11.984	1.00	96.19	O
ATOM	989	CG GLU A 125	-3.441	2.463	-14.914	1.00	96.19	C
ATOM	990	CD GLU A 125	-3.846	1.697	-16.156	1.00	96.19	C
ATOM	991	OE1 GLU A 125	-4.504	0.640	-16.047	1.00	96.19	O
ATOM	992	OE2 GLU A 125	-3.500	2.158	-17.281	1.00	96.19	O
ATOM	993	N VAL A 126	-2.977	3.205	-11.602	1.00	95.62	N
ATOM	994	CA VAL A 126	-3.426	2.568	-10.367	1.00	95.62	C
ATOM	995	C VAL A 126	-4.930	2.316	-10.430	1.00	95.62	C
ATOM	996	CB VAL A 126	-3.080	3.424	-9.125	1.00	95.62	C
ATOM	997	O VAL A 126	-5.707	3.230	-10.719	1.00	95.62	O
ATOM	998	CG1 VAL A 126	-3.453	2.688	-7.840	1.00	95.62	C
ATOM	999	CG2 VAL A 126	-1.597	3.787	-9.125	1.00	95.62	C
ATOM	1000	N LYS A 127	-5.250	1.034	-10.258	1.00	95.56	N
ATOM	1001	CA LYS A 127	-6.656	0.660	-10.117	1.00	95.56	C
ATOM	1002	C LYS A 127	-6.922	0.025	-8.758	1.00	95.56	C
ATOM	1003	CB LYS A 127	-7.070	-0.301	-11.234	1.00	95.56	C
ATOM	1004	O LYS A 127	-6.172	-0.845	-8.312	1.00	95.56	O
ATOM	1005	CG LYS A 127	-7.047	0.319	-12.625	1.00	95.56	C
ATOM	1006	CD LYS A 127	-7.527	-0.666	-13.680	1.00	95.56	C
ATOM	1007	CE LYS A 127	-7.469	-0.061	-15.078	1.00	95.56	C
ATOM	1008	NZ LYS A 127	-7.938	-1.022	-16.125	1.00	95.56	N
ATOM	1009	N ALA A 128	-7.984	0.514	-8.062	1.00	95.06	N
ATOM	1010	CA ALA A 128	-8.305	-0.010	-6.738	1.00	95.06	C
ATOM	1011	C ALA A 128	-9.812	-0.166	-6.559	1.00	95.06	C
ATOM	1012	CB ALA A 128	-7.734	0.902	-5.652	1.00	95.06	C
ATOM	1013	O ALA A 128	-10.594	0.628	-7.090	1.00	95.06	O
ATOM	1014	N GLU A 129	-10.219	-1.219	-5.949	1.00	95.31	N
ATOM	1015	CA GLU A 129	-11.609	-1.474	-5.586	1.00	95.31	C
ATOM	1016	C GLU A 129	-11.719	-1.993	-4.156	1.00	95.31	C
ATOM	1017	CB GLU A 129	-12.242	-2.471	-6.559	1.00	95.31	C
ATOM	1018	O GLU A 129	-10.797	-2.641	-3.654	1.00	95.31	O
ATOM	1019	CG GLU A 129	-12.195	-2.023	-8.016	1.00	95.31	C
ATOM	1020	CD GLU A 129	-12.734	-3.070	-8.977	1.00	95.31	C
ATOM	1021	OE1 GLU A 129	-12.969	-2.740	-10.164	1.00	95.31	O
ATOM	1022	OE2 GLU A 129	-12.914	-4.230	-8.547	1.00	95.31	O
ATOM	1023	N GLY A 130	-12.844	-1.687	-3.492	1.00	94.12	N
ATOM	1024	CA GLY A 130	-13.047	-2.152	-2.131	1.00	94.12	C
ATOM	1025	C GLY A 130	-14.500	-2.418	-1.803	1.00	94.12	C
ATOM	1026	O GLY A 130	-15.398	-1.768	-2.348	1.00	94.12	O
ATOM	1027	N LYS A 131	-14.656	-3.518	-1.018	1.00	95.12	N

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ATOM	1028	CA	LYS A 131	-15.992	-3.877	-0.552	1.00	95.12	C
ATOM	1029	C	LYS A 131	-15.977	-4.250	0.928	1.00	95.12	C
ATOM	1030	CB	LYS A 131	-16.547	-5.035	-1.378	1.00	95.12	C
ATOM	1031	O	LYS A 131	-15.055	-4.910	1.398	1.00	95.12	O
ATOM	1032	CG	LYS A 131	-18.000	-5.387	-1.050	1.00	95.12	C
ATOM	1033	CD	LYS A 131	-18.516	-6.516	-1.931	1.00	95.12	C
ATOM	1034	CE	LYS A 131	-19.953	-6.871	-1.600	1.00	95.12	C
ATOM	1035	NZ	LYS A 131	-20.469	-7.965	-2.477	1.00	95.12	N
ATOM	1036	N	VAL A 132	-17.047	-3.789	1.669	1.00	94.44	N
ATOM	1037	CA	VAL A 132	-17.156	-4.102	3.090	1.00	94.44	C
ATOM	1038	C	VAL A 132	-18.484	-4.789	3.363	1.00	94.44	C
ATOM	1039	CB	VAL A 132	-17.016	-2.834	3.963	1.00	94.44	C
ATOM	1040	O	VAL A 132	-19.516	-4.383	2.832	1.00	94.44	O
ATOM	1041	CG1	VAL A 132	-17.281	-3.160	5.434	1.00	94.44	C
ATOM	1042	CG2	VAL A 132	-15.633	-2.209	3.785	1.00	94.44	C
ATOM	1043	N	THR A 133	-18.359	-5.828	4.062	1.00	94.25	N
ATOM	1044	CA	THR A 133	-19.547	-6.504	4.559	1.00	94.25	C
ATOM	1045	C	THR A 133	-19.641	-6.402	6.078	1.00	94.25	C
ATOM	1046	CB	THR A 133	-19.578	-7.984	4.141	1.00	94.25	C
ATOM	1047	O	THR A 133	-18.703	-6.766	6.785	1.00	94.25	O
ATOM	1048	CG2	THR A 133	-20.859	-8.664	4.582	1.00	94.25	C
ATOM	1049	OG1	THR A 133	-19.469	-8.070	2.713	1.00	94.25	O
ATOM	1050	N	ILE A 134	-20.766	-5.914	6.566	1.00	92.50	N
ATOM	1051	CA	ILE A 134	-20.969	-5.750	8.000	1.00	92.50	C
ATOM	1052	C	ILE A 134	-22.141	-6.613	8.453	1.00	92.50	C
ATOM	1053	CB	ILE A 134	-21.219	-4.273	8.375	1.00	92.50	C
ATOM	1054	O	ILE A 134	-23.234	-6.523	7.883	1.00	92.50	O
ATOM	1055	CG1	ILE A 134	-20.031	-3.408	7.934	1.00	92.50	C
ATOM	1056	CG2	ILE A 134	-21.469	-4.129	9.875	1.00	92.50	C
ATOM	1057	CD1	ILE A 134	-20.281	-1.910	8.031	1.00	92.50	C
ATOM	1058	N	THR A 135	-21.875	-7.430	9.500	1.00	94.00	N
ATOM	1059	CA	THR A 135	-22.922	-8.289	10.047	1.00	94.00	C
ATOM	1060	C	THR A 135	-23.172	-7.965	11.516	1.00	94.00	C
ATOM	1061	CB	THR A 135	-22.562	-9.773	9.898	1.00	94.00	C
ATOM	1062	O	THR A 135	-22.250	-8.016	12.336	1.00	94.00	O
ATOM	1063	CG2	THR A 135	-23.688	-10.672	10.398	1.00	94.00	C
ATOM	1064	OG1	THR A 135	-22.312	-10.070	8.523	1.00	94.00	O
ATOM	1065	N	ASP A 136	-24.453	-7.598	11.758	1.00	90.69	N
ATOM	1066	CA	ASP A 136	-24.844	-7.395	13.148	1.00	90.69	C
ATOM	1067	C	ASP A 136	-24.922	-8.719	13.898	1.00	90.69	C
ATOM	1068	CB	ASP A 136	-26.203	-6.672	13.219	1.00	90.69	C
ATOM	1069	O	ASP A 136	-25.688	-9.609	13.516	1.00	90.69	O
ATOM	1070	CG	ASP A 136	-26.562	-6.230	14.625	1.00	90.69	C
ATOM	1071	OD1	ASP A 136	-26.547	-7.066	15.555	1.00	90.69	O
ATOM	1072	OD2	ASP A 136	-26.875	-5.031	14.805	1.00	90.69	O
ATOM	1073	N	LYS A 137	-24.234	-8.906	15.039	1.00	92.06	N
ATOM	1074	CA	LYS A 137	-24.125	-10.188	15.727	1.00	92.06	C
ATOM	1075	C	LYS A 137	-25.406	-10.516	16.484	1.00	92.06	C
ATOM	1076	CB	LYS A 137	-22.938	-10.195	16.688	1.00	92.06	C
ATOM	1077	O	LYS A 137	-25.734	-11.688	16.688	1.00	92.06	O
ATOM	1078	CG	LYS A 137	-21.594	-10.359	16.000	1.00	92.06	C
ATOM	1079	CD	LYS A 137	-20.500	-10.734	17.000	1.00	92.06	C
ATOM	1080	CE	LYS A 137	-19.203	-11.094	16.281	1.00	92.06	C

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ATOM	1081	NZ	LYS A 137	-18.125	-11.445	17.266	1.00	92.06	N
ATOM	1082	N	GLU A 138	-26.062	-9.453	16.844	1.00	89.56	N
ATOM	1083	CA	GLU A 138	-27.281	-9.664	17.625	1.00	89.56	C
ATOM	1084	C	GLU A 138	-28.453	-10.047	16.719	1.00	89.56	C
ATOM	1085	CB	GLU A 138	-27.625	-8.414	18.438	1.00	89.56	C
ATOM	1086	O	GLU A 138	-29.203	-10.977	17.031	1.00	89.56	O
ATOM	1087	CG	GLU A 138	-26.672	-8.148	19.594	1.00	89.56	C
ATOM	1088	CD	GLU A 138	-27.125	-7.004	20.484	1.00	89.56	C
ATOM	1089	OE1	GLU A 138	-26.562	-6.844	21.594	1.00	89.56	O
ATOM	1090	OE2	GLU A 138	-28.047	-6.266	20.078	1.00	89.56	O
ATOM	1091	N	THR A 139	-28.594	-9.336	15.586	1.00	88.88	N
ATOM	1092	CA	THR A 139	-29.766	-9.523	14.750	1.00	88.88	C
ATOM	1093	C	THR A 139	-29.453	-10.477	13.594	1.00	88.88	C
ATOM	1094	CB	THR A 139	-30.281	-8.188	14.188	1.00	88.88	C
ATOM	1095	O	THR A 139	-30.375	-11.047	12.992	1.00	88.88	O
ATOM	1096	CG2	THR A 139	-30.609	-7.211	15.312	1.00	88.88	C
ATOM	1097	OG1	THR A 139	-29.266	-7.609	13.352	1.00	88.88	O
ATOM	1098	N	GLY A 140	-28.125	-10.578	13.227	1.00	90.06	N
ATOM	1099	CA	GLY A 140	-27.703	-11.375	12.086	1.00	90.06	C
ATOM	1100	C	GLY A 140	-27.844	-10.641	10.766	1.00	90.06	C
ATOM	1101	O	GLY A 140	-27.547	-11.188	9.703	1.00	90.06	O
ATOM	1102	N	GLU A 141	-28.281	-9.492	10.742	1.00	90.12	N
ATOM	1103	CA	GLU A 141	-28.453	-8.656	9.555	1.00	90.12	C
ATOM	1104	C	GLU A 141	-27.109	-8.305	8.922	1.00	90.12	C
ATOM	1105	CB	GLU A 141	-29.219	-7.379	9.906	1.00	90.12	C
ATOM	1106	O	GLU A 141	-26.172	-7.961	9.625	1.00	90.12	O
ATOM	1107	CG	GLU A 141	-29.594	-6.527	8.695	1.00	90.12	C
ATOM	1108	CD	GLU A 141	-30.281	-5.223	9.070	1.00	90.12	C
ATOM	1109	OE1	GLU A 141	-30.422	-4.344	8.188	1.00	90.12	O
ATOM	1110	OE2	GLU A 141	-30.672	-5.074	10.250	1.00	90.12	O
ATOM	1111	N	THR A 142	-27.094	-8.367	7.578	1.00	92.69	N
ATOM	1112	CA	THR A 142	-25.859	-8.102	6.840	1.00	92.69	C
ATOM	1113	C	THR A 142	-26.047	-6.910	5.906	1.00	92.69	C
ATOM	1114	CB	THR A 142	-25.422	-9.336	6.027	1.00	92.69	C
ATOM	1115	O	THR A 142	-27.078	-6.766	5.266	1.00	92.69	O
ATOM	1116	CG2	THR A 142	-24.109	-9.070	5.293	1.00	92.69	C
ATOM	1117	OG1	THR A 142	-25.250	-10.445	6.914	1.00	92.69	O
ATOM	1118	N	LYS A 143	-24.969	-6.137	5.863	1.00	89.62	N
ATOM	1119	CA	LYS A 143	-24.922	-4.992	4.957	1.00	89.62	C
ATOM	1120	C	LYS A 143	-23.656	-5.039	4.098	1.00	89.62	C
ATOM	1121	CB	LYS A 143	-24.969	-3.684	5.746	1.00	89.62	C
ATOM	1122	O	LYS A 143	-22.562	-5.258	4.609	1.00	89.62	O
ATOM	1123	CG	LYS A 143	-26.250	-3.480	6.531	1.00	89.62	C
ATOM	1124	CD	LYS A 143	-26.219	-2.199	7.352	1.00	89.62	C
ATOM	1125	CE	LYS A 143	-27.453	-2.045	8.211	1.00	89.62	C
ATOM	1126	NZ	LYS A 143	-27.438	-0.778	9.000	1.00	89.62	N
ATOM	1127	N	GLU A 144	-23.953	-4.848	2.822	1.00	94.31	N
ATOM	1128	CA	GLU A 144	-22.797	-4.734	1.922	1.00	94.31	C
ATOM	1129	C	GLU A 144	-22.625	-3.301	1.440	1.00	94.31	C
ATOM	1130	CB	GLU A 144	-22.969	-5.676	0.725	1.00	94.31	C
ATOM	1131	O	GLU A 144	-23.578	-2.660	0.999	1.00	94.31	O
ATOM	1132	CG	GLU A 144	-22.969	-7.152	1.098	1.00	94.31	C
ATOM	1133	CD	GLU A 144	-23.031	-8.078	-0.109	1.00	94.31	C

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ATOM	1134	OE1 GLU A 144	-22.703	-9.273	0.031	1.00	94.31	O
ATOM	1135	OE2 GLU A 144	-23.406	-7.594	-1.203	1.00	94.31	O
ATOM	1136	N ILE A 145	-21.359	-2.850	1.478	1.00	94.00	N
ATOM	1137	CA ILE A 145	-21.094	-1.468	1.092	1.00	94.00	C
ATOM	1138	C ILE A 145	-19.938	-1.426	0.107	1.00	94.00	C
ATOM	1139	CB ILE A 145	-20.797	-0.586	2.324	1.00	94.00	C
ATOM	1140	O ILE A 145	-18.828	-1.898	0.414	1.00	94.00	O
ATOM	1141	CG1 ILE A 145	-21.906	-0.718	3.365	1.00	94.00	C
ATOM	1142	CG2 ILE A 145	-20.594	0.875	1.907	1.00	94.00	C
ATOM	1143	CD1 ILE A 145	-21.578	-0.080	4.707	1.00	94.00	C
ATOM	1144	N GLU A 146	-20.203	-0.902	-1.126	1.00	94.75	N
ATOM	1145	CA GLU A 146	-19.109	-0.645	-2.055	1.00	94.75	C
ATOM	1146	C GLU A 146	-18.375	0.653	-1.705	1.00	94.75	C
ATOM	1147	CB GLU A 146	-19.625	-0.588	-3.494	1.00	94.75	C
ATOM	1148	O GLU A 146	-19.016	1.641	-1.325	1.00	94.75	O
ATOM	1149	CG GLU A 146	-20.172	-1.912	-4.000	1.00	94.75	C
ATOM	1150	CD GLU A 146	-20.484	-1.900	-5.488	1.00	94.75	C
ATOM	1151	OE1 GLU A 146	-20.750	-2.982	-6.062	1.00	94.75	O
ATOM	1152	OE2 GLU A 146	-20.469	-0.801	-6.086	1.00	94.75	O
ATOM	1153	N LEU A 147	-17.094	0.661	-1.936	1.00	94.94	N
ATOM	1154	CA LEU A 147	-16.312	1.801	-1.474	1.00	94.94	C
ATOM	1155	C LEU A 147	-15.906	2.689	-2.643	1.00	94.94	C
ATOM	1156	CB LEU A 147	-15.078	1.327	-0.717	1.00	94.94	C
ATOM	1157	O LEU A 147	-15.594	2.191	-3.725	1.00	94.94	O
ATOM	1158	CG LEU A 147	-15.320	0.425	0.493	1.00	94.94	C
ATOM	1159	CD1 LEU A 147	-13.992	0.023	1.132	1.00	94.94	C
ATOM	1160	CD2 LEU A 147	-16.219	1.124	1.508	1.00	94.94	C
ATOM	1161	N GLU A 148	-16.125	3.873	-2.484	1.00	95.44	N
ATOM	1162	CA GLU A 148	-15.539	4.855	-3.393	1.00	95.44	C
ATOM	1163	C GLU A 148	-14.047	5.027	-3.135	1.00	95.44	C
ATOM	1164	CB GLU A 148	-16.250	6.203	-3.258	1.00	95.44	C
ATOM	1165	O GLU A 148	-13.617	5.168	-1.987	1.00	95.44	O
ATOM	1166	CG GLU A 148	-15.805	7.238	-4.281	1.00	95.44	C
ATOM	1167	CD GLU A 148	-16.500	8.586	-4.109	1.00	95.44	C
ATOM	1168	OE1 GLU A 148	-15.969	9.602	-4.609	1.00	95.44	O
ATOM	1169	OE2 GLU A 148	-17.578	8.617	-3.473	1.00	95.44	O
ATOM	1170	N VAL A 149	-13.195	5.121	-4.250	1.00	94.75	N
ATOM	1171	CA VAL A 149	-11.742	5.074	-4.090	1.00	94.75	C
ATOM	1172	C VAL A 149	-11.125	6.379	-4.578	1.00	94.75	C
ATOM	1173	CB VAL A 149	-11.125	3.875	-4.848	1.00	94.75	C
ATOM	1174	O VAL A 149	-11.398	6.828	-5.691	1.00	94.75	O
ATOM	1175	CG1 VAL A 149	-9.609	3.838	-4.660	1.00	94.75	C
ATOM	1176	CG2 VAL A 149	-11.758	2.566	-4.379	1.00	94.75	C
ATOM	1177	N LYS A 150	-10.422	7.051	-3.717	1.00	95.50	N
ATOM	1178	CA LYS A 150	-9.578	8.188	-4.090	1.00	95.50	C
ATOM	1179	C LYS A 150	-8.102	7.812	-4.016	1.00	95.50	C
ATOM	1180	CB LYS A 150	-9.867	9.383	-3.186	1.00	95.50	C
ATOM	1181	O LYS A 150	-7.633	7.305	-2.996	1.00	95.50	O
ATOM	1182	CG LYS A 150	-11.242	10.000	-3.387	1.00	95.50	C
ATOM	1183	CD LYS A 150	-11.414	11.273	-2.568	1.00	95.50	C
ATOM	1184	CE LYS A 150	-12.805	11.867	-2.744	1.00	95.50	C
ATOM	1185	NZ LYS A 150	-12.984	13.094	-1.911	1.00	95.50	N
ATOM	1186	N ILE A 151	-7.344	8.195	-5.090	1.00	96.31	N

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ATOM	1187	CA	ILE A 151	-5.949	7.773	-5.184	1.00	96.31	C
ATOM	1188	C	ILE A 151	-5.047	9.000	-5.309	1.00	96.31	C
ATOM	1189	CB	ILE A 151	-5.723	6.820	-6.379	1.00	96.31	C
ATOM	1190	O	ILE A 151	-5.297	9.875	-6.137	1.00	96.31	O
ATOM	1191	CG1	ILE A 151	-6.578	5.559	-6.223	1.00	96.31	C
ATOM	1192	CG2	ILE A 151	-4.242	6.465	-6.520	1.00	96.31	C
ATOM	1193	CD1	ILE A 151	-6.652	4.699	-7.480	1.00	96.31	C
ATOM	1194	N	ASN A 152	-4.125	9.086	-4.492	1.00	95.94	N
ATOM	1195	CA	ASN A 152	-3.082	10.102	-4.566	1.00	95.94	C
ATOM	1196	C	ASN A 152	-1.705	9.477	-4.766	1.00	95.94	C
ATOM	1197	CB	ASN A 152	-3.092	10.977	-3.309	1.00	95.94	C
ATOM	1198	O	ASN A 152	-1.294	8.609	-3.996	1.00	95.94	O
ATOM	1199	CG	ASN A 152	-4.379	11.758	-3.154	1.00	95.94	C
ATOM	1200	ND2	ASN A 152	-5.000	11.656	-1.984	1.00	95.94	N
ATOM	1201	OD1	ASN A 152	-4.812	12.453	-4.078	1.00	95.94	O
ATOM	1202	N	ILE A 153	-1.031	9.977	-5.777	1.00	95.62	N
ATOM	1203	CA	ILE A 153	0.287	9.438	-6.090	1.00	95.62	C
ATOM	1204	C	ILE A 153	1.346	10.523	-5.902	1.00	95.62	C
ATOM	1205	CB	ILE A 153	0.343	8.875	-7.527	1.00	95.62	C
ATOM	1206	O	ILE A 153	1.203	11.633	-6.418	1.00	95.62	O
ATOM	1207	CG1	ILE A 153	-0.757	7.832	-7.734	1.00	95.62	C
ATOM	1208	CG2	ILE A 153	1.725	8.289	-7.820	1.00	95.62	C
ATOM	1209	CD1	ILE A 153	-0.940	7.402	-9.188	1.00	95.62	C
ATOM	1210	N	LYS A 154	2.361	10.172	-5.160	1.00	95.25	N
ATOM	1211	CA	LYS A 154	3.461	11.109	-4.918	1.00	95.25	C
ATOM	1212	C	LYS A 154	4.809	10.461	-5.238	1.00	95.25	C
ATOM	1213	CB	LYS A 154	3.441	11.594	-3.471	1.00	95.25	C
ATOM	1214	O	LYS A 154	5.062	9.320	-4.848	1.00	95.25	O
ATOM	1215	CG	LYS A 154	2.227	12.438	-3.117	1.00	95.25	C
ATOM	1216	CD	LYS A 154	2.270	12.898	-1.666	1.00	95.25	C
ATOM	1217	CE	LYS A 154	1.012	13.672	-1.285	1.00	95.25	C
ATOM	1218	NZ	LYS A 154	1.025	14.078	0.151	1.00	95.25	N
ATOM	1219	N	ILE A 155	5.629	11.250	-5.957	1.00	94.69	N
ATOM	1220	CA	ILE A 155	7.023	10.836	-6.094	1.00	94.69	C
ATOM	1221	C	ILE A 155	7.855	11.469	-4.977	1.00	94.69	C
ATOM	1222	CB	ILE A 155	7.594	11.234	-7.477	1.00	94.69	C
ATOM	1223	O	ILE A 155	8.008	12.688	-4.922	1.00	94.69	O
ATOM	1224	CG1	ILE A 155	6.793	10.562	-8.594	1.00	94.69	C
ATOM	1225	CG2	ILE A 155	9.078	10.867	-7.570	1.00	94.69	C
ATOM	1226	CD1	ILE A 155	7.164	11.031	-9.992	1.00	94.69	C
ATOM	1227	N	LYS A 156	8.422	10.664	-4.168	1.00	95.19	N
ATOM	1228	CA	LYS A 156	9.141	11.188	-3.012	1.00	95.19	C
ATOM	1229	C	LYS A 156	10.570	11.570	-3.385	1.00	95.19	C
ATOM	1230	CB	LYS A 156	9.156	10.164	-1.876	1.00	95.19	C
ATOM	1231	O	LYS A 156	11.070	12.625	-2.975	1.00	95.19	O
ATOM	1232	CG	LYS A 156	7.805	9.969	-1.204	1.00	95.19	C
ATOM	1233	CD	LYS A 156	7.457	11.148	-0.297	1.00	95.19	C
ATOM	1234	CE	LYS A 156	6.211	10.867	0.530	1.00	95.19	C
ATOM	1235	NZ	LYS A 156	5.801	12.055	1.338	1.00	95.19	N
ATOM	1236	N	ASN A 157	11.203	10.664	-4.137	1.00	95.88	N
ATOM	1237	CA	ASN A 157	12.617	10.859	-4.453	1.00	95.88	C
ATOM	1238	C	ASN A 157	13.008	10.141	-5.738	1.00	95.88	C
ATOM	1239	CB	ASN A 157	13.492	10.391	-3.291	1.00	95.88	C

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ATOM	1240	O	ASN A 157	12.453	9.086	-6.055	1.00	95.88	O
ATOM	1241	CG	ASN A 157	14.945	10.789	-3.459	1.00	95.88	C
ATOM	1242	ND2	ASN A 157	15.852	9.961	-2.957	1.00	95.88	N
ATOM	1243	OD1	ASN A 157	15.250	11.836	-4.035	1.00	95.88	O
ATOM	1244	N	ILE A 158	13.867	10.797	-6.461	1.00	95.44	N
ATOM	1245	CA	ILE A 158	14.523	10.156	-7.598	1.00	95.44	C
ATOM	1246	C	ILE A 158	16.031	10.297	-7.469	1.00	95.44	C
ATOM	1247	CB	ILE A 158	14.039	10.758	-8.938	1.00	95.44	C
ATOM	1248	O	ILE A 158	16.562	11.414	-7.367	1.00	95.44	O
ATOM	1249	CG1	ILE A 158	12.516	10.648	-9.055	1.00	95.44	C
ATOM	1250	CG2	ILE A 158	14.727	10.070	-10.117	1.00	95.44	C
ATOM	1251	CD1	ILE A 158	11.930	11.383	-10.250	1.00	95.44	C
ATOM	1252	N	LYS A 159	16.703	9.141	-7.363	1.00	96.12	N
ATOM	1253	CA	LYS A 159	18.156	9.148	-7.215	1.00	96.12	C
ATOM	1254	C	LYS A 159	18.828	8.312	-8.297	1.00	96.12	C
ATOM	1255	CB	LYS A 159	18.562	8.633	-5.832	1.00	96.12	C
ATOM	1256	O	LYS A 159	18.344	7.227	-8.641	1.00	96.12	O
ATOM	1257	CG	LYS A 159	20.047	8.758	-5.531	1.00	96.12	C
ATOM	1258	CD	LYS A 159	20.375	8.242	-4.137	1.00	96.12	C
ATOM	1259	CE	LYS A 159	21.875	8.328	-3.854	1.00	96.12	C
ATOM	1260	NZ	LYS A 159	22.203	7.805	-2.496	1.00	96.12	N
ATOM	1261	N	THR A 160	19.922	8.875	-8.852	1.00	94.94	N
ATOM	1262	CA	THR A 160	20.688	8.148	-9.859	1.00	94.94	C
ATOM	1263	C	THR A 160	22.125	7.906	-9.383	1.00	94.94	C
ATOM	1264	CB	THR A 160	20.719	8.914	-11.195	1.00	94.94	C
ATOM	1265	O	THR A 160	22.781	8.820	-8.875	1.00	94.94	O
ATOM	1266	CG2	THR A 160	21.516	8.148	-12.250	1.00	94.94	C
ATOM	1267	OG1	THR A 160	19.375	9.094	-11.664	1.00	94.94	O
ATOM	1268	N	GLU A 161	22.469	6.688	-9.422	1.00	96.44	N
ATOM	1269	CA	GLU A 161	23.828	6.305	-9.047	1.00	96.44	C
ATOM	1270	C	GLU A 161	24.531	5.582	-10.188	1.00	96.44	C
ATOM	1271	CB	GLU A 161	23.812	5.418	-7.797	1.00	96.44	C
ATOM	1272	O	GLU A 161	23.938	4.746	-10.867	1.00	96.44	O
ATOM	1273	CG	GLU A 161	23.344	6.137	-6.543	1.00	96.44	C
ATOM	1274	CD	GLU A 161	23.359	5.254	-5.305	1.00	96.44	C
ATOM	1275	OE1	GLU A 161	24.281	5.395	-4.473	1.00	96.44	O
ATOM	1276	OE2	GLU A 161	22.438	4.418	-5.160	1.00	96.44	O
ATOM	1277	N	THR A 162	25.828	6.012	-10.398	1.00	96.19	N
ATOM	1278	CA	THR A 162	26.656	5.375	-11.414	1.00	96.19	C
ATOM	1279	C	THR A 162	27.875	4.691	-10.781	1.00	96.19	C
ATOM	1280	CB	THR A 162	27.141	6.398	-12.469	1.00	96.19	C
ATOM	1281	O	THR A 162	28.594	5.305	-9.992	1.00	96.19	O
ATOM	1282	CG2	THR A 162	27.953	5.719	-13.562	1.00	96.19	C
ATOM	1283	OG1	THR A 162	26.000	7.031	-13.055	1.00	96.19	O
ATOM	1284	N	LYS A 163	27.891	3.410	-11.008	1.00	95.50	N
ATOM	1285	CA	LYS A 163	29.031	2.645	-10.523	1.00	95.50	C
ATOM	1286	C	LYS A 163	29.875	2.109	-11.680	1.00	95.50	C
ATOM	1287	CB	LYS A 163	28.562	1.491	-9.633	1.00	95.50	C
ATOM	1288	O	LYS A 163	29.328	1.661	-12.688	1.00	95.50	O
ATOM	1289	CG	LYS A 163	28.016	1.932	-8.289	1.00	95.50	C
ATOM	1290	CD	LYS A 163	27.672	0.738	-7.402	1.00	95.50	C
ATOM	1291	CE	LYS A 163	27.078	1.177	-6.070	1.00	95.50	C
ATOM	1292	NZ	LYS A 163	26.719	0.008	-5.215	1.00	95.50	N

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ATOM	1293	N	GLU A 164	31.203	2.379	-11.547	1.00	95.88	N
ATOM	1294	CA	GLU A 164	32.094	1.875	-12.570	1.00	95.88	C
ATOM	1295	C	GLU A 164	32.906	0.679	-12.062	1.00	95.88	C
ATOM	1296	CB	GLU A 164	33.062	2.980	-13.039	1.00	95.88	C
ATOM	1297	O	GLU A 164	33.281	0.634	-10.891	1.00	95.88	O
ATOM	1298	CG	GLU A 164	32.344	4.160	-13.695	1.00	95.88	C
ATOM	1299	CD	GLU A 164	33.312	5.230	-14.188	1.00	95.88	C
ATOM	1300	OE1	GLU A 164	33.250	5.605	-15.383	1.00	95.88	O
ATOM	1301	OE2	GLU A 164	34.156	5.699	-13.383	1.00	95.88	O
ATOM	1302	N	SER A 165	32.969	-0.365	-12.859	1.00	94.06	N
ATOM	1303	CA	SER A 165	33.781	-1.512	-12.500	1.00	94.06	C
ATOM	1304	C	SER A 165	34.688	-1.923	-13.656	1.00	94.06	C
ATOM	1305	CB	SER A 165	32.906	-2.693	-12.078	1.00	94.06	C
ATOM	1306	O	SER A 165	34.406	-1.622	-14.820	1.00	94.06	O
ATOM	1307	OG	SER A 165	32.094	-3.105	-13.148	1.00	94.06	O
ATOM	1308	N	GLU A 166	35.875	-2.330	-13.320	1.00	94.75	N
ATOM	1309	CA	GLU A 166	36.875	-2.779	-14.312	1.00	94.75	C
ATOM	1310	C	GLU A 166	37.406	-4.160	-13.961	1.00	94.75	C
ATOM	1311	CB	GLU A 166	38.000	-1.774	-14.430	1.00	94.75	C
ATOM	1312	O	GLU A 166	37.750	-4.418	-12.805	1.00	94.75	O
ATOM	1313	CG	GLU A 166	39.031	-2.125	-15.508	1.00	94.75	C
ATOM	1314	CD	GLU A 166	40.125	-1.093	-15.648	1.00	94.75	C
ATOM	1315	OE1	GLU A 166	41.250	-1.462	-16.062	1.00	94.75	O
ATOM	1316	OE2	GLU A 166	39.875	0.093	-15.344	1.00	94.75	O
ATOM	1317	N	GLU A 167	37.219	-5.043	-14.891	1.00	93.31	N
ATOM	1318	CA	GLU A 167	37.750	-6.391	-14.742	1.00	93.31	C
ATOM	1319	C	GLU A 167	38.812	-6.691	-15.820	1.00	93.31	C
ATOM	1320	CB	GLU A 167	36.625	-7.430	-14.797	1.00	93.31	C
ATOM	1321	O	GLU A 167	38.562	-6.426	-17.000	1.00	93.31	O
ATOM	1322	CG	GLU A 167	37.094	-8.844	-14.469	1.00	93.31	C
ATOM	1323	CD	GLU A 167	35.969	-9.859	-14.523	1.00	93.31	C
ATOM	1324	OE1	GLU A 167	35.719	-10.445	-15.609	1.00	93.31	O
ATOM	1325	OE2	GLU A 167	35.312	-10.078	-13.484	1.00	93.31	O
ATOM	1326	N	THR A 168	40.062	-7.133	-15.367	1.00	93.12	N
ATOM	1327	CA	THR A 168	41.125	-7.492	-16.297	1.00	93.12	C
ATOM	1328	C	THR A 168	41.438	-8.984	-16.203	1.00	93.12	C
ATOM	1329	CB	THR A 168	42.406	-6.680	-16.016	1.00	93.12	C
ATOM	1330	O	THR A 168	41.531	-9.539	-15.102	1.00	93.12	O
ATOM	1331	CG2	THR A 168	43.469	-6.961	-17.047	1.00	93.12	C
ATOM	1332	OG1	THR A 168	42.094	-5.281	-16.031	1.00	93.12	O
ATOM	1333	N	LYS A 169	41.312	-9.531	-17.344	1.00	91.88	N
ATOM	1334	CA	LYS A 169	41.656	-10.945	-17.438	1.00	91.88	C
ATOM	1335	C	LYS A 169	42.688	-11.195	-18.531	1.00	91.88	C
ATOM	1336	CB	LYS A 169	40.406	-11.789	-17.688	1.00	91.88	C
ATOM	1337	O	LYS A 169	42.625	-10.586	-19.609	1.00	91.88	O
ATOM	1338	CG	LYS A 169	40.656	-13.289	-17.625	1.00	91.88	C
ATOM	1339	CD	LYS A 169	39.375	-14.070	-17.859	1.00	91.88	C
ATOM	1340	CE	LYS A 169	39.594	-15.570	-17.812	1.00	91.88	C
ATOM	1341	NZ	LYS A 169	38.344	-16.344	-18.047	1.00	91.88	N
ATOM	1342	N	VAL A 170	43.750	-11.977	-18.266	1.00	89.31	N
ATOM	1343	CA	VAL A 170	44.781	-12.352	-19.250	1.00	89.31	C
ATOM	1344	C	VAL A 170	44.531	-13.781	-19.719	1.00	89.31	C
ATOM	1345	CB	VAL A 170	46.219	-12.219	-18.672	1.00	89.31	C

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ATOM	1346	O	VAL A 170	44.469	-14.703	-18.906	1.00	89.31	O
ATOM	1347	CG1	VAL A 170	47.250	-12.656	-19.688	1.00	89.31	C
ATOM	1348	CG2	VAL A 170	46.469	-10.781	-18.219	1.00	89.31	C
ATOM	1349	N	GLU A 171	44.156	-13.891	-20.984	1.00	86.44	N
ATOM	1350	CA	GLU A 171	44.031	-15.203	-21.609	1.00	86.44	C
ATOM	1351	C	GLU A 171	44.812	-15.258	-22.906	1.00	86.44	C
ATOM	1352	CB	GLU A 171	42.562	-15.555	-21.859	1.00	86.44	C
ATOM	1353	O	GLU A 171	44.688	-14.367	-23.766	1.00	86.44	O
ATOM	1354	CG	GLU A 171	42.312	-17.031	-22.109	1.00	86.44	C
ATOM	1355	CD	GLU A 171	40.844	-17.375	-22.359	1.00	86.44	C
ATOM	1356	OE1	GLU A 171	40.562	-18.078	-23.344	1.00	86.44	O
ATOM	1357	OE2	GLU A 171	40.000	-16.922	-21.562	1.00	86.44	O
ATOM	1358	N	ASP A 172	45.688	-16.406	-23.125	1.00	87.88	N
ATOM	1359	CA	ASP A 172	46.469	-16.750	-24.312	1.00	87.88	C
ATOM	1360	C	ASP A 172	47.250	-15.539	-24.828	1.00	87.88	C
ATOM	1361	CB	ASP A 172	45.531	-17.266	-25.422	1.00	87.88	C
ATOM	1362	O	ASP A 172	47.219	-15.203	-26.000	1.00	87.88	O
ATOM	1363	CG	ASP A 172	44.938	-18.609	-25.094	1.00	87.88	C
ATOM	1364	OD1	ASP A 172	45.594	-19.453	-24.453	1.00	87.88	O
ATOM	1365	OD2	ASP A 172	43.750	-18.844	-25.469	1.00	87.88	O
ATOM	1366	N	ASN A 173	47.969	-14.750	-23.906	1.00	87.75	N
ATOM	1367	CA	ASN A 173	48.844	-13.625	-24.203	1.00	87.75	C
ATOM	1368	C	ASN A 173	48.062	-12.406	-24.672	1.00	87.75	C
ATOM	1369	CB	ASN A 173	49.906	-14.016	-25.234	1.00	87.75	C
ATOM	1370	O	ASN A 173	48.594	-11.562	-25.391	1.00	87.75	O
ATOM	1371	CG	ASN A 173	50.938	-14.984	-24.688	1.00	87.75	C
ATOM	1372	ND2	ASN A 173	51.406	-15.875	-25.547	1.00	87.75	N
ATOM	1373	OD1	ASN A 173	51.281	-14.914	-23.516	1.00	87.75	O
ATOM	1374	N	VAL A 174	46.781	-12.445	-24.562	1.00	88.50	N
ATOM	1375	CA	VAL A 174	45.875	-11.305	-24.766	1.00	88.50	C
ATOM	1376	C	VAL A 174	45.375	-10.773	-23.422	1.00	88.50	C
ATOM	1377	CB	VAL A 174	44.688	-11.672	-25.672	1.00	88.50	C
ATOM	1378	O	VAL A 174	44.844	-11.531	-22.625	1.00	88.50	O
ATOM	1379	CG1	VAL A 174	43.781	-10.461	-25.891	1.00	88.50	C
ATOM	1380	CG2	VAL A 174	45.188	-12.219	-27.016	1.00	88.50	C
ATOM	1381	N	LYS A 175	45.688	-9.547	-23.141	1.00	90.25	N
ATOM	1382	CA	LYS A 175	45.094	-8.844	-22.016	1.00	90.25	C
ATOM	1383	C	LYS A 175	43.719	-8.289	-22.391	1.00	90.25	C
ATOM	1384	CB	LYS A 175	46.000	-7.707	-21.547	1.00	90.25	C
ATOM	1385	O	LYS A 175	43.594	-7.488	-23.312	1.00	90.25	O
ATOM	1386	CG	LYS A 175	45.562	-7.055	-20.250	1.00	90.25	C
ATOM	1387	CD	LYS A 175	46.531	-5.988	-19.781	1.00	90.25	C
ATOM	1388	CE	LYS A 175	46.062	-5.316	-18.500	1.00	90.25	C
ATOM	1389	NZ	LYS A 175	47.031	-4.273	-18.047	1.00	90.25	N
ATOM	1390	N	LYS A 176	42.719	-8.820	-21.766	1.00	93.12	N
ATOM	1391	CA	LYS A 176	41.344	-8.320	-22.000	1.00	93.12	C
ATOM	1392	C	LYS A 176	40.875	-7.484	-20.812	1.00	93.12	C
ATOM	1393	CB	LYS A 176	40.406	-9.477	-22.250	1.00	93.12	C
ATOM	1394	O	LYS A 176	40.938	-7.934	-19.656	1.00	93.12	O
ATOM	1395	CG	LYS A 176	40.688	-10.258	-23.516	1.00	93.12	C
ATOM	1396	CD	LYS A 176	39.656	-11.375	-23.734	1.00	93.12	C
ATOM	1397	CE	LYS A 176	39.969	-12.188	-24.984	1.00	93.12	C
ATOM	1398	NZ	LYS A 176	39.000	-13.289	-25.188	1.00	93.12	N

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ATOM	1399	N	THR A 177	40.500	-6.371	-21.031	1.00	93.56	N
ATOM	1400	CA	THR A 177	39.938	-5.453	-20.047	1.00	93.56	C
ATOM	1401	C	THR A 177	38.469	-5.164	-20.328	1.00	93.56	C
ATOM	1402	CB	THR A 177	40.719	-4.133	-20.016	1.00	93.56	C
ATOM	1403	O	THR A 177	38.125	-4.777	-21.453	1.00	93.56	O
ATOM	1404	CG2	THR A 177	40.188	-3.209	-18.906	1.00	93.56	C
ATOM	1405	OG1	THR A 177	42.094	-4.414	-19.750	1.00	93.56	O
ATOM	1406	N	LYS A 178	37.625	-5.473	-19.391	1.00	93.62	N
ATOM	1407	CA	LYS A 178	36.219	-5.145	-19.500	1.00	93.62	C
ATOM	1408	C	LYS A 178	35.844	-3.986	-18.562	1.00	93.62	C
ATOM	1409	CB	LYS A 178	35.375	-6.367	-19.156	1.00	93.62	C
ATOM	1410	O	LYS A 178	36.031	-4.074	-17.359	1.00	93.62	O
ATOM	1411	CG	LYS A 178	33.875	-6.172	-19.438	1.00	93.62	C
ATOM	1412	CD	LYS A 178	33.094	-7.441	-19.156	1.00	93.62	C
ATOM	1413	CE	LYS A 178	31.594	-7.242	-19.406	1.00	93.62	C
ATOM	1414	NZ	LYS A 178	30.812	-8.500	-19.172	1.00	93.62	N
ATOM	1415	N	LYS A 179	35.438	-2.961	-19.078	1.00	94.94	N
ATOM	1416	CA	LYS A 179	34.938	-1.813	-18.328	1.00	94.94	C
ATOM	1417	C	LYS A 179	33.438	-1.777	-18.328	1.00	94.94	C
ATOM	1418	CB	LYS A 179	35.500	-0.510	-18.906	1.00	94.94	C
ATOM	1419	O	LYS A 179	32.781	-1.816	-19.375	1.00	94.94	O
ATOM	1420	CG	LYS A 179	37.031	-0.375	-18.797	1.00	94.94	C
ATOM	1421	CD	LYS A 179	37.500	0.957	-19.359	1.00	94.94	C
ATOM	1422	CE	LYS A 179	39.031	1.078	-19.281	1.00	94.94	C
ATOM	1423	NZ	LYS A 179	39.500	2.371	-19.859	1.00	94.94	N
ATOM	1424	N	THR A 180	32.844	-1.858	-17.219	1.00	94.62	N
ATOM	1425	CA	THR A 180	31.391	-1.824	-17.094	1.00	94.62	C
ATOM	1426	C	THR A 180	30.953	-0.559	-16.359	1.00	94.62	C
ATOM	1427	CB	THR A 180	30.875	-3.062	-16.328	1.00	94.62	C
ATOM	1428	O	THR A 180	31.500	-0.207	-15.320	1.00	94.62	O
ATOM	1429	CG2	THR A 180	29.344	-3.064	-16.266	1.00	94.62	C
ATOM	1430	OG1	THR A 180	31.312	-4.246	-17.016	1.00	94.62	O
ATOM	1431	N	THR A 181	30.062	0.141	-16.922	1.00	94.81	N
ATOM	1432	CA	THR A 181	29.375	1.266	-16.281	1.00	94.81	C
ATOM	1433	C	THR A 181	27.922	0.931	-16.016	1.00	94.81	C
ATOM	1434	CB	THR A 181	29.469	2.533	-17.156	1.00	94.81	C
ATOM	1435	O	THR A 181	27.156	0.633	-16.938	1.00	94.81	O
ATOM	1436	CG2	THR A 181	28.828	3.727	-16.453	1.00	94.81	C
ATOM	1437	OG1	THR A 181	30.844	2.830	-17.422	1.00	94.81	O
ATOM	1438	N	LYS A 182	27.594	0.841	-14.797	1.00	93.94	N
ATOM	1439	CA	LYS A 182	26.219	0.557	-14.398	1.00	93.94	C
ATOM	1440	C	LYS A 182	25.547	1.797	-13.820	1.00	93.94	C
ATOM	1441	CB	LYS A 182	26.172	-0.587	-13.391	1.00	93.94	C
ATOM	1442	O	LYS A 182	26.047	2.395	-12.867	1.00	93.94	O
ATOM	1443	CG	LYS A 182	24.766	-1.062	-13.047	1.00	93.94	C
ATOM	1444	CD	LYS A 182	24.797	-2.256	-12.102	1.00	93.94	C
ATOM	1445	CE	LYS A 182	23.391	-2.729	-11.758	1.00	93.94	C
ATOM	1446	NZ	LYS A 182	23.406	-3.914	-10.852	1.00	93.94	N
ATOM	1447	N	THR A 183	24.531	2.215	-14.406	1.00	94.75	N
ATOM	1448	CA	THR A 183	23.719	3.334	-13.922	1.00	94.75	C
ATOM	1449	C	THR A 183	22.391	2.842	-13.367	1.00	94.75	C
ATOM	1450	CB	THR A 183	23.469	4.359	-15.047	1.00	94.75	C
ATOM	1451	O	THR A 183	21.641	2.162	-14.070	1.00	94.75	O

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ATOM	1452	CG2 THR A 183	22.688	5.559	-14.523	1.00	94.75	C
ATOM	1453	OG1 THR A 183	24.734	4.816	-15.555	1.00	94.75	O
ATOM	1454	N THR A 184	22.141	3.131	-12.148	1.00	95.88	N
ATOM	1455	CA THR A 184	20.922	2.721	-11.484	1.00	95.88	C
ATOM	1456	C THR A 184	20.094	3.938	-11.078	1.00	95.88	C
ATOM	1457	CB THR A 184	21.203	1.861	-10.242	1.00	95.88	C
ATOM	1458	O THR A 184	20.578	4.836	-10.398	1.00	95.88	O
ATOM	1459	CG2 THR A 184	19.922	1.398	-9.570	1.00	95.88	C
ATOM	1460	OG1 THR A 184	21.969	0.713	-10.625	1.00	95.88	O
ATOM	1461	N THR A 185	18.922	4.047	-11.555	1.00	95.44	N
ATOM	1462	CA THR A 185	17.969	5.082	-11.148	1.00	95.44	C
ATOM	1463	C THR A 185	16.953	4.523	-10.164	1.00	95.44	C
ATOM	1464	CB THR A 185	17.234	5.672	-12.367	1.00	95.44	C
ATOM	1465	O THR A 185	16.266	3.545	-10.461	1.00	95.44	O
ATOM	1466	CG2 THR A 185	16.266	6.773	-11.945	1.00	95.44	C
ATOM	1467	OG1 THR A 185	18.203	6.219	-13.281	1.00	95.44	O
ATOM	1468	N THR A 186	16.938	5.035	-9.008	1.00	96.69	N
ATOM	1469	CA THR A 186	16.016	4.605	-7.965	1.00	96.69	C
ATOM	1470	C THR A 186	14.859	5.598	-7.820	1.00	96.69	C
ATOM	1471	CB THR A 186	16.734	4.449	-6.613	1.00	96.69	C
ATOM	1472	O THR A 186	15.086	6.801	-7.652	1.00	96.69	O
ATOM	1473	CG2 THR A 186	15.773	3.932	-5.539	1.00	96.69	C
ATOM	1474	OG1 THR A 186	17.812	3.520	-6.758	1.00	96.69	O
ATOM	1475	N ILE A 187	13.633	5.102	-7.926	1.00	96.25	N
ATOM	1476	CA ILE A 187	12.445	5.934	-7.816	1.00	96.25	C
ATOM	1477	C ILE A 187	11.633	5.520	-6.590	1.00	96.25	C
ATOM	1478	CB ILE A 187	11.570	5.840	-9.094	1.00	96.25	C
ATOM	1479	O ILE A 187	11.305	4.340	-6.426	1.00	96.25	O
ATOM	1480	CG1 ILE A 187	12.398	6.203	-10.328	1.00	96.25	C
ATOM	1481	CG2 ILE A 187	10.344	6.746	-8.969	1.00	96.25	C
ATOM	1482	CD1 ILE A 187	11.750	5.797	-11.648	1.00	96.25	C
ATOM	1483	N GLU A 188	11.375	6.438	-5.746	1.00	97.38	N
ATOM	1484	CA GLU A 188	10.531	6.195	-4.582	1.00	97.38	C
ATOM	1485	C GLU A 188	9.133	6.777	-4.781	1.00	97.38	C
ATOM	1486	CB GLU A 188	11.172	6.777	-3.318	1.00	97.38	C
ATOM	1487	O GLU A 188	8.984	7.988	-4.969	1.00	97.38	O
ATOM	1488	CG GLU A 188	12.508	6.152	-2.963	1.00	97.38	C
ATOM	1489	CD GLU A 188	13.062	6.641	-1.635	1.00	97.38	C
ATOM	1490	OE1 GLU A 188	13.969	5.980	-1.074	1.00	97.38	O
ATOM	1491	OE2 GLU A 188	12.594	7.695	-1.150	1.00	97.38	O
ATOM	1492	N LEU A 189	8.070	5.844	-4.754	1.00	96.25	N
ATOM	1493	CA LEU A 189	6.688	6.246	-4.961	1.00	96.25	C
ATOM	1494	C LEU A 189	5.859	6.004	-3.701	1.00	96.25	C
ATOM	1495	CB LEU A 189	6.078	5.484	-6.141	1.00	96.25	C
ATOM	1496	O LEU A 189	6.059	5.008	-3.002	1.00	96.25	O
ATOM	1497	CG LEU A 189	6.637	5.816	-7.523	1.00	96.25	C
ATOM	1498	CD1 LEU A 189	6.016	4.906	-8.578	1.00	96.25	C
ATOM	1499	CD2 LEU A 189	6.391	7.281	-7.863	1.00	96.25	C
ATOM	1500	N GLU A 190	5.133	6.977	-3.391	1.00	97.12	N
ATOM	1501	CA GLU A 190	4.105	6.781	-2.369	1.00	97.12	C
ATOM	1502	C GLU A 190	2.707	6.859	-2.971	1.00	97.12	C
ATOM	1503	CB GLU A 190	4.258	7.812	-1.250	1.00	97.12	C
ATOM	1504	O GLU A 190	2.371	7.836	-3.648	1.00	97.12	O

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ATOM	1505	CG	GLU A 190	3.305	7.602	-0.083	1.00	97.12	C
ATOM	1506	CD	GLU A 190	3.500	8.609	1.041	1.00	97.12	C
ATOM	1507	OE1	GLU A 190	2.893	9.703	0.987	1.00	97.12	O
ATOM	1508	OE2	GLU A 190	4.266	8.297	1.981	1.00	97.12	O
ATOM	1509	N	ILE A 191	1.881	5.828	-2.633	1.00	97.00	N
ATOM	1510	CA	ILE A 191	0.503	5.793	-3.111	1.00	97.00	C
ATOM	1511	C	ILE A 191	-0.455	5.742	-1.924	1.00	97.00	C
ATOM	1512	CB	ILE A 191	0.260	4.590	-4.051	1.00	97.00	C
ATOM	1513	O	ILE A 191	-0.384	4.828	-1.101	1.00	97.00	O
ATOM	1514	CG1	ILE A 191	1.229	4.633	-5.238	1.00	97.00	C
ATOM	1515	CG2	ILE A 191	-1.194	4.562	-4.527	1.00	97.00	C
ATOM	1516	CD1	ILE A 191	1.170	3.402	-6.129	1.00	97.00	C
ATOM	1517	N	ASP A 192	-1.226	6.766	-1.840	1.00	96.62	N
ATOM	1518	CA	ASP A 192	-2.260	6.785	-0.811	1.00	96.62	C
ATOM	1519	C	ASP A 192	-3.619	6.395	-1.389	1.00	96.62	C
ATOM	1520	CB	ASP A 192	-2.344	8.172	-0.162	1.00	96.62	C
ATOM	1521	O	ASP A 192	-4.105	7.027	-2.326	1.00	96.62	O
ATOM	1522	CG	ASP A 192	-1.097	8.531	0.625	1.00	96.62	C
ATOM	1523	OD1	ASP A 192	-0.725	7.785	1.556	1.00	96.62	O
ATOM	1524	OD2	ASP A 192	-0.483	9.578	0.312	1.00	96.62	O
ATOM	1525	N	ILE A 193	-4.215	5.410	-0.824	1.00	96.44	N
ATOM	1526	CA	ILE A 193	-5.535	4.980	-1.267	1.00	96.44	C
ATOM	1527	C	ILE A 193	-6.551	5.195	-0.145	1.00	96.44	C
ATOM	1528	CB	ILE A 193	-5.531	3.502	-1.709	1.00	96.44	C
ATOM	1529	O	ILE A 193	-6.457	4.566	0.913	1.00	96.44	O
ATOM	1530	CG1	ILE A 193	-4.492	3.279	-2.816	1.00	96.44	C
ATOM	1531	CG2	ILE A 193	-6.926	3.070	-2.170	1.00	96.44	C
ATOM	1532	CD1	ILE A 193	-4.305	1.819	-3.203	1.00	96.44	C
ATOM	1533	N	ASN A 194	-7.445	6.105	-0.439	1.00	96.06	N
ATOM	1534	CA	ASN A 194	-8.531	6.340	0.506	1.00	96.06	C
ATOM	1535	C	ASN A 194	-9.844	5.730	0.014	1.00	96.06	C
ATOM	1536	CB	ASN A 194	-8.703	7.836	0.766	1.00	96.06	C
ATOM	1537	O	ASN A 194	-10.320	6.066	-1.072	1.00	96.06	O
ATOM	1538	CG	ASN A 194	-7.492	8.461	1.425	1.00	96.06	C
ATOM	1539	ND2	ASN A 194	-6.828	9.367	0.712	1.00	96.06	N
ATOM	1540	OD1	ASN A 194	-7.152	8.133	2.564	1.00	96.06	O
ATOM	1541	N	MET A 195	-10.430	4.922	0.879	1.00	94.94	N
ATOM	1542	CA	MET A 195	-11.680	4.270	0.516	1.00	94.94	C
ATOM	1543	C	MET A 195	-12.789	4.629	1.505	1.00	94.94	C
ATOM	1544	CB	MET A 195	-11.500	2.752	0.458	1.00	94.94	C
ATOM	1545	O	MET A 195	-12.625	4.449	2.713	1.00	94.94	O
ATOM	1546	CG	MET A 195	-10.461	2.297	-0.552	1.00	94.94	C
ATOM	1547	SD	MET A 195	-10.250	0.474	-0.567	1.00	94.94	S
ATOM	1548	CE	MET A 195	-9.039	0.304	-1.909	1.00	94.94	C
ATOM	1549	N	LYS A 196	-13.836	5.188	0.891	1.00	95.31	N
ATOM	1550	CA	LYS A 196	-14.992	5.523	1.718	1.00	95.31	C
ATOM	1551	C	LYS A 196	-16.266	4.883	1.169	1.00	95.31	C
ATOM	1552	CB	LYS A 196	-15.164	7.039	1.809	1.00	95.31	C
ATOM	1553	O	LYS A 196	-16.469	4.828	-0.047	1.00	95.31	O
ATOM	1554	CG	LYS A 196	-14.062	7.742	2.580	1.00	95.31	C
ATOM	1555	CD	LYS A 196	-14.344	9.234	2.730	1.00	95.31	C
ATOM	1556	CE	LYS A 196	-13.227	9.945	3.482	1.00	95.31	C
ATOM	1557	NZ	LYS A 196	-13.484	11.406	3.602	1.00	95.31	N

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ATOM	1558	N	GLY A 197	-17.078	4.426	2.123	1.00	94.25	N
ATOM	1559	CA	GLY A 197	-18.391	3.898	1.739	1.00	94.25	C
ATOM	1560	C	GLY A 197	-19.516	4.441	2.586	1.00	94.25	C
ATOM	1561	O	GLY A 197	-19.344	4.695	3.779	1.00	94.25	O
ATOM	1562	N	GLU A 198	-20.594	4.707	1.871	1.00	92.50	N
ATOM	1563	CA	GLU A 198	-21.812	5.129	2.561	1.00	92.50	C
ATOM	1564	C	GLU A 198	-23.016	4.336	2.076	1.00	92.50	C
ATOM	1565	CB	GLU A 198	-22.047	6.629	2.361	1.00	92.50	C
ATOM	1566	O	GLU A 198	-23.141	4.035	0.888	1.00	92.50	O
ATOM	1567	CG	GLU A 198	-20.984	7.508	2.990	1.00	92.50	C
ATOM	1568	CD	GLU A 198	-21.234	8.992	2.797	1.00	92.50	C
ATOM	1569	OE1	GLU A 198	-21.172	9.758	3.789	1.00	92.50	O
ATOM	1570	OE2	GLU A 198	-21.500	9.398	1.642	1.00	92.50	O
ATOM	1571	N	LYS A 199	-23.828	3.887	3.049	1.00	90.19	N
ATOM	1572	CA	LYS A 199	-25.094	3.223	2.717	1.00	90.19	C
ATOM	1573	C	LYS A 199	-26.250	3.816	3.512	1.00	90.19	C
ATOM	1574	CB	LYS A 199	-24.984	1.720	2.979	1.00	90.19	C
ATOM	1575	O	LYS A 199	-26.156	3.973	4.730	1.00	90.19	O
ATOM	1576	CG	LYS A 199	-26.172	0.918	2.451	1.00	90.19	C
ATOM	1577	CD	LYS A 199	-25.906	-0.580	2.529	1.00	90.19	C
ATOM	1578	CE	LYS A 199	-27.047	-1.380	1.916	1.00	90.19	C
ATOM	1579	NZ	LYS A 199	-26.750	-2.842	1.887	1.00	90.19	N
ATOM	1580	N	VAL A 200	-27.328	4.164	2.756	1.00	82.12	N
ATOM	1581	CA	VAL A 200	-28.547	4.645	3.383	1.00	82.12	C
ATOM	1582	C	VAL A 200	-29.719	3.719	3.025	1.00	82.12	C
ATOM	1583	CB	VAL A 200	-28.875	6.094	2.959	1.00	82.12	C
ATOM	1584	O	VAL A 200	-29.953	3.441	1.848	1.00	82.12	O
ATOM	1585	CG1	VAL A 200	-30.156	6.578	3.631	1.00	82.12	C
ATOM	1586	CG2	VAL A 200	-27.703	7.020	3.295	1.00	82.12	C
ATOM	1587	N	GLU A 201	-30.328	3.139	4.012	1.00	83.81	N
ATOM	1588	CA	GLU A 201	-31.516	2.320	3.795	1.00	83.81	C
ATOM	1589	C	GLU A 201	-32.781	3.033	4.289	1.00	83.81	C
ATOM	1590	CB	GLU A 201	-31.359	0.965	4.492	1.00	83.81	C
ATOM	1591	O	GLU A 201	-32.750	3.652	5.355	1.00	83.81	O
ATOM	1592	CG	GLU A 201	-30.250	0.104	3.932	1.00	83.81	C
ATOM	1593	CD	GLU A 201	-30.125	-1.249	4.613	1.00	83.81	C
ATOM	1594	OE1	GLU A 201	-30.156	-2.287	3.916	1.00	83.81	O
ATOM	1595	OE2	GLU A 201	-30.000	-1.272	5.859	1.00	83.81	O
ATOM	1596	N	TYR A 202	-33.875	2.969	3.426	1.00	72.62	N
ATOM	1597	CA	TYR A 202	-35.188	3.508	3.828	1.00	72.62	C
ATOM	1598	C	TYR A 202	-36.156	2.389	4.152	1.00	72.62	C
ATOM	1599	CB	TYR A 202	-35.750	4.406	2.729	1.00	72.62	C
ATOM	1600	O	TYR A 202	-36.312	1.446	3.373	1.00	72.62	O
ATOM	1601	CG	TYR A 202	-35.031	5.711	2.559	1.00	72.62	C
ATOM	1602	CD1	TYR A 202	-35.375	6.836	3.295	1.00	72.62	C
ATOM	1603	CD2	TYR A 202	-33.969	5.816	1.664	1.00	72.62	C
ATOM	1604	CE1	TYR A 202	-34.688	8.039	3.141	1.00	72.62	C
ATOM	1605	CE2	TYR A 202	-33.281	7.016	1.502	1.00	72.62	C
ATOM	1606	OH	TYR A 202	-32.969	9.312	2.088	1.00	72.62	O
ATOM	1607	CZ	TYR A 202	-33.656	8.125	2.244	1.00	72.62	C
ATOM	1608	N	LYS A 203	-36.656	2.379	5.410	1.00	69.31	N
ATOM	1609	CA	LYS A 203	-37.781	1.481	5.609	1.00	69.31	C
ATOM	1610	C	LYS A 203	-39.094	2.156	5.215	1.00	69.31	C

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ATOM 1611 CB LYS A 203 -37.844 1.017 7.066 1.00 69.31 C
ATOM 1612 O LYS A 203 -39.375 3.264 5.668 1.00 69.31 O
ATOM 1613 CG LYS A 203 -36.750 0.017 7.445 1.00 69.31 C
ATOM 1614 CD LYS A 203 -37.312 -1.092 8.336 1.00 69.31 C
ATOM 1615 CE LYS A 203 -36.250 -2.119 8.680 1.00 69.31 C
ATOM 1616 NZ LYS A 203 -36.781 -3.195 9.570 1.00 69.31 N
ENDMDL
END
MODEL 1
ATOM 1 N ALA A 1 -55.688 -9.602 34.438 1.00 66.69 N
ATOM 2 CA ALA A 1 -54.406 -10.242 34.219 1.00 66.69 C
ATOM 3 C ALA A 1 -53.281 -9.219 34.188 1.00 66.69 C
ATOM 4 CB ALA A 1 -54.438 -11.047 32.938 1.00 66.69 C
ATOM 5 O ALA A 1 -53.406 -8.148 33.594 1.00 66.69 O
ATOM 6 N GLU A 2 -52.719 -8.938 35.375 1.00 75.81 N
ATOM 7 CA GLU A 2 -51.469 -8.180 35.562 1.00 75.81 C
ATOM 8 C GLU A 2 -50.500 -8.383 34.406 1.00 75.81 C
ATOM 9 CB GLU A 2 -50.812 -8.586 36.906 1.00 75.81 C
ATOM 10 O GLU A 2 -50.219 -9.523 34.031 1.00 75.81 O
ATOM 11 CG GLU A 2 -49.656 -7.684 37.281 1.00 75.81 C
ATOM 12 CD GLU A 2 -49.000 -8.070 38.625 1.00 75.81 C
ATOM 13 OE1 GLU A 2 -48.062 -7.398 39.062 1.00 75.81 O
ATOM 14 OE2 GLU A 2 -49.469 -9.062 39.219 1.00 75.81 O
ATOM 15 N VAL A 3 -50.438 -7.562 33.406 1.00 76.75 N
ATOM 16 CA VAL A 3 -49.438 -7.473 32.344 1.00 76.75 C
ATOM 17 C VAL A 3 -48.094 -7.086 32.906 1.00 76.75 C
ATOM 18 CB VAL A 3 -49.875 -6.453 31.250 1.00 76.75 C
ATOM 19 O VAL A 3 -48.000 -6.117 33.688 1.00 76.75 O
ATOM 20 CG1 VAL A 3 -48.781 -6.340 30.172 1.00 76.75 C
ATOM 21 CG2 VAL A 3 -51.219 -6.852 30.625 1.00 76.75 C
ATOM 22 N THR A 4 -47.156 -7.898 33.000 1.00 85.38 N
ATOM 23 CA THR A 4 -45.781 -7.648 33.406 1.00 85.38 C
ATOM 24 C THR A 4 -44.906 -7.254 32.219 1.00 85.38 C
ATOM 25 CB THR A 4 -45.156 -8.883 34.094 1.00 85.38 C
ATOM 26 O THR A 4 -44.969 -7.871 31.156 1.00 85.38 O
ATOM 27 CG2 THR A 4 -43.812 -8.562 34.719 1.00 85.38 C
ATOM 28 OG1 THR A 4 -46.062 -9.328 35.125 1.00 85.38 O
ATOM 29 N GLU A 5 -44.156 -6.086 32.281 1.00 87.00 N
ATOM 30 CA GLU A 5 -43.219 -5.543 31.281 1.00 87.00 C
ATOM 31 C GLU A 5 -41.781 -5.828 31.656 1.00 87.00 C
ATOM 32 CB GLU A 5 -43.438 -4.035 31.109 1.00 87.00 C
ATOM 33 O GLU A 5 -41.375 -5.625 32.812 1.00 87.00 O
ATOM 34 CG GLU A 5 -44.781 -3.662 30.531 1.00 87.00 C
ATOM 35 CD GLU A 5 -44.969 -2.168 30.297 1.00 87.00 C
ATOM 36 OE1 GLU A 5 -46.031 -1.746 29.781 1.00 87.00 O
ATOM 37 OE2 GLU A 5 -44.000 -1.416 30.609 1.00 87.00 O
ATOM 38 N GLU A 6 -41.031 -6.445 30.875 1.00 87.94 N
ATOM 39 CA GLU A 6 -39.594 -6.699 31.016 1.00 87.94 C
ATOM 40 C GLU A 6 -38.812 -6.031 29.891 1.00 87.94 C
ATOM 41 CB GLU A 6 -39.312 -8.203 31.031 1.00 87.94 C
ATOM 42 O GLU A 6 -39.219 -6.102 28.719 1.00 87.94 O
ATOM 43 CG GLU A 6 -39.938 -8.930 32.219 1.00 87.94 C
ATOM 44 CD GLU A 6 -39.625 -10.414 32.250 1.00 87.94 C

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ATOM	45	OE1	GLU	A	6	-39.938	-11.086	33.250	1.00	87.94	O
ATOM	46	OE2	GLU	A	6	-39.031	-10.914	31.250	1.00	87.94	O
ATOM	47	N	THR	A	7	-37.781	-5.277	30.297	1.00	86.75	N
ATOM	48	CA	THR	A	7	-36.875	-4.625	29.344	1.00	86.75	C
ATOM	49	C	THR	A	7	-35.469	-5.176	29.453	1.00	86.75	C
ATOM	50	CB	THR	A	7	-36.875	-3.100	29.547	1.00	86.75	C
ATOM	51	O	THR	A	7	-34.906	-5.254	30.562	1.00	86.75	O
ATOM	52	CG2	THR	A	7	-36.031	-2.410	28.469	1.00	86.75	C
ATOM	53	OG1	THR	A	7	-38.219	-2.600	29.484	1.00	86.75	O
ATOM	54	N	GLU	A	8	-34.906	-5.648	28.422	1.00	91.38	N
ATOM	55	CA	GLU	A	8	-33.531	-6.078	28.297	1.00	91.38	C
ATOM	56	C	GLU	A	8	-32.750	-5.109	27.422	1.00	91.38	C
ATOM	57	CB	GLU	A	8	-33.469	-7.492	27.703	1.00	91.38	C
ATOM	58	O	GLU	A	8	-33.188	-4.746	26.328	1.00	91.38	O
ATOM	59	CG	GLU	A	8	-32.062	-8.062	27.656	1.00	91.38	C
ATOM	60	CD	GLU	A	8	-32.000	-9.461	27.047	1.00	91.38	C
ATOM	61	OE1	GLU	A	8	-30.875	-9.992	26.844	1.00	91.38	O
ATOM	62	OE2	GLU	A	8	-33.094	-10.023	26.766	1.00	91.38	O
ATOM	63	N	GLU	A	9	-31.656	-4.570	28.000	1.00	93.00	N
ATOM	64	CA	GLU	A	9	-30.766	-3.670	27.266	1.00	93.00	C
ATOM	65	C	GLU	A	9	-29.469	-4.363	26.891	1.00	93.00	C
ATOM	66	CB	GLU	A	9	-30.484	-2.412	28.094	1.00	93.00	C
ATOM	67	O	GLU	A	9	-28.844	-5.027	27.719	1.00	93.00	O
ATOM	68	CG	GLU	A	9	-31.703	-1.528	28.312	1.00	93.00	C
ATOM	69	CD	GLU	A	9	-31.359	-0.172	28.906	1.00	93.00	C
ATOM	70	OE1	GLU	A	9	-32.250	0.678	29.047	1.00	93.00	O
ATOM	71	OE2	GLU	A	9	-30.172	0.042	29.234	1.00	93.00	O
ATOM	72	N	GLU	A	10	-29.078	-4.320	25.672	1.00	93.31	N
ATOM	73	CA	GLU	A	10	-27.828	-4.867	25.156	1.00	93.31	C
ATOM	74	C	GLU	A	10	-27.016	-3.803	24.422	1.00	93.31	C
ATOM	75	CB	GLU	A	10	-28.094	-6.059	24.234	1.00	93.31	C
ATOM	76	O	GLU	A	10	-27.547	-3.094	23.562	1.00	93.31	O
ATOM	77	CG	GLU	A	10	-26.828	-6.727	23.703	1.00	93.31	C
ATOM	78	CD	GLU	A	10	-27.125	-7.883	22.750	1.00	93.31	C
ATOM	79	OE1	GLU	A	10	-26.172	-8.625	22.406	1.00	93.31	O
ATOM	80	OE2	GLU	A	10	-28.297	-8.047	22.359	1.00	93.31	O
ATOM	81	N	ASN	A	11	-25.828	-3.578	24.859	1.00	92.12	N
ATOM	82	CA	ASN	A	11	-24.922	-2.650	24.203	1.00	92.12	C
ATOM	83	C	ASN	A	11	-23.828	-3.389	23.438	1.00	92.12	C
ATOM	84	CB	ASN	A	11	-24.312	-1.687	25.219	1.00	92.12	C
ATOM	85	O	ASN	A	11	-23.125	-4.227	24.016	1.00	92.12	O
ATOM	86	CG	ASN	A	11	-25.328	-0.761	25.844	1.00	92.12	C
ATOM	87	ND2	ASN	A	11	-25.172	-0.489	27.141	1.00	92.12	N
ATOM	88	OD1	ASN	A	11	-26.250	-0.294	25.172	1.00	92.12	O
ATOM	89	N	LYS	A	12	-23.734	-3.158	22.172	1.00	92.56	N
ATOM	90	CA	LYS	A	12	-22.703	-3.764	21.328	1.00	92.56	C
ATOM	91	C	LYS	A	12	-21.766	-2.707	20.766	1.00	92.56	C
ATOM	92	CB	LYS	A	12	-23.359	-4.551	20.188	1.00	92.56	C
ATOM	93	O	LYS	A	12	-22.188	-1.602	20.422	1.00	92.56	O
ATOM	94	CG	LYS	A	12	-24.156	-5.762	20.641	1.00	92.56	C
ATOM	95	CD	LYS	A	12	-24.688	-6.555	19.453	1.00	92.56	C
ATOM	96	CE	LYS	A	12	-25.500	-7.766	19.906	1.00	92.56	C
ATOM	97	NZ	LYS	A	12	-26.078	-8.508	18.750	1.00	92.56	N

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ATOM	98	N	GLU A 13	-20.562	-3.027	20.844	1.00	92.56	N
ATOM	99	CA	GLU A 13	-19.562	-2.170	20.203	1.00	92.56	C
ATOM	100	C	GLU A 13	-18.828	-2.908	19.094	1.00	92.56	C
ATOM	101	CB	GLU A 13	-18.562	-1.653	21.234	1.00	92.56	C
ATOM	102	O	GLU A 13	-18.453	-4.070	19.250	1.00	92.56	O
ATOM	103	CG	GLU A 13	-19.172	-0.747	22.297	1.00	92.56	C
ATOM	104	CD	GLU A 13	-18.156	-0.197	23.281	1.00	92.56	C
ATOM	105	OE1	GLU A 13	-18.469	0.781	24.000	1.00	92.56	O
ATOM	106	OE2	GLU A 13	-17.031	-0.749	23.344	1.00	92.56	O
ATOM	107	N	LYS A 14	-18.641	-2.205	17.969	1.00	93.12	N
ATOM	108	CA	LYS A 14	-17.938	-2.773	16.828	1.00	93.12	C
ATOM	109	C	LYS A 14	-17.016	-1.738	16.188	1.00	93.12	C
ATOM	110	CB	LYS A 14	-18.906	-3.318	15.789	1.00	93.12	C
ATOM	111	O	LYS A 14	-17.188	-0.535	16.375	1.00	93.12	O
ATOM	112	CG	LYS A 14	-19.797	-4.449	16.297	1.00	93.12	C
ATOM	113	CD	LYS A 14	-20.734	-4.961	15.227	1.00	93.12	C
ATOM	114	CE	LYS A 14	-21.625	-6.090	15.734	1.00	93.12	C
ATOM	115	NZ	LYS A 14	-22.578	-6.559	14.695	1.00	93.12	N
ATOM	116	N	VAL A 15	-16.078	-2.264	15.531	1.00	95.56	N
ATOM	117	CA	VAL A 15	-15.156	-1.414	14.789	1.00	95.56	C
ATOM	118	C	VAL A 15	-15.227	-1.757	13.297	1.00	95.56	C
ATOM	119	CB	VAL A 15	-13.711	-1.561	15.305	1.00	95.56	C
ATOM	120	O	VAL A 15	-15.258	-2.932	12.930	1.00	95.56	O
ATOM	121	CG1	VAL A 15	-12.758	-0.681	14.492	1.00	95.56	C
ATOM	122	CG2	VAL A 15	-13.633	-1.211	16.781	1.00	95.56	C
ATOM	123	N	LYS A 16	-15.375	-0.738	12.500	1.00	96.25	N
ATOM	124	CA	LYS A 16	-15.281	-0.878	11.047	1.00	96.25	C
ATOM	125	C	LYS A 16	-14.016	-0.209	10.516	1.00	96.25	C
ATOM	126	CB	LYS A 16	-16.516	-0.285	10.375	1.00	96.25	C
ATOM	127	O	LYS A 16	-13.820	0.994	10.695	1.00	96.25	O
ATOM	128	CG	LYS A 16	-16.562	-0.492	8.867	1.00	96.25	C
ATOM	129	CD	LYS A 16	-17.812	0.115	8.250	1.00	96.25	C
ATOM	130	CE	LYS A 16	-17.828	-0.047	6.738	1.00	96.25	C
ATOM	131	NZ	LYS A 16	-19.062	0.533	6.133	1.00	96.25	N
ATOM	132	N	VAL A 17	-13.094	-1.042	9.938	1.00	96.50	N
ATOM	133	CA	VAL A 17	-11.844	-0.512	9.406	1.00	96.50	C
ATOM	134	C	VAL A 17	-11.891	-0.504	7.879	1.00	96.50	C
ATOM	135	CB	VAL A 17	-10.625	-1.329	9.891	1.00	96.50	C
ATOM	136	O	VAL A 17	-12.203	-1.521	7.258	1.00	96.50	O
ATOM	137	CG1	VAL A 17	-9.328	-0.772	9.305	1.00	96.50	C
ATOM	138	CG2	VAL A 17	-10.562	-1.332	11.422	1.00	96.50	C
ATOM	139	N	ASN A 18	-11.711	0.668	7.316	1.00	96.81	N
ATOM	140	CA	ASN A 18	-11.562	0.831	5.871	1.00	96.81	C
ATOM	141	C	ASN A 18	-10.117	1.169	5.492	1.00	96.81	C
ATOM	142	CB	ASN A 18	-12.516	1.908	5.352	1.00	96.81	C
ATOM	143	O	ASN A 18	-9.570	2.176	5.945	1.00	96.81	O
ATOM	144	CG	ASN A 18	-13.969	1.594	5.648	1.00	96.81	C
ATOM	145	ND2	ASN A 18	-14.695	2.584	6.145	1.00	96.81	N
ATOM	146	OD1	ASN A 18	-14.430	0.470	5.430	1.00	96.81	O
ATOM	147	N	VAL A 19	-9.461	0.273	4.676	1.00	96.88	N
ATOM	148	CA	VAL A 19	-8.070	0.483	4.273	1.00	96.88	C
ATOM	149	C	VAL A 19	-7.996	0.669	2.762	1.00	96.88	C
ATOM	150	CB	VAL A 19	-7.168	-0.692	4.715	1.00	96.88	C

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ATOM	151	O	VAL A 19	-8.469	-0.177	2.000	1.00	96.88	O
ATOM	152	CG1	VAL A 19	-5.730	-0.469	4.254	1.00	96.88	C
ATOM	153	CG2	VAL A 19	-7.227	-0.872	6.230	1.00	96.88	C
ATOM	154	N	THR A 20	-7.547	1.807	2.379	1.00	96.69	N
ATOM	155	CA	THR A 20	-7.188	2.018	0.980	1.00	96.69	C
ATOM	156	C	THR A 20	-5.684	1.861	0.778	1.00	96.69	C
ATOM	157	CB	THR A 20	-7.633	3.410	0.494	1.00	96.69	C
ATOM	158	O	THR A 20	-4.895	2.627	1.336	1.00	96.69	O
ATOM	159	CG2	THR A 20	-7.312	3.605	-0.983	1.00	96.69	C
ATOM	160	OG1	THR A 20	-9.047	3.549	0.687	1.00	96.69	O
ATOM	161	N	LEU A 21	-5.273	0.843	-0.002	1.00	96.31	N
ATOM	162	CA	LEU A 21	-3.875	0.520	-0.263	1.00	96.31	C
ATOM	163	C	LEU A 21	-3.457	0.993	-1.651	1.00	96.31	C
ATOM	164	CB	LEU A 21	-3.639	-0.987	-0.133	1.00	96.31	C
ATOM	165	O	LEU A 21	-4.020	0.555	-2.656	1.00	96.31	O
ATOM	166	CG	LEU A 21	-2.219	-1.479	-0.416	1.00	96.31	C
ATOM	167	CD1	LEU A 21	-1.245	-0.904	0.608	1.00	96.31	C
ATOM	168	CD2	LEU A 21	-2.170	-3.002	-0.413	1.00	96.31	C
ATOM	169	N	ASN A 22	-2.516	1.931	-1.672	1.00	95.94	N
ATOM	170	CA	ASN A 22	-1.963	2.459	-2.914	1.00	95.94	C
ATOM	171	C	ASN A 22	-0.520	2.008	-3.123	1.00	95.94	C
ATOM	172	CB	ASN A 22	-2.051	3.986	-2.936	1.00	95.94	C
ATOM	173	O	ASN A 22	0.316	2.154	-2.230	1.00	95.94	O
ATOM	174	CG	ASN A 22	-3.471	4.492	-2.770	1.00	95.94	C
ATOM	175	ND2	ASN A 22	-3.734	5.164	-1.653	1.00	95.94	N
ATOM	176	OD1	ASN A 22	-4.324	4.281	-3.635	1.00	95.94	O
ATOM	177	N	THR A 23	-0.256	1.465	-4.324	1.00	93.69	N
ATOM	178	CA	THR A 23	1.097	0.993	-4.602	1.00	93.69	C
ATOM	179	C	THR A 23	1.661	1.671	-5.844	1.00	93.69	C
ATOM	180	CB	THR A 23	1.128	-0.536	-4.785	1.00	93.69	C
ATOM	181	O	THR A 23	0.967	1.801	-6.855	1.00	93.69	O
ATOM	182	CG2	THR A 23	0.669	-1.252	-3.520	1.00	93.69	C
ATOM	183	OG1	THR A 23	0.262	-0.898	-5.867	1.00	93.69	O
ATOM	184	N	ASN A 24	2.840	2.170	-5.727	1.00	94.56	N
ATOM	185	CA	ASN A 24	3.609	2.789	-6.801	1.00	94.56	C
ATOM	186	C	ASN A 24	5.039	2.256	-6.844	1.00	94.56	C
ATOM	187	CB	ASN A 24	3.615	4.312	-6.652	1.00	94.56	C
ATOM	188	O	ASN A 24	5.738	2.260	-5.832	1.00	94.56	O
ATOM	189	CG	ASN A 24	2.219	4.898	-6.617	1.00	94.56	C
ATOM	190	ND2	ASN A 24	1.763	5.281	-5.430	1.00	94.56	N
ATOM	191	OD1	ASN A 24	1.554	5.012	-7.652	1.00	94.56	O
ATOM	192	N	SER A 25	5.414	1.851	-8.070	1.00	95.38	N
ATOM	193	CA	SER A 25	6.730	1.223	-8.125	1.00	95.38	C
ATOM	194	C	SER A 25	7.508	1.679	-9.359	1.00	95.38	C
ATOM	195	CB	SER A 25	6.598	-0.301	-8.133	1.00	95.38	C
ATOM	196	O	SER A 25	6.918	1.954	-10.406	1.00	95.38	O
ATOM	197	OG	SER A 25	5.910	-0.752	-6.980	1.00	95.38	O
ATOM	198	N	SER A 26	8.805	1.731	-9.141	1.00	95.12	N
ATOM	199	CA	SER A 26	9.703	2.043	-10.250	1.00	95.12	C
ATOM	200	C	SER A 26	11.062	1.387	-10.062	1.00	95.12	C
ATOM	201	CB	SER A 26	9.867	3.557	-10.391	1.00	95.12	C
ATOM	202	O	SER A 26	11.453	1.060	-8.938	1.00	95.12	O
ATOM	203	OG	SER A 26	10.477	4.105	-9.234	1.00	95.12	O

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ATOM	204	N	ALA A 27	11.703	1.057	-11.133	1.00	95.25	N
ATOM	205	CA	ALA A 27	13.047	0.486	-11.117	1.00	95.25	C
ATOM	206	C	ALA A 27	13.914	1.104	-12.211	1.00	95.25	C
ATOM	207	CB	ALA A 27	12.984	-1.030	-11.289	1.00	95.25	C
ATOM	208	O	ALA A 27	13.422	1.471	-13.273	1.00	95.25	O
ATOM	209	N	SER A 28	15.227	1.248	-11.852	1.00	94.56	N
ATOM	210	CA	SER A 28	16.188	1.724	-12.859	1.00	94.56	C
ATOM	211	C	SER A 28	17.516	0.999	-12.734	1.00	94.56	C
ATOM	212	CB	SER A 28	16.391	3.230	-12.719	1.00	94.56	C
ATOM	213	O	SER A 28	17.828	0.429	-11.688	1.00	94.56	O
ATOM	214	OG	SER A 28	17.016	3.541	-11.484	1.00	94.56	O
ATOM	215	N	TRP A 29	18.156	1.002	-13.820	1.00	93.56	N
ATOM	216	CA	TRP A 29	19.484	0.396	-13.742	1.00	93.56	C
ATOM	217	C	TRP A 29	20.453	1.092	-14.688	1.00	93.56	C
ATOM	218	CB	TRP A 29	19.406	-1.098	-14.070	1.00	93.56	C
ATOM	219	O	TRP A 29	20.047	1.637	-15.711	1.00	93.56	O
ATOM	220	CG	TRP A 29	19.078	-1.393	-15.500	1.00	93.56	C
ATOM	221	CD1	TRP A 29	19.969	-1.644	-16.516	1.00	93.56	C
ATOM	222	CD2	TRP A 29	17.781	-1.462	-16.094	1.00	93.56	C
ATOM	223	CE2	TRP A 29	17.953	-1.760	-17.453	1.00	93.56	C
ATOM	224	CE3	TRP A 29	16.484	-1.302	-15.586	1.00	93.56	C
ATOM	225	NE1	TRP A 29	19.297	-1.865	-17.688	1.00	93.56	N
ATOM	226	CH2	TRP A 29	15.617	-1.739	-17.812	1.00	93.56	C
ATOM	227	CZ2	TRP A 29	16.875	-1.900	-18.328	1.00	93.56	C
ATOM	228	CZ3	TRP A 29	15.406	-1.442	-16.453	1.00	93.56	C
ATOM	229	N	THR A 30	21.750	1.128	-14.172	1.00	92.62	N
ATOM	230	CA	THR A 30	22.844	1.729	-14.922	1.00	92.62	C
ATOM	231	C	THR A 30	23.984	0.729	-15.117	1.00	92.62	C
ATOM	232	CB	THR A 30	23.375	2.988	-14.211	1.00	92.62	C
ATOM	233	O	THR A 30	24.422	0.094	-14.156	1.00	92.62	O
ATOM	234	CG2	THR A 30	24.516	3.623	-15.008	1.00	92.62	C
ATOM	235	OG1	THR A 30	22.312	3.941	-14.078	1.00	92.62	O
ATOM	236	N	LYS A 31	24.297	0.585	-16.328	1.00	90.38	N
ATOM	237	CA	LYS A 31	25.453	-0.243	-16.656	1.00	90.38	C
ATOM	238	C	LYS A 31	26.625	0.614	-17.125	1.00	90.38	C
ATOM	239	CB	LYS A 31	25.094	-1.255	-17.750	1.00	90.38	C
ATOM	240	O	LYS A 31	26.516	1.374	-18.078	1.00	90.38	O
ATOM	241	CG	LYS A 31	26.156	-2.305	-18.000	1.00	90.38	C
ATOM	242	CD	LYS A 31	25.719	-3.318	-19.047	1.00	90.38	C
ATOM	243	CE	LYS A 31	26.781	-4.363	-19.312	1.00	90.38	C
ATOM	244	NZ	LYS A 31	26.344	-5.375	-20.312	1.00	90.38	N
ATOM	245	N	LYS A 32	27.781	0.469	-16.391	1.00	91.50	N
ATOM	246	CA	LYS A 32	28.938	1.271	-16.734	1.00	91.50	C
ATOM	247	C	LYS A 32	30.078	0.393	-17.266	1.00	91.50	C
ATOM	248	CB	LYS A 32	29.422	2.072	-15.531	1.00	91.50	C
ATOM	249	O	LYS A 32	30.312	-0.702	-16.750	1.00	91.50	O
ATOM	250	CG	LYS A 32	28.438	3.135	-15.055	1.00	91.50	C
ATOM	251	CD	LYS A 32	29.031	3.969	-13.922	1.00	91.50	C
ATOM	252	CE	LYS A 32	28.062	5.051	-13.469	1.00	91.50	C
ATOM	253	NZ	LYS A 32	28.641	5.906	-12.391	1.00	91.50	N
ATOM	254	N	SER A 33	30.688	0.826	-18.391	1.00	89.94	N
ATOM	255	CA	SER A 33	31.969	0.299	-18.891	1.00	89.94	C
ATOM	256	C	SER A 33	33.000	1.398	-19.000	1.00	89.94	C

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ATOM	257	CB	SER A 33	31.766	-0.367	-20.250	1.00	89.94	C
ATOM	258	O	SER A 33	32.781	2.539	-18.594	1.00	89.94	O
ATOM	259	OG	SER A 33	31.516	0.603	-21.250	1.00	89.94	O
ATOM	260	N	ALA A 34	34.281	1.047	-19.359	1.00	87.00	N
ATOM	261	CA	ALA A 34	35.375	2.027	-19.484	1.00	87.00	C
ATOM	262	C	ALA A 34	34.938	3.191	-20.375	1.00	87.00	C
ATOM	263	CB	ALA A 34	36.625	1.368	-20.047	1.00	87.00	C
ATOM	264	O	ALA A 34	35.250	4.348	-20.094	1.00	87.00	O
ATOM	265	N	THR A 35	34.125	2.959	-21.312	1.00	87.56	N
ATOM	266	CA	THR A 35	33.906	4.004	-22.312	1.00	87.56	C
ATOM	267	C	THR A 35	32.406	4.277	-22.469	1.00	87.56	C
ATOM	268	CB	THR A 35	34.500	3.621	-23.672	1.00	87.56	C
ATOM	269	O	THR A 35	32.000	5.230	-23.156	1.00	87.56	O
ATOM	270	CG2	THR A 35	36.031	3.531	-23.578	1.00	87.56	C
ATOM	271	OG1	THR A 35	33.969	2.352	-24.078	1.00	87.56	O
ATOM	272	N	THR A 36	31.531	3.480	-21.781	1.00	89.75	N
ATOM	273	CA	THR A 36	30.109	3.621	-22.062	1.00	89.75	C
ATOM	274	C	THR A 36	29.312	3.578	-20.766	1.00	89.75	C
ATOM	275	CB	THR A 36	29.609	2.518	-23.016	1.00	89.75	C
ATOM	276	O	THR A 36	29.656	2.850	-19.828	1.00	89.75	O
ATOM	277	CG2	THR A 36	28.141	2.723	-23.359	1.00	89.75	C
ATOM	278	OG1	THR A 36	30.391	2.545	-24.219	1.00	89.75	O
ATOM	279	N	THR A 37	28.250	4.398	-20.656	1.00	93.25	N
ATOM	280	CA	THR A 37	27.219	4.348	-19.609	1.00	93.25	C
ATOM	281	C	THR A 37	25.844	4.148	-20.219	1.00	93.25	C
ATOM	282	CB	THR A 37	27.219	5.629	-18.766	1.00	93.25	C
ATOM	283	O	THR A 37	25.422	4.910	-21.109	1.00	93.25	O
ATOM	284	CG2	THR A 37	26.172	5.562	-17.656	1.00	93.25	C
ATOM	285	OG1	THR A 37	28.516	5.793	-18.156	1.00	93.25	O
ATOM	286	N	GLU A 38	25.172	3.084	-19.703	1.00	92.12	N
ATOM	287	CA	GLU A 38	23.812	2.818	-20.141	1.00	92.12	C
ATOM	288	C	GLU A 38	22.812	2.984	-19.000	1.00	92.12	C
ATOM	289	CB	GLU A 38	23.703	1.410	-20.734	1.00	92.12	C
ATOM	290	O	GLU A 38	23.016	2.414	-17.922	1.00	92.12	O
ATOM	291	CG	GLU A 38	24.531	1.205	-21.984	1.00	92.12	C
ATOM	292	CD	GLU A 38	24.391	-0.190	-22.578	1.00	92.12	C
ATOM	293	OE1	GLU A 38	25.016	-0.468	-23.641	1.00	92.12	O
ATOM	294	OE2	GLU A 38	23.656	-1.011	-21.984	1.00	92.12	O
ATOM	295	N	THR A 39	21.828	3.730	-19.250	1.00	93.25	N
ATOM	296	CA	THR A 39	20.781	3.922	-18.234	1.00	93.25	C
ATOM	297	C	THR A 39	19.422	3.467	-18.766	1.00	93.25	C
ATOM	298	CB	THR A 39	20.703	5.398	-17.797	1.00	93.25	C
ATOM	299	O	THR A 39	19.094	3.721	-19.922	1.00	93.25	O
ATOM	300	CG2	THR A 39	21.953	5.820	-17.047	1.00	93.25	C
ATOM	301	OG1	THR A 39	20.547	6.227	-18.953	1.00	93.25	O
ATOM	302	N	SER A 40	18.688	2.754	-17.859	1.00	93.38	N
ATOM	303	CA	SER A 40	17.344	2.273	-18.141	1.00	93.38	C
ATOM	304	C	SER A 40	16.406	2.467	-16.953	1.00	93.38	C
ATOM	305	CB	SER A 40	17.375	0.795	-18.547	1.00	93.38	C
ATOM	306	O	SER A 40	16.844	2.432	-15.805	1.00	93.38	O
ATOM	307	OG	SER A 40	18.250	0.586	-19.625	1.00	93.38	O
ATOM	308	N	SER A 41	15.125	2.672	-17.297	1.00	93.31	N
ATOM	309	CA	SER A 41	14.156	2.838	-16.219	1.00	93.31	C

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ATOM	310	C	SER A 41	12.844	2.135	-16.547	1.00	93.31	C
ATOM	311	CB	SER A 41	13.898	4.320	-15.953	1.00	93.31	C
ATOM	312	O	SER A 41	12.492	1.974	-17.719	1.00	93.31	O
ATOM	313	OG	SER A 41	13.352	4.949	-17.109	1.00	93.31	O
ATOM	314	N	LEU A 42	12.125	1.661	-15.492	1.00	92.44	N
ATOM	315	CA	LEU A 42	10.828	0.998	-15.578	1.00	92.44	C
ATOM	316	C	LEU A 42	9.852	1.571	-14.555	1.00	92.44	C
ATOM	317	CB	LEU A 42	10.984	-0.510	-15.367	1.00	92.44	C
ATOM	318	O	LEU A 42	10.211	1.766	-13.391	1.00	92.44	O
ATOM	319	CG	LEU A 42	11.641	-1.293	-16.500	1.00	92.44	C
ATOM	320	CD1	LEU A 42	12.055	-2.682	-16.016	1.00	92.44	C
ATOM	321	CD2	LEU A 42	10.703	-1.393	-17.703	1.00	92.44	C
ATOM	322	N	THR A 43	8.672	1.919	-15.070	1.00	90.06	N
ATOM	323	CA	THR A 43	7.578	2.285	-14.172	1.00	90.06	C
ATOM	324	C	THR A 43	6.449	1.261	-14.250	1.00	90.06	C
ATOM	325	CB	THR A 43	7.027	3.684	-14.508	1.00	90.06	C
ATOM	326	O	THR A 43	6.152	0.731	-15.320	1.00	90.06	O
ATOM	327	CG2	THR A 43	8.078	4.762	-14.273	1.00	90.06	C
ATOM	328	OG1	THR A 43	6.625	3.715	-15.883	1.00	90.06	O
ATOM	329	N	PHE A 44	5.914	0.837	-13.125	1.00	89.75	N
ATOM	330	CA	PHE A 44	4.820	-0.122	-13.023	1.00	89.75	C
ATOM	331	C	PHE A 44	3.492	0.593	-12.805	1.00	89.75	C
ATOM	332	CB	PHE A 44	5.078	-1.117	-11.891	1.00	89.75	C
ATOM	333	O	PHE A 44	3.453	1.667	-12.195	1.00	89.75	O
ATOM	334	CG	PHE A 44	6.367	-1.882	-12.039	1.00	89.75	C
ATOM	335	CD1	PHE A 44	6.383	-3.135	-12.633	1.00	89.75	C
ATOM	336	CD2	PHE A 44	7.562	-1.346	-11.578	1.00	89.75	C
ATOM	337	CE1	PHE A 44	7.574	-3.846	-12.773	1.00	89.75	C
ATOM	338	CE2	PHE A 44	8.758	-2.049	-11.703	1.00	89.75	C
ATOM	339	CZ	PHE A 44	8.758	-3.299	-12.305	1.00	89.75	C
ATOM	340	N	PRO A 45	2.457	0.024	-13.375	1.00	86.62	N
ATOM	341	CA	PRO A 45	1.151	0.652	-13.156	1.00	86.62	C
ATOM	342	C	PRO A 45	0.786	0.761	-11.680	1.00	86.62	C
ATOM	343	CB	PRO A 45	0.185	-0.281	-13.891	1.00	86.62	C
ATOM	344	O	PRO A 45	1.015	-0.178	-10.914	1.00	86.62	O
ATOM	345	CG	PRO A 45	1.040	-1.025	-14.867	1.00	86.62	C
ATOM	346	CD	PRO A 45	2.422	-1.148	-14.289	1.00	86.62	C
ATOM	347	N	ALA A 46	0.333	1.881	-11.320	1.00	91.12	N
ATOM	348	CA	ALA A 46	-0.149	2.096	-9.953	1.00	91.12	C
ATOM	349	C	ALA A 46	-1.427	1.303	-9.695	1.00	91.12	C
ATOM	350	CB	ALA A 46	-0.389	3.582	-9.703	1.00	91.12	C
ATOM	351	O	ALA A 46	-2.266	1.156	-10.586	1.00	91.12	O
ATOM	352	N	THR A 47	-1.558	0.722	-8.445	1.00	91.75	N
ATOM	353	CA	THR A 47	-2.773	0.017	-8.055	1.00	91.75	C
ATOM	354	C	THR A 47	-3.373	0.636	-6.797	1.00	91.75	C
ATOM	355	CB	THR A 47	-2.498	-1.479	-7.812	1.00	91.75	C
ATOM	356	O	THR A 47	-2.654	1.210	-5.977	1.00	91.75	O
ATOM	357	CG2	THR A 47	-1.975	-2.152	-9.078	1.00	91.75	C
ATOM	358	OG1	THR A 47	-1.522	-1.617	-6.773	1.00	91.75	O
ATOM	359	N	SER A 48	-4.730	0.628	-6.711	1.00	95.31	N
ATOM	360	CA	SER A 48	-5.496	1.066	-5.547	1.00	95.31	C
ATOM	361	C	SER A 48	-6.562	0.043	-5.168	1.00	95.31	C
ATOM	362	CB	SER A 48	-6.152	2.422	-5.816	1.00	95.31	C

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ATOM	363	O	SER A 48	-7.430	-0.287	-5.980	1.00	95.31	O
ATOM	364	OG	SER A 48	-6.879	2.863	-4.684	1.00	95.31	O
ATOM	365	N	THR A 49	-6.418	-0.511	-3.957	1.00	94.50	N
ATOM	366	CA	THR A 49	-7.371	-1.505	-3.477	1.00	94.50	C
ATOM	367	C	THR A 49	-7.945	-1.094	-2.123	1.00	94.50	C
ATOM	368	CB	THR A 49	-6.715	-2.895	-3.359	1.00	94.50	C
ATOM	369	O	THR A 49	-7.211	-0.619	-1.252	1.00	94.50	O
ATOM	370	CG2	THR A 49	-7.746	-3.959	-3.006	1.00	94.50	C
ATOM	371	OG1	THR A 49	-6.102	-3.234	-4.609	1.00	94.50	O
ATOM	372	N	THR A 50	-9.258	-1.233	-1.990	1.00	95.25	N
ATOM	373	CA	THR A 50	-9.930	-0.900	-0.739	1.00	95.25	C
ATOM	374	C	THR A 50	-10.398	-2.164	-0.023	1.00	95.25	C
ATOM	375	CB	THR A 50	-11.125	0.033	-0.980	1.00	95.25	C
ATOM	376	O	THR A 50	-10.969	-3.061	-0.647	1.00	95.25	O
ATOM	377	CG2	THR A 50	-11.844	0.359	0.326	1.00	95.25	C
ATOM	378	OG1	THR A 50	-10.664	1.252	-1.576	1.00	95.25	O
ATOM	379	N	PHE A 51	-10.086	-2.287	1.307	1.00	95.38	N
ATOM	380	CA	PHE A 51	-10.539	-3.361	2.182	1.00	95.38	C
ATOM	381	C	PHE A 51	-11.430	-2.816	3.289	1.00	95.38	C
ATOM	382	CB	PHE A 51	-9.336	-4.098	2.791	1.00	95.38	C
ATOM	383	O	PHE A 51	-11.109	-1.809	3.918	1.00	95.38	O
ATOM	384	CG	PHE A 51	-8.375	-4.645	1.769	1.00	95.38	C
ATOM	385	CD1	PHE A 51	-8.500	-5.949	1.309	1.00	95.38	C
ATOM	386	CD2	PHE A 51	-7.355	-3.850	1.269	1.00	95.38	C
ATOM	387	CE1	PHE A 51	-7.609	-6.457	0.363	1.00	95.38	C
ATOM	388	CE2	PHE A 51	-6.465	-4.348	0.323	1.00	95.38	C
ATOM	389	CZ	PHE A 51	-6.594	-5.652	-0.128	1.00	95.38	C
ATOM	390	N	THR A 52	-12.578	-3.479	3.445	1.00	95.69	N
ATOM	391	CA	THR A 52	-13.477	-3.123	4.539	1.00	95.69	C
ATOM	392	C	THR A 52	-13.750	-4.328	5.434	1.00	95.69	C
ATOM	393	CB	THR A 52	-14.812	-2.566	4.008	1.00	95.69	C
ATOM	394	O	THR A 52	-14.109	-5.402	4.945	1.00	95.69	O
ATOM	395	CG2	THR A 52	-15.734	-2.160	5.152	1.00	95.69	C
ATOM	396	OG1	THR A 52	-14.555	-1.421	3.188	1.00	95.69	O
ATOM	397	N	LYS A 53	-13.547	-4.074	6.703	1.00	95.31	N
ATOM	398	CA	LYS A 53	-13.805	-5.176	7.621	1.00	95.31	C
ATOM	399	C	LYS A 53	-14.414	-4.668	8.930	1.00	95.31	C
ATOM	400	CB	LYS A 53	-12.523	-5.957	7.902	1.00	95.31	C
ATOM	401	O	LYS A 53	-13.938	-3.682	9.492	1.00	95.31	O
ATOM	402	CG	LYS A 53	-12.734	-7.195	8.766	1.00	95.31	C
ATOM	403	CD	LYS A 53	-13.352	-8.336	7.969	1.00	95.31	C
ATOM	404	CE	LYS A 53	-13.367	-9.633	8.766	1.00	95.31	C
ATOM	405	NZ	LYS A 53	-13.914	-10.766	7.965	1.00	95.31	N
ATOM	406	N	GLU A 54	-15.477	-5.344	9.359	1.00	94.56	N
ATOM	407	CA	GLU A 54	-16.031	-5.113	10.688	1.00	94.56	C
ATOM	408	C	GLU A 54	-15.422	-6.066	11.711	1.00	94.56	C
ATOM	409	CB	GLU A 54	-17.562	-5.266	10.672	1.00	94.56	C
ATOM	410	O	GLU A 54	-15.289	-7.262	11.453	1.00	94.56	O
ATOM	411	CG	GLU A 54	-18.281	-4.180	9.883	1.00	94.56	C
ATOM	412	CD	GLU A 54	-19.781	-4.258	9.992	1.00	94.56	C
ATOM	413	OE1	GLU A 54	-20.484	-3.361	9.461	1.00	94.56	O
ATOM	414	OE2	GLU A 54	-20.281	-5.227	10.609	1.00	94.56	O
ATOM	415	N	MET A 55	-14.992	-5.496	12.914	1.00	92.81	N

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ATOM	416	CA	MET A 55	-14.336	-6.305	13.938	1.00	92.81	C
ATOM	417	C	MET A 55	-14.703	-5.824	15.336	1.00	92.81	C
ATOM	418	CB	MET A 55	-12.812	-6.266	13.750	1.00	92.81	C
ATOM	419	O	MET A 55	-15.211	-4.711	15.500	1.00	92.81	O
ATOM	420	CG	MET A 55	-12.219	-4.867	13.836	1.00	92.81	C
ATOM	421	SD	MET A 55	-10.445	-4.828	13.375	1.00	92.81	S
ATOM	422	CE	MET A 55	-9.734	-5.793	14.734	1.00	92.81	C
ATOM	423	N	GLU A 56	-14.508	-6.816	16.328	1.00	92.62	N
ATOM	424	CA	GLU A 56	-14.648	-6.418	17.719	1.00	92.62	C
ATOM	425	C	GLU A 56	-13.375	-5.754	18.234	1.00	92.62	C
ATOM	426	CB	GLU A 56	-15.000	-7.625	18.594	1.00	92.62	C
ATOM	427	O	GLU A 56	-12.281	-6.004	17.703	1.00	92.62	O
ATOM	428	CG	GLU A 56	-16.297	-8.312	18.203	1.00	92.62	C
ATOM	429	CD	GLU A 56	-17.531	-7.492	18.516	1.00	92.62	C
ATOM	430	OE1	GLU A 56	-18.594	-7.699	17.875	1.00	92.62	O
ATOM	431	OE2	GLU A 56	-17.453	-6.629	19.422	1.00	92.62	O
ATOM	432	N	TYR A 57	-13.523	-5.000	19.297	1.00	92.62	N
ATOM	433	CA	TYR A 57	-12.336	-4.426	19.922	1.00	92.62	C
ATOM	434	C	TYR A 57	-11.391	-5.523	20.406	1.00	92.62	C
ATOM	435	CB	TYR A 57	-12.727	-3.523	21.094	1.00	92.62	C
ATOM	436	O	TYR A 57	-11.836	-6.539	20.953	1.00	92.62	O
ATOM	437	CG	TYR A 57	-13.320	-2.201	20.672	1.00	92.62	C
ATOM	438	CD1	TYR A 57	-12.531	-1.210	20.109	1.00	92.62	C
ATOM	439	CD2	TYR A 57	-14.680	-1.943	20.844	1.00	92.62	C
ATOM	440	CE1	TYR A 57	-13.070	0.010	19.719	1.00	92.62	C
ATOM	441	CE2	TYR A 57	-15.234	-0.727	20.453	1.00	92.62	C
ATOM	442	OH	TYR A 57	-14.961	1.447	19.500	1.00	92.62	O
ATOM	443	CZ	TYR A 57	-14.422	0.241	19.891	1.00	92.62	C
ATOM	444	N	GLY A 58	-10.078	-5.371	20.156	1.00	92.25	N
ATOM	445	CA	GLY A 58	-9.094	-6.332	20.625	1.00	92.25	C
ATOM	446	C	GLY A 58	-8.742	-7.383	19.594	1.00	92.25	C
ATOM	447	O	GLY A 58	-7.758	-8.109	19.750	1.00	92.25	O
ATOM	448	N	GLU A 59	-9.672	-7.496	18.531	1.00	94.62	N
ATOM	449	CA	GLU A 59	-9.375	-8.398	17.422	1.00	94.62	C
ATOM	450	C	GLU A 59	-8.320	-7.797	16.484	1.00	94.62	C
ATOM	451	CB	GLU A 59	-10.648	-8.711	16.625	1.00	94.62	C
ATOM	452	O	GLU A 59	-8.195	-6.574	16.391	1.00	94.62	O
ATOM	453	CG	GLU A 59	-11.648	-9.562	17.391	1.00	94.62	C
ATOM	454	CD	GLU A 59	-12.844	-9.984	16.562	1.00	94.62	C
ATOM	455	OE1	GLU A 59	-13.492	-11.000	16.891	1.00	94.62	O
ATOM	456	OE2	GLU A 59	-13.133	-9.297	15.555	1.00	94.62	O
ATOM	457	N	THR A 60	-7.500	-8.703	15.875	1.00	94.88	N
ATOM	458	CA	THR A 60	-6.500	-8.305	14.891	1.00	94.88	C
ATOM	459	C	THR A 60	-6.941	-8.688	13.484	1.00	94.88	C
ATOM	460	CB	THR A 60	-5.129	-8.945	15.195	1.00	94.88	C
ATOM	461	O	THR A 60	-7.391	-9.812	13.250	1.00	94.88	O
ATOM	462	CG2	THR A 60	-4.094	-8.547	14.148	1.00	94.88	C
ATOM	463	OG1	THR A 60	-4.684	-8.508	16.484	1.00	94.88	O
ATOM	464	N	ILE A 61	-6.895	-7.715	12.570	1.00	94.50	N
ATOM	465	CA	ILE A 61	-7.145	-8.039	11.164	1.00	94.50	C
ATOM	466	C	ILE A 61	-5.824	-8.070	10.398	1.00	94.50	C
ATOM	467	CB	ILE A 61	-8.117	-7.031	10.516	1.00	94.50	C
ATOM	468	O	ILE A 61	-4.914	-7.289	10.688	1.00	94.50	O

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ATOM	469	CG1 ILE A 61	-7.469	-5.645	10.430	1.00	94.50	C
ATOM	470	CG2 ILE A 61	-9.430	-6.973	11.297	1.00	94.50	C
ATOM	471	CD1 ILE A 61	-8.164	-4.695	9.469	1.00	94.50	C
ATOM	472	N THR A 62	-5.750	-9.117	9.555	1.00	95.00	N
ATOM	473	CA THR A 62	-4.570	-9.273	8.711	1.00	95.00	C
ATOM	474	C THR A 62	-4.945	-9.156	7.238	1.00	95.00	C
ATOM	475	CB THR A 62	-3.881	-10.625	8.961	1.00	95.00	C
ATOM	476	O THR A 62	-5.867	-9.828	6.770	1.00	95.00	O
ATOM	477	CG2 THR A 62	-2.641	-10.781	8.086	1.00	95.00	C
ATOM	478	OG1 THR A 62	-3.492	-10.711	10.336	1.00	95.00	O
ATOM	479	N ILE A 63	-4.367	-8.203	6.539	1.00	93.38	N
ATOM	480	CA ILE A 63	-4.508	-8.055	5.094	1.00	93.38	C
ATOM	481	C ILE A 63	-3.215	-8.477	4.402	1.00	93.38	C
ATOM	482	CB ILE A 63	-4.879	-6.602	4.707	1.00	93.38	C
ATOM	483	O ILE A 63	-2.146	-7.926	4.688	1.00	93.38	O
ATOM	484	CG1 ILE A 63	-6.168	-6.172	5.414	1.00	93.38	C
ATOM	485	CG2 ILE A 63	-5.016	-6.469	3.186	1.00	93.38	C
ATOM	486	CD1 ILE A 63	-6.414	-4.672	5.387	1.00	93.38	C
ATOM	487	N THR A 64	-3.328	-9.508	3.561	1.00	93.38	N
ATOM	488	CA THR A 64	-2.168	-9.984	2.814	1.00	93.38	C
ATOM	489	C THR A 64	-2.393	-9.836	1.312	1.00	93.38	C
ATOM	490	CB THR A 64	-1.854	-11.453	3.143	1.00	93.38	C
ATOM	491	O THR A 64	-3.434	-10.242	0.791	1.00	93.38	O
ATOM	492	CG2 THR A 64	-0.595	-11.922	2.420	1.00	93.38	C
ATOM	493	OG1 THR A 64	-1.658	-11.594	4.555	1.00	93.38	O
ATOM	494	N GLU A 65	-1.486	-9.188	0.724	1.00	92.50	N
ATOM	495	CA GLU A 65	-1.489	-9.086	-0.732	1.00	92.50	C
ATOM	496	C GLU A 65	-0.161	-9.547	-1.321	1.00	92.50	C
ATOM	497	CB GLU A 65	-1.785	-7.648	-1.168	1.00	92.50	C
ATOM	498	O GLU A 65	0.898	-9.031	-0.965	1.00	92.50	O
ATOM	499	CG GLU A 65	-2.180	-7.520	-2.633	1.00	92.50	C
ATOM	500	CD GLU A 65	-2.480	-6.086	-3.049	1.00	92.50	C
ATOM	501	OE1 GLU A 65	-2.197	-5.723	-4.211	1.00	92.50	O
ATOM	502	OE2 GLU A 65	-3.000	-5.324	-2.203	1.00	92.50	O
ATOM	503	N GLU A 66	-0.276	-10.562	-2.123	1.00	92.50	N
ATOM	504	CA GLU A 66	0.881	-11.062	-2.861	1.00	92.50	C
ATOM	505	C GLU A 66	0.617	-11.070	-4.363	1.00	92.50	C
ATOM	506	CB GLU A 66	1.254	-12.469	-2.389	1.00	92.50	C
ATOM	507	O GLU A 66	-0.454	-11.484	-4.809	1.00	92.50	O
ATOM	508	CG GLU A 66	1.705	-12.531	-0.937	1.00	92.50	C
ATOM	509	CD GLU A 66	2.109	-13.930	-0.493	1.00	92.50	C
ATOM	510	OE1 GLU A 66	2.850	-14.062	0.508	1.00	92.50	O
ATOM	511	OE2 GLU A 66	1.682	-14.906	-1.152	1.00	92.50	O
ATOM	512	N SER A 67	1.589	-10.469	-5.059	1.00	91.19	N
ATOM	513	CA SER A 67	1.406	-10.438	-6.508	1.00	91.19	C
ATOM	514	C SER A 67	2.709	-10.750	-7.238	1.00	91.19	C
ATOM	515	CB SER A 67	0.877	-9.070	-6.949	1.00	91.19	C
ATOM	516	O SER A 67	3.787	-10.359	-6.781	1.00	91.19	O
ATOM	517	OG SER A 67	1.936	-8.141	-7.070	1.00	91.19	O
ATOM	518	N THR A 68	2.562	-11.594	-8.195	1.00	94.06	N
ATOM	519	CA THR A 68	3.631	-11.828	-9.164	1.00	94.06	C
ATOM	520	C THR A 68	3.135	-11.586	-10.586	1.00	94.06	C
ATOM	521	CB THR A 68	4.191	-13.258	-9.047	1.00	94.06	C

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ATOM	522	O	THR A 68	2.146	-12.188	-11.016	1.00	94.06	O
ATOM	523	CG2	THR A 68	5.340	-13.477	-10.023	1.00	94.06	C
ATOM	524	OG1	THR A 68	4.668	-13.461	-7.707	1.00	94.06	O
ATOM	525	N	GLU A 69	3.729	-10.641	-11.227	1.00	93.19	N
ATOM	526	CA	GLU A 69	3.334	-10.328	-12.594	1.00	93.19	C
ATOM	527	C	GLU A 69	4.516	-10.461	-13.555	1.00	93.19	C
ATOM	528	CB	GLU A 69	2.740	-8.922	-12.680	1.00	93.19	C
ATOM	529	O	GLU A 69	5.613	-9.984	-13.258	1.00	93.19	O
ATOM	530	CG	GLU A 69	1.458	-8.750	-11.875	1.00	93.19	C
ATOM	531	CD	GLU A 69	0.868	-7.352	-11.984	1.00	93.19	C
ATOM	532	OE1	GLU A 69	-0.044	-7.012	-11.203	1.00	93.19	O
ATOM	533	OE2	GLU A 69	1.322	-6.586	-12.867	1.00	93.19	O
ATOM	534	N	THR A 70	4.238	-11.180	-14.648	1.00	94.25	N
ATOM	535	CA	THR A 70	5.242	-11.289	-15.703	1.00	94.25	C
ATOM	536	C	THR A 70	4.738	-10.664	-17.000	1.00	94.25	C
ATOM	537	CB	THR A 70	5.621	-12.766	-15.953	1.00	94.25	C
ATOM	538	O	THR A 70	3.621	-10.938	-17.438	1.00	94.25	O
ATOM	539	CG2	THR A 70	6.711	-12.875	-17.016	1.00	94.25	C
ATOM	540	OG1	THR A 70	6.094	-13.344	-14.734	1.00	94.25	O
ATOM	541	N	PHE A 71	5.496	-9.750	-17.562	1.00	93.50	N
ATOM	542	CA	PHE A 71	5.102	-9.125	-18.812	1.00	93.50	C
ATOM	543	C	PHE A 71	6.324	-8.734	-19.641	1.00	93.50	C
ATOM	544	CB	PHE A 71	4.230	-7.895	-18.547	1.00	93.50	C
ATOM	545	O	PHE A 71	7.434	-8.664	-19.109	1.00	93.50	O
ATOM	546	CG	PHE A 71	4.887	-6.859	-17.672	1.00	93.50	C
ATOM	547	CD1	PHE A 71	4.773	-6.922	-16.297	1.00	93.50	C
ATOM	548	CD2	PHE A 71	5.621	-5.824	-18.234	1.00	93.50	C
ATOM	549	CE1	PHE A 71	5.383	-5.965	-15.484	1.00	93.50	C
ATOM	550	CE2	PHE A 71	6.230	-4.863	-17.438	1.00	93.50	C
ATOM	551	CZ	PHE A 71	6.109	-4.938	-16.062	1.00	93.50	C
ATOM	552	N	THR A 72	6.129	-8.570	-20.875	1.00	93.62	N
ATOM	553	CA	THR A 72	7.168	-8.117	-21.781	1.00	93.62	C
ATOM	554	C	THR A 72	7.027	-6.621	-22.062	1.00	93.62	C
ATOM	555	CB	THR A 72	7.129	-8.891	-23.109	1.00	93.62	C
ATOM	556	O	THR A 72	5.922	-6.137	-22.328	1.00	93.62	O
ATOM	557	CG2	THR A 72	8.227	-8.422	-24.062	1.00	93.62	C
ATOM	558	OG1	THR A 72	7.316	-10.289	-22.844	1.00	93.62	O
ATOM	559	N	THR A 73	8.164	-5.930	-21.922	1.00	92.94	N
ATOM	560	CA	THR A 73	8.102	-4.496	-22.188	1.00	92.94	C
ATOM	561	C	THR A 73	9.359	-4.031	-22.906	1.00	92.94	C
ATOM	562	CB	THR A 73	7.938	-3.691	-20.875	1.00	92.94	C
ATOM	563	O	THR A 73	10.406	-4.688	-22.844	1.00	92.94	O
ATOM	564	CG2	THR A 73	9.195	-3.777	-20.016	1.00	92.94	C
ATOM	565	OG1	THR A 73	7.688	-2.318	-21.203	1.00	92.94	O
ATOM	566	N	THR A 74	9.164	-2.971	-23.688	1.00	92.00	N
ATOM	567	CA	THR A 74	10.289	-2.324	-24.359	1.00	92.00	C
ATOM	568	C	THR A 74	10.883	-1.229	-23.469	1.00	92.00	C
ATOM	569	CB	THR A 74	9.867	-1.726	-25.703	1.00	92.00	C
ATOM	570	O	THR A 74	10.164	-0.336	-23.016	1.00	92.00	O
ATOM	571	CG2	THR A 74	11.055	-1.094	-26.422	1.00	92.00	C
ATOM	572	OG1	THR A 74	9.320	-2.762	-26.531	1.00	92.00	O
ATOM	573	N	VAL A 75	12.164	-1.380	-23.172	1.00	91.06	N
ATOM	574	CA	VAL A 75	12.859	-0.435	-22.312	1.00	91.06	C

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ATOM	575	C	VAL A 75	13.766	0.463	-23.141	1.00	91.06	C
ATOM	576	CB	VAL A 75	13.688	-1.161	-21.219	1.00	91.06	C
ATOM	577	O	VAL A 75	14.484	-0.018	-24.031	1.00	91.06	O
ATOM	578	CG1	VAL A 75	14.469	-0.157	-20.375	1.00	91.06	C
ATOM	579	CG2	VAL A 75	12.781	-2.020	-20.344	1.00	91.06	C
ATOM	580	N	THR A 76	13.617	1.722	-22.953	1.00	91.06	N
ATOM	581	CA	THR A 76	14.516	2.680	-23.594	1.00	91.06	C
ATOM	582	C	THR A 76	15.867	2.707	-22.875	1.00	91.06	C
ATOM	583	CB	THR A 76	13.914	4.094	-23.594	1.00	91.06	C
ATOM	584	O	THR A 76	15.938	2.912	-21.672	1.00	91.06	O
ATOM	585	CG2	THR A 76	14.859	5.098	-24.250	1.00	91.06	C
ATOM	586	OG1	THR A 76	12.680	4.074	-24.328	1.00	91.06	O
ATOM	587	N	VAL A 77	16.859	2.469	-23.625	1.00	91.38	N
ATOM	588	CA	VAL A 77	18.219	2.469	-23.094	1.00	91.38	C
ATOM	589	C	VAL A 77	18.984	3.688	-23.625	1.00	91.38	C
ATOM	590	CB	VAL A 77	18.984	1.173	-23.469	1.00	91.38	C
ATOM	591	O	VAL A 77	19.047	3.908	-24.828	1.00	91.38	O
ATOM	592	CG1	VAL A 77	20.391	1.186	-22.906	1.00	91.38	C
ATOM	593	CG2	VAL A 77	18.203	-0.052	-22.984	1.00	91.38	C
ATOM	594	N	THR A 78	19.453	4.457	-22.734	1.00	93.38	N
ATOM	595	CA	THR A 78	20.281	5.598	-23.094	1.00	93.38	C
ATOM	596	C	THR A 78	21.766	5.277	-22.875	1.00	93.38	C
ATOM	597	CB	THR A 78	19.906	6.848	-22.266	1.00	93.38	C
ATOM	598	O	THR A 78	22.172	4.895	-21.781	1.00	93.38	O
ATOM	599	CG2	THR A 78	20.750	8.047	-22.672	1.00	93.38	C
ATOM	600	OG1	THR A 78	18.531	7.152	-22.484	1.00	93.38	O
ATOM	601	N	THR A 79	22.422	5.363	-23.938	1.00	93.38	N
ATOM	602	CA	THR A 79	23.859	5.070	-23.922	1.00	93.38	C
ATOM	603	C	THR A 79	24.672	6.348	-24.078	1.00	93.38	C
ATOM	604	CB	THR A 79	24.234	4.066	-25.016	1.00	93.38	C
ATOM	605	O	THR A 79	24.469	7.098	-25.047	1.00	93.38	O
ATOM	606	CG2	THR A 79	25.719	3.695	-24.938	1.00	93.38	C
ATOM	607	OG1	THR A 79	23.453	2.877	-24.875	1.00	93.38	O
ATOM	608	N	LYS A 80	25.500	6.594	-23.125	1.00	93.38	N
ATOM	609	CA	LYS A 80	26.375	7.754	-23.188	1.00	93.38	C
ATOM	610	C	LYS A 80	27.828	7.328	-23.359	1.00	93.38	C
ATOM	611	CB	LYS A 80	26.234	8.602	-21.922	1.00	93.38	C
ATOM	612	O	LYS A 80	28.328	6.473	-22.625	1.00	93.38	O
ATOM	613	CG	LYS A 80	26.938	9.945	-22.000	1.00	93.38	C
ATOM	614	CD	LYS A 80	26.609	10.812	-20.781	1.00	93.38	C
ATOM	615	CE	LYS A 80	27.328	12.156	-20.844	1.00	93.38	C
ATOM	616	NZ	LYS A 80	27.016	13.008	-19.656	1.00	93.38	N
ATOM	617	N	THR A 81	28.516	7.879	-24.406	1.00	92.25	N
ATOM	618	CA	THR A 81	29.953	7.773	-24.609	1.00	92.25	C
ATOM	619	C	THR A 81	30.625	9.141	-24.469	1.00	92.25	C
ATOM	620	CB	THR A 81	30.281	7.176	-25.984	1.00	92.25	C
ATOM	621	O	THR A 81	29.938	10.141	-24.234	1.00	92.25	O
ATOM	622	CG2	THR A 81	29.578	5.844	-26.203	1.00	92.25	C
ATOM	623	OG1	THR A 81	29.875	8.094	-27.016	1.00	92.25	O
ATOM	624	N	ALA A 82	31.984	9.141	-24.578	1.00	90.31	N
ATOM	625	CA	ALA A 82	32.688	10.414	-24.484	1.00	90.31	C
ATOM	626	C	ALA A 82	32.250	11.375	-25.594	1.00	90.31	C
ATOM	627	CB	ALA A 82	34.219	10.180	-24.594	1.00	90.31	C

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ATOM	628	O	ALA A	82	32.219	12.586	-25.391	1.00	90.31	O
ATOM	629	N	THR A	83	31.734	10.945	-26.719	1.00	91.06	N
ATOM	630	CA	THR A	83	31.562	11.797	-27.891	1.00	91.06	C
ATOM	631	C	THR A	83	30.094	11.859	-28.297	1.00	91.06	C
ATOM	632	CB	THR A	83	32.406	11.281	-29.078	1.00	91.06	C
ATOM	633	O	THR A	83	29.688	12.734	-29.062	1.00	91.06	O
ATOM	634	CG2	THR A	83	33.875	11.375	-28.766	1.00	91.06	C
ATOM	635	OG1	THR A	83	32.062	9.922	-29.344	1.00	91.06	O
ATOM	636	N	LYS A	84	29.234	11.016	-27.656	1.00	94.25	N
ATOM	637	CA	LYS A	84	27.844	11.031	-28.141	1.00	94.25	C
ATOM	638	C	LYS A	84	26.922	10.344	-27.141	1.00	94.25	C
ATOM	639	CB	LYS A	84	27.734	10.352	-29.500	1.00	94.25	C
ATOM	640	O	LYS A	84	27.375	9.578	-26.281	1.00	94.25	O
ATOM	641	CG	LYS A	84	28.016	8.859	-29.484	1.00	94.25	C
ATOM	642	CD	LYS A	84	27.875	8.242	-30.859	1.00	94.25	C
ATOM	643	CE	LYS A	84	28.156	6.746	-30.844	1.00	94.25	C
ATOM	644	NZ	LYS A	84	28.047	6.145	-32.219	1.00	94.25	N
ATOM	645	N	THR A	85	25.516	10.680	-27.266	1.00	95.50	N
ATOM	646	CA	THR A	85	24.406	10.031	-26.578	1.00	95.50	C
ATOM	647	C	THR A	85	23.469	9.375	-27.578	1.00	95.50	C
ATOM	648	CB	THR A	85	23.625	11.031	-25.703	1.00	95.50	C
ATOM	649	O	THR A	85	23.000	10.031	-28.516	1.00	95.50	O
ATOM	650	CG2	THR A	85	22.453	10.352	-25.000	1.00	95.50	C
ATOM	651	OG1	THR A	85	24.516	11.586	-24.719	1.00	95.50	O
ATOM	652	N	THR A	86	23.281	8.023	-27.359	1.00	94.75	N
ATOM	653	CA	THR A	86	22.359	7.309	-28.234	1.00	94.75	C
ATOM	654	C	THR A	86	21.234	6.684	-27.406	1.00	94.75	C
ATOM	655	CB	THR A	86	23.078	6.215	-29.047	1.00	94.75	C
ATOM	656	O	THR A	86	21.391	6.398	-26.219	1.00	94.75	O
ATOM	657	CG2	THR A	86	24.125	6.820	-29.969	1.00	94.75	C
ATOM	658	OG1	THR A	86	23.719	5.309	-28.141	1.00	94.75	O
ATOM	659	N	THR A	87	20.062	6.566	-28.047	1.00	94.31	N
ATOM	660	CA	THR A	87	18.938	5.871	-27.438	1.00	94.31	C
ATOM	661	C	THR A	87	18.547	4.648	-28.250	1.00	94.31	C
ATOM	662	CB	THR A	87	17.719	6.805	-27.281	1.00	94.31	C
ATOM	663	O	THR A	87	18.562	4.688	-29.484	1.00	94.31	O
ATOM	664	CG2	THR A	87	18.031	7.945	-26.312	1.00	94.31	C
ATOM	665	OG1	THR A	87	17.375	7.352	-28.547	1.00	94.31	O
ATOM	666	N	SER A	88	18.391	3.553	-27.547	1.00	93.56	N
ATOM	667	CA	SER A	88	17.938	2.328	-28.203	1.00	93.56	C
ATOM	668	C	SER A	88	16.812	1.664	-27.406	1.00	93.56	C
ATOM	669	CB	SER A	88	19.094	1.349	-28.375	1.00	93.56	C
ATOM	670	O	SER A	88	16.594	2.002	-26.234	1.00	93.56	O
ATOM	671	OG	SER A	88	19.641	0.973	-27.125	1.00	93.56	O
ATOM	672	N	GLU A	89	16.062	0.892	-28.062	1.00	93.44	N
ATOM	673	CA	GLU A	89	15.008	0.124	-27.406	1.00	93.44	C
ATOM	674	C	GLU A	89	15.383	-1.353	-27.312	1.00	93.44	C
ATOM	675	CB	GLU A	89	13.688	0.284	-28.156	1.00	93.44	C
ATOM	676	O	GLU A	89	15.891	-1.937	-28.266	1.00	93.44	O
ATOM	677	CG	GLU A	89	13.133	1.703	-28.141	1.00	93.44	C
ATOM	678	CD	GLU A	89	11.820	1.847	-28.891	1.00	93.44	C
ATOM	679	OE1	GLU A	89	11.055	2.795	-28.594	1.00	93.44	O
ATOM	680	OE2	GLU A	89	11.555	1.005	-29.781	1.00	93.44	O

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ATOM	681	N	ARG	A	90	15.156	-1.851	-26.078	1.00	92.56	N
ATOM	682	CA	ARG	A	90	15.391	-3.270	-25.828	1.00	92.56	C
ATOM	683	C	ARG	A	90	14.172	-3.928	-25.188	1.00	92.56	C
ATOM	684	CB	ARG	A	90	16.625	-3.465	-24.938	1.00	92.56	C
ATOM	685	O	ARG	A	90	13.453	-3.291	-24.422	1.00	92.56	O
ATOM	686	CG	ARG	A	90	17.922	-2.955	-25.562	1.00	92.56	C
ATOM	687	CD	ARG	A	90	19.109	-3.156	-24.625	1.00	92.56	C
ATOM	688	NE	ARG	A	90	20.312	-2.559	-25.172	1.00	92.56	N
ATOM	689	NH1	ARG	A	90	21.641	-3.117	-23.375	1.00	92.56	N
ATOM	690	NH2	ARG	A	90	22.547	-1.982	-25.141	1.00	92.56	N
ATOM	691	CZ	ARG	A	90	21.500	-2.555	-24.562	1.00	92.56	C
ATOM	692	N	GLU	A	91	13.977	-5.152	-25.625	1.00	94.38	N
ATOM	693	CA	GLU	A	91	12.859	-5.895	-25.047	1.00	94.38	C
ATOM	694	C	GLU	A	91	13.297	-6.676	-23.812	1.00	94.38	C
ATOM	695	CB	GLU	A	91	12.250	-6.848	-26.078	1.00	94.38	C
ATOM	696	O	GLU	A	91	14.328	-7.352	-23.828	1.00	94.38	O
ATOM	697	CG	GLU	A	91	11.477	-6.141	-27.188	1.00	94.38	C
ATOM	698	CD	GLU	A	91	10.719	-7.098	-28.094	1.00	94.38	C
ATOM	699	OE1	GLU	A	91	9.469	-7.066	-28.109	1.00	94.38	O
ATOM	700	OE2	GLU	A	91	11.391	-7.883	-28.797	1.00	94.38	O
ATOM	701	N	TYR	A	92	12.484	-6.555	-22.734	1.00	94.44	N
ATOM	702	CA	TYR	A	92	12.727	-7.273	-21.484	1.00	94.44	C
ATOM	703	C	TYR	A	92	11.508	-8.086	-21.078	1.00	94.44	C
ATOM	704	CB	TYR	A	92	13.109	-6.301	-20.375	1.00	94.44	C
ATOM	705	O	TYR	A	92	10.367	-7.648	-21.281	1.00	94.44	O
ATOM	706	CG	TYR	A	92	14.508	-5.758	-20.484	1.00	94.44	C
ATOM	707	CD1	TYR	A	92	15.562	-6.320	-19.766	1.00	94.44	C
ATOM	708	CD2	TYR	A	92	14.797	-4.684	-21.328	1.00	94.44	C
ATOM	709	CE1	TYR	A	92	16.859	-5.820	-19.859	1.00	94.44	C
ATOM	710	CE2	TYR	A	92	16.078	-4.180	-21.438	1.00	94.44	C
ATOM	711	OH	TYR	A	92	18.391	-4.258	-20.812	1.00	94.44	O
ATOM	712	CZ	TYR	A	92	17.109	-4.754	-20.703	1.00	94.44	C
ATOM	713	N	GLU	A	93	11.797	-9.273	-20.656	1.00	96.12	N
ATOM	714	CA	GLU	A	93	10.805	-9.961	-19.844	1.00	96.12	C
ATOM	715	C	GLU	A	93	10.922	-9.555	-18.375	1.00	96.12	C
ATOM	716	CB	GLU	A	93	10.953	-11.477	-19.969	1.00	96.12	C
ATOM	717	O	GLU	A	93	11.977	-9.734	-17.750	1.00	96.12	O
ATOM	718	CG	GLU	A	93	9.852	-12.266	-19.281	1.00	96.12	C
ATOM	719	CD	GLU	A	93	10.000	-13.773	-19.438	1.00	96.12	C
ATOM	720	OE1	GLU	A	93	10.477	-14.438	-18.484	1.00	96.12	O
ATOM	721	OE2	GLU	A	93	9.641	-14.289	-20.516	1.00	96.12	O
ATOM	722	N	VAL	A	94	9.859	-9.023	-17.875	1.00	95.31	N
ATOM	723	CA	VAL	A	94	9.875	-8.461	-16.516	1.00	95.31	C
ATOM	724	C	VAL	A	94	9.016	-9.312	-15.594	1.00	95.31	C
ATOM	725	CB	VAL	A	94	9.383	-6.996	-16.516	1.00	95.31	C
ATOM	726	O	VAL	A	94	7.879	-9.641	-15.922	1.00	95.31	O
ATOM	727	CG1	VAL	A	94	9.375	-6.434	-15.094	1.00	95.31	C
ATOM	728	CG2	VAL	A	94	10.250	-6.133	-17.422	1.00	95.31	C
ATOM	729	N	THR	A	95	9.617	-9.711	-14.484	1.00	95.56	N
ATOM	730	CA	THR	A	95	8.875	-10.336	-13.398	1.00	95.56	C
ATOM	731	C	THR	A	95	8.891	-9.453	-12.156	1.00	95.56	C
ATOM	732	CB	THR	A	95	9.453	-11.719	-13.047	1.00	95.56	C
ATOM	733	O	THR	A	95	9.953	-9.180	-11.586	1.00	95.56	O

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ATOM	734	CG2 THR A 95	8.633	-12.406	-11.961	1.00	95.56	C
ATOM	735	OG1 THR A 95	9.453	-12.539	-14.219	1.00	95.56	O
ATOM	736	N TYR A 96	7.684	-8.992	-11.852	1.00	94.62	N
ATOM	737	CA TYR A 96	7.500	-8.102	-10.719	1.00	94.62	C
ATOM	738	C TYR A 96	6.789	-8.812	-9.570	1.00	94.62	C
ATOM	739	CB TYR A 96	6.711	-6.852	-11.125	1.00	94.62	C
ATOM	740	O TYR A 96	5.672	-9.312	-9.742	1.00	94.62	O
ATOM	741	CG TYR A 96	6.473	-5.883	-10.000	1.00	94.62	C
ATOM	742	CD1 TYR A 96	5.191	-5.422	-9.711	1.00	94.62	C
ATOM	743	CD2 TYR A 96	7.527	-5.426	-9.219	1.00	94.62	C
ATOM	744	CE1 TYR A 96	4.965	-4.523	-8.672	1.00	94.62	C
ATOM	745	CE2 TYR A 96	7.316	-4.531	-8.172	1.00	94.62	C
ATOM	746	OH TYR A 96	5.816	-3.199	-6.875	1.00	94.62	O
ATOM	747	CZ TYR A 96	6.031	-4.086	-7.906	1.00	94.62	C
ATOM	748	N LYS A 97	7.520	-8.875	-8.398	1.00	94.94	N
ATOM	749	CA LYS A 97	6.973	-9.508	-7.199	1.00	94.94	C
ATOM	750	C LYS A 97	6.785	-8.484	-6.078	1.00	94.94	C
ATOM	751	CB LYS A 97	7.875	-10.641	-6.727	1.00	94.94	C
ATOM	752	O LYS A 97	7.691	-7.691	-5.801	1.00	94.94	O
ATOM	753	CG LYS A 97	7.930	-11.828	-7.676	1.00	94.94	C
ATOM	754	CD LYS A 97	8.781	-12.961	-7.113	1.00	94.94	C
ATOM	755	CE LYS A 97	8.867	-14.133	-8.086	1.00	94.94	C
ATOM	756	NZ LYS A 97	9.719	-15.234	-7.547	1.00	94.94	N
ATOM	757	N ARG A 98	5.629	-8.492	-5.520	1.00	93.25	N
ATOM	758	CA ARG A 98	5.340	-7.645	-4.367	1.00	93.25	C
ATOM	759	C ARG A 98	4.617	-8.438	-3.279	1.00	93.25	C
ATOM	760	CB ARG A 98	4.496	-6.438	-4.785	1.00	93.25	C
ATOM	761	O ARG A 98	3.832	-9.336	-3.578	1.00	93.25	O
ATOM	762	CG ARG A 98	3.086	-6.797	-5.230	1.00	93.25	C
ATOM	763	CD ARG A 98	2.297	-5.562	-5.648	1.00	93.25	C
ATOM	764	NE ARG A 98	0.948	-5.910	-6.086	1.00	93.25	N
ATOM	765	NH1 ARG A 98	0.318	-3.736	-6.555	1.00	93.25	N
ATOM	766	NH2 ARG A 98	-1.158	-5.461	-6.883	1.00	93.25	N
ATOM	767	CZ ARG A 98	0.039	-5.035	-6.508	1.00	93.25	C
ATOM	768	N SER A 99	4.984	-8.086	-2.086	1.00	94.88	N
ATOM	769	CA SER A 99	4.352	-8.680	-0.916	1.00	94.88	C
ATOM	770	C SER A 99	4.031	-7.629	0.138	1.00	94.88	C
ATOM	771	CB SER A 99	5.246	-9.766	-0.313	1.00	94.88	C
ATOM	772	O SER A 99	4.910	-6.867	0.546	1.00	94.88	O
ATOM	773	OG SER A 99	4.617	-10.383	0.798	1.00	94.88	O
ATOM	774	N VAL A 100	2.766	-7.598	0.519	1.00	95.25	N
ATOM	775	CA VAL A 100	2.330	-6.664	1.550	1.00	95.25	C
ATOM	776	C VAL A 100	1.574	-7.414	2.645	1.00	95.25	C
ATOM	777	CB VAL A 100	1.441	-5.543	0.962	1.00	95.25	C
ATOM	778	O VAL A 100	0.700	-8.234	2.354	1.00	95.25	O
ATOM	779	CG1 VAL A 100	0.983	-4.586	2.061	1.00	95.25	C
ATOM	780	CG2 VAL A 100	2.191	-4.789	-0.133	1.00	95.25	C
ATOM	781	N ASN A 101	1.954	-7.188	3.846	1.00	95.94	N
ATOM	782	CA ASN A 101	1.279	-7.715	5.027	1.00	95.94	C
ATOM	783	C ASN A 101	0.938	-6.605	6.020	1.00	95.94	C
ATOM	784	CB ASN A 101	2.137	-8.789	5.703	1.00	95.94	C
ATOM	785	O ASN A 101	1.829	-5.914	6.512	1.00	95.94	O
ATOM	786	CG ASN A 101	1.411	-9.492	6.836	1.00	95.94	C

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ATOM	787	ND2 ASN A 101	1.003	-10.727	6.598	1.00	95.94	N
ATOM	788	OD1 ASN A 101	1.218	-8.922	7.914	1.00	95.94	O
ATOM	789	N ILE A 102	-0.407	-6.445	6.219	1.00	96.31	N
ATOM	790	CA ILE A 102	-0.885	-5.398	7.113	1.00	96.31	C
ATOM	791	C ILE A 102	-1.651	-6.020	8.281	1.00	96.31	C
ATOM	792	CB ILE A 102	-1.777	-4.379	6.367	1.00	96.31	C
ATOM	793	O ILE A 102	-2.559	-6.828	8.070	1.00	96.31	O
ATOM	794	CG1 ILE A 102	-1.039	-3.814	5.148	1.00	96.31	C
ATOM	795	CG2 ILE A 102	-2.221	-3.258	7.309	1.00	96.31	C
ATOM	796	CD1 ILE A 102	-1.939	-3.078	4.168	1.00	96.31	C
ATOM	797	N THR A 103	-1.216	-5.703	9.469	1.00	96.50	N
ATOM	798	CA THR A 103	-1.985	-6.094	10.648	1.00	96.50	C
ATOM	799	C THR A 103	-2.510	-4.859	11.383	1.00	96.50	C
ATOM	800	CB THR A 103	-1.141	-6.945	11.609	1.00	96.50	C
ATOM	801	O THR A 103	-1.786	-3.879	11.555	1.00	96.50	O
ATOM	802	CG2 THR A 103	-0.661	-8.227	10.938	1.00	96.50	C
ATOM	803	OG1 THR A 103	-0.001	-6.188	12.039	1.00	96.50	O
ATOM	804	N ILE A 104	-3.824	-4.926	11.680	1.00	96.31	N
ATOM	805	CA ILE A 104	-4.477	-3.826	12.391	1.00	96.31	C
ATOM	806	C ILE A 104	-5.156	-4.352	13.648	1.00	96.31	C
ATOM	807	CB ILE A 104	-5.504	-3.105	11.484	1.00	96.31	C
ATOM	808	O ILE A 104	-5.926	-5.316	13.586	1.00	96.31	O
ATOM	809	CG1 ILE A 104	-4.832	-2.619	10.195	1.00	96.31	C
ATOM	810	CG2 ILE A 104	-6.160	-1.943	12.234	1.00	96.31	C
ATOM	811	CD1 ILE A 104	-5.809	-2.225	9.094	1.00	96.31	C
ATOM	812	N LYS A 105	-4.809	-3.738	14.711	1.00	95.62	N
ATOM	813	CA LYS A 105	-5.445	-4.023	15.992	1.00	95.62	C
ATOM	814	C LYS A 105	-6.035	-2.758	16.609	1.00	95.62	C
ATOM	815	CB LYS A 105	-4.449	-4.664	16.953	1.00	95.62	C
ATOM	816	O LYS A 105	-5.348	-1.743	16.734	1.00	95.62	O
ATOM	817	CG LYS A 105	-5.070	-5.148	18.266	1.00	95.62	C
ATOM	818	CD LYS A 105	-4.035	-5.805	19.156	1.00	95.62	C
ATOM	819	CE LYS A 105	-4.656	-6.277	20.469	1.00	95.62	C
ATOM	820	NZ LYS A 105	-3.646	-6.934	21.359	1.00	95.62	N
ATOM	821	N VAL A 106	-7.344	-2.914	16.891	1.00	94.56	N
ATOM	822	CA VAL A 106	-8.016	-1.796	17.531	1.00	94.56	C
ATOM	823	C VAL A 106	-8.492	-2.213	18.922	1.00	94.56	C
ATOM	824	CB VAL A 106	-9.219	-1.294	16.703	1.00	94.56	C
ATOM	825	O VAL A 106	-9.188	-3.217	19.078	1.00	94.56	O
ATOM	826	CG1 VAL A 106	-9.852	-0.062	17.344	1.00	94.56	C
ATOM	827	CG2 VAL A 106	-8.773	-0.986	15.266	1.00	94.56	C
ATOM	828	N SER A 107	-8.008	-1.429	19.875	1.00	93.69	N
ATOM	829	CA SER A 107	-8.383	-1.738	21.250	1.00	93.69	C
ATOM	830	C SER A 107	-8.812	-0.482	22.000	1.00	93.69	C
ATOM	831	CB SER A 107	-7.223	-2.412	21.984	1.00	93.69	C
ATOM	832	O SER A 107	-8.539	0.636	21.562	1.00	93.69	O
ATOM	833	OG SER A 107	-6.090	-1.562	22.031	1.00	93.69	O
ATOM	834	N LYS A 108	-9.625	-0.672	23.000	1.00	90.25	N
ATOM	835	CA LYS A 108	-10.047	0.392	23.906	1.00	90.25	C
ATOM	836	C LYS A 108	-9.523	0.151	25.328	1.00	90.25	C
ATOM	837	CB LYS A 108	-11.578	0.506	23.922	1.00	90.25	C
ATOM	838	O LYS A 108	-9.750	-0.917	25.891	1.00	90.25	O
ATOM	839	CG LYS A 108	-12.094	1.814	24.516	1.00	90.25	C

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ATOM	840	CD	LYS A 108	-13.602	1.937	24.359	1.00	90.25	C
ATOM	841	CE	LYS A 108	-14.117	3.240	24.953	1.00	90.25	C
ATOM	842	NZ	LYS A 108	-15.602	3.373	24.797	1.00	90.25	N
ATOM	843	N	GLU A 109	-8.656	0.935	25.750	1.00	90.19	N
ATOM	844	CA	GLU A 109	-8.117	0.822	27.109	1.00	90.19	C
ATOM	845	C	GLU A 109	-8.188	2.156	27.844	1.00	90.19	C
ATOM	846	CB	GLU A 109	-6.668	0.321	27.062	1.00	90.19	C
ATOM	847	O	GLU A 109	-7.797	3.191	27.297	1.00	90.19	O
ATOM	848	CG	GLU A 109	-6.523	-1.104	26.547	1.00	90.19	C
ATOM	849	CD	GLU A 109	-5.086	-1.592	26.531	1.00	90.19	C
ATOM	850	OE1	GLU A 109	-4.848	-2.770	26.172	1.00	90.19	O
ATOM	851	OE2	GLU A 109	-4.188	-0.792	26.875	1.00	90.19	O
ATOM	852	N	ASP A 110	-8.891	2.117	29.000	1.00	89.81	N
ATOM	853	CA	ASP A 110	-8.969	3.295	29.859	1.00	89.81	C
ATOM	854	C	ASP A 110	-9.680	4.445	29.156	1.00	89.81	C
ATOM	855	CB	ASP A 110	-7.566	3.732	30.297	1.00	89.81	C
ATOM	856	O	ASP A 110	-9.258	5.602	29.266	1.00	89.81	O
ATOM	857	CG	ASP A 110	-6.844	2.676	31.125	1.00	89.81	C
ATOM	858	OD1	ASP A 110	-7.500	1.972	31.922	1.00	89.81	O
ATOM	859	OD2	ASP A 110	-5.609	2.551	30.969	1.00	89.81	O
ATOM	860	N	GLY A 111	-10.688	4.152	28.250	1.00	84.94	N
ATOM	861	CA	GLY A 111	-11.492	5.188	27.625	1.00	84.94	C
ATOM	862	C	GLY A 111	-10.820	5.801	26.406	1.00	84.94	C
ATOM	863	O	GLY A 111	-11.328	6.762	25.828	1.00	84.94	O
ATOM	864	N	LYS A 112	-9.617	5.238	26.047	1.00	89.69	N
ATOM	865	CA	LYS A 112	-8.883	5.688	24.875	1.00	89.69	C
ATOM	866	C	LYS A 112	-8.891	4.617	23.781	1.00	89.69	C
ATOM	867	CB	LYS A 112	-7.449	6.055	25.234	1.00	89.69	C
ATOM	868	O	LYS A 112	-8.766	3.428	24.078	1.00	89.69	O
ATOM	869	CG	LYS A 112	-7.336	7.238	26.188	1.00	89.69	C
ATOM	870	CD	LYS A 112	-5.883	7.574	26.500	1.00	89.69	C
ATOM	871	CE	LYS A 112	-5.770	8.727	27.484	1.00	89.69	C
ATOM	872	NZ	LYS A 112	-4.348	9.031	27.812	1.00	89.69	N
ATOM	873	N	LEU A 113	-9.039	5.039	22.578	1.00	91.00	N
ATOM	874	CA	LEU A 113	-8.969	4.160	21.422	1.00	91.00	C
ATOM	875	C	LEU A 113	-7.523	3.975	20.969	1.00	91.00	C
ATOM	876	CB	LEU A 113	-9.812	4.723	20.281	1.00	91.00	C
ATOM	877	O	LEU A 113	-6.801	4.953	20.766	1.00	91.00	O
ATOM	878	CG	LEU A 113	-9.938	3.842	19.031	1.00	91.00	C
ATOM	879	CD1	LEU A 113	-10.828	2.641	19.328	1.00	91.00	C
ATOM	880	CD2	LEU A 113	-10.484	4.648	17.859	1.00	91.00	C
ATOM	881	N	ASN A 114	-7.055	2.795	20.953	1.00	93.19	N
ATOM	882	CA	ASN A 114	-5.715	2.473	20.484	1.00	93.19	C
ATOM	883	C	ASN A 114	-5.754	1.751	19.141	1.00	93.19	C
ATOM	884	CB	ASN A 114	-4.965	1.630	21.516	1.00	93.19	C
ATOM	885	O	ASN A 114	-6.430	0.732	19.000	1.00	93.19	O
ATOM	886	CG	ASN A 114	-4.746	2.367	22.828	1.00	93.19	C
ATOM	887	ND2	ASN A 114	-5.219	1.785	23.922	1.00	93.19	N
ATOM	888	OD1	ASN A 114	-4.160	3.451	22.844	1.00	93.19	O
ATOM	889	N	VAL A 115	-5.031	2.289	18.125	1.00	93.62	N
ATOM	890	CA	VAL A 115	-4.961	1.661	16.812	1.00	93.62	C
ATOM	891	C	VAL A 115	-3.510	1.306	16.484	1.00	93.62	C
ATOM	892	CB	VAL A 115	-5.543	2.576	15.711	1.00	93.62	C

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ATOM	893	O	VAL A 115	-2.648	2.186	16.422	1.00	93.62	O
ATOM	894	CG1	VAL A 115	-5.551	1.860	14.367	1.00	93.62	C
ATOM	895	CG2	VAL A 115	-6.953	3.029	16.094	1.00	93.62	C
ATOM	896	N	GLU A 116	-3.232	0.056	16.422	1.00	95.31	N
ATOM	897	CA	GLU A 116	-1.906	-0.432	16.047	1.00	95.31	C
ATOM	898	C	GLU A 116	-1.888	-0.959	14.617	1.00	95.31	C
ATOM	899	CB	GLU A 116	-1.449	-1.525	17.016	1.00	95.31	C
ATOM	900	O	GLU A 116	-2.648	-1.866	14.273	1.00	95.31	O
ATOM	901	CG	GLU A 116	-0.020	-1.996	16.781	1.00	95.31	C
ATOM	902	CD	GLU A 116	0.418	-3.086	17.750	1.00	95.31	C
ATOM	903	OE1	GLU A 116	1.174	-3.994	17.344	1.00	95.31	O
ATOM	904	OE2	GLU A 116	0.001	-3.029	18.922	1.00	95.31	O
ATOM	905	N	VAL A 117	-1.023	-0.353	13.836	1.00	95.94	N
ATOM	906	CA	VAL A 117	-0.890	-0.770	12.445	1.00	95.94	C
ATOM	907	C	VAL A 117	0.544	-1.220	12.172	1.00	95.94	C
ATOM	908	CB	VAL A 117	-1.284	0.364	11.469	1.00	95.94	C
ATOM	909	O	VAL A 117	1.493	-0.469	12.414	1.00	95.94	O
ATOM	910	CG1	VAL A 117	-1.201	-0.114	10.023	1.00	95.94	C
ATOM	911	CG2	VAL A 117	-2.688	0.875	11.789	1.00	95.94	C
ATOM	912	N	ASN A 118	0.691	-2.414	11.758	1.00	95.88	N
ATOM	913	CA	ASN A 118	1.982	-2.967	11.359	1.00	95.88	C
ATOM	914	C	ASN A 118	1.999	-3.342	9.883	1.00	95.88	C
ATOM	915	CB	ASN A 118	2.334	-4.184	12.219	1.00	95.88	C
ATOM	916	O	ASN A 118	1.147	-4.102	9.422	1.00	95.88	O
ATOM	917	CG	ASN A 118	2.555	-3.822	13.680	1.00	95.88	C
ATOM	918	ND2	ASN A 118	1.648	-4.266	14.539	1.00	95.88	N
ATOM	919	OD1	ASN A 118	3.531	-3.154	14.023	1.00	95.88	O
ATOM	920	N	VAL A 119	2.971	-2.805	9.203	1.00	95.69	N
ATOM	921	CA	VAL A 119	3.029	-3.059	7.770	1.00	95.69	C
ATOM	922	C	VAL A 119	4.398	-3.621	7.398	1.00	95.69	C
ATOM	923	CB	VAL A 119	2.742	-1.776	6.953	1.00	95.69	C
ATOM	924	O	VAL A 119	5.430	-3.051	7.762	1.00	95.69	O
ATOM	925	CG1	VAL A 119	2.736	-2.078	5.457	1.00	95.69	C
ATOM	926	CG2	VAL A 119	1.412	-1.159	7.383	1.00	95.69	C
ATOM	927	N	THR A 120	4.359	-4.730	6.746	1.00	95.12	N
ATOM	928	CA	THR A 120	5.555	-5.273	6.117	1.00	95.12	C
ATOM	929	C	THR A 120	5.371	-5.387	4.605	1.00	95.12	C
ATOM	930	CB	THR A 120	5.914	-6.656	6.695	1.00	95.12	C
ATOM	931	O	THR A 120	4.344	-5.879	4.137	1.00	95.12	O
ATOM	932	CG2	THR A 120	6.258	-6.559	8.180	1.00	95.12	C
ATOM	933	OG1	THR A 120	4.793	-7.535	6.535	1.00	95.12	O
ATOM	934	N	ALA A 121	6.285	-4.816	3.902	1.00	95.81	N
ATOM	935	CA	ALA A 121	6.176	-4.820	2.445	1.00	95.81	C
ATOM	936	C	ALA A 121	7.531	-5.094	1.796	1.00	95.81	C
ATOM	937	CB	ALA A 121	5.609	-3.494	1.948	1.00	95.81	C
ATOM	938	O	ALA A 121	8.570	-4.711	2.334	1.00	95.81	O
ATOM	939	N	SER A 122	7.461	-5.824	0.663	1.00	95.50	N
ATOM	940	CA	SER A 122	8.656	-6.094	-0.129	1.00	95.50	C
ATOM	941	C	SER A 122	8.344	-6.094	-1.622	1.00	95.50	C
ATOM	942	CB	SER A 122	9.273	-7.438	0.271	1.00	95.50	C
ATOM	943	O	SER A 122	7.207	-6.359	-2.023	1.00	95.50	O
ATOM	944	OG	SER A 122	8.383	-8.500	-0.023	1.00	95.50	O
ATOM	945	N	ALA A 123	9.273	-5.738	-2.377	1.00	95.94	N

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ATOM	946	CA	ALA A 123	9.125	-5.730	-3.830	1.00	95.94	C
ATOM	947	C	ALA A 123	10.445	-6.055	-4.520	1.00	95.94	C
ATOM	948	CB	ALA A 123	8.594	-4.379	-4.309	1.00	95.94	C
ATOM	949	O	ALA A 123	11.500	-5.578	-4.102	1.00	95.94	O
ATOM	950	N	THR A 124	10.328	-6.910	-5.594	1.00	95.94	N
ATOM	951	CA	THR A 124	11.492	-7.285	-6.391	1.00	95.94	C
ATOM	952	C	THR A 124	11.164	-7.262	-7.879	1.00	95.94	C
ATOM	953	CB	THR A 124	12.008	-8.680	-5.996	1.00	95.94	C
ATOM	954	O	THR A 124	10.023	-7.547	-8.273	1.00	95.94	O
ATOM	955	CG2	THR A 124	12.453	-8.711	-4.539	1.00	95.94	C
ATOM	956	OG1	THR A 124	10.969	-9.641	-6.184	1.00	95.94	O
ATOM	957	N	VAL A 125	12.125	-6.867	-8.648	1.00	96.12	N
ATOM	958	CA	VAL A 125	11.984	-6.887	-10.094	1.00	96.12	C
ATOM	959	C	VAL A 125	13.102	-7.727	-10.719	1.00	96.12	C
ATOM	960	CB	VAL A 125	12.000	-5.457	-10.688	1.00	96.12	C
ATOM	961	O	VAL A 125	14.273	-7.566	-10.367	1.00	96.12	O
ATOM	962	CG1	VAL A 125	11.961	-5.504	-12.211	1.00	96.12	C
ATOM	963	CG2	VAL A 125	10.836	-4.641	-10.141	1.00	96.12	C
ATOM	964	N	THR A 126	12.672	-8.680	-11.523	1.00	95.12	N
ATOM	965	CA	THR A 126	13.617	-9.469	-12.312	1.00	95.12	C
ATOM	966	C	THR A 126	13.500	-9.125	-13.797	1.00	95.12	C
ATOM	967	CB	THR A 126	13.391	-10.977	-12.109	1.00	95.12	C
ATOM	968	O	THR A 126	12.406	-9.156	-14.359	1.00	95.12	O
ATOM	969	CG2	THR A 126	14.414	-11.797	-12.891	1.00	95.12	C
ATOM	970	OG1	THR A 126	13.500	-11.289	-10.719	1.00	95.12	O
ATOM	971	N	LEU A 127	14.641	-8.734	-14.344	1.00	93.75	N
ATOM	972	CA	LEU A 127	14.695	-8.352	-15.750	1.00	93.75	C
ATOM	973	C	LEU A 127	15.477	-9.375	-16.562	1.00	93.75	C
ATOM	974	CB	LEU A 127	15.336	-6.969	-15.906	1.00	93.75	C
ATOM	975	O	LEU A 127	16.625	-9.688	-16.250	1.00	93.75	O
ATOM	976	CG	LEU A 127	14.664	-5.824	-15.141	1.00	93.75	C
ATOM	977	CD1	LEU A 127	15.625	-4.648	-15.000	1.00	93.75	C
ATOM	978	CD2	LEU A 127	13.383	-5.395	-15.836	1.00	93.75	C
ATOM	979	N	LYS A 128	14.828	-9.914	-17.594	1.00	94.50	N
ATOM	980	CA	LYS A 128	15.516	-10.789	-18.547	1.00	94.50	C
ATOM	981	C	LYS A 128	15.609	-10.148	-19.922	1.00	94.50	C
ATOM	982	CB	LYS A 128	14.797	-12.141	-18.641	1.00	94.50	C
ATOM	983	O	LYS A 128	14.586	-9.859	-20.547	1.00	94.50	O
ATOM	984	CG	LYS A 128	15.508	-13.156	-19.516	1.00	94.50	C
ATOM	985	CD	LYS A 128	14.750	-14.477	-19.562	1.00	94.50	C
ATOM	986	CE	LYS A 128	15.461	-15.492	-20.453	1.00	94.50	C
ATOM	987	NZ	LYS A 128	14.734	-16.797	-20.484	1.00	94.50	N
ATOM	988	N	ASN A 129	16.859	-9.789	-20.266	1.00	92.44	N
ATOM	989	CA	ASN A 129	17.094	-9.297	-21.625	1.00	92.44	C
ATOM	990	C	ASN A 129	16.781	-10.367	-22.672	1.00	92.44	C
ATOM	991	CB	ASN A 129	18.531	-8.797	-21.781	1.00	92.44	C
ATOM	992	O	ASN A 129	17.422	-11.422	-22.688	1.00	92.44	O
ATOM	993	CG	ASN A 129	18.750	-8.070	-23.094	1.00	92.44	C
ATOM	994	ND2	ASN A 129	19.359	-6.895	-23.031	1.00	92.44	N
ATOM	995	OD1	ASN A 129	18.391	-8.570	-24.156	1.00	92.44	O
ATOM	996	N	LYS A 130	15.852	-10.133	-23.656	1.00	92.88	N
ATOM	997	CA	LYS A 130	15.391	-11.148	-24.594	1.00	92.88	C
ATOM	998	C	LYS A 130	16.438	-11.414	-25.672	1.00	92.88	C

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ATOM	999	CB	LYS A 130	14.070	-10.727	-25.234	1.00	92.88	C
ATOM	1000	O	LYS A 130	16.484	-12.508	-26.250	1.00	92.88	O
ATOM	1001	CG	LYS A 130	12.859	-10.875	-24.328	1.00	92.88	C
ATOM	1002	CD	LYS A 130	11.562	-10.781	-25.109	1.00	92.88	C
ATOM	1003	CE	LYS A 130	10.359	-11.172	-24.266	1.00	92.88	C
ATOM	1004	NZ	LYS A 130	9.078	-11.062	-25.016	1.00	92.88	N
ATOM	1005	N	GLU A 131	17.312	-10.445	-25.828	1.00	90.56	N
ATOM	1006	CA	GLU A 131	18.328	-10.578	-26.859	1.00	90.56	C
ATOM	1007	C	GLU A 131	19.531	-11.359	-26.359	1.00	90.56	C
ATOM	1008	CB	GLU A 131	18.766	-9.203	-27.375	1.00	90.56	C
ATOM	1009	O	GLU A 131	20.047	-12.234	-27.047	1.00	90.56	O
ATOM	1010	CG	GLU A 131	17.672	-8.453	-28.125	1.00	90.56	C
ATOM	1011	CD	GLU A 131	18.125	-7.082	-28.609	1.00	90.56	C
ATOM	1012	OE1	GLU A 131	17.312	-6.371	-29.250	1.00	90.56	O
ATOM	1013	OE2	GLU A 131	19.281	-6.715	-28.344	1.00	90.56	O
ATOM	1014	N	THR A 132	19.969	-11.086	-25.125	1.00	91.06	N
ATOM	1015	CA	THR A 132	21.203	-11.664	-24.609	1.00	91.06	C
ATOM	1016	C	THR A 132	20.906	-12.805	-23.641	1.00	91.06	C
ATOM	1017	CB	THR A 132	22.062	-10.602	-23.891	1.00	91.06	C
ATOM	1018	O	THR A 132	21.781	-13.625	-23.344	1.00	91.06	O
ATOM	1019	CG2	THR A 132	22.328	-9.414	-24.812	1.00	91.06	C
ATOM	1020	OG1	THR A 132	21.375	-10.141	-22.719	1.00	91.06	O
ATOM	1021	N	GLY A 133	19.734	-12.914	-23.078	1.00	93.62	N
ATOM	1022	CA	GLY A 133	19.375	-13.906	-22.062	1.00	93.62	C
ATOM	1023	C	GLY A 133	19.859	-13.531	-20.672	1.00	93.62	C
ATOM	1024	O	GLY A 133	19.672	-14.297	-19.734	1.00	93.62	O
ATOM	1025	N	GLU A 134	20.500	-12.492	-20.469	1.00	91.00	N
ATOM	1026	CA	GLU A 134	20.984	-11.984	-19.188	1.00	91.00	C
ATOM	1027	C	GLU A 134	19.828	-11.648	-18.250	1.00	91.00	C
ATOM	1028	CB	GLU A 134	21.875	-10.758	-19.406	1.00	91.00	C
ATOM	1029	O	GLU A 134	18.859	-11.023	-18.672	1.00	91.00	O
ATOM	1030	CG	GLU A 134	22.562	-10.273	-18.141	1.00	91.00	C
ATOM	1031	CD	GLU A 134	23.375	-9.008	-18.344	1.00	91.00	C
ATOM	1032	OE1	GLU A 134	23.906	-8.461	-17.359	1.00	91.00	O
ATOM	1033	OE2	GLU A 134	23.484	-8.555	-19.500	1.00	91.00	O
ATOM	1034	N	VAL A 135	20.016	-12.125	-16.984	1.00	93.19	N
ATOM	1035	CA	VAL A 135	19.000	-11.906	-15.961	1.00	93.19	C
ATOM	1036	C	VAL A 135	19.547	-11.008	-14.859	1.00	93.19	C
ATOM	1037	CB	VAL A 135	18.500	-13.242	-15.367	1.00	93.19	C
ATOM	1038	O	VAL A 135	20.656	-11.234	-14.359	1.00	93.19	O
ATOM	1039	CG1	VAL A 135	17.453	-12.992	-14.281	1.00	93.19	C
ATOM	1040	CG2	VAL A 135	17.938	-14.141	-16.469	1.00	93.19	C
ATOM	1041	N	LYS A 136	18.625	-10.086	-14.500	1.00	91.25	N
ATOM	1042	CA	LYS A 136	18.984	-9.188	-13.398	1.00	91.25	C
ATOM	1043	C	LYS A 136	17.812	-9.039	-12.430	1.00	91.25	C
ATOM	1044	CB	LYS A 136	19.391	-7.820	-13.938	1.00	91.25	C
ATOM	1045	O	LYS A 136	16.656	-8.984	-12.844	1.00	91.25	O
ATOM	1046	CG	LYS A 136	20.562	-7.867	-14.914	1.00	91.25	C
ATOM	1047	CD	LYS A 136	21.891	-8.070	-14.180	1.00	91.25	C
ATOM	1048	CE	LYS A 136	23.062	-7.988	-15.141	1.00	91.25	C
ATOM	1049	NZ	LYS A 136	24.344	-8.367	-14.461	1.00	91.25	N
ATOM	1050	N	THR A 137	18.312	-8.984	-11.203	1.00	94.44	N
ATOM	1051	CA	THR A 137	17.312	-8.805	-10.164	1.00	94.44	C

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ATOM	1052	C	THR A 137	17.562	-7.516	-9.383	1.00	94.44	C
ATOM	1053	CB	THR A 137	17.281	-10.000	-9.188	1.00	94.44	C
ATOM	1054	O	THR A 137	18.703	-7.242	-8.984	1.00	94.44	O
ATOM	1055	CG2	THR A 137	16.250	-9.797	-8.094	1.00	94.44	C
ATOM	1056	OG1	THR A 137	16.969	-11.195	-9.922	1.00	94.44	O
ATOM	1057	N	ILE A 138	16.484	-6.676	-9.203	1.00	95.31	N
ATOM	1058	CA	ILE A 138	16.578	-5.434	-8.445	1.00	95.31	C
ATOM	1059	C	ILE A 138	15.664	-5.504	-7.223	1.00	95.31	C
ATOM	1060	CB	ILE A 138	16.203	-4.211	-9.320	1.00	95.31	C
ATOM	1061	O	ILE A 138	14.453	-5.699	-7.355	1.00	95.31	O
ATOM	1062	CG1	ILE A 138	17.031	-4.215	-10.617	1.00	95.31	C
ATOM	1063	CG2	ILE A 138	16.422	-2.908	-8.547	1.00	95.31	C
ATOM	1064	CD1	ILE A 138	16.562	-3.193	-11.641	1.00	95.31	C
ATOM	1065	N	ASN A 139	16.312	-5.418	-6.047	1.00	94.56	N
ATOM	1066	CA	ASN A 139	15.516	-5.254	-4.844	1.00	94.56	C
ATOM	1067	C	ASN A 139	15.078	-3.803	-4.652	1.00	94.56	C
ATOM	1068	CB	ASN A 139	16.281	-5.746	-3.613	1.00	94.56	C
ATOM	1069	O	ASN A 139	15.906	-2.893	-4.699	1.00	94.56	O
ATOM	1070	CG	ASN A 139	16.531	-7.238	-3.648	1.00	94.56	C
ATOM	1071	ND2	ASN A 139	17.781	-7.629	-3.430	1.00	94.56	N
ATOM	1072	OD1	ASN A 139	15.625	-8.039	-3.871	1.00	94.56	O
ATOM	1073	N	LEU A 140	13.805	-3.629	-4.445	1.00	96.69	N
ATOM	1074	CA	LEU A 140	13.266	-2.275	-4.371	1.00	96.69	C
ATOM	1075	C	LEU A 140	13.172	-1.805	-2.926	1.00	96.69	C
ATOM	1076	CB	LEU A 140	11.883	-2.213	-5.031	1.00	96.69	C
ATOM	1077	O	LEU A 140	12.844	-2.590	-2.031	1.00	96.69	O
ATOM	1078	CG	LEU A 140	11.789	-2.713	-6.473	1.00	96.69	C
ATOM	1079	CD1	LEU A 140	10.367	-2.582	-6.992	1.00	96.69	C
ATOM	1080	CD2	LEU A 140	12.766	-1.946	-7.363	1.00	96.69	C
ATOM	1081	N	ASP A 141	13.672	-0.641	-2.729	1.00	95.56	N
ATOM	1082	CA	ASP A 141	13.430	0.000	-1.440	1.00	95.56	C
ATOM	1083	C	ASP A 141	11.961	0.381	-1.287	1.00	95.56	C
ATOM	1084	CB	ASP A 141	14.312	1.240	-1.281	1.00	95.56	C
ATOM	1085	O	ASP A 141	11.375	1.002	-2.180	1.00	95.56	O
ATOM	1086	CG	ASP A 141	15.789	0.908	-1.209	1.00	95.56	C
ATOM	1087	OD1	ASP A 141	16.156	-0.156	-0.662	1.00	95.56	O
ATOM	1088	OD2	ASP A 141	16.609	1.721	-1.700	1.00	95.56	O
ATOM	1089	N	VAL A 142	11.438	0.013	-0.109	1.00	96.19	N
ATOM	1090	CA	VAL A 142	10.008	0.230	0.088	1.00	96.19	C
ATOM	1091	C	VAL A 142	9.789	1.313	1.142	1.00	96.19	C
ATOM	1092	CB	VAL A 142	9.289	-1.072	0.506	1.00	96.19	C
ATOM	1093	O	VAL A 142	10.375	1.264	2.225	1.00	96.19	O
ATOM	1094	CG1	VAL A 142	7.820	-0.798	0.832	1.00	96.19	C
ATOM	1095	CG2	VAL A 142	9.406	-2.123	-0.597	1.00	96.19	C
ATOM	1096	N	THR A 143	9.102	2.289	0.796	1.00	95.88	N
ATOM	1097	CA	THR A 143	8.633	3.312	1.726	1.00	95.88	C
ATOM	1098	C	THR A 143	7.129	3.188	1.958	1.00	95.88	C
ATOM	1099	CB	THR A 143	8.961	4.727	1.211	1.00	95.88	C
ATOM	1100	O	THR A 143	6.352	3.152	1.005	1.00	95.88	O
ATOM	1101	CG2	THR A 143	8.500	5.793	2.199	1.00	95.88	C
ATOM	1102	OG1	THR A 143	10.375	4.844	1.025	1.00	95.88	O
ATOM	1103	N	VAL A 144	6.750	3.098	3.273	1.00	96.31	N
ATOM	1104	CA	VAL A 144	5.348	2.939	3.639	1.00	96.31	C

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ATOM	1105	C	VAL A 144	4.867	4.184	4.383	1.00	96.31	C
ATOM	1106	CB	VAL A 144	5.125	1.680	4.504	1.00	96.31	C
ATOM	1107	O	VAL A 144	5.508	4.629	5.336	1.00	96.31	O
ATOM	1108	CG1	VAL A 144	3.654	1.549	4.898	1.00	96.31	C
ATOM	1109	CG2	VAL A 144	5.594	0.431	3.758	1.00	96.31	C
ATOM	1110	N	THR A 145	3.834	4.715	3.945	1.00	96.12	N
ATOM	1111	CA	THR A 145	3.156	5.809	4.633	1.00	96.12	C
ATOM	1112	C	THR A 145	1.740	5.402	5.031	1.00	96.12	C
ATOM	1113	CB	THR A 145	3.100	7.070	3.752	1.00	96.12	C
ATOM	1114	O	THR A 145	0.964	4.934	4.195	1.00	96.12	O
ATOM	1115	CG2	THR A 145	2.463	8.234	4.504	1.00	96.12	C
ATOM	1116	OG1	THR A 145	4.430	7.438	3.367	1.00	96.12	O
ATOM	1117	N	VAL A 146	1.423	5.562	6.293	1.00	96.31	N
ATOM	1118	CA	VAL A 146	0.090	5.262	6.805	1.00	96.31	C
ATOM	1119	C	VAL A 146	-0.582	6.547	7.285	1.00	96.31	C
ATOM	1120	CB	VAL A 146	0.144	4.227	7.953	1.00	96.31	C
ATOM	1121	O	VAL A 146	-0.048	7.250	8.148	1.00	96.31	O
ATOM	1122	CG1	VAL A 146	-1.266	3.867	8.422	1.00	96.31	C
ATOM	1123	CG2	VAL A 146	0.899	2.977	7.508	1.00	96.31	C
ATOM	1124	N	ASN A 147	-1.748	6.871	6.684	1.00	95.69	N
ATOM	1125	CA	ASN A 147	-2.514	8.055	7.059	1.00	95.69	C
ATOM	1126	C	ASN A 147	-3.871	7.684	7.648	1.00	95.69	C
ATOM	1127	CB	ASN A 147	-2.693	8.984	5.855	1.00	95.69	C
ATOM	1128	O	ASN A 147	-4.578	6.840	7.098	1.00	95.69	O
ATOM	1129	CG	ASN A 147	-1.375	9.508	5.324	1.00	95.69	C
ATOM	1130	ND2	ASN A 147	-1.201	9.453	4.008	1.00	95.69	N
ATOM	1131	OD1	ASN A 147	-0.520	9.969	6.086	1.00	95.69	O
ATOM	1132	N	LEU A 148	-4.121	8.258	8.812	1.00	95.56	N
ATOM	1133	CA	LEU A 148	-5.504	8.219	9.281	1.00	95.56	C
ATOM	1134	C	LEU A 148	-6.352	9.250	8.547	1.00	95.56	C
ATOM	1135	CB	LEU A 148	-5.566	8.477	10.789	1.00	95.56	C
ATOM	1136	O	LEU A 148	-6.141	10.461	8.695	1.00	95.56	O
ATOM	1137	CG	LEU A 148	-6.965	8.516	11.414	1.00	95.56	C
ATOM	1138	CD1	LEU A 148	-7.629	7.145	11.312	1.00	95.56	C
ATOM	1139	CD2	LEU A 148	-6.891	8.969	12.867	1.00	95.56	C
ATOM	1140	N	VAL A 149	-7.301	8.734	7.770	1.00	96.94	N
ATOM	1141	CA	VAL A 149	-8.102	9.625	6.934	1.00	96.94	C
ATOM	1142	C	VAL A 149	-9.258	10.203	7.750	1.00	96.94	C
ATOM	1143	CB	VAL A 149	-8.641	8.891	5.684	1.00	96.94	C
ATOM	1144	O	VAL A 149	-9.484	11.414	7.738	1.00	96.94	O
ATOM	1145	CG1	VAL A 149	-9.547	9.820	4.867	1.00	96.94	C
ATOM	1146	CG2	VAL A 149	-7.488	8.375	4.828	1.00	96.94	C
ATOM	1147	N	SER A 150	-9.984	9.273	8.391	1.00	96.00	N
ATOM	1148	CA	SER A 150	-11.117	9.711	9.203	1.00	96.00	C
ATOM	1149	C	SER A 150	-11.391	8.742	10.344	1.00	96.00	C
ATOM	1150	CB	SER A 150	-12.367	9.859	8.336	1.00	96.00	C
ATOM	1151	O	SER A 150	-11.031	7.562	10.258	1.00	96.00	O
ATOM	1152	OG	SER A 150	-12.859	8.594	7.938	1.00	96.00	O
ATOM	1153	N	LEU A 151	-11.914	9.289	11.383	1.00	95.75	N
ATOM	1154	CA	LEU A 151	-12.438	8.539	12.516	1.00	95.75	C
ATOM	1155	C	LEU A 151	-13.852	8.992	12.859	1.00	95.75	C
ATOM	1156	CB	LEU A 151	-11.523	8.711	13.734	1.00	95.75	C
ATOM	1157	O	LEU A 151	-14.078	10.172	13.133	1.00	95.75	O

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ATOM	1158	CG	LEU A 151	-11.914	7.922	14.992	1.00	95.75	C
ATOM	1159	CD1	LEU A 151	-11.727	6.430	14.758	1.00	95.75	C
ATOM	1160	CD2	LEU A 151	-11.094	8.391	16.188	1.00	95.75	C
ATOM	1161	N	SER A 152	-14.805	7.996	12.773	1.00	96.12	N
ATOM	1162	CA	SER A 152	-16.188	8.383	13.047	1.00	96.12	C
ATOM	1163	C	SER A 152	-16.906	7.332	13.883	1.00	96.12	C
ATOM	1164	CB	SER A 152	-16.953	8.617	11.742	1.00	96.12	C
ATOM	1165	O	SER A 152	-16.500	6.164	13.898	1.00	96.12	O
ATOM	1166	OG	SER A 152	-17.047	7.422	10.992	1.00	96.12	O
ATOM	1167	N	THR A 153	-17.922	7.785	14.570	1.00	95.00	N
ATOM	1168	CA	THR A 153	-18.734	6.898	15.406	1.00	95.00	C
ATOM	1169	C	THR A 153	-20.203	7.027	15.062	1.00	95.00	C
ATOM	1170	CB	THR A 153	-18.516	7.195	16.906	1.00	95.00	C
ATOM	1171	O	THR A 153	-20.719	8.133	14.891	1.00	95.00	O
ATOM	1172	CG2	THR A 153	-19.297	6.219	17.781	1.00	95.00	C
ATOM	1173	OG1	THR A 153	-17.125	7.078	17.219	1.00	95.00	O
ATOM	1174	N	GLU A 154	-20.812	5.922	14.922	1.00	95.94	N
ATOM	1175	CA	GLU A 154	-22.250	5.898	14.664	1.00	95.94	C
ATOM	1176	C	GLU A 154	-22.969	4.988	15.656	1.00	95.94	C
ATOM	1177	CB	GLU A 154	-22.531	5.441	13.227	1.00	95.94	C
ATOM	1178	O	GLU A 154	-22.469	3.912	15.992	1.00	95.94	O
ATOM	1179	CG	GLU A 154	-22.031	6.406	12.164	1.00	95.94	C
ATOM	1180	CD	GLU A 154	-22.297	5.926	10.750	1.00	95.94	C
ATOM	1181	OE1	GLU A 154	-22.047	6.695	9.789	1.00	95.94	O
ATOM	1182	OE2	GLU A 154	-22.766	4.773	10.594	1.00	95.94	O
ATOM	1183	N	THR A 155	-24.125	5.520	16.141	1.00	95.69	N
ATOM	1184	CA	THR A 155	-24.906	4.750	17.094	1.00	95.69	C
ATOM	1185	C	THR A 155	-26.281	4.406	16.516	1.00	95.69	C
ATOM	1186	CB	THR A 155	-25.094	5.516	18.422	1.00	95.69	C
ATOM	1187	O	THR A 155	-26.953	5.270	15.945	1.00	95.69	O
ATOM	1188	CG2	THR A 155	-25.875	4.688	19.438	1.00	95.69	C
ATOM	1189	OG1	THR A 155	-23.797	5.820	18.969	1.00	95.69	O
ATOM	1190	N	GLU A 156	-26.562	3.145	16.562	1.00	95.44	N
ATOM	1191	CA	GLU A 156	-27.875	2.670	16.109	1.00	95.44	C
ATOM	1192	C	GLU A 156	-28.594	1.913	17.219	1.00	95.44	C
ATOM	1193	CB	GLU A 156	-27.719	1.778	14.883	1.00	95.44	C
ATOM	1194	O	GLU A 156	-28.000	1.067	17.891	1.00	95.44	O
ATOM	1195	CG	GLU A 156	-29.047	1.307	14.297	1.00	95.44	C
ATOM	1196	CD	GLU A 156	-28.875	0.367	13.117	1.00	95.44	C
ATOM	1197	OE1	GLU A 156	-29.891	0.040	12.453	1.00	95.44	O
ATOM	1198	OE2	GLU A 156	-27.719	-0.047	12.852	1.00	95.44	O
ATOM	1199	N	THR A 157	-29.906	2.295	17.422	1.00	94.25	N
ATOM	1200	CA	THR A 157	-30.719	1.625	18.438	1.00	94.25	C
ATOM	1201	C	THR A 157	-31.891	0.893	17.781	1.00	94.25	C
ATOM	1202	CB	THR A 157	-31.250	2.623	19.484	1.00	94.25	C
ATOM	1203	O	THR A 157	-32.625	1.468	16.969	1.00	94.25	O
ATOM	1204	CG2	THR A 157	-32.031	1.910	20.578	1.00	94.25	C
ATOM	1205	OG1	THR A 157	-30.141	3.312	20.078	1.00	94.25	O
ATOM	1206	N	LYS A 158	-31.875	-0.441	18.031	1.00	94.19	N
ATOM	1207	CA	LYS A 158	-32.969	-1.269	17.531	1.00	94.19	C
ATOM	1208	C	LYS A 158	-33.812	-1.828	18.688	1.00	94.19	C
ATOM	1209	CB	LYS A 158	-32.438	-2.412	16.672	1.00	94.19	C
ATOM	1210	O	LYS A 158	-33.250	-2.328	19.672	1.00	94.19	O

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ATOM	1211	CG	LYS A 158	-33.531	-3.180	15.922	1.00	94.19	C
ATOM	1212	CD	LYS A 158	-32.906	-4.258	15.031	1.00	94.19	C
ATOM	1213	CE	LYS A 158	-34.000	-5.051	14.312	1.00	94.19	C
ATOM	1214	NZ	LYS A 158	-33.406	-6.105	13.430	1.00	94.19	N
ATOM	1215	N	GLU A 159	-35.156	-1.670	18.578	1.00	93.81	N
ATOM	1216	CA	GLU A 159	-36.062	-2.160	19.609	1.00	93.81	C
ATOM	1217	C	GLU A 159	-36.938	-3.287	19.078	1.00	93.81	C
ATOM	1218	CB	GLU A 159	-36.938	-1.021	20.156	1.00	93.81	C
ATOM	1219	O	GLU A 159	-37.562	-3.164	18.000	1.00	93.81	O
ATOM	1220	CG	GLU A 159	-36.156	0.004	20.969	1.00	93.81	C
ATOM	1221	CD	GLU A 159	-37.062	1.066	21.594	1.00	93.81	C
ATOM	1222	OE1	GLU A 159	-36.562	1.936	22.328	1.00	93.81	O
ATOM	1223	OE2	GLU A 159	-38.281	1.030	21.328	1.00	93.81	O
ATOM	1224	N	GLU A 160	-36.875	-4.387	19.766	1.00	92.19	N
ATOM	1225	CA	GLU A 160	-37.719	-5.523	19.438	1.00	92.19	C
ATOM	1226	C	GLU A 160	-38.656	-5.855	20.594	1.00	92.19	C
ATOM	1227	CB	GLU A 160	-36.875	-6.750	19.094	1.00	92.19	C
ATOM	1228	O	GLU A 160	-38.219	-5.969	21.734	1.00	92.19	O
ATOM	1229	CG	GLU A 160	-36.000	-6.566	17.844	1.00	92.19	C
ATOM	1230	CD	GLU A 160	-35.156	-7.777	17.531	1.00	92.19	C
ATOM	1231	OE1	GLU A 160	-34.531	-7.820	16.438	1.00	92.19	O
ATOM	1232	OE2	GLU A 160	-35.062	-8.688	18.375	1.00	92.19	O
ATOM	1233	N	THR A 161	-40.000	-5.875	20.312	1.00	91.50	N
ATOM	1234	CA	THR A 161	-41.000	-6.152	21.328	1.00	91.50	C
ATOM	1235	C	THR A 161	-41.688	-7.488	21.078	1.00	91.50	C
ATOM	1236	CB	THR A 161	-42.062	-5.031	21.406	1.00	91.50	C
ATOM	1237	O	THR A 161	-42.094	-7.781	19.938	1.00	91.50	O
ATOM	1238	CG2	THR A 161	-43.031	-5.262	22.562	1.00	91.50	C
ATOM	1239	OG1	THR A 161	-41.406	-3.773	21.594	1.00	91.50	O
ATOM	1240	N	GLU A 162	-41.625	-8.336	22.031	1.00	90.44	N
ATOM	1241	CA	GLU A 162	-42.312	-9.617	21.938	1.00	90.44	C
ATOM	1242	C	GLU A 162	-43.312	-9.789	23.094	1.00	90.44	C
ATOM	1243	CB	GLU A 162	-41.312	-10.773	21.938	1.00	90.44	C
ATOM	1244	O	GLU A 162	-43.031	-9.359	24.219	1.00	90.44	O
ATOM	1245	CG	GLU A 162	-40.375	-10.773	20.734	1.00	90.44	C
ATOM	1246	CD	GLU A 162	-39.375	-11.930	20.734	1.00	90.44	C
ATOM	1247	OE1	GLU A 162	-38.625	-12.094	19.750	1.00	90.44	O
ATOM	1248	OE2	GLU A 162	-39.375	-12.688	21.734	1.00	90.44	O
ATOM	1249	N	VAL A 163	-44.562	-10.242	22.844	1.00	89.38	N
ATOM	1250	CA	VAL A 163	-45.562	-10.477	23.859	1.00	89.38	C
ATOM	1251	C	VAL A 163	-45.750	-11.977	24.094	1.00	89.38	C
ATOM	1252	CB	VAL A 163	-46.906	-9.836	23.469	1.00	89.38	C
ATOM	1253	O	VAL A 163	-46.000	-12.734	23.141	1.00	89.38	O
ATOM	1254	CG1	VAL A 163	-47.969	-10.070	24.562	1.00	89.38	C
ATOM	1255	CG2	VAL A 163	-46.750	-8.344	23.203	1.00	89.38	C
ATOM	1256	N	GLU A 164	-45.312	-12.516	25.234	1.00	86.38	N
ATOM	1257	CA	GLU A 164	-45.500	-13.922	25.562	1.00	86.38	C
ATOM	1258	C	GLU A 164	-46.094	-14.078	26.969	1.00	86.38	C
ATOM	1259	CB	GLU A 164	-44.188	-14.680	25.453	1.00	86.38	C
ATOM	1260	O	GLU A 164	-45.562	-13.539	27.938	1.00	86.38	O
ATOM	1261	CG	GLU A 164	-44.344	-16.188	25.516	1.00	86.38	C
ATOM	1262	CD	GLU A 164	-43.000	-16.938	25.375	1.00	86.38	C
ATOM	1263	OE1	GLU A 164	-43.000	-18.188	25.484	1.00	86.38	O

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ATOM	1264	OE2 GLU A 164	-41.969	-16.266	25.172	1.00	86.38	O
ATOM	1265	N ASP A 165	-47.344	-14.891	27.172	1.00	84.56	N
ATOM	1266	CA ASP A 165	-48.000	-15.273	28.406	1.00	84.56	C
ATOM	1267	C ASP A 165	-48.188	-14.062	29.312	1.00	84.56	C
ATOM	1268	CB ASP A 165	-47.219	-16.359	29.141	1.00	84.56	C
ATOM	1269	O ASP A 165	-47.781	-14.070	30.469	1.00	84.56	O
ATOM	1270	CG ASP A 165	-47.219	-17.688	28.406	1.00	84.56	C
ATOM	1271	OD1 ASP A 165	-48.188	-17.984	27.703	1.00	84.56	O
ATOM	1272	OD2 ASP A 165	-46.219	-18.438	28.547	1.00	84.56	O
ATOM	1273	N ASN A 166	-48.750	-12.867	28.828	1.00	82.88	N
ATOM	1274	CA ASN A 166	-49.125	-11.672	29.562	1.00	82.88	C
ATOM	1275	C ASN A 166	-47.906	-10.891	30.031	1.00	82.88	C
ATOM	1276	CB ASN A 166	-50.031	-12.031	30.750	1.00	82.88	C
ATOM	1277	O ASN A 166	-47.969	-10.148	31.016	1.00	82.88	O
ATOM	1278	CG ASN A 166	-51.406	-12.516	30.344	1.00	82.88	C
ATOM	1279	ND2 ASN A 166	-52.094	-13.203	31.250	1.00	82.88	N
ATOM	1280	OD1 ASN A 166	-51.844	-12.281	29.203	1.00	82.88	O
ATOM	1281	N VAL A 167	-46.719	-11.273	29.453	1.00	87.38	N
ATOM	1282	CA VAL A 167	-45.469	-10.562	29.672	1.00	87.38	C
ATOM	1283	C VAL A 167	-45.031	-9.836	28.391	1.00	87.38	C
ATOM	1284	CB VAL A 167	-44.344	-11.516	30.141	1.00	87.38	C
ATOM	1285	O VAL A 167	-45.000	-10.445	27.328	1.00	87.38	O
ATOM	1286	CG1 VAL A 167	-43.062	-10.742	30.391	1.00	87.38	C
ATOM	1287	CG2 VAL A 167	-44.781	-12.273	31.391	1.00	87.38	C
ATOM	1288	N ILE A 168	-44.906	-8.500	28.406	1.00	89.25	N
ATOM	1289	CA ILE A 168	-44.312	-7.695	27.344	1.00	89.25	C
ATOM	1290	C ILE A 168	-42.812	-7.613	27.516	1.00	89.25	C
ATOM	1291	CB ILE A 168	-44.938	-6.281	27.312	1.00	89.25	C
ATOM	1292	O ILE A 168	-42.312	-7.117	28.531	1.00	89.25	O
ATOM	1293	CG1 ILE A 168	-46.469	-6.363	27.109	1.00	89.25	C
ATOM	1294	CG2 ILE A 168	-44.281	-5.438	26.203	1.00	89.25	C
ATOM	1295	CD1 ILE A 168	-47.188	-5.039	27.312	1.00	89.25	C
ATOM	1296	N LYS A 169	-42.062	-8.367	26.625	1.00	91.31	N
ATOM	1297	CA LYS A 169	-40.594	-8.336	26.656	1.00	91.31	C
ATOM	1298	C LYS A 169	-40.062	-7.398	25.578	1.00	91.31	C
ATOM	1299	CB LYS A 169	-40.031	-9.742	26.453	1.00	91.31	C
ATOM	1300	O LYS A 169	-40.375	-7.543	24.391	1.00	91.31	O
ATOM	1301	CG LYS A 169	-40.375	-10.703	27.578	1.00	91.31	C
ATOM	1302	CD LYS A 169	-39.750	-12.078	27.344	1.00	91.31	C
ATOM	1303	CE LYS A 169	-40.125	-13.062	28.438	1.00	91.31	C
ATOM	1304	NZ LYS A 169	-39.562	-14.422	28.203	1.00	91.31	N
ATOM	1305	N THR A 170	-39.406	-6.324	25.938	1.00	92.25	N
ATOM	1306	CA THR A 170	-38.750	-5.383	25.047	1.00	92.25	C
ATOM	1307	C THR A 170	-37.219	-5.547	25.109	1.00	92.25	C
ATOM	1308	CB THR A 170	-39.125	-3.928	25.391	1.00	92.25	C
ATOM	1309	O THR A 170	-36.656	-5.527	26.188	1.00	92.25	O
ATOM	1310	CG2 THR A 170	-38.500	-2.951	24.391	1.00	92.25	C
ATOM	1311	OG1 THR A 170	-40.531	-3.785	25.344	1.00	92.25	O
ATOM	1312	N LYS A 171	-36.656	-5.895	23.984	1.00	93.25	N
ATOM	1313	CA LYS A 171	-35.219	-5.945	23.875	1.00	93.25	C
ATOM	1314	C LYS A 171	-34.688	-4.738	23.125	1.00	93.25	C
ATOM	1315	CB LYS A 171	-34.781	-7.238	23.203	1.00	93.25	C
ATOM	1316	O LYS A 171	-35.031	-4.531	21.953	1.00	93.25	O

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ATOM	1317	CG	LYS A 171	-33.250	-7.461	23.203	1.00	93.25	C
ATOM	1318	CD	LYS A 171	-32.906	-8.789	22.562	1.00	93.25	C
ATOM	1319	CE	LYS A 171	-31.391	-9.008	22.547	1.00	93.25	C
ATOM	1320	NZ	LYS A 171	-31.016	-10.312	21.938	1.00	93.25	N
ATOM	1321	N	LYS A 172	-33.969	-3.842	23.812	1.00	93.88	N
ATOM	1322	CA	LYS A 172	-33.281	-2.688	23.219	1.00	93.88	C
ATOM	1323	C	LYS A 172	-31.812	-2.982	22.953	1.00	93.88	C
ATOM	1324	CB	LYS A 172	-33.406	-1.466	24.125	1.00	93.88	C
ATOM	1325	O	LYS A 172	-31.062	-3.322	23.875	1.00	93.88	O
ATOM	1326	CG	LYS A 172	-34.844	-0.904	24.203	1.00	93.88	C
ATOM	1327	CD	LYS A 172	-34.875	0.374	25.031	1.00	93.88	C
ATOM	1328	CE	LYS A 172	-36.312	0.904	25.172	1.00	93.88	C
ATOM	1329	NZ	LYS A 172	-36.344	2.141	26.000	1.00	93.88	N
ATOM	1330	N	THR A 173	-31.406	-3.018	21.703	1.00	94.38	N
ATOM	1331	CA	THR A 173	-30.016	-3.234	21.328	1.00	94.38	C
ATOM	1332	C	THR A 173	-29.406	-1.950	20.781	1.00	94.38	C
ATOM	1333	CB	THR A 173	-29.891	-4.355	20.281	1.00	94.38	C
ATOM	1334	O	THR A 173	-29.891	-1.383	19.797	1.00	94.38	O
ATOM	1335	CG2	THR A 173	-28.422	-4.637	19.953	1.00	94.38	C
ATOM	1336	OG1	THR A 173	-30.484	-5.551	20.797	1.00	94.38	O
ATOM	1337	N	THR A 174	-28.453	-1.398	21.469	1.00	94.38	N
ATOM	1338	CA	THR A 174	-27.688	-0.238	21.031	1.00	94.38	C
ATOM	1339	C	THR A 174	-26.328	-0.663	20.484	1.00	94.38	C
ATOM	1340	CB	THR A 174	-27.500	0.774	22.172	1.00	94.38	C
ATOM	1341	O	THR A 174	-25.547	-1.315	21.172	1.00	94.38	O
ATOM	1342	CG2	THR A 174	-26.734	2.008	21.688	1.00	94.38	C
ATOM	1343	OG1	THR A 174	-28.781	1.176	22.672	1.00	94.38	O
ATOM	1344	N	THR A 175	-26.062	-0.430	19.219	1.00	93.38	N
ATOM	1345	CA	THR A 175	-24.797	-0.762	18.594	1.00	93.38	C
ATOM	1346	C	THR A 175	-24.016	0.504	18.250	1.00	93.38	C
ATOM	1347	CB	THR A 175	-25.000	-1.604	17.328	1.00	93.38	C
ATOM	1348	O	THR A 175	-24.531	1.388	17.562	1.00	93.38	O
ATOM	1349	CG2	THR A 175	-23.656	-2.012	16.719	1.00	93.38	C
ATOM	1350	OG1	THR A 175	-25.734	-2.785	17.656	1.00	93.38	O
ATOM	1351	N	THR A 176	-22.922	0.687	18.828	1.00	93.69	N
ATOM	1352	CA	THR A 176	-22.000	1.771	18.500	1.00	93.69	C
ATOM	1353	C	THR A 176	-20.891	1.278	17.578	1.00	93.69	C
ATOM	1354	CB	THR A 176	-21.391	2.377	19.781	1.00	93.69	C
ATOM	1355	O	THR A 176	-20.188	0.321	17.906	1.00	93.69	O
ATOM	1356	CG2	THR A 176	-20.453	3.541	19.438	1.00	93.69	C
ATOM	1357	OG1	THR A 176	-22.438	2.850	20.625	1.00	93.69	O
ATOM	1358	N	THR A 177	-20.766	1.812	16.406	1.00	94.69	N
ATOM	1359	CA	THR A 177	-19.734	1.433	15.438	1.00	94.69	C
ATOM	1360	C	THR A 177	-18.703	2.545	15.273	1.00	94.69	C
ATOM	1361	CB	THR A 177	-20.359	1.104	14.070	1.00	94.69	C
ATOM	1362	O	THR A 177	-19.062	3.688	14.977	1.00	94.69	O
ATOM	1363	CG2	THR A 177	-19.297	0.663	13.070	1.00	94.69	C
ATOM	1364	OG1	THR A 177	-21.312	0.050	14.227	1.00	94.69	O
ATOM	1365	N	THR A 178	-17.516	2.318	15.578	1.00	94.94	N
ATOM	1366	CA	THR A 178	-16.406	3.221	15.305	1.00	94.94	C
ATOM	1367	C	THR A 178	-15.758	2.887	13.961	1.00	94.94	C
ATOM	1368	CB	THR A 178	-15.352	3.154	16.422	1.00	94.94	C
ATOM	1369	O	THR A 178	-15.375	1.743	13.719	1.00	94.94	O

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ATOM	1370	CG2 THR A 178	-14.203	4.129	16.156	1.00	94.94	C
ATOM	1371	OG1 THR A 178	-15.961	3.484	17.672	1.00	94.94	O
ATOM	1372	N THR A 179	-15.781	3.777	13.094	1.00	96.31	N
ATOM	1373	CA THR A 179	-15.203	3.574	11.773	1.00	96.31	C
ATOM	1374	C THR A 179	-13.820	4.223	11.680	1.00	96.31	C
ATOM	1375	CB THR A 179	-16.109	4.145	10.672	1.00	96.31	C
ATOM	1376	O THR A 179	-13.656	5.398	12.023	1.00	96.31	O
ATOM	1377	CG2 THR A 179	-15.500	3.926	9.289	1.00	96.31	C
ATOM	1378	OG1 THR A 179	-17.391	3.490	10.727	1.00	96.31	O
ATOM	1379	N ILE A 180	-12.820	3.457	11.211	1.00	96.44	N
ATOM	1380	CA ILE A 180	-11.453	3.938	11.008	1.00	96.44	C
ATOM	1381	C ILE A 180	-11.086	3.842	9.531	1.00	96.44	C
ATOM	1382	CB ILE A 180	-10.445	3.143	11.859	1.00	96.44	C
ATOM	1383	O ILE A 180	-11.117	2.754	8.945	1.00	96.44	O
ATOM	1384	CG1 ILE A 180	-10.836	3.199	13.344	1.00	96.44	C
ATOM	1385	CG2 ILE A 180	-9.023	3.676	11.656	1.00	96.44	C
ATOM	1386	CD1 ILE A 180	-10.055	2.238	14.227	1.00	96.44	C
ATOM	1387	N ASP A 181	-10.883	4.957	8.945	1.00	96.81	N
ATOM	1388	CA ASP A 181	-10.453	4.992	7.547	1.00	96.81	C
ATOM	1389	C ASP A 181	-8.953	5.246	7.445	1.00	96.81	C
ATOM	1390	CB ASP A 181	-11.219	6.070	6.777	1.00	96.81	C
ATOM	1391	O ASP A 181	-8.445	6.254	7.945	1.00	96.81	O
ATOM	1392	CG ASP A 181	-12.703	5.766	6.648	1.00	96.81	C
ATOM	1393	OD1 ASP A 181	-13.070	4.582	6.488	1.00	96.81	O
ATOM	1394	OD2 ASP A 181	-13.508	6.719	6.703	1.00	96.81	O
ATOM	1395	N LEU A 182	-8.227	4.234	6.844	1.00	97.19	N
ATOM	1396	CA LEU A 182	-6.785	4.344	6.672	1.00	97.19	C
ATOM	1397	C LEU A 182	-6.414	4.391	5.195	1.00	97.19	C
ATOM	1398	CB LEU A 182	-6.074	3.170	7.352	1.00	97.19	C
ATOM	1399	O LEU A 182	-7.043	3.725	4.371	1.00	97.19	O
ATOM	1400	CG LEU A 182	-6.316	3.010	8.852	1.00	97.19	C
ATOM	1401	CD1 LEU A 182	-5.758	1.676	9.344	1.00	97.19	C
ATOM	1402	CD2 LEU A 182	-5.691	4.168	9.625	1.00	97.19	C
ATOM	1403	N ASN A 183	-5.516	5.277	4.926	1.00	97.06	N
ATOM	1404	CA ASN A 183	-4.859	5.297	3.621	1.00	97.06	C
ATOM	1405	C ASN A 183	-3.398	4.875	3.723	1.00	97.06	C
ATOM	1406	CB ASN A 183	-4.973	6.684	2.986	1.00	97.06	C
ATOM	1407	O ASN A 183	-2.605	5.527	4.402	1.00	97.06	O
ATOM	1408	CG ASN A 183	-4.465	6.715	1.558	1.00	97.06	C
ATOM	1409	ND2 ASN A 183	-3.592	7.672	1.258	1.00	97.06	N
ATOM	1410	OD1 ASN A 183	-4.852	5.887	0.730	1.00	97.06	O
ATOM	1411	N ILE A 184	-3.061	3.725	3.037	1.00	97.06	N
ATOM	1412	CA ILE A 184	-1.696	3.211	3.105	1.00	97.06	C
ATOM	1413	C ILE A 184	-1.046	3.291	1.727	1.00	97.06	C
ATOM	1414	CB ILE A 184	-1.665	1.758	3.631	1.00	97.06	C
ATOM	1415	O ILE A 184	-1.570	2.744	0.753	1.00	97.06	O
ATOM	1416	CG1 ILE A 184	-2.303	1.679	5.023	1.00	97.06	C
ATOM	1417	CG2 ILE A 184	-0.230	1.223	3.654	1.00	97.06	C
ATOM	1418	CD1 ILE A 184	-2.398	0.265	5.578	1.00	97.06	C
ATOM	1419	N ASN A 185	0.034	4.059	1.659	1.00	96.62	N
ATOM	1420	CA ASN A 185	0.795	4.203	0.423	1.00	96.62	C
ATOM	1421	C ASN A 185	2.098	3.406	0.470	1.00	96.62	C
ATOM	1422	CB ASN A 185	1.085	5.680	0.140	1.00	96.62	C

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ATOM	1423	O	ASN A 185	2.906	3.586	1.383	1.00	96.62	O
ATOM	1424	CG	ASN A 185	-0.175	6.484	-0.106	1.00	96.62	C
ATOM	1425	ND2	ASN A 185	-0.540	7.324	0.856	1.00	96.62	N
ATOM	1426	OD1	ASN A 185	-0.816	6.352	-1.151	1.00	96.62	O
ATOM	1427	N	ILE A 186	2.232	2.451	-0.527	1.00	95.50	N
ATOM	1428	CA	ILE A 186	3.463	1.678	-0.659	1.00	95.50	C
ATOM	1429	C	ILE A 186	4.211	2.107	-1.921	1.00	95.50	C
ATOM	1430	CB	ILE A 186	3.176	0.160	-0.697	1.00	95.50	C
ATOM	1431	O	ILE A 186	3.729	1.893	-3.037	1.00	95.50	O
ATOM	1432	CG1	ILE A 186	2.445	-0.276	0.578	1.00	95.50	C
ATOM	1433	CG2	ILE A 186	4.473	-0.630	-0.882	1.00	95.50	C
ATOM	1434	CD1	ILE A 186	2.057	-1.748	0.595	1.00	95.50	C
ATOM	1435	N	ASN A 187	5.293	2.818	-1.717	1.00	95.88	N
ATOM	1436	CA	ASN A 187	6.152	3.221	-2.822	1.00	95.88	C
ATOM	1437	C	ASN A 187	7.445	2.406	-2.852	1.00	95.88	C
ATOM	1438	CB	ASN A 187	6.469	4.715	-2.742	1.00	95.88	C
ATOM	1439	O	ASN A 187	8.148	2.320	-1.845	1.00	95.88	O
ATOM	1440	CG	ASN A 187	5.230	5.582	-2.836	1.00	95.88	C
ATOM	1441	ND2	ASN A 187	4.883	6.242	-1.739	1.00	95.88	N
ATOM	1442	OD1	ASN A 187	4.586	5.652	-3.887	1.00	95.88	O
ATOM	1443	N	SER A 188	7.598	1.730	-3.979	1.00	96.31	N
ATOM	1444	CA	SER A 188	8.805	0.926	-4.117	1.00	96.31	C
ATOM	1445	C	SER A 188	9.664	1.415	-5.277	1.00	96.31	C
ATOM	1446	CB	SER A 188	8.445	-0.547	-4.320	1.00	96.31	C
ATOM	1447	O	SER A 188	9.172	1.609	-6.387	1.00	96.31	O
ATOM	1448	OG	SER A 188	7.480	-0.966	-3.377	1.00	96.31	O
ATOM	1449	N	SER A 189	10.922	1.709	-4.973	1.00	96.25	N
ATOM	1450	CA	SER A 189	11.867	2.109	-6.008	1.00	96.25	C
ATOM	1451	C	SER A 189	13.242	1.505	-5.762	1.00	96.25	C
ATOM	1452	CB	SER A 189	11.977	3.633	-6.078	1.00	96.25	C
ATOM	1453	O	SER A 189	13.617	1.239	-4.613	1.00	96.25	O
ATOM	1454	OG	SER A 189	12.484	4.156	-4.867	1.00	96.25	O
ATOM	1455	N	GLY A 190	13.844	1.152	-6.848	1.00	94.75	N
ATOM	1456	CA	GLY A 190	15.188	0.603	-6.742	1.00	94.75	C
ATOM	1457	C	GLY A 190	16.062	0.951	-7.926	1.00	94.75	C
ATOM	1458	O	GLY A 190	15.570	1.376	-8.977	1.00	94.75	O
ATOM	1459	N	HIS A 191	17.438	0.892	-7.652	1.00	93.81	N
ATOM	1460	CA	HIS A 191	18.422	1.152	-8.703	1.00	93.81	C
ATOM	1461	C	HIS A 191	19.547	0.125	-8.680	1.00	93.81	C
ATOM	1462	CB	HIS A 191	18.984	2.564	-8.562	1.00	93.81	C
ATOM	1463	O	HIS A 191	20.062	-0.202	-7.609	1.00	93.81	O
ATOM	1464	CG	HIS A 191	20.062	2.881	-9.570	1.00	93.81	C
ATOM	1465	CD2	HIS A 191	21.391	3.006	-9.430	1.00	93.81	C
ATOM	1466	ND1	HIS A 191	19.781	3.113	-10.898	1.00	93.81	N
ATOM	1467	CE1	HIS A 191	20.906	3.367	-11.539	1.00	93.81	C
ATOM	1468	NE2	HIS A 191	21.906	3.309	-10.672	1.00	93.81	N
ATOM	1469	N	LEU A 192	19.797	-0.389	-9.805	1.00	93.62	N
ATOM	1470	CA	LEU A 192	20.922	-1.317	-9.945	1.00	93.62	C
ATOM	1471	C	LEU A 192	22.047	-0.682	-10.742	1.00	93.62	C
ATOM	1472	CB	LEU A 192	20.453	-2.605	-10.633	1.00	93.62	C
ATOM	1473	O	LEU A 192	21.844	-0.206	-11.859	1.00	93.62	O
ATOM	1474	CG	LEU A 192	21.531	-3.666	-10.875	1.00	93.62	C
ATOM	1475	CD1	LEU A 192	21.984	-4.270	-9.555	1.00	93.62	C

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ATOM	1476	CD2 LEU A 192	21.016	-4.750	-11.812	1.00	93.62	C
ATOM	1477	N GLU A 193	23.234	-0.598	-10.125	1.00	92.94	N
ATOM	1478	CA GLU A 193	24.422	-0.118	-10.828	1.00	92.94	C
ATOM	1479	C GLU A 193	25.391	-1.259	-11.117	1.00	92.94	C
ATOM	1480	CB GLU A 193	25.125	0.978	-10.016	1.00	92.94	C
ATOM	1481	O GLU A 193	25.766	-2.012	-10.211	1.00	92.94	O
ATOM	1482	CG GLU A 193	26.125	1.793	-10.820	1.00	92.94	C
ATOM	1483	CD GLU A 193	26.578	3.061	-10.117	1.00	92.94	C
ATOM	1484	OE1 GLU A 193	27.375	3.824	-10.688	1.00	92.94	O
ATOM	1485	OE2 GLU A 193	26.109	3.291	-8.977	1.00	92.94	O
ATOM	1486	N GLU A 194	25.781	-1.370	-12.391	1.00	88.75	N
ATOM	1487	CA GLU A 194	26.719	-2.404	-12.797	1.00	88.75	C
ATOM	1488	C GLU A 194	27.969	-1.795	-13.430	1.00	88.75	C
ATOM	1489	CB GLU A 194	26.062	-3.379	-13.781	1.00	88.75	C
ATOM	1490	O GLU A 194	27.891	-0.787	-14.133	1.00	88.75	O
ATOM	1491	CG GLU A 194	24.922	-4.176	-13.172	1.00	88.75	C
ATOM	1492	CD GLU A 194	24.250	-5.109	-14.164	1.00	88.75	C
ATOM	1493	OE1 GLU A 194	23.594	-6.094	-13.734	1.00	88.75	O
ATOM	1494	OE2 GLU A 194	24.359	-4.855	-15.383	1.00	88.75	O
ATOM	1495	N TYR A 195	29.094	-2.389	-13.125	1.00	85.19	N
ATOM	1496	CA TYR A 195	30.344	-1.989	-13.758	1.00	85.19	C
ATOM	1497	C TYR A 195	30.953	-3.154	-14.523	1.00	85.19	C
ATOM	1498	CB TYR A 195	31.328	-1.466	-12.719	1.00	85.19	C
ATOM	1499	O TYR A 195	31.125	-4.246	-13.977	1.00	85.19	O
ATOM	1500	CG TYR A 195	30.875	-0.208	-12.023	1.00	85.19	C
ATOM	1501	CD1 TYR A 195	31.188	1.049	-12.531	1.00	85.19	C
ATOM	1502	CD2 TYR A 195	30.125	-0.274	-10.852	1.00	85.19	C
ATOM	1503	CE1 TYR A 195	30.766	2.211	-11.891	1.00	85.19	C
ATOM	1504	CE2 TYR A 195	29.703	0.881	-10.203	1.00	85.19	C
ATOM	1505	OH TYR A 195	29.609	3.264	-10.094	1.00	85.19	O
ATOM	1506	CZ TYR A 195	30.031	2.117	-10.727	1.00	85.19	C
ATOM	1507	N GLU A 196	31.016	-3.039	-15.773	1.00	79.12	N
ATOM	1508	CA GLU A 196	31.766	-4.066	-16.500	1.00	79.12	C
ATOM	1509	C GLU A 196	33.250	-3.951	-16.219	1.00	79.12	C
ATOM	1510	CB GLU A 196	31.484	-3.971	-18.000	1.00	79.12	C
ATOM	1511	O GLU A 196	33.812	-2.854	-16.266	1.00	79.12	O
ATOM	1512	CG GLU A 196	30.141	-4.539	-18.422	1.00	79.12	C
ATOM	1513	CD GLU A 196	29.984	-4.680	-19.922	1.00	79.12	C
ATOM	1514	OE1 GLU A 196	29.125	-5.469	-20.375	1.00	79.12	O
ATOM	1515	OE2 GLU A 196	30.734	-3.996	-20.656	1.00	79.12	O
TER								
ENDMDL								
MODEL 1								
ATOM	29	N ALA A 8	-61.531	-10.320	19.750	1.00	62.75	N
ATOM	30	CA ALA A 8	-60.156	-10.844	19.812	1.00	62.75	C
ATOM	31	C ALA A 8	-59.125	-9.719	19.938	1.00	62.75	C
ATOM	32	CB ALA A 8	-59.875	-11.695	18.578	1.00	62.75	C
ATOM	33	O ALA A 8	-59.219	-8.719	19.234	1.00	62.75	O
ATOM	34	N GLU A 9	-58.906	-9.266	21.188	1.00	71.00	N
ATOM	35	CA GLU A 9	-57.812	-8.398	21.609	1.00	71.00	C
ATOM	36	C GLU A 9	-56.562	-8.695	20.812	1.00	71.00	C
ATOM	37	CB GLU A 9	-57.562	-8.555	23.109	1.00	71.00	C
ATOM	38	O GLU A 9	-56.125	-9.844	20.734	1.00	71.00	O

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ATOM	39	CG	GLU	A	9	-56.688	-7.465	23.688	1.00	71.00	C
ATOM	40	CD	GLU	A	9	-56.438	-7.629	25.188	1.00	71.00	C
ATOM	41	OE1	GLU	A	9	-55.594	-6.887	25.750	1.00	71.00	O
ATOM	42	OE2	GLU	A	9	-57.094	-8.500	25.797	1.00	71.00	O
ATOM	43	N	VAL	A	10	-56.219	-8.086	19.688	1.00	68.19	N
ATOM	44	CA	VAL	A	10	-55.000	-8.078	18.891	1.00	68.19	C
ATOM	45	C	VAL	A	10	-53.875	-7.469	19.703	1.00	68.19	C
ATOM	46	CB	VAL	A	10	-55.188	-7.309	17.578	1.00	68.19	C
ATOM	47	O	VAL	A	10	-54.000	-6.383	20.266	1.00	68.19	O
ATOM	48	CG1	VAL	A	10	-53.906	-7.332	16.750	1.00	68.19	C
ATOM	49	CG2	VAL	A	10	-56.375	-7.898	16.766	1.00	68.19	C
ATOM	50	N	LYS	A	11	-53.000	-8.211	20.094	1.00	82.12	N
ATOM	51	CA	LYS	A	11	-51.750	-7.738	20.688	1.00	82.12	C
ATOM	52	C	LYS	A	11	-50.750	-7.293	19.625	1.00	82.12	C
ATOM	53	CB	LYS	A	11	-51.125	-8.836	21.562	1.00	82.12	C
ATOM	54	O	LYS	A	11	-50.688	-7.875	18.547	1.00	82.12	O
ATOM	55	CG	LYS	A	11	-51.906	-9.141	22.828	1.00	82.12	C
ATOM	56	CD	LYS	A	11	-51.188	-10.141	23.703	1.00	82.12	C
ATOM	57	CE	LYS	A	11	-52.000	-10.508	24.938	1.00	82.12	C
ATOM	58	NZ	LYS	A	11	-51.281	-11.461	25.828	1.00	82.12	N
ATOM	59	N	GLU	A	12	-50.250	-6.109	19.766	1.00	87.62	N
ATOM	60	CA	GLU	A	12	-49.281	-5.520	18.844	1.00	87.62	C
ATOM	61	C	GLU	A	12	-47.875	-5.465	19.484	1.00	87.62	C
ATOM	62	CB	GLU	A	12	-49.719	-4.113	18.438	1.00	87.62	C
ATOM	63	O	GLU	A	12	-47.719	-5.059	20.625	1.00	87.62	O
ATOM	64	CG	GLU	A	12	-50.938	-4.098	17.531	1.00	87.62	C
ATOM	65	CD	GLU	A	12	-51.250	-2.717	16.984	1.00	87.62	C
ATOM	66	OE1	GLU	A	12	-52.062	-2.615	16.016	1.00	87.62	O
ATOM	67	OE2	GLU	A	12	-50.719	-1.728	17.516	1.00	87.62	O
ATOM	68	N	VAL	A	13	-46.938	-6.023	18.844	1.00	88.50	N
ATOM	69	CA	VAL	A	13	-45.562	-5.988	19.250	1.00	88.50	C
ATOM	70	C	VAL	A	13	-44.688	-5.348	18.156	1.00	88.50	C
ATOM	71	CB	VAL	A	13	-45.031	-7.402	19.578	1.00	88.50	C
ATOM	72	O	VAL	A	13	-44.844	-5.699	16.984	1.00	88.50	O
ATOM	73	CG1	VAL	A	13	-43.531	-7.352	19.953	1.00	88.50	C
ATOM	74	CG2	VAL	A	13	-45.844	-8.039	20.703	1.00	88.50	C
ATOM	75	N	THR	A	14	-43.875	-4.344	18.578	1.00	90.12	N
ATOM	76	CA	THR	A	14	-42.938	-3.705	17.688	1.00	90.12	C
ATOM	77	C	THR	A	14	-41.500	-4.012	18.109	1.00	90.12	C
ATOM	78	CB	THR	A	14	-43.125	-2.180	17.625	1.00	90.12	C
ATOM	79	O	THR	A	14	-41.156	-3.855	19.281	1.00	90.12	O
ATOM	80	CG2	THR	A	14	-42.188	-1.527	16.625	1.00	90.12	C
ATOM	81	OG1	THR	A	14	-44.500	-1.902	17.250	1.00	90.12	O
ATOM	82	N	ILE	A	15	-40.719	-4.488	17.203	1.00	91.25	N
ATOM	83	CA	ILE	A	15	-39.281	-4.746	17.422	1.00	91.25	C
ATOM	84	C	ILE	A	15	-38.469	-3.791	16.562	1.00	91.25	C
ATOM	85	CB	ILE	A	15	-38.938	-6.211	17.094	1.00	91.25	C
ATOM	86	O	ILE	A	15	-38.656	-3.678	15.359	1.00	91.25	O
ATOM	87	CG1	ILE	A	15	-39.750	-7.172	17.953	1.00	91.25	C
ATOM	88	CG2	ILE	A	15	-37.438	-6.453	17.297	1.00	91.25	C
ATOM	89	CD1	ILE	A	15	-39.688	-8.625	17.516	1.00	91.25	C
ATOM	90	N	LYS	A	16	-37.531	-3.080	17.297	1.00	91.44	N
ATOM	91	CA	LYS	A	16	-36.625	-2.166	16.594	1.00	91.44	C

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ATOM	92	C	LYS A 16	-35.219	-2.729	16.516	1.00	91.44	C
ATOM	93	CB	LYS A 16	-36.625	-0.798	17.281	1.00	91.44	C
ATOM	94	O	LYS A 16	-34.656	-3.184	17.516	1.00	91.44	O
ATOM	95	CG	LYS A 16	-37.938	-0.053	17.203	1.00	91.44	C
ATOM	96	CD	LYS A 16	-37.844	1.332	17.828	1.00	91.44	C
ATOM	97	CE	LYS A 16	-39.156	2.068	17.781	1.00	91.44	C
ATOM	98	NZ	LYS A 16	-39.094	3.420	18.406	1.00	91.44	N
ATOM	99	N	GLU A 17	-34.719	-2.738	15.383	1.00	91.19	N
ATOM	100	CA	GLU A 17	-33.344	-3.201	15.141	1.00	91.19	C
ATOM	101	C	GLU A 17	-32.562	-2.166	14.367	1.00	91.19	C
ATOM	102	CB	GLU A 17	-33.375	-4.535	14.391	1.00	91.19	C
ATOM	103	O	GLU A 17	-33.000	-1.682	13.320	1.00	91.19	O
ATOM	104	CG	GLU A 17	-31.984	-5.172	14.250	1.00	91.19	C
ATOM	105	CD	GLU A 17	-32.000	-6.504	13.523	1.00	91.19	C
ATOM	106	OE1	GLU A 17	-31.062	-7.301	13.680	1.00	91.19	O
ATOM	107	OE2	GLU A 17	-33.000	-6.758	12.789	1.00	91.19	O
ATOM	108	N	ASP A 18	-31.391	-1.824	14.930	1.00	88.06	N
ATOM	109	CA	ASP A 18	-30.453	-0.924	14.250	1.00	88.06	C
ATOM	110	C	ASP A 18	-29.172	-1.648	13.867	1.00	88.06	C
ATOM	111	CB	ASP A 18	-30.141	0.283	15.141	1.00	88.06	C
ATOM	112	O	ASP A 18	-28.562	-2.326	14.703	1.00	88.06	O
ATOM	113	CG	ASP A 18	-31.359	1.144	15.422	1.00	88.06	C
ATOM	114	OD1	ASP A 18	-32.094	1.507	14.477	1.00	88.06	O
ATOM	115	OD2	ASP A 18	-31.594	1.464	16.609	1.00	88.06	O
ATOM	116	N	LYS A 19	-28.828	-1.554	12.594	1.00	89.69	N
ATOM	117	CA	LYS A 19	-27.594	-2.162	12.102	1.00	89.69	C
ATOM	118	C	LYS A 19	-26.703	-1.121	11.445	1.00	89.69	C
ATOM	119	CB	LYS A 19	-27.922	-3.285	11.109	1.00	89.69	C
ATOM	120	O	LYS A 19	-27.188	-0.158	10.844	1.00	89.69	O
ATOM	121	CG	LYS A 19	-28.656	-4.465	11.727	1.00	89.69	C
ATOM	122	CD	LYS A 19	-28.906	-5.562	10.703	1.00	89.69	C
ATOM	123	CE	LYS A 19	-29.672	-6.730	11.305	1.00	89.69	C
ATOM	124	NZ	LYS A 19	-29.953	-7.789	10.297	1.00	89.69	N
ATOM	125	N	THR A 20	-25.406	-1.246	11.672	1.00	91.62	N
ATOM	126	CA	THR A 20	-24.438	-0.402	10.984	1.00	91.62	C
ATOM	127	C	THR A 20	-23.516	-1.244	10.102	1.00	91.62	C
ATOM	128	CB	THR A 20	-23.609	0.417	11.977	1.00	91.62	C
ATOM	129	O	THR A 20	-22.891	-2.191	10.586	1.00	91.62	O
ATOM	130	CG2	THR A 20	-22.641	1.354	11.250	1.00	91.62	C
ATOM	131	OG1	THR A 20	-24.469	1.195	12.805	1.00	91.62	O
ATOM	132	N	LYS A 21	-23.500	-0.917	8.836	1.00	93.06	N
ATOM	133	CA	LYS A 21	-22.641	-1.594	7.867	1.00	93.06	C
ATOM	134	C	LYS A 21	-21.594	-0.640	7.301	1.00	93.06	C
ATOM	135	CB	LYS A 21	-23.469	-2.188	6.734	1.00	93.06	C
ATOM	136	O	LYS A 21	-21.844	0.556	7.148	1.00	93.06	O
ATOM	137	CG	LYS A 21	-24.375	-3.336	7.164	1.00	93.06	C
ATOM	138	CD	LYS A 21	-25.109	-3.947	5.977	1.00	93.06	C
ATOM	139	CE	LYS A 21	-26.031	-5.074	6.410	1.00	93.06	C
ATOM	140	NZ	LYS A 21	-26.781	-5.656	5.254	1.00	93.06	N
ATOM	141	N	VAL A 22	-20.422	-1.160	7.047	1.00	95.00	N
ATOM	142	CA	VAL A 22	-19.344	-0.365	6.469	1.00	95.00	C
ATOM	143	C	VAL A 22	-18.953	-0.929	5.105	1.00	95.00	C
ATOM	144	CB	VAL A 22	-18.109	-0.325	7.398	1.00	95.00	C

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ATOM	145	O	VAL A 22	-18.766	-2.141	4.957	1.00	95.00	O
ATOM	146	CG1	VAL A 22	-16.984	0.502	6.773	1.00	95.00	C
ATOM	147	CG2	VAL A 22	-18.484	0.236	8.766	1.00	95.00	C
ATOM	148	N	LYS A 23	-19.016	-0.042	4.098	1.00	95.94	N
ATOM	149	CA	LYS A 23	-18.484	-0.366	2.777	1.00	95.94	C
ATOM	150	C	LYS A 23	-17.203	0.408	2.496	1.00	95.94	C
ATOM	151	CB	LYS A 23	-19.531	-0.071	1.694	1.00	95.94	C
ATOM	152	O	LYS A 23	-17.172	1.637	2.596	1.00	95.94	O
ATOM	153	CG	LYS A 23	-19.141	-0.574	0.311	1.00	95.94	C
ATOM	154	CD	LYS A 23	-20.250	-0.357	-0.698	1.00	95.94	C
ATOM	155	CE	LYS A 23	-19.859	-0.835	-2.088	1.00	95.94	C
ATOM	156	NZ	LYS A 23	-20.953	-0.616	-3.082	1.00	95.94	N
ATOM	157	N	ILE A 24	-16.125	-0.312	2.211	1.00	96.06	N
ATOM	158	CA	ILE A 24	-14.867	0.374	1.986	1.00	96.06	C
ATOM	159	C	ILE A 24	-14.383	0.121	0.558	1.00	96.06	C
ATOM	160	CB	ILE A 24	-13.789	-0.079	2.998	1.00	96.06	C
ATOM	161	O	ILE A 24	-14.492	-0.998	0.050	1.00	96.06	O
ATOM	162	CG1	ILE A 24	-12.586	0.870	2.961	1.00	96.06	C
ATOM	163	CG2	ILE A 24	-13.359	-1.521	2.719	1.00	96.06	C
ATOM	164	CD1	ILE A 24	-11.727	0.829	4.215	1.00	96.06	C
ATOM	165	N	ASN A 25	-14.070	1.168	-0.122	1.00	96.94	N
ATOM	166	CA	ASN A 25	-13.430	1.141	-1.431	1.00	96.94	C
ATOM	167	C	ASN A 25	-11.977	1.606	-1.350	1.00	96.94	C
ATOM	168	CB	ASN A 25	-14.203	1.997	-2.432	1.00	96.94	C
ATOM	169	O	ASN A 25	-11.711	2.760	-1.008	1.00	96.94	O
ATOM	170	CG	ASN A 25	-15.625	1.515	-2.629	1.00	96.94	C
ATOM	171	ND2	ASN A 25	-16.594	2.391	-2.369	1.00	96.94	N
ATOM	172	OD1	ASN A 25	-15.859	0.365	-3.014	1.00	96.94	O
ATOM	173	N	ILE A 26	-11.023	0.672	-1.655	1.00	97.50	N
ATOM	174	CA	ILE A 26	-9.609	1.002	-1.523	1.00	97.50	C
ATOM	175	C	ILE A 26	-8.945	0.961	-2.896	1.00	97.50	C
ATOM	176	CB	ILE A 26	-8.898	0.039	-0.550	1.00	97.50	C
ATOM	177	O	ILE A 26	-9.047	-0.033	-3.617	1.00	97.50	O
ATOM	178	CG1	ILE A 26	-9.570	0.070	0.826	1.00	97.50	C
ATOM	179	CG2	ILE A 26	-7.410	0.392	-0.437	1.00	97.50	C
ATOM	180	CD1	ILE A 26	-9.055	-0.988	1.792	1.00	97.50	C
ATOM	181	N	THR A 27	-8.398	2.070	-3.260	1.00	97.81	N
ATOM	182	CA	THR A 27	-7.570	2.150	-4.457	1.00	97.81	C
ATOM	183	C	THR A 27	-6.090	2.203	-4.086	1.00	97.81	C
ATOM	184	CB	THR A 27	-7.934	3.381	-5.309	1.00	97.81	C
ATOM	185	O	THR A 27	-5.660	3.096	-3.350	1.00	97.81	O
ATOM	186	CG2	THR A 27	-7.102	3.430	-6.586	1.00	97.81	C
ATOM	187	OG1	THR A 27	-9.320	3.320	-5.656	1.00	97.81	O
ATOM	188	N	VAL A 28	-5.309	1.240	-4.586	1.00	97.94	N
ATOM	189	CA	VAL A 28	-3.887	1.161	-4.273	1.00	97.94	C
ATOM	190	C	VAL A 28	-3.062	1.480	-5.516	1.00	97.94	C
ATOM	191	CB	VAL A 28	-3.504	-0.232	-3.723	1.00	97.94	C
ATOM	192	O	VAL A 28	-3.186	0.805	-6.543	1.00	97.94	O
ATOM	193	CG1	VAL A 28	-2.023	-0.277	-3.350	1.00	97.94	C
ATOM	194	CG2	VAL A 28	-4.371	-0.586	-2.518	1.00	97.94	C
ATOM	195	N	ASN A 29	-2.281	2.520	-5.371	1.00	97.81	N
ATOM	196	CA	ASN A 29	-1.336	2.873	-6.422	1.00	97.81	C
ATOM	197	C	ASN A 29	0.099	2.545	-6.020	1.00	97.81	C

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ATOM	198	CB	ASN	A	29	-1.462	4.355	-6.781	1.00	97.81	C
ATOM	199	O	ASN	A	29	0.550	2.934	-4.941	1.00	97.81	O
ATOM	200	CG	ASN	A	29	-2.850	4.723	-7.266	1.00	97.81	C
ATOM	201	ND2	ASN	A	29	-3.439	5.742	-6.652	1.00	97.81	N
ATOM	202	OD1	ASN	A	29	-3.389	4.098	-8.180	1.00	97.81	O
ATOM	203	N	THR	A	30	0.759	1.826	-6.930	1.00	96.31	N
ATOM	204	CA	THR	A	30	2.133	1.463	-6.598	1.00	96.31	C
ATOM	205	C	THR	A	30	3.098	1.955	-7.672	1.00	96.31	C
ATOM	206	CB	THR	A	30	2.281	-0.061	-6.426	1.00	96.31	C
ATOM	207	O	THR	A	30	2.758	1.976	-8.859	1.00	96.31	O
ATOM	208	CG2	THR	A	30	1.420	-0.574	-5.277	1.00	96.31	C
ATOM	209	OG1	THR	A	30	1.879	-0.711	-7.641	1.00	96.31	O
ATOM	210	N	SER	A	31	4.191	2.441	-7.180	1.00	95.19	N
ATOM	211	CA	SER	A	31	5.289	2.812	-8.062	1.00	95.19	C
ATOM	212	C	SER	A	31	6.633	2.387	-7.488	1.00	95.19	C
ATOM	213	CB	SER	A	31	5.285	4.320	-8.320	1.00	95.19	C
ATOM	214	O	SER	A	31	6.773	2.232	-6.273	1.00	95.19	O
ATOM	215	OG	SER	A	31	5.477	5.035	-7.113	1.00	95.19	O
ATOM	216	N	ALA	A	32	7.555	2.074	-8.383	1.00	94.56	N
ATOM	217	CA	ALA	A	32	8.859	1.615	-7.914	1.00	94.56	C
ATOM	218	C	ALA	A	32	9.977	2.104	-8.836	1.00	94.56	C
ATOM	219	CB	ALA	A	32	8.883	0.092	-7.816	1.00	94.56	C
ATOM	220	O	ALA	A	32	9.781	2.230	-10.047	1.00	94.56	O
ATOM	221	N	SER	A	33	11.023	2.463	-8.141	1.00	94.94	N
ATOM	222	CA	SER	A	33	12.219	2.840	-8.891	1.00	94.94	C
ATOM	223	C	SER	A	33	13.484	2.320	-8.211	1.00	94.94	C
ATOM	224	CB	SER	A	33	12.297	4.359	-9.039	1.00	94.94	C
ATOM	225	O	SER	A	33	13.477	2.023	-7.020	1.00	94.94	O
ATOM	226	OG	SER	A	33	12.422	4.984	-7.773	1.00	94.94	O
ATOM	227	N	ALA	A	34	14.484	2.070	-9.008	1.00	94.25	N
ATOM	228	CA	ALA	A	34	15.773	1.623	-8.484	1.00	94.25	C
ATOM	229	C	ALA	A	34	16.922	2.291	-9.227	1.00	94.25	C
ATOM	230	CB	ALA	A	34	15.891	0.104	-8.586	1.00	94.25	C
ATOM	231	O	ALA	A	34	16.797	2.641	-10.398	1.00	94.25	O
ATOM	232	N	SER	A	35	17.984	2.506	-8.398	1.00	94.25	N
ATOM	233	CA	SER	A	35	19.219	3.008	-9.008	1.00	94.25	C
ATOM	234	C	SER	A	35	20.438	2.285	-8.461	1.00	94.25	C
ATOM	235	CB	SER	A	35	19.359	4.512	-8.773	1.00	94.25	C
ATOM	236	O	SER	A	35	20.422	1.770	-7.344	1.00	94.25	O
ATOM	237	OG	SER	A	35	19.484	4.797	-7.391	1.00	94.25	O
ATOM	238	N	TRP	A	36	21.422	2.070	-9.328	1.00	92.25	N
ATOM	239	CA	TRP	A	36	22.641	1.434	-8.844	1.00	92.25	C
ATOM	240	C	TRP	A	36	23.875	2.146	-9.391	1.00	92.25	C
ATOM	241	CB	TRP	A	36	22.672	-0.044	-9.250	1.00	92.25	C
ATOM	242	O	TRP	A	36	23.844	2.699	-10.492	1.00	92.25	O
ATOM	243	CG	TRP	A	36	22.750	-0.272	-10.727	1.00	92.25	C
ATOM	244	CD1	TRP	A	36	23.875	-0.469	-11.477	1.00	92.25	C
ATOM	245	CD2	TRP	A	36	21.641	-0.322	-11.641	1.00	92.25	C
ATOM	246	CE2	TRP	A	36	22.172	-0.554	-12.930	1.00	92.25	C
ATOM	247	CE3	TRP	A	36	20.250	-0.195	-11.492	1.00	92.25	C
ATOM	248	NE1	TRP	A	36	23.531	-0.639	-12.797	1.00	92.25	N
ATOM	249	CH2	TRP	A	36	20.016	-0.532	-13.891	1.00	92.25	C
ATOM	250	CZ2	TRP	A	36	21.375	-0.661	-14.062	1.00	92.25	C

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ATOM	251	CZ3 TRP A 36	19.453	-0.302	-12.625	1.00	92.25	C
ATOM	252	N GLU A 37	24.875	2.227	-8.508	1.00	92.00	N
ATOM	253	CA GLU A 37	26.125	2.893	-8.828	1.00	92.00	C
ATOM	254	C GLU A 37	27.328	1.996	-8.523	1.00	92.00	C
ATOM	255	CB GLU A 37	26.250	4.211	-8.062	1.00	92.00	C
ATOM	256	O GLU A 37	27.375	1.363	-7.465	1.00	92.00	O
ATOM	257	CG GLU A 37	27.422	5.078	-8.508	1.00	92.00	C
ATOM	258	CD GLU A 37	27.453	6.430	-7.820	1.00	92.00	C
ATOM	259	OE1 GLU A 37	28.500	7.117	-7.891	1.00	92.00	O
ATOM	260	OE2 GLU A 37	26.438	6.809	-7.203	1.00	92.00	O
ATOM	261	N GLU A 38	28.156	1.857	-9.484	1.00	88.94	N
ATOM	262	CA GLU A 38	29.438	1.170	-9.305	1.00	88.94	C
ATOM	263	C GLU A 38	30.609	2.146	-9.383	1.00	88.94	C
ATOM	264	CB GLU A 38	29.594	0.057	-10.336	1.00	88.94	C
ATOM	265	O GLU A 38	30.734	2.887	-10.359	1.00	88.94	O
ATOM	266	CG GLU A 38	28.578	-1.061	-10.211	1.00	88.94	C
ATOM	267	CD GLU A 38	28.734	-2.145	-11.266	1.00	88.94	C
ATOM	268	OE1 GLU A 38	28.250	-3.275	-11.055	1.00	88.94	O
ATOM	269	OE2 GLU A 38	29.359	-1.860	-12.312	1.00	88.94	O
ATOM	270	N LYS A 39	31.438	2.088	-8.297	1.00	89.25	N
ATOM	271	CA LYS A 39	32.562	3.008	-8.250	1.00	89.25	C
ATOM	272	C LYS A 39	33.906	2.250	-8.273	1.00	89.25	C
ATOM	273	CB LYS A 39	32.500	3.893	-7.008	1.00	89.25	C
ATOM	274	O LYS A 39	34.031	1.184	-7.668	1.00	89.25	O
ATOM	275	CG LYS A 39	31.328	4.859	-7.004	1.00	89.25	C
ATOM	276	CD LYS A 39	31.328	5.746	-5.766	1.00	89.25	C
ATOM	277	CE LYS A 39	30.125	6.680	-5.738	1.00	89.25	C
ATOM	278	NZ LYS A 39	30.125	7.551	-4.527	1.00	89.25	N
ATOM	279	N SER A 40	34.812	2.760	-9.148	1.00	86.56	N
ATOM	280	CA SER A 40	36.219	2.436	-9.094	1.00	86.56	C
ATOM	281	C SER A 40	37.062	3.695	-8.953	1.00	86.56	C
ATOM	282	CB SER A 40	36.656	1.664	-10.344	1.00	86.56	C
ATOM	283	O SER A 40	36.562	4.812	-9.023	1.00	86.56	O
ATOM	284	OG SER A 40	36.562	2.480	-11.492	1.00	86.56	O
ATOM	285	N PRO A 41	38.375	3.566	-8.484	1.00	85.56	N
ATOM	286	CA PRO A 41	39.156	4.770	-8.219	1.00	85.56	C
ATOM	287	C PRO A 41	39.062	5.809	-9.328	1.00	85.56	C
ATOM	288	CB PRO A 41	40.594	4.234	-8.117	1.00	85.56	C
ATOM	289	O PRO A 41	39.000	7.012	-9.055	1.00	85.56	O
ATOM	290	CG PRO A 41	40.438	2.807	-7.695	1.00	85.56	C
ATOM	291	CD PRO A 41	39.156	2.279	-8.273	1.00	85.56	C
ATOM	292	N THR A 42	38.969	5.375	-10.547	1.00	86.25	N
ATOM	293	CA THR A 42	39.000	6.371	-11.617	1.00	86.25	C
ATOM	294	C THR A 42	37.719	6.367	-12.406	1.00	86.25	C
ATOM	295	CB THR A 42	40.188	6.125	-12.570	1.00	86.25	C
ATOM	296	O THR A 42	37.500	7.211	-13.281	1.00	86.25	O
ATOM	297	CG2 THR A 42	41.531	6.289	-11.844	1.00	86.25	C
ATOM	298	OG1 THR A 42	40.094	4.793	-13.094	1.00	86.25	O
ATOM	299	N THR A 43	36.781	5.461	-12.016	1.00	88.75	N
ATOM	300	CA THR A 43	35.594	5.301	-12.852	1.00	88.75	C
ATOM	301	C THR A 43	34.344	5.168	-12.008	1.00	88.75	C
ATOM	302	CB THR A 43	35.719	4.078	-13.781	1.00	88.75	C
ATOM	303	O THR A 43	34.344	4.492	-10.969	1.00	88.75	O

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ATOM	304	CG2 THR A 43	34.562	3.996	-14.758	1.00	88.75	C
ATOM	305	OG1 THR A 43	36.938	4.172	-14.516	1.00	88.75	O
ATOM	306	N THR A 44	33.188	5.859	-12.453	1.00	90.81	N
ATOM	307	CA THR A 44	31.859	5.688	-11.867	1.00	90.81	C
ATOM	308	C THR A 44	30.828	5.328	-12.938	1.00	90.81	C
ATOM	309	CB THR A 44	31.406	6.961	-11.125	1.00	90.81	C
ATOM	310	O THR A 44	30.797	5.953	-14.000	1.00	90.81	O
ATOM	311	CG2 THR A 44	30.109	6.727	-10.367	1.00	90.81	C
ATOM	312	OG1 THR A 44	32.406	7.352	-10.195	1.00	90.81	O
ATOM	313	N SER A 45	30.078	4.328	-12.539	1.00	90.38	N
ATOM	314	CA SER A 45	28.984	3.932	-13.422	1.00	90.38	C
ATOM	315	C SER A 45	27.641	4.023	-12.711	1.00	90.38	C
ATOM	316	CB SER A 45	29.203	2.508	-13.938	1.00	90.38	C
ATOM	317	O SER A 45	27.500	3.527	-11.586	1.00	90.38	O
ATOM	318	OG SER A 45	30.375	2.434	-14.727	1.00	90.38	O
ATOM	319	N SER A 46	26.703	4.688	-13.344	1.00	93.75	N
ATOM	320	CA SER A 46	25.391	4.828	-12.727	1.00	93.75	C
ATOM	321	C SER A 46	24.281	4.402	-13.680	1.00	93.75	C
ATOM	322	CB SER A 46	25.172	6.273	-12.281	1.00	93.75	C
ATOM	323	O SER A 46	24.422	4.535	-14.898	1.00	93.75	O
ATOM	324	OG SER A 46	25.250	7.160	-13.383	1.00	93.75	O
ATOM	325	N SER A 47	23.250	3.807	-13.047	1.00	94.50	N
ATOM	326	CA SER A 47	22.062	3.396	-13.789	1.00	94.50	C
ATOM	327	C SER A 47	20.797	3.588	-12.953	1.00	94.50	C
ATOM	328	CB SER A 47	22.188	1.936	-14.227	1.00	94.50	C
ATOM	329	O SER A 47	20.859	3.590	-11.727	1.00	94.50	O
ATOM	330	OG SER A 47	23.344	1.736	-15.008	1.00	94.50	O
ATOM	331	N SER A 48	19.719	3.793	-13.719	1.00	93.50	N
ATOM	332	CA SER A 48	18.422	3.895	-13.039	1.00	93.50	C
ATOM	333	C SER A 48	17.344	3.119	-13.789	1.00	93.50	C
ATOM	334	CB SER A 48	18.016	5.359	-12.898	1.00	93.50	C
ATOM	335	O SER A 48	17.453	2.904	-15.000	1.00	93.50	O
ATOM	336	OG SER A 48	17.797	5.941	-14.172	1.00	93.50	O
ATOM	337	N LEU A 49	16.344	2.658	-13.008	1.00	93.56	N
ATOM	338	CA LEU A 49	15.258	1.870	-13.562	1.00	93.56	C
ATOM	339	C LEU A 49	13.930	2.262	-12.922	1.00	93.56	C
ATOM	340	CB LEU A 49	15.516	0.375	-13.359	1.00	93.56	C
ATOM	341	O LEU A 49	13.812	2.303	-11.695	1.00	93.56	O
ATOM	342	CG LEU A 49	14.422	-0.575	-13.852	1.00	93.56	C
ATOM	343	CD1 LEU A 49	14.359	-0.564	-15.375	1.00	93.56	C
ATOM	344	CD2 LEU A 49	14.664	-1.987	-13.328	1.00	93.56	C
ATOM	345	N GLU A 50	12.977	2.625	-13.805	1.00	92.75	N
ATOM	346	CA GLU A 50	11.609	2.826	-13.344	1.00	92.75	C
ATOM	347	C GLU A 50	10.734	1.617	-13.664	1.00	92.75	C
ATOM	348	CB GLU A 50	11.008	4.090	-13.969	1.00	92.75	C
ATOM	349	O GLU A 50	10.742	1.119	-14.789	1.00	92.75	O
ATOM	350	CG GLU A 50	11.734	5.371	-13.578	1.00	92.75	C
ATOM	351	CD GLU A 50	11.484	5.785	-12.133	1.00	92.75	C
ATOM	352	OE1 GLU A 50	12.391	6.383	-11.516	1.00	92.75	O
ATOM	353	OE2 GLU A 50	10.383	5.508	-11.625	1.00	92.75	O
ATOM	354	N LEU A 51	10.055	1.165	-12.625	1.00	91.12	N
ATOM	355	CA LEU A 51	9.156	0.035	-12.844	1.00	91.12	C
ATOM	356	C LEU A 51	7.746	0.515	-13.164	1.00	91.12	C

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ATOM	357	CB	LEU A 51	9.133	-0.877	-11.617	1.00	91.12	C
ATOM	358	O	LEU A 51	7.355	1.618	-12.773	1.00	91.12	O
ATOM	359	CG	LEU A 51	10.469	-1.482	-11.195	1.00	91.12	C
ATOM	360	CD1	LEU A 51	10.320	-2.221	-9.867	1.00	91.12	C
ATOM	361	CD2	LEU A 51	11.000	-2.418	-12.273	1.00	91.12	C
ATOM	362	N	PRO A 52	7.055	-0.239	-13.977	1.00	87.12	N
ATOM	363	CA	PRO A 52	5.684	0.165	-14.305	1.00	87.12	C
ATOM	364	C	PRO A 52	4.812	0.354	-13.062	1.00	87.12	C
ATOM	365	CB	PRO A 52	5.172	-0.996	-15.164	1.00	87.12	C
ATOM	366	O	PRO A 52	4.898	-0.430	-12.117	1.00	87.12	O
ATOM	367	CG	PRO A 52	6.406	-1.707	-15.617	1.00	87.12	C
ATOM	368	CD	PRO A 52	7.488	-1.483	-14.602	1.00	87.12	C
ATOM	369	N	SER A 53	4.039	1.446	-13.133	1.00	91.88	N
ATOM	370	CA	SER A 53	3.084	1.679	-12.055	1.00	91.88	C
ATOM	371	C	SER A 53	1.867	0.771	-12.188	1.00	91.88	C
ATOM	372	CB	SER A 53	2.641	3.143	-12.039	1.00	91.88	C
ATOM	373	O	SER A 53	1.504	0.371	-13.297	1.00	91.88	O
ATOM	374	OG	SER A 53	2.039	3.498	-13.273	1.00	91.88	O
ATOM	375	N	LYS A 54	1.271	0.482	-11.031	1.00	94.38	N
ATOM	376	CA	LYS A 54	0.076	-0.358	-11.016	1.00	94.38	C
ATOM	377	C	LYS A 54	-1.003	0.231	-10.117	1.00	94.38	C
ATOM	378	CB	LYS A 54	0.422	-1.777	-10.562	1.00	94.38	C
ATOM	379	O	LYS A 54	-0.695	0.918	-9.141	1.00	94.38	O
ATOM	380	CG	LYS A 54	1.358	-2.518	-11.508	1.00	94.38	C
ATOM	381	CD	LYS A 54	1.408	-4.008	-11.195	1.00	94.38	C
ATOM	382	CE	LYS A 54	2.311	-4.754	-12.164	1.00	94.38	C
ATOM	383	NZ	LYS A 54	2.268	-6.230	-11.938	1.00	94.38	N
ATOM	384	N	THR A 55	-2.201	-0.002	-10.594	1.00	96.69	N
ATOM	385	CA	THR A 55	-3.352	0.414	-9.797	1.00	96.69	C
ATOM	386	C	THR A 55	-4.312	-0.751	-9.586	1.00	96.69	C
ATOM	387	CB	THR A 55	-4.098	1.585	-10.461	1.00	96.69	C
ATOM	388	O	THR A 55	-4.645	-1.470	-10.531	1.00	96.69	O
ATOM	389	CG2	THR A 55	-5.305	2.010	-9.633	1.00	96.69	C
ATOM	390	OG1	THR A 55	-3.207	2.699	-10.594	1.00	96.69	O
ATOM	391	N	LYS A 56	-4.672	-0.939	-8.297	1.00	97.12	N
ATOM	392	CA	LYS A 56	-5.668	-1.951	-7.957	1.00	97.12	C
ATOM	393	C	LYS A 56	-6.754	-1.370	-7.059	1.00	97.12	C
ATOM	394	CB	LYS A 56	-5.004	-3.146	-7.270	1.00	97.12	C
ATOM	395	O	LYS A 56	-6.480	-0.517	-6.211	1.00	97.12	O
ATOM	396	CG	LYS A 56	-4.125	-3.980	-8.195	1.00	97.12	C
ATOM	397	CD	LYS A 56	-3.715	-5.293	-7.535	1.00	97.12	C
ATOM	398	CE	LYS A 56	-2.912	-6.168	-8.492	1.00	97.12	C
ATOM	399	NZ	LYS A 56	-2.631	-7.512	-7.906	1.00	97.12	N
ATOM	400	N	THR A 57	-7.934	-1.798	-7.355	1.00	97.31	N
ATOM	401	CA	THR A 57	-9.062	-1.329	-6.559	1.00	97.31	C
ATOM	402	C	THR A 57	-9.758	-2.496	-5.863	1.00	97.31	C
ATOM	403	CB	THR A 57	-10.078	-0.566	-7.426	1.00	97.31	C
ATOM	404	O	THR A 57	-9.875	-3.582	-6.438	1.00	97.31	O
ATOM	405	CG2	THR A 57	-11.180	0.044	-6.570	1.00	97.31	C
ATOM	406	OG1	THR A 57	-9.406	0.482	-8.133	1.00	97.31	O
ATOM	407	N	PHE A 58	-10.125	-2.248	-4.582	1.00	96.56	N
ATOM	408	CA	PHE A 58	-10.805	-3.262	-3.781	1.00	96.56	C
ATOM	409	C	PHE A 58	-12.062	-2.697	-3.141	1.00	96.56	C

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ATOM	410	CB	PHE	A	58	-9.867	-3.807	-2.699	1.00	96.56	C
ATOM	411	O	PHE	A	58	-12.086	-1.539	-2.719	1.00	96.56	O
ATOM	412	CG	PHE	A	58	-8.555	-4.324	-3.234	1.00	96.56	C
ATOM	413	CD1	PHE	A	58	-8.422	-5.656	-3.609	1.00	96.56	C
ATOM	414	CD2	PHE	A	58	-7.461	-3.480	-3.361	1.00	96.56	C
ATOM	415	CE1	PHE	A	58	-7.211	-6.137	-4.105	1.00	96.56	C
ATOM	416	CE2	PHE	A	58	-6.250	-3.955	-3.855	1.00	96.56	C
ATOM	417	CZ	PHE	A	58	-6.125	-5.285	-4.227	1.00	96.56	C
ATOM	418	N	GLU	A	59	-13.039	-3.559	-3.254	1.00	96.75	N
ATOM	419	CA	GLU	A	59	-14.281	-3.221	-2.568	1.00	96.75	C
ATOM	420	C	GLU	A	59	-14.680	-4.309	-1.574	1.00	96.75	C
ATOM	421	CB	GLU	A	59	-15.414	-2.998	-3.580	1.00	96.75	C
ATOM	422	O	GLU	A	59	-14.680	-5.492	-1.912	1.00	96.75	O
ATOM	423	CG	GLU	A	59	-16.719	-2.535	-2.951	1.00	96.75	C
ATOM	424	CD	GLU	A	59	-17.812	-2.283	-3.971	1.00	96.75	C
ATOM	425	OE1	GLU	A	59	-18.969	-2.699	-3.732	1.00	96.75	O
ATOM	426	OE2	GLU	A	59	-17.516	-1.665	-5.016	1.00	96.75	O
ATOM	427	N	LYS	A	60	-14.984	-3.764	-0.354	1.00	96.12	N
ATOM	428	CA	LYS	A	60	-15.391	-4.750	0.645	1.00	96.12	C
ATOM	429	C	LYS	A	60	-16.438	-4.176	1.592	1.00	96.12	C
ATOM	430	CB	LYS	A	60	-14.172	-5.234	1.440	1.00	96.12	C
ATOM	431	O	LYS	A	60	-16.375	-3.004	1.966	1.00	96.12	O
ATOM	432	CG	LYS	A	60	-14.461	-6.418	2.352	1.00	96.12	C
ATOM	433	CD	LYS	A	60	-14.664	-7.699	1.553	1.00	96.12	C
ATOM	434	CE	LYS	A	60	-14.695	-8.922	2.457	1.00	96.12	C
ATOM	435	NZ	LYS	A	60	-14.898	-10.180	1.679	1.00	96.12	N
ATOM	436	N	GLU	A	61	-17.422	-5.023	1.912	1.00	95.88	N
ATOM	437	CA	GLU	A	61	-18.438	-4.684	2.912	1.00	95.88	C
ATOM	438	C	GLU	A	61	-18.250	-5.504	4.184	1.00	95.88	C
ATOM	439	CB	GLU	A	61	-19.844	-4.902	2.350	1.00	95.88	C
ATOM	440	O	GLU	A	61	-17.984	-6.707	4.121	1.00	95.88	O
ATOM	441	CG	GLU	A	61	-20.953	-4.453	3.287	1.00	95.88	C
ATOM	442	CD	GLU	A	61	-22.344	-4.602	2.686	1.00	95.88	C
ATOM	443	OE1	GLU	A	61	-23.328	-4.668	3.449	1.00	95.88	O
ATOM	444	OE2	GLU	A	61	-22.438	-4.648	1.438	1.00	95.88	O
ATOM	445	N	PHE	A	62	-18.391	-4.777	5.391	1.00	94.00	N
ATOM	446	CA	PHE	A	62	-18.234	-5.543	6.621	1.00	94.00	C
ATOM	447	C	PHE	A	62	-18.922	-4.836	7.785	1.00	94.00	C
ATOM	448	CB	PHE	A	62	-16.766	-5.770	6.941	1.00	94.00	C
ATOM	449	O	PHE	A	62	-19.359	-3.688	7.656	1.00	94.00	O
ATOM	450	CG	PHE	A	62	-15.969	-4.496	7.082	1.00	94.00	C
ATOM	451	CD1	PHE	A	62	-15.484	-3.836	5.957	1.00	94.00	C
ATOM	452	CD2	PHE	A	62	-15.703	-3.963	8.336	1.00	94.00	C
ATOM	453	CE1	PHE	A	62	-14.750	-2.658	6.082	1.00	94.00	C
ATOM	454	CE2	PHE	A	62	-14.977	-2.785	8.469	1.00	94.00	C
ATOM	455	CZ	PHE	A	62	-14.500	-2.135	7.340	1.00	94.00	C
ATOM	456	N	GLU	A	63	-19.109	-5.527	8.922	1.00	93.25	N
ATOM	457	CA	GLU	A	63	-19.750	-4.973	10.109	1.00	93.25	C
ATOM	458	C	GLU	A	63	-18.750	-4.262	11.000	1.00	93.25	C
ATOM	459	CB	GLU	A	63	-20.469	-6.074	10.891	1.00	93.25	C
ATOM	460	O	GLU	A	63	-17.547	-4.574	10.969	1.00	93.25	O
ATOM	461	CG	GLU	A	63	-21.594	-6.746	10.125	1.00	93.25	C
ATOM	462	CD	GLU	A	63	-22.422	-7.703	10.977	1.00	93.25	C

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ATOM	463	OE1 GLU A 63	-23.594	-7.980	10.625	1.00	93.25	O
ATOM	464	OE2 GLU A 63	-21.891	-8.172	12.008	1.00	93.25	O
ATOM	465	N VAL A 64	-19.281	-3.312	11.750	1.00	92.75	N
ATOM	466	CA VAL A 64	-18.453	-2.613	12.719	1.00	92.75	C
ATOM	467	C VAL A 64	-17.875	-3.611	13.719	1.00	92.75	C
ATOM	468	CB VAL A 64	-19.250	-1.521	13.469	1.00	92.75	C
ATOM	469	O VAL A 64	-18.578	-4.477	14.234	1.00	92.75	O
ATOM	470	CG1 VAL A 64	-18.406	-0.899	14.578	1.00	92.75	C
ATOM	471	CG2 VAL A 64	-19.734	-0.448	12.492	1.00	92.75	C
ATOM	472	N GLY A 65	-16.500	-3.584	13.898	1.00	91.81	N
ATOM	473	CA GLY A 65	-15.820	-4.480	14.812	1.00	91.81	C
ATOM	474	C GLY A 65	-15.047	-5.578	14.102	1.00	91.81	C
ATOM	475	O GLY A 65	-14.180	-6.223	14.703	1.00	91.81	O
ATOM	476	N GLU A 66	-15.344	-5.754	12.805	1.00	95.12	N
ATOM	477	CA GLU A 66	-14.648	-6.762	12.008	1.00	95.12	C
ATOM	478	C GLU A 66	-13.352	-6.211	11.430	1.00	95.12	C
ATOM	479	CB GLU A 66	-15.555	-7.273	10.883	1.00	95.12	C
ATOM	480	O GLU A 66	-13.227	-5.004	11.211	1.00	95.12	O
ATOM	481	CG GLU A 66	-16.750	-8.078	11.375	1.00	95.12	C
ATOM	482	CD GLU A 66	-17.531	-8.750	10.250	1.00	95.12	C
ATOM	483	OE1 GLU A 66	-18.109	-9.836	10.477	1.00	95.12	O
ATOM	484	OE2 GLU A 66	-17.547	-8.180	9.133	1.00	95.12	O
ATOM	485	N THR A 67	-12.352	-7.094	11.289	1.00	95.69	N
ATOM	486	CA THR A 67	-11.086	-6.746	10.656	1.00	95.69	C
ATOM	487	C THR A 67	-11.031	-7.289	9.227	1.00	95.69	C
ATOM	488	CB THR A 67	-9.891	-7.289	11.461	1.00	95.69	C
ATOM	489	O THR A 67	-11.312	-8.469	8.992	1.00	95.69	O
ATOM	490	CG2 THR A 67	-8.562	-6.918	10.805	1.00	95.69	C
ATOM	491	OG1 THR A 67	-9.922	-6.742	12.781	1.00	95.69	O
ATOM	492	N VAL A 68	-10.695	-6.438	8.336	1.00	94.81	N
ATOM	493	CA VAL A 68	-10.539	-6.836	6.941	1.00	94.81	C
ATOM	494	C VAL A 68	-9.062	-6.781	6.547	1.00	94.81	C
ATOM	495	CB VAL A 68	-11.375	-5.938	6.000	1.00	94.81	C
ATOM	496	O VAL A 68	-8.383	-5.785	6.797	1.00	94.81	O
ATOM	497	CG1 VAL A 68	-11.133	-6.316	4.539	1.00	94.81	C
ATOM	498	CG2 VAL A 68	-12.859	-6.039	6.344	1.00	94.81	C
ATOM	499	N GLU A 69	-8.625	-7.891	5.918	1.00	97.12	N
ATOM	500	CA GLU A 69	-7.238	-7.984	5.453	1.00	97.12	C
ATOM	501	C GLU A 69	-7.176	-8.148	3.939	1.00	97.12	C
ATOM	502	CB GLU A 69	-6.520	-9.148	6.141	1.00	97.12	C
ATOM	503	O GLU A 69	-7.871	-8.992	3.371	1.00	97.12	O
ATOM	504	CG GLU A 69	-6.375	-8.977	7.648	1.00	97.12	C
ATOM	505	CD GLU A 69	-5.590	-10.102	8.305	1.00	97.12	C
ATOM	506	OE1 GLU A 69	-4.902	-9.844	9.320	1.00	97.12	O
ATOM	507	OE2 GLU A 69	-5.660	-11.242	7.797	1.00	97.12	O
ATOM	508	N ILE A 70	-6.348	-7.305	3.363	1.00	95.56	N
ATOM	509	CA ILE A 70	-6.102	-7.391	1.928	1.00	95.56	C
ATOM	510	C ILE A 70	-4.617	-7.645	1.673	1.00	95.56	C
ATOM	511	CB ILE A 70	-6.559	-6.109	1.196	1.00	95.56	C
ATOM	512	O ILE A 70	-3.762	-6.918	2.178	1.00	95.56	O
ATOM	513	CG1 ILE A 70	-8.047	-5.840	1.469	1.00	95.56	C
ATOM	514	CG2 ILE A 70	-6.289	-6.219	-0.307	1.00	95.56	C
ATOM	515	CD1 ILE A 70	-8.500	-4.434	1.100	1.00	95.56	C

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ATOM	516	N	GLU A 71	-4.430	-8.750	0.979	1.00	96.00	N
ATOM	517	CA	GLU A 71	-3.053	-9.094	0.634	1.00	96.00	C
ATOM	518	C	GLU A 71	-2.826	-9.016	-0.874	1.00	96.00	C
ATOM	519	CB	GLU A 71	-2.701	-10.492	1.146	1.00	96.00	C
ATOM	520	O	GLU A 71	-3.598	-9.578	-1.652	1.00	96.00	O
ATOM	521	CG	GLU A 71	-1.228	-10.844	1.013	1.00	96.00	C
ATOM	522	CD	GLU A 71	-0.882	-12.211	1.591	1.00	96.00	C
ATOM	523	OE1	GLU A 71	0.291	-12.633	1.485	1.00	96.00	O
ATOM	524	OE2	GLU A 71	-1.792	-12.859	2.152	1.00	96.00	O
ATOM	525	N	ILE A 72	-1.719	-8.281	-1.229	1.00	95.12	N
ATOM	526	CA	ILE A 72	-1.325	-8.172	-2.629	1.00	95.12	C
ATOM	527	C	ILE A 72	0.090	-8.719	-2.811	1.00	95.12	C
ATOM	528	CB	ILE A 72	-1.407	-6.715	-3.133	1.00	95.12	C
ATOM	529	O	ILE A 72	1.039	-8.211	-2.211	1.00	95.12	O
ATOM	530	CG1	ILE A 72	-2.809	-6.145	-2.891	1.00	95.12	C
ATOM	531	CG2	ILE A 72	-1.030	-6.633	-4.613	1.00	95.12	C
ATOM	532	CD1	ILE A 72	-2.898	-4.633	-3.055	1.00	95.12	C
ATOM	533	N	LYS A 73	0.162	-9.844	-3.531	1.00	95.19	N
ATOM	534	CA	LYS A 73	1.460	-10.406	-3.885	1.00	95.19	C
ATOM	535	C	LYS A 73	1.705	-10.320	-5.391	1.00	95.19	C
ATOM	536	CB	LYS A 73	1.559	-11.859	-3.422	1.00	95.19	C
ATOM	537	O	LYS A 73	0.907	-10.820	-6.184	1.00	95.19	O
ATOM	538	CG	LYS A 73	1.548	-12.031	-1.909	1.00	95.19	C
ATOM	539	CD	LYS A 73	1.713	-13.492	-1.509	1.00	95.19	C
ATOM	540	CE	LYS A 73	1.662	-13.664	0.003	1.00	95.19	C
ATOM	541	NZ	LYS A 73	1.796	-15.102	0.399	1.00	95.19	N
ATOM	542	N	GLU A 74	2.760	-9.703	-5.738	1.00	93.06	N
ATOM	543	CA	GLU A 74	3.062	-9.547	-7.156	1.00	93.06	C
ATOM	544	C	GLU A 74	4.500	-9.953	-7.465	1.00	93.06	C
ATOM	545	CB	GLU A 74	2.814	-8.109	-7.609	1.00	93.06	C
ATOM	546	O	GLU A 74	5.422	-9.602	-6.723	1.00	93.06	O
ATOM	547	CG	GLU A 74	1.357	-7.676	-7.516	1.00	93.06	C
ATOM	548	CD	GLU A 74	1.129	-6.238	-7.949	1.00	93.06	C
ATOM	549	OE1	GLU A 74	0.047	-5.934	-8.500	1.00	93.06	O
ATOM	550	OE2	GLU A 74	2.041	-5.406	-7.738	1.00	93.06	O
ATOM	551	N	LYS A 75	4.574	-10.805	-8.336	1.00	94.44	N
ATOM	552	CA	LYS A 75	5.871	-11.172	-8.883	1.00	94.44	C
ATOM	553	C	LYS A 75	5.926	-10.914	-10.391	1.00	94.44	C
ATOM	554	CB	LYS A 75	6.180	-12.641	-8.594	1.00	94.44	C
ATOM	555	O	LYS A 75	5.070	-11.391	-11.141	1.00	94.44	O
ATOM	556	CG	LYS A 75	7.609	-13.055	-8.906	1.00	94.44	C
ATOM	557	CD	LYS A 75	7.895	-14.484	-8.469	1.00	94.44	C
ATOM	558	CE	LYS A 75	9.336	-14.883	-8.766	1.00	94.44	C
ATOM	559	NZ	LYS A 75	9.633	-16.266	-8.273	1.00	94.44	N
ATOM	560	N	GLU A 76	6.902	-10.156	-10.828	1.00	93.81	N
ATOM	561	CA	GLU A 76	6.996	-9.828	-12.250	1.00	93.81	C
ATOM	562	C	GLU A 76	8.406	-10.070	-12.773	1.00	93.81	C
ATOM	563	CB	GLU A 76	6.578	-8.375	-12.492	1.00	93.81	C
ATOM	564	O	GLU A 76	9.391	-9.875	-12.055	1.00	93.81	O
ATOM	565	CG	GLU A 76	5.121	-8.086	-12.164	1.00	93.81	C
ATOM	566	CD	GLU A 76	4.699	-6.672	-12.508	1.00	93.81	C
ATOM	567	OE1	GLU A 76	3.877	-6.488	-13.438	1.00	93.81	O
ATOM	568	OE2	GLU A 76	5.191	-5.730	-11.844	1.00	93.81	O

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ATOM	569	N	LYS A 77	8.344	-10.570	-13.969	1.00	95.25	N
ATOM	570	CA	LYS A 77	9.594	-10.711	-14.719	1.00	95.25	C
ATOM	571	C	LYS A 77	9.500	-10.016	-16.078	1.00	95.25	C
ATOM	572	CB	LYS A 77	9.938	-12.188	-14.906	1.00	95.25	C
ATOM	573	O	LYS A 77	8.523	-10.195	-16.797	1.00	95.25	O
ATOM	574	CG	LYS A 77	10.320	-12.906	-13.625	1.00	95.25	C
ATOM	575	CD	LYS A 77	10.758	-14.344	-13.891	1.00	95.25	C
ATOM	576	CE	LYS A 77	11.094	-15.078	-12.602	1.00	95.25	C
ATOM	577	NZ	LYS A 77	11.492	-16.500	-12.859	1.00	95.25	N
ATOM	578	N	PHE A 78	10.414	-9.195	-16.359	1.00	94.12	N
ATOM	579	CA	PHE A 78	10.398	-8.586	-17.672	1.00	94.12	C
ATOM	580	C	PHE A 78	11.805	-8.180	-18.109	1.00	94.12	C
ATOM	581	CB	PHE A 78	9.469	-7.367	-17.703	1.00	94.12	C
ATOM	582	O	PHE A 78	12.727	-8.164	-17.281	1.00	94.12	O
ATOM	583	CG	PHE A 78	9.828	-6.312	-16.688	1.00	94.12	C
ATOM	584	CD1	PHE A 78	9.359	-6.383	-15.391	1.00	94.12	C
ATOM	585	CD2	PHE A 78	10.648	-5.246	-17.047	1.00	94.12	C
ATOM	586	CE1	PHE A 78	9.688	-5.406	-14.453	1.00	94.12	C
ATOM	587	CE2	PHE A 78	10.984	-4.266	-16.109	1.00	94.12	C
ATOM	588	CZ	PHE A 78	10.500	-4.348	-14.820	1.00	94.12	C
ATOM	589	N	SER A 79	11.961	-7.965	-19.328	1.00	95.50	N
ATOM	590	CA	SER A 79	13.219	-7.523	-19.922	1.00	95.50	C
ATOM	591	C	SER A 79	13.125	-6.086	-20.406	1.00	95.50	C
ATOM	592	CB	SER A 79	13.625	-8.445	-21.062	1.00	95.50	C
ATOM	593	O	SER A 79	12.102	-5.688	-20.984	1.00	95.50	O
ATOM	594	OG	SER A 79	13.891	-9.758	-20.594	1.00	95.50	O
ATOM	595	N	THR A 80	14.172	-5.316	-20.047	1.00	94.56	N
ATOM	596	CA	THR A 80	14.180	-3.924	-20.484	1.00	94.56	C
ATOM	597	C	THR A 80	15.609	-3.434	-20.703	1.00	94.56	C
ATOM	598	CB	THR A 80	13.477	-3.012	-19.469	1.00	94.56	C
ATOM	599	O	THR A 80	16.562	-4.188	-20.500	1.00	94.56	O
ATOM	600	CG2	THR A 80	14.289	-2.889	-18.172	1.00	94.56	C
ATOM	601	OG1	THR A 80	13.305	-1.710	-20.031	1.00	94.56	O
ATOM	602	N	THR A 81	15.719	-2.258	-21.281	1.00	93.81	N
ATOM	603	CA	THR A 81	17.031	-1.643	-21.484	1.00	93.81	C
ATOM	604	C	THR A 81	17.266	-0.535	-20.469	1.00	93.81	C
ATOM	605	CB	THR A 81	17.156	-1.068	-22.922	1.00	93.81	C
ATOM	606	O	THR A 81	16.328	0.162	-20.062	1.00	93.81	O
ATOM	607	CG2	THR A 81	17.047	-2.170	-23.969	1.00	93.81	C
ATOM	608	OG1	THR A 81	16.109	-0.116	-23.141	1.00	93.81	O
ATOM	609	N	VAL A 82	18.469	-0.513	-19.875	1.00	92.12	N
ATOM	610	CA	VAL A 82	18.797	0.552	-18.938	1.00	92.12	C
ATOM	611	C	VAL A 82	19.969	1.371	-19.484	1.00	92.12	C
ATOM	612	CB	VAL A 82	19.156	-0.012	-17.547	1.00	92.12	C
ATOM	613	O	VAL A 82	20.812	0.850	-20.203	1.00	92.12	O
ATOM	614	CG1	VAL A 82	17.938	-0.691	-16.922	1.00	92.12	C
ATOM	615	CG2	VAL A 82	20.328	-0.989	-17.641	1.00	92.12	C
ATOM	616	N	THR A 83	19.891	2.629	-19.266	1.00	92.81	N
ATOM	617	CA	THR A 83	20.984	3.533	-19.625	1.00	92.81	C
ATOM	618	C	THR A 83	22.078	3.535	-18.562	1.00	92.81	C
ATOM	619	CB	THR A 83	20.469	4.969	-19.844	1.00	92.81	C
ATOM	620	O	THR A 83	21.797	3.791	-17.391	1.00	92.81	O
ATOM	621	CG2	THR A 83	21.594	5.898	-20.281	1.00	92.81	C

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ATOM	622	OG1 THR A 83	19.453	4.957	-20.859	1.00	92.81	O
ATOM	623	N VAL A 84	23.266	3.205	-18.969	1.00	90.31	N
ATOM	624	CA VAL A 84	24.422	3.197	-18.078	1.00	90.31	C
ATOM	625	C VAL A 84	25.328	4.379	-18.406	1.00	90.31	C
ATOM	626	CB VAL A 84	25.203	1.871	-18.188	1.00	90.31	C
ATOM	627	O VAL A 84	25.766	4.543	-19.547	1.00	90.31	O
ATOM	628	CG1 VAL A 84	26.406	1.872	-17.234	1.00	90.31	C
ATOM	629	CG2 VAL A 84	24.297	0.683	-17.906	1.00	90.31	C
ATOM	630	N THR A 85	25.531	5.180	-17.438	1.00	93.81	N
ATOM	631	CA THR A 85	26.438	6.312	-17.594	1.00	93.81	C
ATOM	632	C THR A 85	27.750	6.074	-16.859	1.00	93.81	C
ATOM	633	CB THR A 85	25.797	7.617	-17.094	1.00	93.81	C
ATOM	634	O THR A 85	27.750	5.867	-15.641	1.00	93.81	O
ATOM	635	CG2 THR A 85	26.719	8.812	-17.312	1.00	93.81	C
ATOM	636	OG1 THR A 85	24.562	7.844	-17.797	1.00	93.81	O
ATOM	637	N THR A 86	28.812	6.016	-17.609	1.00	92.50	N
ATOM	638	CA THR A 86	30.141	5.820	-17.047	1.00	92.50	C
ATOM	639	C THR A 86	30.953	7.113	-17.109	1.00	92.50	C
ATOM	640	CB THR A 86	30.906	4.703	-17.797	1.00	92.50	C
ATOM	641	O THR A 86	31.062	7.730	-18.172	1.00	92.50	O
ATOM	642	CG2 THR A 86	32.250	4.414	-17.125	1.00	92.50	C
ATOM	643	OG1 THR A 86	30.109	3.510	-17.781	1.00	92.50	O
ATOM	644	N LYS A 87	31.453	7.488	-15.945	1.00	92.44	N
ATOM	645	CA LYS A 87	32.250	8.703	-15.844	1.00	92.44	C
ATOM	646	C LYS A 87	33.688	8.391	-15.438	1.00	92.44	C
ATOM	647	CB LYS A 87	31.625	9.680	-14.852	1.00	92.44	C
ATOM	648	O LYS A 87	33.906	7.699	-14.445	1.00	92.44	O
ATOM	649	CG LYS A 87	30.328	10.305	-15.328	1.00	92.44	C
ATOM	650	CD LYS A 87	29.797	11.336	-14.344	1.00	92.44	C
ATOM	651	CE LYS A 87	28.469	11.930	-14.797	1.00	92.44	C
ATOM	652	NZ LYS A 87	27.922	12.906	-13.805	1.00	92.44	N
ATOM	653	N THR A 88	34.625	8.859	-16.344	1.00	91.31	N
ATOM	654	CA THR A 88	36.031	8.938	-16.000	1.00	91.31	C
ATOM	655	C THR A 88	36.469	10.391	-15.836	1.00	91.31	C
ATOM	656	CB THR A 88	36.906	8.250	-17.062	1.00	91.31	C
ATOM	657	O THR A 88	35.688	11.312	-16.125	1.00	91.31	O
ATOM	658	CG2 THR A 88	36.500	6.785	-17.219	1.00	91.31	C
ATOM	659	OG1 THR A 88	36.719	8.922	-18.312	1.00	91.31	O
ATOM	660	N PRO A 89	37.688	10.578	-15.258	1.00	90.50	N
ATOM	661	CA PRO A 89	38.125	11.969	-15.102	1.00	90.50	C
ATOM	662	C PRO A 89	38.156	12.727	-16.422	1.00	90.50	C
ATOM	663	CB PRO A 89	39.531	11.828	-14.531	1.00	90.50	C
ATOM	664	O PRO A 89	37.906	13.938	-16.453	1.00	90.50	O
ATOM	665	CG PRO A 89	39.562	10.500	-13.836	1.00	90.50	C
ATOM	666	CD PRO A 89	38.625	9.578	-14.570	1.00	90.50	C
ATOM	667	N THR A 90	38.250	12.109	-17.609	1.00	93.69	N
ATOM	668	CA THR A 90	38.469	12.812	-18.859	1.00	93.69	C
ATOM	669	C THR A 90	37.281	12.609	-19.797	1.00	93.69	C
ATOM	670	CB THR A 90	39.750	12.352	-19.562	1.00	93.69	C
ATOM	671	O THR A 90	37.031	13.406	-20.703	1.00	93.69	O
ATOM	672	CG2 THR A 90	40.969	12.711	-18.750	1.00	93.69	C
ATOM	673	OG1 THR A 90	39.719	10.930	-19.734	1.00	93.69	O
ATOM	674	N THR A 91	36.344	11.570	-19.422	1.00	95.19	N

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ATOM	675	CA	THR	A	91	35.344	11.234	-20.422	1.00	95.19	C
ATOM	676	C	THR	A	91	34.062	10.781	-19.766	1.00	95.19	C
ATOM	677	CB	THR	A	91	35.844	10.141	-21.391	1.00	95.19	C
ATOM	678	O	THR	A	91	34.062	10.336	-18.609	1.00	95.19	O
ATOM	679	CG2	THR	A	91	37.031	10.641	-22.234	1.00	95.19	C
ATOM	680	OG1	THR	A	91	36.281	9.008	-20.609	1.00	95.19	O
ATOM	681	N	THR	A	92	32.844	11.031	-20.453	1.00	96.25	N
ATOM	682	CA	THR	A	92	31.531	10.469	-20.094	1.00	96.25	C
ATOM	683	C	THR	A	92	30.938	9.680	-21.266	1.00	96.25	C
ATOM	684	CB	THR	A	92	30.547	11.578	-19.672	1.00	96.25	C
ATOM	685	O	THR	A	92	30.844	10.195	-22.375	1.00	96.25	O
ATOM	686	CG2	THR	A	92	29.203	10.992	-19.250	1.00	96.25	C
ATOM	687	OG1	THR	A	92	31.109	12.305	-18.562	1.00	96.25	O
ATOM	688	N	THR	A	93	30.656	8.367	-20.922	1.00	95.44	N
ATOM	689	CA	THR	A	93	30.031	7.539	-21.953	1.00	95.44	C
ATOM	690	C	THR	A	93	28.672	7.023	-21.484	1.00	95.44	C
ATOM	691	CB	THR	A	93	30.938	6.352	-22.328	1.00	95.44	C
ATOM	692	O	THR	A	93	28.484	6.750	-20.297	1.00	95.44	O
ATOM	693	CG2	THR	A	93	32.219	6.828	-23.016	1.00	95.44	C
ATOM	694	OG1	THR	A	93	31.281	5.617	-21.156	1.00	95.44	O
ATOM	695	N	THR	A	94	27.656	7.020	-22.438	1.00	95.69	N
ATOM	696	CA	THR	A	94	26.328	6.477	-22.172	1.00	95.69	C
ATOM	697	C	THR	A	94	26.031	5.305	-23.094	1.00	95.69	C
ATOM	698	CB	THR	A	94	25.250	7.555	-22.328	1.00	95.69	C
ATOM	699	O	THR	A	94	26.250	5.395	-24.312	1.00	95.69	O
ATOM	700	CG2	THR	A	94	23.875	7.004	-21.984	1.00	95.69	C
ATOM	701	OG1	THR	A	94	25.547	8.656	-21.469	1.00	95.69	O
ATOM	702	N	GLU	A	95	25.703	4.242	-22.500	1.00	93.94	N
ATOM	703	CA	GLU	A	95	25.359	3.055	-23.281	1.00	93.94	C
ATOM	704	C	GLU	A	95	24.062	2.420	-22.781	1.00	93.94	C
ATOM	705	CB	GLU	A	95	26.500	2.033	-23.234	1.00	93.94	C
ATOM	706	O	GLU	A	95	23.703	2.555	-21.609	1.00	93.94	O
ATOM	707	CG	GLU	A	95	27.828	2.566	-23.750	1.00	93.94	C
ATOM	708	CD	GLU	A	95	28.984	1.592	-23.562	1.00	93.94	C
ATOM	709	OE1	GLU	A	95	29.891	1.558	-24.422	1.00	93.94	O
ATOM	710	OE2	GLU	A	95	28.969	0.855	-22.547	1.00	93.94	O
ATOM	711	N	GLU	A	96	23.344	1.795	-23.688	1.00	94.38	N
ATOM	712	CA	GLU	A	96	22.156	1.021	-23.328	1.00	94.38	C
ATOM	713	C	GLU	A	96	22.500	-0.455	-23.141	1.00	94.38	C
ATOM	714	CB	GLU	A	96	21.062	1.182	-24.391	1.00	94.38	C
ATOM	715	O	GLU	A	96	23.203	-1.041	-23.969	1.00	94.38	O
ATOM	716	CG	GLU	A	96	20.484	2.586	-24.469	1.00	94.38	C
ATOM	717	CD	GLU	A	96	19.266	2.684	-25.375	1.00	94.38	C
ATOM	718	OE1	GLU	A	96	18.469	3.631	-25.219	1.00	94.38	O
ATOM	719	OE2	GLU	A	96	19.125	1.807	-26.266	1.00	94.38	O
ATOM	720	N	ARG	A	97	22.016	-0.996	-22.016	1.00	92.50	N
ATOM	721	CA	ARG	A	97	22.250	-2.412	-21.750	1.00	92.50	C
ATOM	722	C	ARG	A	97	20.938	-3.141	-21.500	1.00	92.50	C
ATOM	723	CB	ARG	A	97	23.172	-2.588	-20.547	1.00	92.50	C
ATOM	724	O	ARG	A	97	20.016	-2.586	-20.906	1.00	92.50	O
ATOM	725	CG	ARG	A	97	24.578	-2.047	-20.750	1.00	92.50	C
ATOM	726	CD	ARG	A	97	25.531	-2.477	-19.641	1.00	92.50	C
ATOM	727	NE	ARG	A	97	26.875	-1.934	-19.844	1.00	92.50	N

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ATOM	728	NH1 ARG A 97	27.812	-3.061	-18.062	1.00	92.50	N
ATOM	729	NH2 ARG A 97	29.094	-1.674	-19.344	1.00	92.50	N
ATOM	730	CZ ARG A 97	27.922	-2.225	-19.078	1.00	92.50	C
ATOM	731	N GLU A 98	20.828	-4.340	-22.094	1.00	94.62	N
ATOM	732	CA GLU A 98	19.656	-5.176	-21.828	1.00	94.62	C
ATOM	733	C GLU A 98	19.766	-5.863	-20.469	1.00	94.62	C
ATOM	734	CB GLU A 98	19.500	-6.223	-22.938	1.00	94.62	C
ATOM	735	O GLU A 98	20.797	-6.438	-20.141	1.00	94.62	O
ATOM	736	CG GLU A 98	19.078	-5.637	-24.281	1.00	94.62	C
ATOM	737	CD GLU A 98	18.641	-6.691	-25.281	1.00	94.62	C
ATOM	738	OE1 GLU A 98	17.594	-6.508	-25.938	1.00	94.62	O
ATOM	739	OE2 GLU A 98	19.359	-7.711	-25.422	1.00	94.62	O
ATOM	740	N VAL A 99	18.625	-5.750	-19.703	1.00	94.62	N
ATOM	741	CA VAL A 99	18.609	-6.379	-18.391	1.00	94.62	C
ATOM	742	C VAL A 99	17.328	-7.195	-18.219	1.00	94.62	C
ATOM	743	CB VAL A 99	18.734	-5.336	-17.266	1.00	94.62	C
ATOM	744	O VAL A 99	16.312	-6.906	-18.859	1.00	94.62	O
ATOM	745	CG1 VAL A 99	20.047	-4.570	-17.359	1.00	94.62	C
ATOM	746	CG2 VAL A 99	17.547	-4.371	-17.297	1.00	94.62	C
ATOM	747	N GLU A 100	17.484	-8.266	-17.484	1.00	95.94	N
ATOM	748	CA GLU A 100	16.328	-8.992	-16.984	1.00	95.94	C
ATOM	749	C GLU A 100	15.984	-8.578	-15.555	1.00	95.94	C
ATOM	750	CB GLU A 100	16.562	-10.508	-17.047	1.00	95.94	C
ATOM	751	O GLU A 100	16.859	-8.578	-14.680	1.00	95.94	O
ATOM	752	CG GLU A 100	16.672	-11.055	-18.453	1.00	95.94	C
ATOM	753	CD GLU A 100	16.812	-12.570	-18.500	1.00	95.94	C
ATOM	754	OE1 GLU A 100	16.250	-13.203	-19.422	1.00	95.94	O
ATOM	755	OE2 GLU A 100	17.484	-13.125	-17.609	1.00	95.94	O
ATOM	756	N VAL A 101	14.734	-8.219	-15.383	1.00	94.94	N
ATOM	757	CA VAL A 101	14.312	-7.691	-14.086	1.00	94.94	C
ATOM	758	C VAL A 101	13.297	-8.641	-13.445	1.00	94.94	C
ATOM	759	CB VAL A 101	13.711	-6.277	-14.227	1.00	94.94	C
ATOM	760	O VAL A 101	12.344	-9.070	-14.102	1.00	94.94	O
ATOM	761	CG1 VAL A 101	13.250	-5.750	-12.867	1.00	94.94	C
ATOM	762	CG2 VAL A 101	14.727	-5.324	-14.852	1.00	94.94	C
ATOM	763	N GLU A 102	13.648	-9.016	-12.250	1.00	95.88	N
ATOM	764	CA GLU A 102	12.688	-9.719	-11.398	1.00	95.88	C
ATOM	765	C GLU A 102	12.289	-8.859	-10.195	1.00	95.88	C
ATOM	766	CB GLU A 102	13.266	-11.047	-10.922	1.00	95.88	C
ATOM	767	O GLU A 102	13.141	-8.445	-9.414	1.00	95.88	O
ATOM	768	CG GLU A 102	13.547	-12.039	-12.047	1.00	95.88	C
ATOM	769	CD GLU A 102	14.055	-13.383	-11.555	1.00	95.88	C
ATOM	770	OE1 GLU A 102	14.367	-14.258	-12.391	1.00	95.88	O
ATOM	771	OE2 GLU A 102	14.141	-13.562	-10.320	1.00	95.88	O
ATOM	772	N TYR A 103	11.016	-8.609	-10.156	1.00	93.75	N
ATOM	773	CA TYR A 103	10.461	-7.738	-9.117	1.00	93.75	C
ATOM	774	C TYR A 103	9.398	-8.461	-8.305	1.00	93.75	C
ATOM	775	CB TYR A 103	9.867	-6.473	-9.742	1.00	93.75	C
ATOM	776	O TYR A 103	8.469	-9.047	-8.859	1.00	93.75	O
ATOM	777	CG TYR A 103	9.172	-5.574	-8.742	1.00	93.75	C
ATOM	778	CD1 TYR A 103	7.855	-5.172	-8.945	1.00	93.75	C
ATOM	779	CD2 TYR A 103	9.836	-5.129	-7.605	1.00	93.75	C
ATOM	780	CE1 TYR A 103	7.211	-4.344	-8.031	1.00	93.75	C

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ATOM	781	CE2 TYR A 103	9.195	-4.301	-6.684	1.00	93.75	C
ATOM	782	OH TYR A 103	7.254	-3.096	-6.000	1.00	93.75	O
ATOM	783	CZ TYR A 103	7.887	-3.916	-6.906	1.00	93.75	C
ATOM	784	N GLU A 104	9.680	-8.469	-7.016	1.00	94.88	N
ATOM	785	CA GLU A 104	8.711	-9.055	-6.098	1.00	94.88	C
ATOM	786	C GLU A 104	8.273	-8.047	-5.035	1.00	94.88	C
ATOM	787	CB GLU A 104	9.289	-10.305	-5.430	1.00	94.88	C
ATOM	788	O GLU A 104	9.102	-7.332	-4.473	1.00	94.88	O
ATOM	789	CG GLU A 104	8.297	-11.047	-4.547	1.00	94.88	C
ATOM	790	CD GLU A 104	8.883	-12.297	-3.910	1.00	94.88	C
ATOM	791	OE1 GLU A 104	8.172	-12.969	-3.131	1.00	94.88	O
ATOM	792	OE2 GLU A 104	10.062	-12.602	-4.191	1.00	94.88	O
ATOM	793	N ARG A 105	6.969	-7.949	-4.863	1.00	94.44	N
ATOM	794	CA ARG A 105	6.465	-7.102	-3.787	1.00	94.44	C
ATOM	795	C ARG A 105	5.293	-7.766	-3.072	1.00	94.44	C
ATOM	796	CB ARG A 105	6.039	-5.734	-4.328	1.00	94.44	C
ATOM	797	O ARG A 105	4.551	-8.547	-3.676	1.00	94.44	O
ATOM	798	CG ARG A 105	4.785	-5.773	-5.184	1.00	94.44	C
ATOM	799	CD ARG A 105	4.375	-4.383	-5.648	1.00	94.44	C
ATOM	800	NE ARG A 105	5.410	-3.766	-6.477	1.00	94.44	N
ATOM	801	NH1 ARG A 105	4.352	-1.718	-6.637	1.00	94.44	N
ATOM	802	NH2 ARG A 105	6.371	-2.055	-7.672	1.00	94.44	N
ATOM	803	CZ ARG A 105	5.375	-2.514	-6.926	1.00	94.44	C
ATOM	804	N GLU A 106	5.184	-7.473	-1.853	1.00	95.62	N
ATOM	805	CA GLU A 106	4.094	-7.910	-0.988	1.00	95.62	C
ATOM	806	C GLU A 106	3.508	-6.742	-0.199	1.00	95.62	C
ATOM	807	CB GLU A 106	4.570	-9.008	-0.030	1.00	95.62	C
ATOM	808	O GLU A 106	4.242	-5.996	0.453	1.00	95.62	O
ATOM	809	CG GLU A 106	3.459	-9.617	0.806	1.00	95.62	C
ATOM	810	CD GLU A 106	3.949	-10.711	1.742	1.00	95.62	C
ATOM	811	OE1 GLU A 106	3.145	-11.219	2.561	1.00	95.62	O
ATOM	812	OE2 GLU A 106	5.145	-11.070	1.656	1.00	95.62	O
ATOM	813	N ILE A 107	2.188	-6.555	-0.334	1.00	96.62	N
ATOM	814	CA ILE A 107	1.475	-5.504	0.382	1.00	96.62	C
ATOM	815	C ILE A 107	0.377	-6.121	1.246	1.00	96.62	C
ATOM	816	CB ILE A 107	0.871	-4.469	-0.592	1.00	96.62	C
ATOM	817	O ILE A 107	-0.412	-6.938	0.768	1.00	96.62	O
ATOM	818	CG1 ILE A 107	1.970	-3.852	-1.466	1.00	96.62	C
ATOM	819	CG2 ILE A 107	0.111	-3.383	0.177	1.00	96.62	C
ATOM	820	CD1 ILE A 107	1.445	-3.068	-2.662	1.00	96.62	C
ATOM	821	N LYS A 108	0.422	-5.746	2.510	1.00	97.19	N
ATOM	822	CA LYS A 108	-0.635	-6.148	3.434	1.00	97.19	C
ATOM	823	C LYS A 108	-1.369	-4.930	3.990	1.00	97.19	C
ATOM	824	CB LYS A 108	-0.059	-6.980	4.578	1.00	97.19	C
ATOM	825	O LYS A 108	-0.751	-4.043	4.582	1.00	97.19	O
ATOM	826	CG LYS A 108	-1.114	-7.625	5.469	1.00	97.19	C
ATOM	827	CD LYS A 108	-0.482	-8.508	6.539	1.00	97.19	C
ATOM	828	CE LYS A 108	-1.537	-9.148	7.426	1.00	97.19	C
ATOM	829	NZ LYS A 108	-0.922	-10.023	8.469	1.00	97.19	N
ATOM	830	N ILE A 109	-2.707	-4.891	3.711	1.00	97.44	N
ATOM	831	CA ILE A 109	-3.549	-3.805	4.203	1.00	97.44	C
ATOM	832	C ILE A 109	-4.543	-4.348	5.227	1.00	97.44	C
ATOM	833	CB ILE A 109	-4.297	-3.102	3.047	1.00	97.44	C

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ATOM	834	O	ILE A 109	-5.270	-5.305	4.949	1.00	97.44	O
ATOM	835	CG1	ILE A 109	-3.303	-2.631	1.979	1.00	97.44	C
ATOM	836	CG2	ILE A 109	-5.129	-1.931	3.576	1.00	97.44	C
ATOM	837	CD1	ILE A 109	-3.953	-2.254	0.653	1.00	97.44	C
ATOM	838	N	THR A 110	-4.543	-3.752	6.391	1.00	97.00	N
ATOM	839	CA	THR A 110	-5.492	-4.105	7.441	1.00	97.00	C
ATOM	840	C	THR A 110	-6.402	-2.924	7.766	1.00	97.00	C
ATOM	841	CB	THR A 110	-4.766	-4.562	8.719	1.00	97.00	C
ATOM	842	O	THR A 110	-5.926	-1.825	8.055	1.00	97.00	O
ATOM	843	CG2	THR A 110	-5.762	-5.027	9.781	1.00	97.00	C
ATOM	844	OG1	THR A 110	-3.885	-5.645	8.398	1.00	97.00	O
ATOM	845	N	VAL A 111	-7.688	-3.207	7.648	1.00	96.06	N
ATOM	846	CA	VAL A 111	-8.688	-2.174	7.910	1.00	96.06	C
ATOM	847	C	VAL A 111	-9.625	-2.633	9.023	1.00	96.06	C
ATOM	848	CB	VAL A 111	-9.492	-1.830	6.637	1.00	96.06	C
ATOM	849	O	VAL A 111	-10.117	-3.764	9.000	1.00	96.06	O
ATOM	850	CG1	VAL A 111	-10.484	-0.706	6.914	1.00	96.06	C
ATOM	851	CG2	VAL A 111	-8.547	-1.442	5.500	1.00	96.06	C
ATOM	852	N	LYS A 112	-9.812	-1.645	9.938	1.00	95.25	N
ATOM	853	CA	LYS A 112	-10.727	-1.903	11.047	1.00	95.25	C
ATOM	854	C	LYS A 112	-11.531	-0.655	11.406	1.00	95.25	C
ATOM	855	CB	LYS A 112	-9.953	-2.398	12.273	1.00	95.25	C
ATOM	856	O	LYS A 112	-10.977	0.446	11.469	1.00	95.25	O
ATOM	857	CG	LYS A 112	-10.844	-2.809	13.438	1.00	95.25	C
ATOM	858	CD	LYS A 112	-10.023	-3.336	14.609	1.00	95.25	C
ATOM	859	CE	LYS A 112	-10.914	-3.768	15.766	1.00	95.25	C
ATOM	860	NZ	LYS A 112	-10.117	-4.316	16.906	1.00	95.25	N
ATOM	861	N	VAL A 113	-12.875	-0.868	11.562	1.00	94.50	N
ATOM	862	CA	VAL A 113	-13.742	0.196	12.062	1.00	94.50	C
ATOM	863	C	VAL A 113	-14.312	-0.193	13.422	1.00	94.50	C
ATOM	864	CB	VAL A 113	-14.891	0.501	11.070	1.00	94.50	C
ATOM	865	O	VAL A 113	-14.930	-1.253	13.562	1.00	94.50	O
ATOM	866	CG1	VAL A 113	-15.789	1.610	11.609	1.00	94.50	C
ATOM	867	CG2	VAL A 113	-14.328	0.887	9.703	1.00	94.50	C
ATOM	868	N	LYS A 114	-13.977	0.702	14.375	1.00	93.69	N
ATOM	869	CA	LYS A 114	-14.469	0.430	15.727	1.00	93.69	C
ATOM	870	C	LYS A 114	-15.305	1.593	16.250	1.00	93.69	C
ATOM	871	CB	LYS A 114	-13.305	0.154	16.672	1.00	93.69	C
ATOM	872	O	LYS A 114	-15.195	2.717	15.758	1.00	93.69	O
ATOM	873	CG	LYS A 114	-12.438	-1.030	16.266	1.00	93.69	C
ATOM	874	CD	LYS A 114	-11.289	-1.244	17.250	1.00	93.69	C
ATOM	875	CE	LYS A 114	-10.406	-2.412	16.828	1.00	93.69	C
ATOM	876	NZ	LYS A 114	-9.242	-2.586	17.734	1.00	93.69	N
ATOM	877	N	GLU A 115	-16.219	1.232	17.156	1.00	90.19	N
ATOM	878	CA	GLU A 115	-16.984	2.248	17.859	1.00	90.19	C
ATOM	879	C	GLU A 115	-16.375	2.561	19.219	1.00	90.19	C
ATOM	880	CB	GLU A 115	-18.438	1.795	18.031	1.00	90.19	C
ATOM	881	O	GLU A 115	-16.141	1.656	20.031	1.00	90.19	O
ATOM	882	CG	GLU A 115	-19.375	2.891	18.516	1.00	90.19	C
ATOM	883	CD	GLU A 115	-20.828	2.457	18.578	1.00	90.19	C
ATOM	884	OE1	GLU A 115	-21.656	3.191	19.172	1.00	90.19	O
ATOM	885	OE2	GLU A 115	-21.141	1.374	18.047	1.00	90.19	O
ATOM	886	N	GLU A 116	-15.898	3.750	19.344	1.00	91.69	N

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ATOM	887	CA	GLU A 116	-15.391	4.223	20.625	1.00	91.69	C
ATOM	888	C	GLU A 116	-16.125	5.480	21.078	1.00	91.69	C
ATOM	889	CB	GLU A 116	-13.883	4.484	20.547	1.00	91.69	C
ATOM	890	O	GLU A 116	-16.203	6.461	20.344	1.00	91.69	O
ATOM	891	CG	GLU A 116	-13.047	3.227	20.391	1.00	91.69	C
ATOM	892	CD	GLU A 116	-11.555	3.484	20.500	1.00	91.69	C
ATOM	893	OE1	GLU A 116	-10.789	2.523	20.734	1.00	91.69	O
ATOM	894	OE2	GLU A 116	-11.148	4.656	20.344	1.00	91.69	O
ATOM	895	N	ASP A 117	-16.750	5.434	22.297	1.00	90.19	N
ATOM	896	CA	ASP A 117	-17.438	6.570	22.891	1.00	90.19	C
ATOM	897	C	ASP A 117	-18.531	7.113	21.953	1.00	90.19	C
ATOM	898	CB	ASP A 117	-16.453	7.680	23.234	1.00	90.19	C
ATOM	899	O	ASP A 117	-18.672	8.328	21.812	1.00	90.19	O
ATOM	900	CG	ASP A 117	-15.422	7.250	24.281	1.00	90.19	C
ATOM	901	OD1	ASP A 117	-15.789	6.535	25.234	1.00	90.19	O
ATOM	902	OD2	ASP A 117	-14.242	7.629	24.125	1.00	90.19	O
ATOM	903	N	GLY A 118	-19.203	6.188	21.172	1.00	85.62	N
ATOM	904	CA	GLY A 118	-20.297	6.621	20.297	1.00	85.62	C
ATOM	905	C	GLY A 118	-19.812	7.125	18.953	1.00	85.62	C
ATOM	906	O	GLY A 118	-20.609	7.594	18.141	1.00	85.62	O
ATOM	907	N	LYS A 119	-18.438	7.148	18.703	1.00	89.75	N
ATOM	908	CA	LYS A 119	-17.859	7.566	17.438	1.00	89.75	C
ATOM	909	C	LYS A 119	-17.250	6.379	16.688	1.00	89.75	C
ATOM	910	CB	LYS A 119	-16.797	8.641	17.656	1.00	89.75	C
ATOM	911	O	LYS A 119	-16.781	5.426	17.312	1.00	89.75	O
ATOM	912	CG	LYS A 119	-17.328	9.922	18.281	1.00	89.75	C
ATOM	913	CD	LYS A 119	-16.219	10.945	18.484	1.00	89.75	C
ATOM	914	CE	LYS A 119	-16.734	12.211	19.156	1.00	89.75	C
ATOM	915	NZ	LYS A 119	-15.656	13.227	19.344	1.00	89.75	N
ATOM	916	N	LEU A 120	-17.391	6.461	15.375	1.00	91.12	N
ATOM	917	CA	LEU A 120	-16.766	5.434	14.547	1.00	91.12	C
ATOM	918	C	LEU A 120	-15.320	5.812	14.227	1.00	91.12	C
ATOM	919	CB	LEU A 120	-17.547	5.223	13.258	1.00	91.12	C
ATOM	920	O	LEU A 120	-15.047	6.934	13.797	1.00	91.12	O
ATOM	921	CG	LEU A 120	-18.938	4.617	13.398	1.00	91.12	C
ATOM	922	CD1	LEU A 120	-19.672	4.621	12.055	1.00	91.12	C
ATOM	923	CD2	LEU A 120	-18.859	3.199	13.961	1.00	91.12	C
ATOM	924	N	ILE A 121	-14.375	4.918	14.562	1.00	93.00	N
ATOM	925	CA	ILE A 121	-12.953	5.156	14.336	1.00	93.00	C
ATOM	926	C	ILE A 121	-12.438	4.203	13.258	1.00	93.00	C
ATOM	927	CB	ILE A 121	-12.141	4.992	15.633	1.00	93.00	C
ATOM	928	O	ILE A 121	-12.578	2.982	13.383	1.00	93.00	O
ATOM	929	CG1	ILE A 121	-12.727	5.863	16.750	1.00	93.00	C
ATOM	930	CG2	ILE A 121	-10.664	5.328	15.398	1.00	93.00	C
ATOM	931	CD1	ILE A 121	-12.602	7.359	16.484	1.00	93.00	C
ATOM	932	N	LEU A 122	-11.859	4.711	12.164	1.00	94.25	N
ATOM	933	CA	LEU A 122	-11.258	3.924	11.102	1.00	94.25	C
ATOM	934	C	LEU A 122	-9.766	3.742	11.344	1.00	94.25	C
ATOM	935	CB	LEU A 122	-11.492	4.586	9.742	1.00	94.25	C
ATOM	936	O	LEU A 122	-9.031	4.723	11.484	1.00	94.25	O
ATOM	937	CG	LEU A 122	-10.805	3.938	8.539	1.00	94.25	C
ATOM	938	CD1	LEU A 122	-11.398	2.561	8.266	1.00	94.25	C
ATOM	939	CD2	LEU A 122	-10.922	4.828	7.309	1.00	94.25	C

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ATOM	940	N	GLU A 123	-9.312	2.539	11.484	1.00	95.62	N
ATOM	941	CA	GLU A 123	-7.898	2.211	11.609	1.00	95.62	C
ATOM	942	C	GLU A 123	-7.375	1.510	10.359	1.00	95.62	C
ATOM	943	CB	GLU A 123	-7.660	1.335	12.844	1.00	95.62	C
ATOM	944	O	GLU A 123	-7.938	0.500	9.930	1.00	95.62	O
ATOM	945	CG	GLU A 123	-7.953	2.035	14.164	1.00	95.62	C
ATOM	946	CD	GLU A 123	-7.633	1.182	15.383	1.00	95.62	C
ATOM	947	OE1	GLU A 123	-7.562	1.729	16.500	1.00	95.62	O
ATOM	948	OE2	GLU A 123	-7.449	-0.044	15.211	1.00	95.62	O
ATOM	949	N	VAL A 124	-6.344	2.062	9.750	1.00	96.00	N
ATOM	950	CA	VAL A 124	-5.754	1.475	8.555	1.00	96.00	C
ATOM	951	C	VAL A 124	-4.262	1.238	8.773	1.00	96.00	C
ATOM	952	CB	VAL A 124	-5.977	2.369	7.312	1.00	96.00	C
ATOM	953	O	VAL A 124	-3.535	2.152	9.164	1.00	96.00	O
ATOM	954	CG1	VAL A 124	-5.426	1.699	6.059	1.00	96.00	C
ATOM	955	CG2	VAL A 124	-7.461	2.688	7.145	1.00	96.00	C
ATOM	956	N	LYS A 125	-3.875	0.008	8.617	1.00	96.44	N
ATOM	957	CA	LYS A 125	-2.463	-0.357	8.703	1.00	96.44	C
ATOM	958	C	LYS A 125	-1.967	-0.940	7.387	1.00	96.44	C
ATOM	959	CB	LYS A 125	-2.234	-1.356	9.844	1.00	96.44	C
ATOM	960	O	LYS A 125	-2.607	-1.822	6.812	1.00	96.44	O
ATOM	961	CG	LYS A 125	-0.767	-1.641	10.125	1.00	96.44	C
ATOM	962	CD	LYS A 125	-0.602	-2.572	11.320	1.00	96.44	C
ATOM	963	CE	LYS A 125	0.866	-2.857	11.609	1.00	96.44	C
ATOM	964	NZ	LYS A 125	1.032	-3.771	12.781	1.00	96.44	N
ATOM	965	N	VAL A 126	-0.792	-0.407	6.875	1.00	96.81	N
ATOM	966	CA	VAL A 126	-0.243	-0.867	5.602	1.00	96.81	C
ATOM	967	C	VAL A 126	1.202	-1.321	5.797	1.00	96.81	C
ATOM	968	CB	VAL A 126	-0.314	0.234	4.523	1.00	96.81	C
ATOM	969	O	VAL A 126	2.020	-0.586	6.355	1.00	96.81	O
ATOM	970	CG1	VAL A 126	0.222	-0.282	3.188	1.00	96.81	C
ATOM	971	CG2	VAL A 126	-1.749	0.736	4.367	1.00	96.81	C
ATOM	972	N	GLU A 127	1.460	-2.521	5.430	1.00	95.25	N
ATOM	973	CA	GLU A 127	2.814	-3.066	5.406	1.00	95.25	C
ATOM	974	C	GLU A 127	3.219	-3.486	3.998	1.00	95.25	C
ATOM	975	CB	GLU A 127	2.930	-4.258	6.363	1.00	95.25	C
ATOM	976	O	GLU A 127	2.469	-4.188	3.314	1.00	95.25	O
ATOM	977	CG	GLU A 127	2.678	-3.900	7.820	1.00	95.25	C
ATOM	978	CD	GLU A 127	2.801	-5.090	8.758	1.00	95.25	C
ATOM	979	OE1	GLU A 127	2.936	-4.883	9.984	1.00	95.25	O
ATOM	980	OE2	GLU A 127	2.762	-6.238	8.266	1.00	95.25	O
ATOM	981	N	ALA A 128	4.387	-3.020	3.557	1.00	94.88	N
ATOM	982	CA	ALA A 128	4.824	-3.320	2.195	1.00	94.88	C
ATOM	983	C	ALA A 128	6.312	-3.660	2.162	1.00	94.88	C
ATOM	984	CB	ALA A 128	4.531	-2.143	1.271	1.00	94.88	C
ATOM	985	O	ALA A 128	7.113	-3.049	2.873	1.00	94.88	O
ATOM	986	N	LYS A 129	6.613	-4.715	1.444	1.00	93.69	N
ATOM	987	CA	LYS A 129	7.996	-5.121	1.208	1.00	93.69	C
ATOM	988	C	LYS A 129	8.242	-5.395	-0.273	1.00	93.69	C
ATOM	989	CB	LYS A 129	8.344	-6.355	2.037	1.00	93.69	C
ATOM	990	O	LYS A 129	7.367	-5.910	-0.969	1.00	93.69	O
ATOM	991	CG	LYS A 129	8.281	-6.133	3.539	1.00	93.69	C
ATOM	992	CD	LYS A 129	8.648	-7.395	4.309	1.00	93.69	C

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ATOM	993	CE	LYS	A 129	8.547	-7.184	5.812	1.00	93.69	C
ATOM	994	NZ	LYS	A 129	8.875	-8.430	6.570	1.00	93.69	N
ATOM	995	N	GLY	A 130	9.375	-4.926	-0.743	1.00	94.00	N
ATOM	996	CA	GLY	A 130	9.688	-5.141	-2.146	1.00	94.00	C
ATOM	997	C	GLY	A 130	11.148	-5.473	-2.385	1.00	94.00	C
ATOM	998	O	GLY	A 130	12.023	-5.035	-1.633	1.00	94.00	O
ATOM	999	N	LYS	A 131	11.367	-6.379	-3.314	1.00	95.12	N
ATOM	1000	CA	LYS	A 131	12.719	-6.762	-3.717	1.00	95.12	C
ATOM	1001	C	LYS	A 131	12.859	-6.746	-5.234	1.00	95.12	C
ATOM	1002	CB	LYS	A 131	13.070	-8.148	-3.170	1.00	95.12	C
ATOM	1003	O	LYS	A 131	11.945	-7.152	-5.957	1.00	95.12	O
ATOM	1004	CG	LYS	A 131	14.539	-8.508	-3.307	1.00	95.12	C
ATOM	1005	CD	LYS	A 131	14.859	-9.828	-2.615	1.00	95.12	C
ATOM	1006	CE	LYS	A 131	16.344	-10.164	-2.697	1.00	95.12	C
ATOM	1007	NZ	LYS	A 131	16.656	-11.430	-1.984	1.00	95.12	N
ATOM	1008	N	LEU	A 132	14.062	-6.266	-5.652	1.00	95.50	N
ATOM	1009	CA	LEU	A 132	14.359	-6.180	-7.078	1.00	95.50	C
ATOM	1010	C	LEU	A 132	15.656	-6.918	-7.406	1.00	95.50	C
ATOM	1011	CB	LEU	A 132	14.469	-4.715	-7.516	1.00	95.50	C
ATOM	1012	O	LEU	A 132	16.656	-6.754	-6.715	1.00	95.50	O
ATOM	1013	CG	LEU	A 132	14.695	-4.469	-9.008	1.00	95.50	C
ATOM	1014	CD1	LEU	A 132	13.430	-4.809	-9.797	1.00	95.50	C
ATOM	1015	CD2	LEU	A 132	15.109	-3.025	-9.258	1.00	95.50	C
ATOM	1016	N	LYS	A 133	15.523	-7.836	-8.359	1.00	95.25	N
ATOM	1017	CA	LYS	A 133	16.703	-8.508	-8.883	1.00	95.25	C
ATOM	1018	C	LYS	A 133	16.953	-8.133	-10.336	1.00	95.25	C
ATOM	1019	CB	LYS	A 133	16.562	-10.023	-8.750	1.00	95.25	C
ATOM	1020	O	LYS	A 133	16.078	-8.281	-11.188	1.00	95.25	O
ATOM	1021	CG	LYS	A 133	17.812	-10.805	-9.117	1.00	95.25	C
ATOM	1022	CD	LYS	A 133	17.625	-12.297	-8.906	1.00	95.25	C
ATOM	1023	CE	LYS	A 133	18.891	-13.078	-9.258	1.00	95.25	C
ATOM	1024	NZ	LYS	A 133	18.719	-14.539	-9.023	1.00	95.25	N
ATOM	1025	N	ILE	A 134	18.156	-7.633	-10.617	1.00	93.94	N
ATOM	1026	CA	ILE	A 134	18.531	-7.230	-11.969	1.00	93.94	C
ATOM	1027	C	ILE	A 134	19.656	-8.133	-12.477	1.00	93.94	C
ATOM	1028	CB	ILE	A 134	18.969	-5.746	-12.008	1.00	93.94	C
ATOM	1029	O	ILE	A 134	20.688	-8.289	-11.812	1.00	93.94	O
ATOM	1030	CG1	ILE	A 134	17.844	-4.844	-11.500	1.00	93.94	C
ATOM	1031	CG2	ILE	A 134	19.391	-5.352	-13.430	1.00	93.94	C
ATOM	1032	CD1	ILE	A 134	18.281	-3.410	-11.227	1.00	93.94	C
ATOM	1033	N	THR	A 135	19.453	-8.703	-13.664	1.00	94.94	N
ATOM	1034	CA	THR	A 135	20.469	-9.539	-14.312	1.00	94.94	C
ATOM	1035	C	THR	A 135	20.875	-8.938	-15.656	1.00	94.94	C
ATOM	1036	CB	THR	A 135	19.938	-10.969	-14.531	1.00	94.94	C
ATOM	1037	O	THR	A 135	20.047	-8.742	-16.547	1.00	94.94	O
ATOM	1038	CG2	THR	A 135	21.031	-11.867	-15.102	1.00	94.94	C
ATOM	1039	OG1	THR	A 135	19.516	-11.508	-13.273	1.00	94.94	O
ATOM	1040	N	PHE	A 136	22.156	-8.664	-15.773	1.00	90.88	N
ATOM	1041	CA	PHE	A 136	22.688	-8.164	-17.031	1.00	90.88	C
ATOM	1042	C	PHE	A 136	22.859	-9.289	-18.031	1.00	90.88	C
ATOM	1043	CB	PHE	A 136	24.031	-7.449	-16.812	1.00	90.88	C
ATOM	1044	O	PHE	A 136	23.625	-10.234	-17.797	1.00	90.88	O
ATOM	1045	CG	PHE	A 136	23.906	-6.145	-16.062	1.00	90.88	C

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ATOM	1046	CD1 PHE A 136	23.859	-4.941	-16.750	1.00	90.88	C
ATOM	1047	CD2 PHE A 136	23.844	-6.125	-14.680	1.00	90.88	C
ATOM	1048	CE1 PHE A 136	23.734	-3.732	-16.078	1.00	90.88	C
ATOM	1049	CE2 PHE A 136	23.734	-4.922	-13.992	1.00	90.88	C
ATOM	1050	CZ PHE A 136	23.688	-3.727	-14.688	1.00	90.88	C
ATOM	1051	N LYS A 137	22.172	-9.297	-19.141	1.00	92.81	N
ATOM	1052	CA LYS A 137	22.094	-10.398	-20.094	1.00	92.81	C
ATOM	1053	C LYS A 137	23.469	-10.688	-20.703	1.00	92.81	C
ATOM	1054	CB LYS A 137	21.094	-10.086	-21.188	1.00	92.81	C
ATOM	1055	O LYS A 137	23.812	-11.852	-20.922	1.00	92.81	O
ATOM	1056	CG LYS A 137	19.641	-10.203	-20.750	1.00	92.81	C
ATOM	1057	CD LYS A 137	18.688	-10.125	-21.938	1.00	92.81	C
ATOM	1058	CE LYS A 137	17.234	-10.336	-21.516	1.00	92.81	C
ATOM	1059	NZ LYS A 137	16.297	-10.227	-22.672	1.00	92.81	N
ATOM	1060	N GLU A 138	24.266	-9.633	-20.828	1.00	90.94	N
ATOM	1061	CA GLU A 138	25.547	-9.789	-21.531	1.00	90.94	C
ATOM	1062	C GLU A 138	26.578	-10.453	-20.625	1.00	90.94	C
ATOM	1063	CB GLU A 138	26.062	-8.438	-22.016	1.00	90.94	C
ATOM	1064	O GLU A 138	27.328	-11.328	-21.078	1.00	90.94	O
ATOM	1065	CG GLU A 138	25.188	-7.797	-23.094	1.00	90.94	C
ATOM	1066	CD GLU A 138	25.703	-6.445	-23.547	1.00	90.94	C
ATOM	1067	OE1 GLU A 138	25.156	-5.898	-24.547	1.00	90.94	O
ATOM	1068	OE2 GLU A 138	26.641	-5.926	-22.922	1.00	90.94	O
ATOM	1069	N THR A 139	26.547	-10.086	-19.344	1.00	90.00	N
ATOM	1070	CA THR A 139	27.625	-10.531	-18.453	1.00	90.00	C
ATOM	1071	C THR A 139	27.125	-11.617	-17.516	1.00	90.00	C
ATOM	1072	CB THR A 139	28.203	-9.359	-17.641	1.00	90.00	C
ATOM	1073	O THR A 139	27.922	-12.391	-16.969	1.00	90.00	O
ATOM	1074	CG2 THR A 139	28.750	-8.273	-18.547	1.00	90.00	C
ATOM	1075	OG1 THR A 139	27.156	-8.797	-16.828	1.00	90.00	O
ATOM	1076	N GLY A 140	25.812	-11.641	-17.297	1.00	90.94	N
ATOM	1077	CA GLY A 140	25.234	-12.531	-16.297	1.00	90.94	C
ATOM	1078	C GLY A 140	25.312	-11.984	-14.891	1.00	90.94	C
ATOM	1079	O GLY A 140	24.922	-12.664	-13.930	1.00	90.94	O
ATOM	1080	N GLU A 141	25.859	-10.875	-14.680	1.00	89.50	N
ATOM	1081	CA GLU A 141	25.953	-10.203	-13.391	1.00	89.50	C
ATOM	1082	C GLU A 141	24.562	-9.930	-12.805	1.00	89.50	C
ATOM	1083	CB GLU A 141	26.734	-8.891	-13.523	1.00	89.50	C
ATOM	1084	O GLU A 141	23.656	-9.547	-13.523	1.00	89.50	O
ATOM	1085	CG GLU A 141	27.016	-8.211	-12.195	1.00	89.50	C
ATOM	1086	CD GLU A 141	27.750	-6.887	-12.344	1.00	89.50	C
ATOM	1087	OE1 GLU A 141	27.719	-6.059	-11.406	1.00	89.50	O
ATOM	1088	OE2 GLU A 141	28.359	-6.672	-13.414	1.00	89.50	O
ATOM	1089	N GLU A 142	24.531	-10.109	-11.414	1.00	93.75	N
ATOM	1090	CA GLU A 142	23.266	-9.914	-10.727	1.00	93.75	C
ATOM	1091	C GLU A 142	23.391	-8.852	-9.633	1.00	93.75	C
ATOM	1092	CB GLU A 142	22.781	-11.234	-10.125	1.00	93.75	C
ATOM	1093	O GLU A 142	24.391	-8.805	-8.914	1.00	93.75	O
ATOM	1094	CG GLU A 142	22.516	-12.320	-11.156	1.00	93.75	C
ATOM	1095	CD GLU A 142	22.062	-13.641	-10.539	1.00	93.75	C
ATOM	1096	OE1 GLU A 142	21.500	-14.477	-11.266	1.00	93.75	O
ATOM	1097	OE2 GLU A 142	22.297	-13.828	-9.328	1.00	93.75	O
ATOM	1098	N ILE A 143	22.328	-8.062	-9.617	1.00	91.94	N

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ATOM	1099	CA	ILE A 143	22.203	-7.082	-8.547	1.00	91.94	C
ATOM	1100	C	ILE A 143	20.859	-7.262	-7.840	1.00	91.94	C
ATOM	1101	CB	ILE A 143	22.328	-5.641	-9.086	1.00	91.94	C
ATOM	1102	O	ILE A 143	19.812	-7.371	-8.492	1.00	91.94	O
ATOM	1103	CG1	ILE A 143	23.672	-5.453	-9.797	1.00	91.94	C
ATOM	1104	CG2	ILE A 143	22.156	-4.625	-7.953	1.00	91.94	C
ATOM	1105	CD1	ILE A 143	23.781	-4.168	-10.602	1.00	91.94	C
ATOM	1106	N	GLU A 144	21.016	-7.395	-6.562	1.00	93.88	N
ATOM	1107	CA	GLU A 144	19.797	-7.434	-5.762	1.00	93.88	C
ATOM	1108	C	GLU A 144	19.625	-6.152	-4.953	1.00	93.88	C
ATOM	1109	CB	GLU A 144	19.812	-8.648	-4.832	1.00	93.88	C
ATOM	1110	O	GLU A 144	20.562	-5.711	-4.277	1.00	93.88	O
ATOM	1111	CG	GLU A 144	19.766	-9.984	-5.562	1.00	93.88	C
ATOM	1112	CD	GLU A 144	19.688	-11.180	-4.625	1.00	93.88	C
ATOM	1113	OE1	GLU A 144	19.625	-12.328	-5.113	1.00	93.88	O
ATOM	1114	OE2	GLU A 144	19.672	-10.961	-3.393	1.00	93.88	O
ATOM	1115	N	ILE A 145	18.406	-5.613	-4.973	1.00	93.94	N
ATOM	1116	CA	ILE A 145	18.141	-4.363	-4.270	1.00	93.94	C
ATOM	1117	C	ILE A 145	16.906	-4.516	-3.396	1.00	93.94	C
ATOM	1118	CB	ILE A 145	17.953	-3.188	-5.258	1.00	93.94	C
ATOM	1119	O	ILE A 145	15.828	-4.887	-3.885	1.00	93.94	O
ATOM	1120	CG1	ILE A 145	19.156	-3.090	-6.199	1.00	93.94	C
ATOM	1121	CG2	ILE A 145	17.750	-1.874	-4.504	1.00	93.94	C
ATOM	1122	CD1	ILE A 145	18.969	-2.100	-7.344	1.00	93.94	C
ATOM	1123	N	ASP A 146	17.094	-4.312	-2.104	1.00	93.62	N
ATOM	1124	CA	ASP A 146	15.930	-4.180	-1.247	1.00	93.62	C
ATOM	1125	C	ASP A 146	15.266	-2.812	-1.428	1.00	93.62	C
ATOM	1126	CB	ASP A 146	16.312	-4.391	0.220	1.00	93.62	C
ATOM	1127	O	ASP A 146	15.953	-1.787	-1.451	1.00	93.62	O
ATOM	1128	CG	ASP A 146	16.750	-5.809	0.519	1.00	93.62	C
ATOM	1129	OD1	ASP A 146	16.125	-6.766	0.015	1.00	93.62	O
ATOM	1130	OD2	ASP A 146	17.750	-5.973	1.267	1.00	93.62	O
ATOM	1131	N	LEU A 147	14.000	-2.795	-1.531	1.00	94.62	N
ATOM	1132	CA	LEU A 147	13.320	-1.531	-1.791	1.00	94.62	C
ATOM	1133	C	LEU A 147	12.758	-0.938	-0.501	1.00	94.62	C
ATOM	1134	CB	LEU A 147	12.188	-1.731	-2.805	1.00	94.62	C
ATOM	1135	O	LEU A 147	12.242	-1.667	0.349	1.00	94.62	O
ATOM	1136	CG	LEU A 147	12.594	-2.281	-4.172	1.00	94.62	C
ATOM	1137	CD1	LEU A 147	11.359	-2.469	-5.055	1.00	94.62	C
ATOM	1138	CD2	LEU A 147	13.602	-1.354	-4.844	1.00	94.62	C
ATOM	1139	N	GLU A 148	13.055	0.237	-0.315	1.00	94.12	N
ATOM	1140	CA	GLU A 148	12.453	0.999	0.772	1.00	94.12	C
ATOM	1141	C	GLU A 148	11.070	1.515	0.380	1.00	94.12	C
ATOM	1142	CB	GLU A 148	13.352	2.168	1.180	1.00	94.12	C
ATOM	1143	O	GLU A 148	10.875	1.983	-0.744	1.00	94.12	O
ATOM	1144	CG	GLU A 148	12.914	2.867	2.457	1.00	94.12	C
ATOM	1145	CD	GLU A 148	13.844	3.990	2.877	1.00	94.12	C
ATOM	1146	OE1	GLU A 148	13.562	4.664	3.895	1.00	94.12	O
ATOM	1147	OE2	GLU A 148	14.867	4.199	2.186	1.00	94.12	O
ATOM	1148	N	THR A 149	10.109	1.489	1.352	1.00	94.94	N
ATOM	1149	CA	THR A 149	8.719	1.763	1.019	1.00	94.94	C
ATOM	1150	C	THR A 149	8.234	3.029	1.720	1.00	94.94	C
ATOM	1151	CB	THR A 149	7.809	0.580	1.401	1.00	94.94	C

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ATOM	1152	O	THR A 149	8.523	3.242	2.898	1.00	94.94	O
ATOM	1153	CG2	THR A 149	6.367	0.841	0.990	1.00	94.94	C
ATOM	1154	OG1	THR A 149	8.273	-0.605	0.745	1.00	94.94	O
ATOM	1155	N	LYS A 150	7.660	3.865	1.022	1.00	95.56	N
ATOM	1156	CA	LYS A 150	6.906	5.008	1.535	1.00	95.56	C
ATOM	1157	C	LYS A 150	5.414	4.844	1.272	1.00	95.56	C
ATOM	1158	CB	LYS A 150	7.410	6.309	0.907	1.00	95.56	C
ATOM	1159	O	LYS A 150	5.004	4.562	0.145	1.00	95.56	O
ATOM	1160	CG	LYS A 150	6.781	7.562	1.495	1.00	95.56	C
ATOM	1161	CD	LYS A 150	7.352	8.820	0.857	1.00	95.56	C
ATOM	1162	CE	LYS A 150	6.695	10.078	1.416	1.00	95.56	C
ATOM	1163	NZ	LYS A 150	7.238	11.320	0.784	1.00	95.56	N
ATOM	1164	N	VAL A 151	4.551	5.078	2.375	1.00	96.44	N
ATOM	1165	CA	VAL A 151	3.107	4.879	2.266	1.00	96.44	C
ATOM	1166	C	VAL A 151	2.381	6.191	2.545	1.00	96.44	C
ATOM	1167	CB	VAL A 151	2.611	3.779	3.232	1.00	96.44	C
ATOM	1168	O	VAL A 151	2.658	6.863	3.541	1.00	96.44	O
ATOM	1169	CG1	VAL A 151	1.091	3.645	3.160	1.00	96.44	C
ATOM	1170	CG2	VAL A 151	3.285	2.445	2.914	1.00	96.44	C
ATOM	1171	N	GLU A 152	1.563	6.527	1.654	1.00	97.50	N
ATOM	1172	CA	GLU A 152	0.661	7.660	1.842	1.00	97.50	C
ATOM	1173	C	GLU A 152	-0.798	7.219	1.767	1.00	97.50	C
ATOM	1174	CB	GLU A 152	0.938	8.750	0.801	1.00	97.50	C
ATOM	1175	O	GLU A 152	-1.218	6.609	0.781	1.00	97.50	O
ATOM	1176	CG	GLU A 152	2.297	9.414	0.953	1.00	97.50	C
ATOM	1177	CD	GLU A 152	2.508	10.570	-0.006	1.00	97.50	C
ATOM	1178	OE1	GLU A 152	3.025	11.633	0.424	1.00	97.50	O
ATOM	1179	OE2	GLU A 152	2.152	10.430	-1.196	1.00	97.50	O
ATOM	1180	N	ILE A 153	-1.556	7.574	2.781	1.00	96.62	N
ATOM	1181	CA	ILE A 153	-2.963	7.195	2.832	1.00	96.62	C
ATOM	1182	C	ILE A 153	-3.836	8.445	2.736	1.00	96.62	C
ATOM	1183	CB	ILE A 153	-3.291	6.410	4.121	1.00	96.62	C
ATOM	1184	O	ILE A 153	-3.664	9.391	3.508	1.00	96.62	O
ATOM	1185	CG1	ILE A 153	-2.375	5.188	4.250	1.00	96.62	C
ATOM	1186	CG2	ILE A 153	-4.766	5.996	4.145	1.00	96.62	C
ATOM	1187	CD1	ILE A 153	-2.447	4.500	5.605	1.00	96.62	C
ATOM	1188	N	LYS A 154	-4.734	8.422	1.762	1.00	96.25	N
ATOM	1189	CA	LYS A 154	-5.645	9.555	1.582	1.00	96.25	C
ATOM	1190	C	LYS A 154	-7.098	9.117	1.719	1.00	96.25	C
ATOM	1191	CB	LYS A 154	-5.418	10.211	0.219	1.00	96.25	C
ATOM	1192	O	LYS A 154	-7.516	8.133	1.113	1.00	96.25	O
ATOM	1193	CG	LYS A 154	-4.059	10.883	0.069	1.00	96.25	C
ATOM	1194	CD	LYS A 154	-3.906	11.539	-1.296	1.00	96.25	C
ATOM	1195	CE	LYS A 154	-2.521	12.148	-1.474	1.00	96.25	C
ATOM	1196	NZ	LYS A 154	-2.350	12.742	-2.830	1.00	96.25	N
ATOM	1197	N	LEU A 155	-7.836	9.898	2.604	1.00	96.19	N
ATOM	1198	CA	LEU A 155	-9.281	9.742	2.643	1.00	96.19	C
ATOM	1199	C	LEU A 155	-9.945	10.539	1.523	1.00	96.19	C
ATOM	1200	CB	LEU A 155	-9.836	10.195	4.000	1.00	96.19	C
ATOM	1201	O	LEU A 155	-9.836	11.766	1.480	1.00	96.19	O
ATOM	1202	CG	LEU A 155	-11.352	10.141	4.164	1.00	96.19	C
ATOM	1203	CD1	LEU A 155	-11.852	8.703	4.094	1.00	96.19	C
ATOM	1204	CD2	LEU A 155	-11.773	10.797	5.477	1.00	96.19	C

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ATOM	1205	N	VAL A 156	-10.594	9.844	0.664	1.00	96.19	N
ATOM	1206	CA	VAL A 156	-11.164	10.508	-0.507	1.00	96.19	C
ATOM	1207	C	VAL A 156	-12.562	11.016	-0.188	1.00	96.19	C
ATOM	1208	CB	VAL A 156	-11.195	9.562	-1.729	1.00	96.19	C
ATOM	1209	O	VAL A 156	-12.867	12.195	-0.384	1.00	96.19	O
ATOM	1210	CG1	VAL A 156	-11.859	10.250	-2.922	1.00	96.19	C
ATOM	1211	CG2	VAL A 156	-9.789	9.102	-2.092	1.00	96.19	C
ATOM	1212	N	SER A 157	-13.375	10.109	0.313	1.00	96.62	N
ATOM	1213	CA	SER A 157	-14.734	10.539	0.644	1.00	96.62	C
ATOM	1214	C	SER A 157	-15.375	9.602	1.668	1.00	96.62	C
ATOM	1215	CB	SER A 157	-15.602	10.594	-0.615	1.00	96.62	C
ATOM	1216	O	SER A 157	-14.938	8.461	1.831	1.00	96.62	O
ATOM	1217	OG	SER A 157	-15.812	9.297	-1.138	1.00	96.62	O
ATOM	1218	N	ILE A 158	-16.344	10.133	2.363	1.00	96.19	N
ATOM	1219	CA	ILE A 158	-17.188	9.391	3.281	1.00	96.19	C
ATOM	1220	C	ILE A 158	-18.656	9.711	2.990	1.00	96.19	C
ATOM	1221	CB	ILE A 158	-16.859	9.711	4.754	1.00	96.19	C
ATOM	1222	O	ILE A 158	-19.047	10.883	2.924	1.00	96.19	O
ATOM	1223	CG1	ILE A 158	-15.391	9.375	5.051	1.00	96.19	C
ATOM	1224	CG2	ILE A 158	-17.797	8.945	5.699	1.00	96.19	C
ATOM	1225	CD1	ILE A 158	-14.914	9.836	6.422	1.00	96.19	C
ATOM	1226	N	LYS A 159	-19.359	8.609	2.711	1.00	96.12	N
ATOM	1227	CA	LYS A 159	-20.797	8.766	2.461	1.00	96.12	C
ATOM	1228	C	LYS A 159	-21.609	7.918	3.422	1.00	96.12	C
ATOM	1229	CB	LYS A 159	-21.125	8.398	1.015	1.00	96.12	C
ATOM	1230	O	LYS A 159	-21.250	6.785	3.734	1.00	96.12	O
ATOM	1231	CG	LYS A 159	-20.562	9.367	-0.017	1.00	96.12	C
ATOM	1232	CD	LYS A 159	-20.953	8.961	-1.433	1.00	96.12	C
ATOM	1233	CE	LYS A 159	-20.297	9.859	-2.473	1.00	96.12	C
ATOM	1234	NZ	LYS A 159	-20.672	9.453	-3.863	1.00	96.12	N
ATOM	1235	N	GLU A 160	-22.719	8.562	3.859	1.00	95.62	N
ATOM	1236	CA	GLU A 160	-23.609	7.859	4.773	1.00	95.62	C
ATOM	1237	C	GLU A 160	-25.016	7.758	4.195	1.00	95.62	C
ATOM	1238	CB	GLU A 160	-23.656	8.562	6.133	1.00	95.62	C
ATOM	1239	O	GLU A 160	-25.547	8.734	3.666	1.00	95.62	O
ATOM	1240	CG	GLU A 160	-24.562	7.875	7.152	1.00	95.62	C
ATOM	1241	CD	GLU A 160	-24.609	8.602	8.492	1.00	95.62	C
ATOM	1242	OE1	GLU A 160	-25.672	8.586	9.148	1.00	95.62	O
ATOM	1243	OE2	GLU A 160	-23.578	9.180	8.883	1.00	95.62	O
ATOM	1244	N	GLU A 161	-25.531	6.543	4.266	1.00	96.38	N
ATOM	1245	CA	GLU A 161	-26.906	6.297	3.824	1.00	96.38	C
ATOM	1246	C	GLU A 161	-27.688	5.488	4.859	1.00	96.38	C
ATOM	1247	CB	GLU A 161	-26.906	5.574	2.475	1.00	96.38	C
ATOM	1248	O	GLU A 161	-27.109	4.633	5.543	1.00	96.38	O
ATOM	1249	CG	GLU A 161	-26.281	6.375	1.344	1.00	96.38	C
ATOM	1250	CD	GLU A 161	-26.297	5.641	0.012	1.00	96.38	C
ATOM	1251	OE1	GLU A 161	-27.141	5.961	-0.854	1.00	96.38	O
ATOM	1252	OE2	GLU A 161	-25.453	4.734	-0.167	1.00	96.38	O
ATOM	1253	N	THR A 162	-28.906	5.934	5.016	1.00	94.88	N
ATOM	1254	CA	THR A 162	-29.766	5.227	5.953	1.00	94.88	C
ATOM	1255	C	THR A 162	-30.953	4.609	5.227	1.00	94.88	C
ATOM	1256	CB	THR A 162	-30.266	6.164	7.066	1.00	94.88	C
ATOM	1257	O	THR A 162	-31.578	5.254	4.371	1.00	94.88	O

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ATOM	1258	CG2 THR A 162	-31.125	5.406	8.078	1.00	94.88	C
ATOM	1259	OG1 THR A 162	-29.141	6.746	7.738	1.00	94.88	O
ATOM	1260	N GLU A 163	-31.062	3.352	5.461	1.00	94.81	N
ATOM	1261	CA GLU A 163	-32.188	2.631	4.902	1.00	94.81	C
ATOM	1262	C GLU A 163	-33.094	2.078	6.004	1.00	94.81	C
ATOM	1263	CB GLU A 163	-31.719	1.494	3.992	1.00	94.81	C
ATOM	1264	O GLU A 163	-32.625	1.483	6.969	1.00	94.81	O
ATOM	1265	CG GLU A 163	-32.844	0.772	3.268	1.00	94.81	C
ATOM	1266	CD GLU A 163	-32.375	-0.400	2.428	1.00	94.81	C
ATOM	1267	OE1 GLU A 163	-32.969	-1.500	2.527	1.00	94.81	O
ATOM	1268	OE2 GLU A 163	-31.391	-0.217	1.664	1.00	94.81	O
ATOM	1269	N LYS A 164	-34.406	2.416	5.902	1.00	95.00	N
ATOM	1270	CA LYS A 164	-35.375	1.909	6.852	1.00	95.00	C
ATOM	1271	C LYS A 164	-36.250	0.840	6.211	1.00	95.00	C
ATOM	1272	CB LYS A 164	-36.250	3.051	7.387	1.00	95.00	C
ATOM	1273	O LYS A 164	-36.719	1.004	5.078	1.00	95.00	O
ATOM	1274	CG LYS A 164	-35.469	4.086	8.195	1.00	95.00	C
ATOM	1275	CD LYS A 164	-36.406	5.188	8.711	1.00	95.00	C
ATOM	1276	CE LYS A 164	-35.625	6.250	9.477	1.00	95.00	C
ATOM	1277	NZ LYS A 164	-36.500	7.344	9.961	1.00	95.00	N
ATOM	1278	N LYS A 165	-36.281	-0.280	6.828	1.00	94.12	N
ATOM	1279	CA LYS A 165	-37.125	-1.368	6.367	1.00	94.12	C
ATOM	1280	C LYS A 165	-38.125	-1.779	7.445	1.00	94.12	C
ATOM	1281	CB LYS A 165	-36.281	-2.572	5.945	1.00	94.12	C
ATOM	1282	O LYS A 165	-37.781	-1.831	8.633	1.00	94.12	O
ATOM	1283	CG LYS A 165	-37.062	-3.641	5.191	1.00	94.12	C
ATOM	1284	CD LYS A 165	-36.156	-4.754	4.695	1.00	94.12	C
ATOM	1285	CE LYS A 165	-36.938	-5.836	3.963	1.00	94.12	C
ATOM	1286	NZ LYS A 165	-36.062	-6.938	3.484	1.00	94.12	N
ATOM	1287	N LYS A 166	-39.406	-1.824	7.020	1.00	94.81	N
ATOM	1288	CA LYS A 166	-40.500	-2.240	7.918	1.00	94.81	C
ATOM	1289	C LYS A 166	-41.156	-3.518	7.422	1.00	94.81	C
ATOM	1290	CB LYS A 166	-41.531	-1.127	8.070	1.00	94.81	C
ATOM	1291	O LYS A 166	-41.531	-3.613	6.250	1.00	94.81	O
ATOM	1292	CG LYS A 166	-42.594	-1.422	9.102	1.00	94.81	C
ATOM	1293	CD LYS A 166	-43.594	-0.267	9.219	1.00	94.81	C
ATOM	1294	CE LYS A 166	-44.688	-0.580	10.219	1.00	94.81	C
ATOM	1295	NZ LYS A 166	-45.656	0.553	10.352	1.00	94.81	N
ATOM	1296	N GLU A 167	-41.125	-4.551	8.211	1.00	94.19	N
ATOM	1297	CA GLU A 167	-41.781	-5.816	7.898	1.00	94.19	C
ATOM	1298	C GLU A 167	-42.812	-6.176	8.961	1.00	94.19	C
ATOM	1299	CB GLU A 167	-40.750	-6.941	7.758	1.00	94.19	C
ATOM	1300	O GLU A 167	-42.562	-6.031	10.164	1.00	94.19	O
ATOM	1301	CG GLU A 167	-39.812	-6.777	6.570	1.00	94.19	C
ATOM	1302	CD GLU A 167	-38.875	-7.949	6.383	1.00	94.19	C
ATOM	1303	OE1 GLU A 167	-39.000	-8.664	5.359	1.00	94.19	O
ATOM	1304	OE2 GLU A 167	-38.031	-8.164	7.270	1.00	94.19	O
ATOM	1305	N THR A 168	-44.031	-6.520	8.508	1.00	93.19	N
ATOM	1306	CA THR A 168	-45.094	-6.898	9.422	1.00	93.19	C
ATOM	1307	C THR A 168	-45.531	-8.344	9.188	1.00	93.19	C
ATOM	1308	CB THR A 168	-46.312	-5.973	9.266	1.00	93.19	C
ATOM	1309	O THR A 168	-45.594	-8.797	8.039	1.00	93.19	O
ATOM	1310	CG2 THR A 168	-47.375	-6.270	10.328	1.00	93.19	C

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ATOM	1311	OG1 THR A 168	-45.875	-4.609	9.391	1.00	93.19	O
ATOM	1312	N LYS A 169	-45.469	-9.023	10.273	1.00	92.19	N
ATOM	1313	CA LYS A 169	-46.000	-10.383	10.148	1.00	92.19	C
ATOM	1314	C LYS A 169	-46.969	-10.703	11.273	1.00	92.19	C
ATOM	1315	CB LYS A 169	-44.844	-11.391	10.164	1.00	92.19	C
ATOM	1316	O LYS A 169	-46.938	-10.094	12.344	1.00	92.19	O
ATOM	1317	CG LYS A 169	-44.156	-11.547	11.516	1.00	92.19	C
ATOM	1318	CD LYS A 169	-43.094	-12.617	11.484	1.00	92.19	C
ATOM	1319	CE LYS A 169	-42.438	-12.789	12.844	1.00	92.19	C
ATOM	1320	NZ LYS A 169	-41.344	-13.836	12.812	1.00	92.19	N
ATOM	1321	N THR A 170	-48.000	-11.523	11.008	1.00	91.00	N
ATOM	1322	CA THR A 170	-49.000	-11.922	11.992	1.00	91.00	C
ATOM	1323	C THR A 170	-48.750	-13.344	12.477	1.00	91.00	C
ATOM	1324	CB THR A 170	-50.438	-11.820	11.414	1.00	91.00	C
ATOM	1325	O THR A 170	-48.594	-14.258	11.672	1.00	91.00	O
ATOM	1326	CG2 THR A 170	-51.469	-12.102	12.484	1.00	91.00	C
ATOM	1327	OG1 THR A 170	-50.656	-10.508	10.883	1.00	91.00	O
ATOM	1328	N VAL A 171	-48.406	-13.430	13.773	1.00	85.44	N
ATOM	1329	CA VAL A 171	-48.312	-14.758	14.367	1.00	85.44	C
ATOM	1330	C VAL A 171	-49.312	-14.906	15.500	1.00	85.44	C
ATOM	1331	CB VAL A 171	-46.875	-15.016	14.898	1.00	85.44	C
ATOM	1332	O VAL A 171	-49.344	-14.102	16.438	1.00	85.44	O
ATOM	1333	CG1 VAL A 171	-46.750	-16.422	15.492	1.00	85.44	C
ATOM	1334	CG2 VAL A 171	-45.844	-14.820	13.789	1.00	85.44	C
ATOM	1335	N ASN A 172	-50.188	-15.938	15.484	1.00	87.69	N
ATOM	1336	CA ASN A 172	-51.125	-16.312	16.516	1.00	87.69	C
ATOM	1337	C ASN A 172	-51.938	-15.117	17.031	1.00	87.69	C
ATOM	1338	CB ASN A 172	-50.406	-17.000	17.688	1.00	87.69	C
ATOM	1339	O ASN A 172	-52.031	-14.891	18.234	1.00	87.69	O
ATOM	1340	CG ASN A 172	-49.844	-18.359	17.312	1.00	87.69	C
ATOM	1341	ND2 ASN A 172	-48.781	-18.750	17.969	1.00	87.69	N
ATOM	1342	OD1 ASN A 172	-50.375	-19.031	16.422	1.00	87.69	O
ATOM	1343	N ASN A 173	-52.469	-14.258	16.078	1.00	87.31	N
ATOM	1344	CA ASN A 173	-53.344	-13.125	16.328	1.00	87.31	C
ATOM	1345	C ASN A 173	-52.594	-11.953	16.953	1.00	87.31	C
ATOM	1346	CB ASN A 173	-54.500	-13.539	17.234	1.00	87.31	C
ATOM	1347	O ASN A 173	-53.188	-11.117	17.641	1.00	87.31	O
ATOM	1348	CG ASN A 173	-55.844	-13.289	16.609	1.00	87.31	C
ATOM	1349	ND2 ASN A 173	-56.906	-13.227	17.422	1.00	87.31	N
ATOM	1350	OD1 ASN A 173	-55.969	-13.141	15.383	1.00	87.31	O
ATOM	1351	N THR A 174	-51.281	-12.086	16.953	1.00	88.44	N
ATOM	1352	CA THR A 174	-50.406	-10.984	17.328	1.00	88.44	C
ATOM	1353	C THR A 174	-49.750	-10.391	16.094	1.00	88.44	C
ATOM	1354	CB THR A 174	-49.344	-11.438	18.344	1.00	88.44	C
ATOM	1355	O THR A 174	-49.125	-11.117	15.312	1.00	88.44	O
ATOM	1356	CG2 THR A 174	-48.531	-10.258	18.828	1.00	88.44	C
ATOM	1357	OG1 THR A 174	-50.000	-12.047	19.469	1.00	88.44	O
ATOM	1358	N LYS A 175	-49.938	-9.156	15.859	1.00	90.25	N
ATOM	1359	CA LYS A 175	-49.219	-8.406	14.820	1.00	90.25	C
ATOM	1360	C LYS A 175	-47.812	-8.016	15.281	1.00	90.25	C
ATOM	1361	CB LYS A 175	-50.000	-7.152	14.430	1.00	90.25	C
ATOM	1362	O LYS A 175	-47.656	-7.367	16.312	1.00	90.25	O
ATOM	1363	CG LYS A 175	-49.469	-6.430	13.211	1.00	90.25	C

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ATOM	1364	CD	LYS A 175	-50.344	-5.242	12.828	1.00	90.25	C
ATOM	1365	CE	LYS A 175	-49.781	-4.504	11.617	1.00	90.25	C
ATOM	1366	NZ	LYS A 175	-50.625	-3.357	11.211	1.00	90.25	N
ATOM	1367	N	ILE A 176	-46.875	-8.547	14.641	1.00	92.06	N
ATOM	1368	CA	ILE A 176	-45.500	-8.195	14.953	1.00	92.06	C
ATOM	1369	C	ILE A 176	-44.906	-7.316	13.844	1.00	92.06	C
ATOM	1370	CB	ILE A 176	-44.625	-9.453	15.148	1.00	92.06	C
ATOM	1371	O	ILE A 176	-44.938	-7.703	12.672	1.00	92.06	O
ATOM	1372	CG1	ILE A 176	-45.219	-10.352	16.234	1.00	92.06	C
ATOM	1373	CG2	ILE A 176	-43.188	-9.062	15.477	1.00	92.06	C
ATOM	1374	CD1	ILE A 176	-44.562	-11.742	16.312	1.00	92.06	C
ATOM	1375	N	THR A 177	-44.469	-6.176	14.219	1.00	92.88	N
ATOM	1376	CA	THR A 177	-43.844	-5.246	13.297	1.00	92.88	C
ATOM	1377	C	THR A 177	-42.344	-5.113	13.617	1.00	92.88	C
ATOM	1378	CB	THR A 177	-44.500	-3.859	13.352	1.00	92.88	C
ATOM	1379	O	THR A 177	-41.969	-4.812	14.750	1.00	92.88	O
ATOM	1380	CG2	THR A 177	-43.875	-2.914	12.320	1.00	92.88	C
ATOM	1381	OG1	THR A 177	-45.906	-3.996	13.078	1.00	92.88	O
ATOM	1382	N	LYS A 178	-41.562	-5.480	12.703	1.00	91.75	N
ATOM	1383	CA	LYS A 178	-40.125	-5.289	12.828	1.00	91.75	C
ATOM	1384	C	LYS A 178	-39.656	-4.082	12.023	1.00	91.75	C
ATOM	1385	CB	LYS A 178	-39.375	-6.547	12.375	1.00	91.75	C
ATOM	1386	O	LYS A 178	-39.906	-4.012	10.812	1.00	91.75	O
ATOM	1387	CG	LYS A 178	-37.875	-6.508	12.648	1.00	91.75	C
ATOM	1388	CD	LYS A 178	-37.219	-7.816	12.258	1.00	91.75	C
ATOM	1389	CE	LYS A 178	-35.719	-7.785	12.539	1.00	91.75	C
ATOM	1390	NZ	LYS A 178	-35.062	-9.078	12.180	1.00	91.75	N
ATOM	1391	N	GLU A 179	-39.094	-3.189	12.625	1.00	94.50	N
ATOM	1392	CA	GLU A 179	-38.500	-2.004	11.992	1.00	94.50	C
ATOM	1393	C	GLU A 179	-36.969	-2.057	12.016	1.00	94.50	C
ATOM	1394	CB	GLU A 179	-39.000	-0.733	12.688	1.00	94.50	C
ATOM	1395	O	GLU A 179	-36.375	-2.145	13.086	1.00	94.50	O
ATOM	1396	CG	GLU A 179	-40.500	-0.526	12.594	1.00	94.50	C
ATOM	1397	CD	GLU A 179	-40.969	0.767	13.242	1.00	94.50	C
ATOM	1398	OE1	GLU A 179	-42.000	1.335	12.797	1.00	94.50	O
ATOM	1399	OE2	GLU A 179	-40.312	1.216	14.211	1.00	94.50	O
ATOM	1400	N	THR A 180	-36.406	-2.113	10.922	1.00	91.69	N
ATOM	1401	CA	THR A 180	-34.938	-2.176	10.828	1.00	91.69	C
ATOM	1402	C	THR A 180	-34.406	-0.895	10.211	1.00	91.69	C
ATOM	1403	CB	THR A 180	-34.500	-3.389	9.992	1.00	91.69	C
ATOM	1404	O	THR A 180	-34.875	-0.438	9.172	1.00	91.69	O
ATOM	1405	CG2	THR A 180	-32.969	-3.516	9.992	1.00	91.69	C
ATOM	1406	OG1	THR A 180	-35.062	-4.582	10.555	1.00	91.69	O
ATOM	1407	N	THR A 181	-33.500	-0.300	10.859	1.00	92.25	N
ATOM	1408	CA	THR A 181	-32.750	0.819	10.328	1.00	92.25	C
ATOM	1409	C	THR A 181	-31.297	0.406	10.055	1.00	92.25	C
ATOM	1410	CB	THR A 181	-32.750	2.023	11.281	1.00	92.25	C
ATOM	1411	O	THR A 181	-30.609	-0.077	10.953	1.00	92.25	O
ATOM	1412	CG2	THR A 181	-32.000	3.211	10.695	1.00	92.25	C
ATOM	1413	OG1	THR A 181	-34.125	2.406	11.531	1.00	92.25	O
ATOM	1414	N	THR A 182	-30.922	0.483	8.805	1.00	92.12	N
ATOM	1415	CA	THR A 182	-29.547	0.150	8.453	1.00	92.12	C
ATOM	1416	C	THR A 182	-28.766	1.401	8.039	1.00	92.12	C

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ATOM	1417	CB	THR A 182	-29.500	-0.882	7.309	1.00	92.12	C
ATOM	1418	O	THR A 182	-29.172	2.104	7.105	1.00	92.12	O
ATOM	1419	CG2	THR A 182	-28.062	-1.286	6.988	1.00	92.12	C
ATOM	1420	OG1	THR A 182	-30.234	-2.049	7.695	1.00	92.12	O
ATOM	1421	N	LYS A 183	-27.812	1.624	8.773	1.00	93.06	N
ATOM	1422	CA	LYS A 183	-26.875	2.691	8.430	1.00	93.06	C
ATOM	1423	C	LYS A 183	-25.656	2.139	7.684	1.00	93.06	C
ATOM	1424	CB	LYS A 183	-26.422	3.436	9.688	1.00	93.06	C
ATOM	1425	O	LYS A 183	-24.984	1.224	8.172	1.00	93.06	O
ATOM	1426	CG	LYS A 183	-27.500	4.301	10.312	1.00	93.06	C
ATOM	1427	CD	LYS A 183	-26.969	5.074	11.516	1.00	93.06	C
ATOM	1428	CE	LYS A 183	-28.094	5.816	12.234	1.00	93.06	C
ATOM	1429	NZ	LYS A 183	-27.562	6.633	13.375	1.00	93.06	N
ATOM	1430	N	THR A 184	-25.469	2.600	6.445	1.00	94.75	N
ATOM	1431	CA	THR A 184	-24.312	2.170	5.664	1.00	94.75	C
ATOM	1432	C	THR A 184	-23.312	3.307	5.512	1.00	94.75	C
ATOM	1433	CB	THR A 184	-24.734	1.669	4.270	1.00	94.75	C
ATOM	1434	O	THR A 184	-23.641	4.379	5.012	1.00	94.75	O
ATOM	1435	CG2	THR A 184	-23.531	1.171	3.475	1.00	94.75	C
ATOM	1436	OG1	THR A 184	-25.672	0.596	4.418	1.00	94.75	O
ATOM	1437	N	ILE A 185	-22.188	3.105	5.945	1.00	94.75	N
ATOM	1438	CA	ILE A 185	-21.094	4.059	5.793	1.00	94.75	C
ATOM	1439	C	ILE A 185	-20.141	3.592	4.695	1.00	94.75	C
ATOM	1440	CB	ILE A 185	-20.312	4.250	7.121	1.00	94.75	C
ATOM	1441	O	ILE A 185	-19.594	2.490	4.770	1.00	94.75	O
ATOM	1442	CG1	ILE A 185	-21.281	4.672	8.242	1.00	94.75	C
ATOM	1443	CG2	ILE A 185	-19.188	5.273	6.949	1.00	94.75	C
ATOM	1444	CD1	ILE A 185	-20.656	4.648	9.633	1.00	94.75	C
ATOM	1445	N	THR A 186	-20.062	4.359	3.664	1.00	96.19	N
ATOM	1446	CA	THR A 186	-19.156	4.043	2.572	1.00	96.19	C
ATOM	1447	C	THR A 186	-17.891	4.898	2.662	1.00	96.19	C
ATOM	1448	CB	THR A 186	-19.828	4.258	1.202	1.00	96.19	C
ATOM	1449	O	THR A 186	-17.969	6.129	2.721	1.00	96.19	O
ATOM	1450	CG2	THR A 186	-18.891	3.857	0.065	1.00	96.19	C
ATOM	1451	OG1	THR A 186	-21.016	3.459	1.130	1.00	96.19	O
ATOM	1452	N	ILE A 187	-16.734	4.270	2.662	1.00	96.50	N
ATOM	1453	CA	ILE A 187	-15.453	4.961	2.797	1.00	96.50	C
ATOM	1454	C	ILE A 187	-14.594	4.688	1.569	1.00	96.50	C
ATOM	1455	CB	ILE A 187	-14.711	4.527	4.082	1.00	96.50	C
ATOM	1456	O	ILE A 187	-14.367	3.531	1.201	1.00	96.50	O
ATOM	1457	CG1	ILE A 187	-15.594	4.770	5.312	1.00	96.50	C
ATOM	1458	CG2	ILE A 187	-13.383	5.270	4.211	1.00	96.50	C
ATOM	1459	CD1	ILE A 187	-15.102	4.070	6.574	1.00	96.50	C
ATOM	1460	N	ASP A 188	-14.203	5.680	0.911	1.00	97.25	N
ATOM	1461	CA	ASP A 188	-13.266	5.578	-0.199	1.00	97.25	C
ATOM	1462	C	ASP A 188	-11.852	5.961	0.242	1.00	97.25	C
ATOM	1463	CB	ASP A 188	-13.711	6.461	-1.366	1.00	97.25	C
ATOM	1464	O	ASP A 188	-11.641	7.055	0.770	1.00	97.25	O
ATOM	1465	CG	ASP A 188	-14.984	5.969	-2.027	1.00	97.25	C
ATOM	1466	OD1	ASP A 188	-15.273	4.754	-1.964	1.00	97.25	O
ATOM	1467	OD2	ASP A 188	-15.703	6.801	-2.617	1.00	97.25	O
ATOM	1468	N	LEU A 189	-10.891	5.027	0.078	1.00	97.44	N
ATOM	1469	CA	LEU A 189	-9.500	5.262	0.469	1.00	97.44	C

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ATOM	1470	C	LEU A 189	-8.570	5.117	-0.728	1.00	97.44	C
ATOM	1471	CB	LEU A 189	-9.086	4.289	1.576	1.00	97.44	C
ATOM	1472	O	LEU A 189	-8.789	4.270	-1.595	1.00	97.44	O
ATOM	1473	CG	LEU A 189	-9.781	4.461	2.928	1.00	97.44	C
ATOM	1474	CD1	LEU A 189	-9.344	3.365	3.893	1.00	97.44	C
ATOM	1475	CD2	LEU A 189	-9.492	5.840	3.508	1.00	97.44	C
ATOM	1476	N	LYS A 190	-7.680	6.051	-0.767	1.00	97.94	N
ATOM	1477	CA	LYS A 190	-6.566	5.891	-1.698	1.00	97.94	C
ATOM	1478	C	LYS A 190	-5.254	5.656	-0.953	1.00	97.94	C
ATOM	1479	CB	LYS A 190	-6.441	7.121	-2.600	1.00	97.94	C
ATOM	1480	O	LYS A 190	-4.910	6.406	-0.037	1.00	97.94	O
ATOM	1481	CG	LYS A 190	-5.457	6.953	-3.746	1.00	97.94	C
ATOM	1482	CD	LYS A 190	-5.465	8.164	-4.672	1.00	97.94	C
ATOM	1483	CE	LYS A 190	-4.465	8.000	-5.812	1.00	97.94	C
ATOM	1484	NZ	LYS A 190	-4.488	9.172	-6.742	1.00	97.94	N
ATOM	1485	N	ILE A 191	-4.484	4.617	-1.443	1.00	98.06	N
ATOM	1486	CA	ILE A 191	-3.191	4.316	-0.841	1.00	98.06	C
ATOM	1487	C	ILE A 191	-2.102	4.367	-1.908	1.00	98.06	C
ATOM	1488	CB	ILE A 191	-3.201	2.934	-0.152	1.00	98.06	C
ATOM	1489	O	ILE A 191	-2.154	3.635	-2.898	1.00	98.06	O
ATOM	1490	CG1	ILE A 191	-4.297	2.875	0.917	1.00	98.06	C
ATOM	1491	CG2	ILE A 191	-1.828	2.625	0.455	1.00	98.06	C
ATOM	1492	CD1	ILE A 191	-4.488	1.497	1.536	1.00	98.06	C
ATOM	1493	N	ASP A 192	-1.231	5.309	-1.713	1.00	97.94	N
ATOM	1494	CA	ASP A 192	-0.084	5.395	-2.611	1.00	97.94	C
ATOM	1495	C	ASP A 192	1.146	4.730	-1.996	1.00	97.94	C
ATOM	1496	CB	ASP A 192	0.221	6.855	-2.951	1.00	97.94	C
ATOM	1497	O	ASP A 192	1.582	5.109	-0.907	1.00	97.94	O
ATOM	1498	CG	ASP A 192	-0.875	7.516	-3.768	1.00	97.94	C
ATOM	1499	OD1	ASP A 192	-1.191	7.027	-4.875	1.00	97.94	O
ATOM	1500	OD2	ASP A 192	-1.426	8.539	-3.305	1.00	97.94	O
ATOM	1501	N	ILE A 193	1.693	3.770	-2.727	1.00	96.88	N
ATOM	1502	CA	ILE A 193	2.900	3.096	-2.264	1.00	96.88	C
ATOM	1503	C	ILE A 193	4.043	3.354	-3.242	1.00	96.88	C
ATOM	1504	CB	ILE A 193	2.670	1.576	-2.096	1.00	96.88	C
ATOM	1505	O	ILE A 193	3.951	3.006	-4.422	1.00	96.88	O
ATOM	1506	CG1	ILE A 193	1.526	1.315	-1.110	1.00	96.88	C
ATOM	1507	CG2	ILE A 193	3.957	0.882	-1.639	1.00	96.88	C
ATOM	1508	CD1	ILE A 193	1.116	-0.148	-1.012	1.00	96.88	C
ATOM	1509	N	THR A 194	5.047	3.998	-2.707	1.00	96.12	N
ATOM	1510	CA	THR A 194	6.242	4.246	-3.504	1.00	96.12	C
ATOM	1511	C	THR A 194	7.422	3.436	-2.979	1.00	96.12	C
ATOM	1512	CB	THR A 194	6.609	5.742	-3.512	1.00	96.12	C
ATOM	1513	O	THR A 194	7.762	3.516	-1.795	1.00	96.12	O
ATOM	1514	CG2	THR A 194	7.758	6.023	-4.473	1.00	96.12	C
ATOM	1515	OG1	THR A 194	5.465	6.508	-3.916	1.00	96.12	O
ATOM	1516	N	GLU A 195	8.047	2.660	-3.867	1.00	95.38	N
ATOM	1517	CA	GLU A 195	9.234	1.887	-3.500	1.00	95.38	C
ATOM	1518	C	GLU A 195	10.469	2.369	-4.262	1.00	95.38	C
ATOM	1519	CB	GLU A 195	9.000	0.396	-3.764	1.00	95.38	C
ATOM	1520	O	GLU A 195	10.406	2.588	-5.473	1.00	95.38	O
ATOM	1521	CG	GLU A 195	7.902	-0.215	-2.912	1.00	95.38	C
ATOM	1522	CD	GLU A 195	7.633	-1.676	-3.236	1.00	95.38	C

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ATOM	1523	OE1 GLU A 195	7.711	-2.525	-2.320	1.00	95.38	O
ATOM	1524	OE2 GLU A 195	7.340	-1.973	-4.414	1.00	95.38	O
ATOM	1525	N SER A 196	11.477	2.613	-3.457	1.00	95.62	N
ATOM	1526	CA SER A 196	12.727	3.020	-4.094	1.00	95.62	C
ATOM	1527	C SER A 196	13.922	2.273	-3.504	1.00	95.62	C
ATOM	1528	CB SER A 196	12.938	4.527	-3.953	1.00	95.62	C
ATOM	1529	O SER A 196	13.898	1.885	-2.334	1.00	95.62	O
ATOM	1530	OG SER A 196	12.992	4.898	-2.586	1.00	95.62	O
ATOM	1531	N GLY A 197	14.875	1.939	-4.359	1.00	93.94	N
ATOM	1532	CA GLY A 197	16.094	1.279	-3.932	1.00	93.94	C
ATOM	1533	C GLY A 197	17.344	1.824	-4.609	1.00	93.94	C
ATOM	1534	O GLY A 197	17.266	2.361	-5.719	1.00	93.94	O
ATOM	1535	N HIS A 198	18.438	1.811	-3.717	1.00	92.81	N
ATOM	1536	CA HIS A 198	19.734	2.234	-4.234	1.00	92.81	C
ATOM	1537	C HIS A 198	20.828	1.229	-3.885	1.00	92.81	C
ATOM	1538	CB HIS A 198	20.094	3.617	-3.695	1.00	92.81	C
ATOM	1539	O HIS A 198	20.891	0.757	-2.748	1.00	92.81	O
ATOM	1540	CG HIS A 198	21.391	4.141	-4.219	1.00	92.81	C
ATOM	1541	CD2 HIS A 198	22.609	4.273	-3.629	1.00	92.81	C
ATOM	1542	ND1 HIS A 198	21.547	4.609	-5.508	1.00	92.81	N
ATOM	1543	CE1 HIS A 198	22.797	5.008	-5.688	1.00	92.81	C
ATOM	1544	NE2 HIS A 198	23.453	4.812	-4.562	1.00	92.81	N
ATOM	1545	N TYR A 199	21.531	0.835	-4.922	1.00	90.69	N
ATOM	1546	CA TYR A 199	22.672	-0.067	-4.766	1.00	90.69	C
ATOM	1547	C TYR A 199	23.969	0.626	-5.145	1.00	90.69	C
ATOM	1548	CB TYR A 199	22.484	-1.322	-5.625	1.00	90.69	C
ATOM	1549	O TYR A 199	24.047	1.282	-6.188	1.00	90.69	O
ATOM	1550	CG TYR A 199	23.672	-2.246	-5.621	1.00	90.69	C
ATOM	1551	CD1 TYR A 199	24.641	-2.160	-6.617	1.00	90.69	C
ATOM	1552	CD2 TYR A 199	23.828	-3.207	-4.629	1.00	90.69	C
ATOM	1553	CE1 TYR A 199	25.750	-3.010	-6.621	1.00	90.69	C
ATOM	1554	CE2 TYR A 199	24.922	-4.062	-4.625	1.00	90.69	C
ATOM	1555	OH TYR A 199	26.969	-4.801	-5.621	1.00	90.69	O
ATOM	1556	CZ TYR A 199	25.875	-3.957	-5.621	1.00	90.69	C
ATOM	1557	N GLU A 200	24.938	0.447	-4.176	1.00	89.19	N
ATOM	1558	CA GLU A 200	26.250	0.990	-4.480	1.00	89.19	C
ATOM	1559	C GLU A 200	27.344	-0.061	-4.277	1.00	89.19	C
ATOM	1560	CB GLU A 200	26.531	2.219	-3.611	1.00	89.19	C
ATOM	1561	O GLU A 200	27.328	-0.791	-3.283	1.00	89.19	O
ATOM	1562	CG GLU A 200	27.750	3.021	-4.066	1.00	89.19	C
ATOM	1563	CD GLU A 200	27.906	4.344	-3.328	1.00	89.19	C
ATOM	1564	OE1 GLU A 200	28.797	5.137	-3.684	1.00	89.19	O
ATOM	1565	OE2 GLU A 200	27.109	4.586	-2.385	1.00	89.19	O
ATOM	1566	N SER A 201	28.203	-0.226	-5.266	1.00	86.31	N
ATOM	1567	CA SER A 201	29.344	-1.112	-5.125	1.00	86.31	C
ATOM	1568	C SER A 201	30.656	-0.377	-5.426	1.00	86.31	C
ATOM	1569	CB SER A 201	29.219	-2.320	-6.055	1.00	86.31	C
ATOM	1570	O SER A 201	30.672	0.547	-6.238	1.00	86.31	O
ATOM	1571	OG SER A 201	29.422	-1.945	-7.402	1.00	86.31	O
ATOM	1572	N TYR A 202	31.766	-0.702	-4.539	1.00	76.94	N
ATOM	1573	CA TYR A 202	33.125	-0.217	-4.770	1.00	76.94	C
ATOM	1574	C TYR A 202	34.031	-1.345	-5.246	1.00	76.94	C
ATOM	1575	CB TYR A 202	33.688	0.410	-3.494	1.00	76.94	C

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ATOM	1576	O	TYR A 202	34.156	-2.367	-4.570	1.00	76.94	O
ATOM	1577	CG	TYR A 202	34.688	1.503	-3.754	1.00	76.94	C
ATOM	1578	CD1	TYR A 202	36.062	1.242	-3.701	1.00	76.94	C
ATOM	1579	CD2	TYR A 202	34.281	2.797	-4.051	1.00	76.94	C
ATOM	1580	CE1	TYR A 202	37.000	2.246	-3.938	1.00	76.94	C
ATOM	1581	CE2	TYR A 202	35.219	3.809	-4.289	1.00	76.94	C
ATOM	1582	OH	TYR A 202	37.469	4.523	-4.465	1.00	76.94	O
ATOM	1583	CZ	TYR A 202	36.562	3.523	-4.230	1.00	76.94	C
ATOM	1584	N	LEU A 203	34.469	-1.278	-6.547	1.00	72.06	N
ATOM	1585	CA	LEU A 203	35.406	-2.281	-7.035	1.00	72.06	C
ATOM	1586	C	LEU A 203	36.812	-1.949	-6.594	1.00	72.06	C
ATOM	1587	CB	LEU A 203	35.344	-2.379	-8.562	1.00	72.06	C
ATOM	1588	O	LEU A 203	37.281	-0.825	-6.789	1.00	72.06	O
ATOM	1589	CG	LEU A 203	34.000	-2.857	-9.156	1.00	72.06	C
ATOM	1590	CD1	LEU A 203	34.031	-2.684	-10.672	1.00	72.06	C
ATOM	1591	CD2	LEU A 203	33.750	-4.312	-8.773	1.00	72.06	C
ENDMDL									
END									
ATOM	1	N	MET A 8	44.938	3.578	-39.375	1.00	86.56	N
ATOM	2	CA	MET A 8	43.656	4.098	-38.906	1.00	86.56	C
ATOM	3	C	MET A 8	43.625	4.125	-37.375	1.00	86.56	C
ATOM	4	CB	MET A 8	42.500	3.256	-39.469	1.00	86.56	C
ATOM	5	O	MET A 8	44.188	3.246	-36.719	1.00	86.56	O
ATOM	6	CG	MET A 8	41.156	3.891	-39.250	1.00	86.56	C
ATOM	7	SD	MET A 8	39.781	2.867	-39.969	1.00	86.56	S
ATOM	8	CE	MET A 8	40.094	3.070	-41.719	1.00	86.56	C
ATOM	9	N	ILE A 9	43.094	5.199	-36.844	1.00	89.12	N
ATOM	10	CA	ILE A 9	42.875	5.375	-35.406	1.00	89.12	C
ATOM	11	C	ILE A 9	41.375	5.383	-35.125	1.00	89.12	C
ATOM	12	CB	ILE A 9	43.500	6.680	-34.906	1.00	89.12	C
ATOM	13	O	ILE A 9	40.594	6.121	-35.781	1.00	89.12	O
ATOM	14	CG1	ILE A 9	45.031	6.641	-35.094	1.00	89.12	C
ATOM	15	CG2	ILE A 9	43.188	6.898	-33.406	1.00	89.12	C
ATOM	16	CD1	ILE A 9	45.719	7.953	-34.781	1.00	89.12	C
ATOM	17	N	VAL A 10	40.906	4.496	-34.250	1.00	91.31	N
ATOM	18	CA	VAL A 10	39.531	4.441	-33.781	1.00	91.31	C
ATOM	19	C	VAL A 10	39.438	4.977	-32.344	1.00	91.31	C
ATOM	20	CB	VAL A 10	38.969	3.008	-33.844	1.00	91.31	C
ATOM	21	O	VAL A 10	40.062	4.430	-31.438	1.00	91.31	O
ATOM	22	CG1	VAL A 10	37.500	2.979	-33.375	1.00	91.31	C
ATOM	23	CG2	VAL A 10	39.094	2.455	-35.281	1.00	91.31	C
ATOM	24	N	ASN A 11	38.719	6.125	-32.188	1.00	92.31	N
ATOM	25	CA	ASN A 11	38.406	6.688	-30.875	1.00	92.31	C
ATOM	26	C	ASN A 11	37.000	6.305	-30.422	1.00	92.31	C
ATOM	27	CB	ASN A 11	38.562	8.211	-30.906	1.00	92.31	C
ATOM	28	O	ASN A 11	36.031	6.586	-31.109	1.00	92.31	O
ATOM	29	CG	ASN A 11	40.000	8.648	-31.031	1.00	92.31	C
ATOM	30	ND2	ASN A 11	40.219	9.805	-31.641	1.00	92.31	N
ATOM	31	OD1	ASN A 11	40.938	7.953	-30.594	1.00	92.31	O
ATOM	32	N	VAL A 12	36.938	5.645	-29.281	1.00	93.50	N
ATOM	33	CA	VAL A 12	35.656	5.227	-28.734	1.00	93.50	C
ATOM	34	C	VAL A 12	35.375	6.023	-27.469	1.00	93.50	C
ATOM	35	CB	VAL A 12	35.625	3.713	-28.438	1.00	93.50	C

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ATOM	36	O	VAL A 12	36.156	6.008	-26.516	1.00	93.50	O
ATOM	37	CG1	VAL A 12	34.250	3.285	-27.922	1.00	93.50	C
ATOM	38	CG2	VAL A 12	36.031	2.912	-29.672	1.00	93.50	C
ATOM	39	N	LYS A 13	34.250	6.805	-27.453	1.00	94.69	N
ATOM	40	CA	LYS A 13	33.750	7.535	-26.297	1.00	94.69	C
ATOM	41	C	LYS A 13	32.438	6.969	-25.812	1.00	94.69	C
ATOM	42	CB	LYS A 13	33.594	9.023	-26.625	1.00	94.69	C
ATOM	43	O	LYS A 13	31.453	6.945	-26.578	1.00	94.69	O
ATOM	44	CG	LYS A 13	34.938	9.727	-26.938	1.00	94.69	C
ATOM	45	CD	LYS A 13	34.719	11.219	-27.172	1.00	94.69	C
ATOM	46	CE	LYS A 13	36.031	11.914	-27.516	1.00	94.69	C
ATOM	47	NZ	LYS A 13	35.844	13.375	-27.750	1.00	94.69	N
ATOM	48	N	VAL A 14	32.469	6.492	-24.641	1.00	95.44	N
ATOM	49	CA	VAL A 14	31.234	5.914	-24.062	1.00	95.44	C
ATOM	50	C	VAL A 14	30.781	6.738	-22.859	1.00	95.44	C
ATOM	51	CB	VAL A 14	31.453	4.441	-23.656	1.00	95.44	C
ATOM	52	O	VAL A 14	31.562	6.992	-21.953	1.00	95.44	O
ATOM	53	CG1	VAL A 14	30.156	3.850	-23.078	1.00	95.44	C
ATOM	54	CG2	VAL A 14	31.938	3.617	-24.844	1.00	95.44	C
ATOM	55	N	LYS A 15	29.578	7.230	-22.938	1.00	96.62	N
ATOM	56	CA	LYS A 15	28.922	7.934	-21.844	1.00	96.62	C
ATOM	57	C	LYS A 15	27.734	7.125	-21.297	1.00	96.62	C
ATOM	58	CB	LYS A 15	28.438	9.312	-22.297	1.00	96.62	C
ATOM	59	O	LYS A 15	26.812	6.781	-22.047	1.00	96.62	O
ATOM	60	CG	LYS A 15	27.875	10.180	-21.172	1.00	96.62	C
ATOM	61	CD	LYS A 15	27.438	11.539	-21.688	1.00	96.62	C
ATOM	62	CE	LYS A 15	26.844	12.398	-20.578	1.00	96.62	C
ATOM	63	NZ	LYS A 15	26.438	13.742	-21.078	1.00	96.62	N
ATOM	64	N	VAL A 16	27.844	6.766	-19.969	1.00	96.38	N
ATOM	65	CA	VAL A 16	26.766	6.020	-19.312	1.00	96.38	C
ATOM	66	C	VAL A 16	26.047	6.914	-18.312	1.00	96.38	C
ATOM	67	CB	VAL A 16	27.297	4.746	-18.625	1.00	96.38	C
ATOM	68	O	VAL A 16	26.672	7.410	-17.359	1.00	96.38	O
ATOM	69	CG1	VAL A 16	26.156	3.980	-17.953	1.00	96.38	C
ATOM	70	CG2	VAL A 16	28.016	3.854	-19.625	1.00	96.38	C
ATOM	71	N	GLU A 17	24.797	7.152	-18.547	1.00	96.56	N
ATOM	72	CA	GLU A 17	23.938	7.898	-17.641	1.00	96.56	C
ATOM	73	C	GLU A 17	22.922	6.980	-16.969	1.00	96.56	C
ATOM	74	CB	GLU A 17	23.219	9.031	-18.375	1.00	96.56	C
ATOM	75	O	GLU A 17	22.094	6.352	-17.641	1.00	96.56	O
ATOM	76	CG	GLU A 17	22.469	9.992	-17.453	1.00	96.56	C
ATOM	77	CD	GLU A 17	21.844	11.164	-18.203	1.00	96.56	C
ATOM	78	OE1	GLU A 17	21.141	11.977	-17.562	1.00	96.56	O
ATOM	79	OE2	GLU A 17	22.062	11.273	-19.422	1.00	96.56	O
ATOM	80	N	LEU A 18	23.016	6.914	-15.648	1.00	96.50	N
ATOM	81	CA	LEU A 18	22.094	6.082	-14.875	1.00	96.50	C
ATOM	82	C	LEU A 18	21.188	6.945	-14.008	1.00	96.50	C
ATOM	83	CB	LEU A 18	22.859	5.090	-14.008	1.00	96.50	C
ATOM	84	O	LEU A 18	21.656	7.832	-13.297	1.00	96.50	O
ATOM	85	CG	LEU A 18	23.734	4.074	-14.742	1.00	96.50	C
ATOM	86	CD1	LEU A 18	24.734	3.432	-13.781	1.00	96.50	C
ATOM	87	CD2	LEU A 18	22.875	3.016	-15.414	1.00	96.50	C
ATOM	88	N	GLU A 19	19.938	6.719	-14.148	1.00	97.00	N

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ATOM	89	CA	GLU	A	19	18.953	7.375	-13.297	1.00	97.00	C
ATOM	90	C	GLU	A	19	18.062	6.352	-12.586	1.00	97.00	C
ATOM	91	CB	GLU	A	19	18.078	8.336	-14.117	1.00	97.00	C
ATOM	92	O	GLU	A	19	17.500	5.453	-13.227	1.00	97.00	O
ATOM	93	CG	GLU	A	19	17.125	9.164	-13.281	1.00	97.00	C
ATOM	94	CD	GLU	A	19	16.297	10.141	-14.102	1.00	97.00	C
ATOM	95	OE1	GLU	A	19	15.352	10.750	-13.555	1.00	97.00	O
ATOM	96	OE2	GLU	A	19	16.609	10.305	-15.305	1.00	97.00	O
ATOM	97	N	ALA	A	20	18.047	6.418	-11.297	1.00	97.50	N
ATOM	98	CA	ALA	A	20	17.188	5.570	-10.477	1.00	97.50	C
ATOM	99	C	ALA	A	20	16.266	6.410	-9.594	1.00	97.50	C
ATOM	100	CB	ALA	A	20	18.031	4.625	-9.625	1.00	97.50	C
ATOM	101	O	ALA	A	20	16.719	7.383	-8.977	1.00	97.50	O
ATOM	102	N	LYS	A	21	15.000	6.074	-9.641	1.00	97.62	N
ATOM	103	CA	LYS	A	21	13.992	6.789	-8.859	1.00	97.62	C
ATOM	104	C	LYS	A	21	13.102	5.820	-8.086	1.00	97.62	C
ATOM	105	CB	LYS	A	21	13.133	7.664	-9.773	1.00	97.62	C
ATOM	106	O	LYS	A	21	12.734	4.762	-8.594	1.00	97.62	O
ATOM	107	CG	LYS	A	21	12.125	8.539	-9.031	1.00	97.62	C
ATOM	108	CD	LYS	A	21	11.320	9.406	-9.992	1.00	97.62	C
ATOM	109	CE	LYS	A	21	10.297	10.250	-9.258	1.00	97.62	C
ATOM	110	NZ	LYS	A	21	9.500	11.102	-10.195	1.00	97.62	N
ATOM	111	N	ALA	A	22	12.867	6.070	-6.836	1.00	96.81	N
ATOM	112	CA	ALA	A	22	11.961	5.281	-6.008	1.00	96.81	C
ATOM	113	C	ALA	A	22	10.938	6.176	-5.309	1.00	96.81	C
ATOM	114	CB	ALA	A	22	12.742	4.469	-4.980	1.00	96.81	C
ATOM	115	O	ALA	A	22	11.273	7.262	-4.836	1.00	96.81	O
ATOM	116	N	THR	A	23	9.719	5.719	-5.312	1.00	97.00	N
ATOM	117	CA	THR	A	23	8.617	6.426	-4.660	1.00	97.00	C
ATOM	118	C	THR	A	23	7.816	5.477	-3.773	1.00	97.00	C
ATOM	119	CB	THR	A	23	7.684	7.078	-5.695	1.00	97.00	C
ATOM	120	O	THR	A	23	7.512	4.348	-4.176	1.00	97.00	O
ATOM	121	CG2	THR	A	23	6.586	7.887	-5.012	1.00	97.00	C
ATOM	122	OG1	THR	A	23	8.445	7.949	-6.539	1.00	97.00	O
ATOM	123	N	VAL	A	24	7.496	5.859	-2.504	1.00	96.25	N
ATOM	124	CA	VAL	A	24	6.613	5.129	-1.603	1.00	96.25	C
ATOM	125	C	VAL	A	24	5.402	5.988	-1.253	1.00	96.25	C
ATOM	126	CB	VAL	A	24	7.348	4.695	-0.314	1.00	96.25	C
ATOM	127	O	VAL	A	24	5.551	7.113	-0.767	1.00	96.25	O
ATOM	128	CG1	VAL	A	24	6.375	4.062	0.679	1.00	96.25	C
ATOM	129	CG2	VAL	A	24	8.477	3.725	-0.647	1.00	96.25	C
ATOM	130	N	ASN	A	25	4.227	5.461	-1.597	1.00	97.00	N
ATOM	131	CA	ASN	A	25	2.963	6.055	-1.176	1.00	97.00	C
ATOM	132	C	ASN	A	25	2.256	5.191	-0.135	1.00	97.00	C
ATOM	133	CB	ASN	A	25	2.049	6.289	-2.383	1.00	97.00	C
ATOM	134	O	ASN	A	25	1.919	4.039	-0.406	1.00	97.00	O
ATOM	135	CG	ASN	A	25	2.629	7.281	-3.371	1.00	97.00	C
ATOM	136	ND2	ASN	A	25	2.506	6.977	-4.656	1.00	97.00	N
ATOM	137	OD1	ASN	A	25	3.184	8.312	-2.980	1.00	97.00	O
ATOM	138	N	ALA	A	26	2.105	5.738	1.006	1.00	96.62	N
ATOM	139	CA	ALA	A	26	1.431	4.988	2.062	1.00	96.62	C
ATOM	140	C	ALA	A	26	0.224	5.754	2.596	1.00	96.62	C
ATOM	141	CB	ALA	A	26	2.404	4.680	3.199	1.00	96.62	C

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ATOM	142	O	ALA A 26	0.330	6.938	2.934	1.00	96.62	O
ATOM	143	N	ASN A 27	-0.907	5.035	2.648	1.00	97.75	N
ATOM	144	CA	ASN A 27	-2.158	5.602	3.141	1.00	97.75	C
ATOM	145	C	ASN A 27	-2.771	4.738	4.238	1.00	97.75	C
ATOM	146	CB	ASN A 27	-3.152	5.785	1.993	1.00	97.75	C
ATOM	147	O	ASN A 27	-2.846	3.516	4.102	1.00	97.75	O
ATOM	148	CG	ASN A 27	-2.635	6.719	0.915	1.00	97.75	C
ATOM	149	ND2	ASN A 27	-2.457	6.188	-0.290	1.00	97.75	N
ATOM	150	OD1	ASN A 27	-2.395	7.902	1.163	1.00	97.75	O
ATOM	151	N	LEU A 28	-3.100	5.301	5.309	1.00	98.25	N
ATOM	152	CA	LEU A 28	-3.756	4.609	6.414	1.00	98.25	C
ATOM	153	C	LEU A 28	-5.062	5.301	6.789	1.00	98.25	C
ATOM	154	CB	LEU A 28	-2.832	4.551	7.637	1.00	98.25	C
ATOM	155	O	LEU A 28	-5.078	6.508	7.051	1.00	98.25	O
ATOM	156	CG	LEU A 28	-3.445	4.000	8.922	1.00	98.25	C
ATOM	157	CD1	LEU A 28	-3.881	2.553	8.727	1.00	98.25	C
ATOM	158	CD2	LEU A 28	-2.455	4.113	10.078	1.00	98.25	C
ATOM	159	N	ASN A 29	-6.137	4.535	6.730	1.00	97.88	N
ATOM	160	CA	ASN A 29	-7.457	5.020	7.113	1.00	97.88	C
ATOM	161	C	ASN A 29	-8.000	4.266	8.328	1.00	97.88	C
ATOM	162	CB	ASN A 29	-8.430	4.906	5.938	1.00	97.88	C
ATOM	163	O	ASN A 29	-7.973	3.035	8.359	1.00	97.88	O
ATOM	164	CG	ASN A 29	-8.016	5.754	4.754	1.00	97.88	C
ATOM	165	ND2	ASN A 29	-8.195	5.215	3.551	1.00	97.88	N
ATOM	166	OD1	ASN A 29	-7.539	6.879	4.914	1.00	97.88	O
ATOM	167	N	ALA A 30	-8.422	5.012	9.297	1.00	97.69	N
ATOM	168	CA	ALA A 30	-9.109	4.441	10.453	1.00	97.69	C
ATOM	169	C	ALA A 30	-10.539	4.949	10.539	1.00	97.69	C
ATOM	170	CB	ALA A 30	-8.352	4.770	11.734	1.00	97.69	C
ATOM	171	O	ALA A 30	-10.781	6.160	10.570	1.00	97.69	O
ATOM	172	N	ASN A 31	-11.477	3.971	10.570	1.00	97.69	N
ATOM	173	CA	ASN A 31	-12.891	4.305	10.648	1.00	97.69	C
ATOM	174	C	ASN A 31	-13.570	3.600	11.820	1.00	97.69	C
ATOM	175	CB	ASN A 31	-13.594	3.949	9.336	1.00	97.69	C
ATOM	176	O	ASN A 31	-13.289	2.434	12.102	1.00	97.69	O
ATOM	177	CG	ASN A 31	-12.984	4.652	8.141	1.00	97.69	C
ATOM	178	ND2	ASN A 31	-12.492	3.875	7.184	1.00	97.69	N
ATOM	179	OD1	ASN A 31	-12.961	5.883	8.070	1.00	97.69	O
ATOM	180	N	VAL A 32	-14.406	4.324	12.445	1.00	97.81	N
ATOM	181	CA	VAL A 32	-15.117	3.715	13.562	1.00	97.81	C
ATOM	182	C	VAL A 32	-16.594	4.082	13.500	1.00	97.81	C
ATOM	183	CB	VAL A 32	-14.516	4.156	14.922	1.00	97.81	C
ATOM	184	O	VAL A 32	-16.953	5.215	13.172	1.00	97.81	O
ATOM	185	CG1	VAL A 32	-14.695	5.656	15.125	1.00	97.81	C
ATOM	186	CG2	VAL A 32	-15.156	3.373	16.062	1.00	97.81	C
ATOM	187	N	ASN A 33	-17.469	3.109	13.703	1.00	96.94	N
ATOM	188	CA	ASN A 33	-18.906	3.271	13.812	1.00	96.94	C
ATOM	189	C	ASN A 33	-19.438	2.740	15.148	1.00	96.94	C
ATOM	190	CB	ASN A 33	-19.625	2.574	12.656	1.00	96.94	C
ATOM	191	O	ASN A 33	-19.016	1.678	15.609	1.00	96.94	O
ATOM	192	CG	ASN A 33	-19.297	3.197	11.312	1.00	96.94	C
ATOM	193	ND2	ASN A 33	-19.156	2.363	10.289	1.00	96.94	N
ATOM	194	OD1	ASN A 33	-19.156	4.418	11.195	1.00	96.94	O

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ATOM	195	N	VAL A 34	-20.266	3.521	15.719	1.00	96.88	N
ATOM	196	CA	VAL A 34	-20.859	3.084	16.969	1.00	96.88	C
ATOM	197	C	VAL A 34	-22.375	3.156	16.875	1.00	96.88	C
ATOM	198	CB	VAL A 34	-20.359	3.932	18.172	1.00	96.88	C
ATOM	199	O	VAL A 34	-22.938	4.129	16.344	1.00	96.88	O
ATOM	200	CG1	VAL A 34	-21.250	3.711	19.391	1.00	96.88	C
ATOM	201	CG2	VAL A 34	-18.906	3.598	18.484	1.00	96.88	C
ATOM	202	N	ASN A 35	-23.047	2.049	17.297	1.00	95.25	N
ATOM	203	CA	ASN A 35	-24.516	1.960	17.344	1.00	95.25	C
ATOM	204	C	ASN A 35	-25.000	1.637	18.750	1.00	95.25	C
ATOM	205	CB	ASN A 35	-25.016	0.915	16.344	1.00	95.25	C
ATOM	206	O	ASN A 35	-24.484	0.730	19.406	1.00	95.25	O
ATOM	207	CG	ASN A 35	-24.688	1.267	14.914	1.00	95.25	C
ATOM	208	ND2	ASN A 35	-24.234	0.279	14.148	1.00	95.25	N
ATOM	209	OD1	ASN A 35	-24.844	2.416	14.492	1.00	95.25	O
ATOM	210	N	VAL A 36	-25.938	2.428	19.156	1.00	95.31	N
ATOM	211	CA	VAL A 36	-26.562	2.158	20.438	1.00	95.31	C
ATOM	212	C	VAL A 36	-28.047	1.837	20.250	1.00	95.31	C
ATOM	213	CB	VAL A 36	-26.406	3.352	21.406	1.00	95.31	C
ATOM	214	O	VAL A 36	-28.750	2.557	19.531	1.00	95.31	O
ATOM	215	CG1	VAL A 36	-27.188	3.111	22.703	1.00	95.31	C
ATOM	216	CG2	VAL A 36	-24.938	3.596	21.719	1.00	95.31	C
ATOM	217	N	THR A 37	-28.453	0.672	20.812	1.00	94.31	N
ATOM	218	CA	THR A 37	-29.859	0.281	20.797	1.00	94.31	C
ATOM	219	C	THR A 37	-30.406	0.168	22.219	1.00	94.31	C
ATOM	220	CB	THR A 37	-30.062	-1.058	20.062	1.00	94.31	C
ATOM	221	O	THR A 37	-29.844	-0.571	23.047	1.00	94.31	O
ATOM	222	CG2	THR A 37	-31.531	-1.439	20.016	1.00	94.31	C
ATOM	223	OG1	THR A 37	-29.562	-0.940	18.719	1.00	94.31	O
ATOM	224	N	LEU A 38	-31.391	0.999	22.531	1.00	93.19	N
ATOM	225	CA	LEU A 38	-32.062	0.961	23.812	1.00	93.19	C
ATOM	226	C	LEU A 38	-33.469	0.385	23.688	1.00	93.19	C
ATOM	227	CB	LEU A 38	-32.125	2.363	24.438	1.00	93.19	C
ATOM	228	O	LEU A 38	-34.281	0.900	22.922	1.00	93.19	O
ATOM	229	CG	LEU A 38	-32.938	2.506	25.719	1.00	93.19	C
ATOM	230	CD1	LEU A 38	-32.281	1.713	26.844	1.00	93.19	C
ATOM	231	CD2	LEU A 38	-33.094	3.975	26.109	1.00	93.19	C
ATOM	232	N	THR A 39	-33.688	-0.751	24.438	1.00	93.62	N
ATOM	233	CA	THR A 39	-35.031	-1.355	24.516	1.00	93.62	C
ATOM	234	C	THR A 39	-35.594	-1.238	25.922	1.00	93.62	C
ATOM	235	CB	THR A 39	-35.000	-2.836	24.094	1.00	93.62	C
ATOM	236	O	THR A 39	-35.000	-1.727	26.891	1.00	93.62	O
ATOM	237	CG2	THR A 39	-36.406	-3.438	24.078	1.00	93.62	C
ATOM	238	OG1	THR A 39	-34.406	-2.941	22.781	1.00	93.62	O
ATOM	239	N	VAL A 40	-36.750	-0.517	25.984	1.00	89.12	N
ATOM	240	CA	VAL A 40	-37.375	-0.316	27.281	1.00	89.12	C
ATOM	241	C	VAL A 40	-38.750	-0.975	27.297	1.00	89.12	C
ATOM	242	CB	VAL A 40	-37.500	1.185	27.625	1.00	89.12	C
ATOM	243	O	VAL A 40	-39.562	-0.774	26.359	1.00	89.12	O
ATOM	244	CG1	VAL A 40	-38.156	1.372	29.000	1.00	89.12	C
ATOM	245	CG2	VAL A 40	-36.156	1.861	27.578	1.00	89.12	C
ATOM	246	N	THR A 41	-38.969	-1.824	28.297	1.00	90.19	N
ATOM	247	CA	THR A 41	-40.312	-2.387	28.531	1.00	90.19	C

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ATOM	248	C	THR	A	41	-40.938	-1.790	29.797	1.00	90.19	C
ATOM	249	CB	THR	A	41	-40.250	-3.920	28.672	1.00	90.19	C
ATOM	250	O	THR	A	41	-40.375	-1.886	30.891	1.00	90.19	O
ATOM	251	CG2	THR	A	41	-41.656	-4.520	28.797	1.00	90.19	C
ATOM	252	OG1	THR	A	41	-39.594	-4.469	27.516	1.00	90.19	O
ATOM	253	N	ASP	A	42	-42.031	-1.104	29.531	1.00	84.75	N
ATOM	254	CA	ASP	A	42	-42.656	-0.459	30.688	1.00	84.75	C
ATOM	255	C	ASP	A	42	-43.500	-1.451	31.484	1.00	84.75	C
ATOM	256	CB	ASP	A	42	-43.531	0.724	30.234	1.00	84.75	C
ATOM	257	O	ASP	A	42	-43.531	-2.643	31.172	1.00	84.75	O
ATOM	258	CG	ASP	A	42	-44.719	0.302	29.422	1.00	84.75	C
ATOM	259	OD1	ASP	A	42	-45.094	-0.897	29.422	1.00	84.75	O
ATOM	260	OD2	ASP	A	42	-45.344	1.176	28.766	1.00	84.75	O
ATOM	261	N	ALA	A	43	-44.094	-1.104	32.594	1.00	84.38	N
ATOM	262	CA	ALA	A	43	-44.844	-1.940	33.531	1.00	84.38	C
ATOM	263	C	ALA	A	43	-46.062	-2.568	32.844	1.00	84.38	C
ATOM	264	CB	ALA	A	43	-45.281	-1.123	34.750	1.00	84.38	C
ATOM	265	O	ALA	A	43	-46.531	-3.629	33.250	1.00	84.38	O
ATOM	266	N	SER	A	44	-46.531	-1.917	31.812	1.00	88.38	N
ATOM	267	CA	SER	A	44	-47.688	-2.422	31.109	1.00	88.38	C
ATOM	268	C	SER	A	44	-47.312	-3.498	30.094	1.00	88.38	C
ATOM	269	CB	SER	A	44	-48.438	-1.282	30.391	1.00	88.38	C
ATOM	270	O	SER	A	44	-48.188	-4.137	29.500	1.00	88.38	O
ATOM	271	OG	SER	A	44	-47.625	-0.762	29.344	1.00	88.38	O
ATOM	272	N	GLY	A	45	-46.000	-3.664	29.875	1.00	87.12	N
ATOM	273	CA	GLY	A	45	-45.531	-4.617	28.891	1.00	87.12	C
ATOM	274	C	GLY	A	45	-45.219	-3.980	27.547	1.00	87.12	C
ATOM	275	O	GLY	A	45	-44.812	-4.664	26.609	1.00	87.12	O
ATOM	276	N	THR	A	46	-45.438	-2.670	27.344	1.00	89.81	N
ATOM	277	CA	THR	A	46	-45.125	-1.980	26.094	1.00	89.81	C
ATOM	278	C	THR	A	46	-43.625	-1.795	25.953	1.00	89.81	C
ATOM	279	CB	THR	A	46	-45.812	-0.609	26.031	1.00	89.81	C
ATOM	280	O	THR	A	46	-42.938	-1.334	26.875	1.00	89.81	O
ATOM	281	CG2	THR	A	46	-45.562	0.074	24.688	1.00	89.81	C
ATOM	282	OG1	THR	A	46	-47.250	-0.790	26.188	1.00	89.81	O
ATOM	283	N	THR	A	47	-43.031	-2.199	24.766	1.00	93.62	N
ATOM	284	CA	THR	A	47	-41.625	-2.127	24.453	1.00	93.62	C
ATOM	285	C	THR	A	47	-41.312	-0.955	23.516	1.00	93.62	C
ATOM	286	CB	THR	A	47	-41.125	-3.436	23.812	1.00	93.62	C
ATOM	287	O	THR	A	47	-42.031	-0.748	22.531	1.00	93.62	O
ATOM	288	CG2	THR	A	47	-39.625	-3.395	23.562	1.00	93.62	C
ATOM	289	OG1	THR	A	47	-41.438	-4.535	24.672	1.00	93.62	O
ATOM	290	N	THR	A	48	-40.406	-0.034	23.859	1.00	92.12	N
ATOM	291	CA	THR	A	48	-39.875	1.038	23.016	1.00	92.12	C
ATOM	292	C	THR	A	48	-38.406	0.805	22.703	1.00	92.12	C
ATOM	293	CB	THR	A	48	-40.031	2.410	23.688	1.00	92.12	C
ATOM	294	O	THR	A	48	-37.594	0.519	23.594	1.00	92.12	O
ATOM	295	CG2	THR	A	48	-39.594	3.537	22.781	1.00	92.12	C
ATOM	296	OG1	THR	A	48	-41.438	2.607	24.016	1.00	92.12	O
ATOM	297	N	THR	A	49	-38.062	0.843	21.375	1.00	94.31	N
ATOM	298	CA	THR	A	49	-36.688	0.683	20.922	1.00	94.31	C
ATOM	299	C	THR	A	49	-36.188	1.980	20.312	1.00	94.31	C
ATOM	300	CB	THR	A	49	-36.594	-0.457	19.891	1.00	94.31	C

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ATOM	301	O	THR	A	49	-36.812	2.566	19.438	1.00	94.31	O
ATOM	302	CG2	THR	A	49	-35.125	-0.660	19.453	1.00	94.31	C
ATOM	303	OG1	THR	A	49	-37.062	-1.671	20.469	1.00	94.31	O
ATOM	304	N	LEU	A	50	-35.062	2.555	20.828	1.00	94.12	N
ATOM	305	CA	LEU	A	50	-34.375	3.734	20.297	1.00	94.12	C
ATOM	306	C	LEU	A	50	-33.000	3.379	19.812	1.00	94.12	C
ATOM	307	CB	LEU	A	50	-34.281	4.824	21.375	1.00	94.12	C
ATOM	308	O	LEU	A	50	-32.312	2.549	20.406	1.00	94.12	O
ATOM	309	CG	LEU	A	50	-35.625	5.273	22.000	1.00	94.12	C
ATOM	310	CD1	LEU	A	50	-35.375	5.996	23.312	1.00	94.12	C
ATOM	311	CD2	LEU	A	50	-36.375	6.168	21.031	1.00	94.12	C
ATOM	312	N	THR	A	51	-32.688	3.969	18.703	1.00	95.81	N
ATOM	313	CA	THR	A	51	-31.375	3.727	18.141	1.00	95.81	C
ATOM	314	C	THR	A	51	-30.656	5.043	17.859	1.00	95.81	C
ATOM	315	CB	THR	A	51	-31.469	2.908	16.844	1.00	95.81	C
ATOM	316	O	THR	A	51	-31.266	6.020	17.438	1.00	95.81	O
ATOM	317	CG2	THR	A	51	-30.078	2.594	16.281	1.00	95.81	C
ATOM	318	OG1	THR	A	51	-32.156	1.678	17.109	1.00	95.81	O
ATOM	319	N	ALA	A	52	-29.344	5.137	18.234	1.00	95.12	N
ATOM	320	CA	ALA	A	52	-28.453	6.246	17.906	1.00	95.12	C
ATOM	321	C	ALA	A	52	-27.156	5.742	17.266	1.00	95.12	C
ATOM	322	CB	ALA	A	52	-28.141	7.078	19.141	1.00	95.12	C
ATOM	323	O	ALA	A	52	-26.656	4.676	17.641	1.00	95.12	O
ATOM	324	N	THR	A	53	-26.781	6.480	16.297	1.00	96.75	N
ATOM	325	CA	THR	A	53	-25.562	6.098	15.602	1.00	96.75	C
ATOM	326	C	THR	A	53	-24.547	7.238	15.609	1.00	96.75	C
ATOM	327	CB	THR	A	53	-25.859	5.691	14.141	1.00	96.75	C
ATOM	328	O	THR	A	53	-24.922	8.406	15.680	1.00	96.75	O
ATOM	329	CG2	THR	A	53	-26.812	4.496	14.086	1.00	96.75	C
ATOM	330	OG1	THR	A	53	-26.469	6.797	13.461	1.00	96.75	O
ATOM	331	N	GLY	A	54	-23.266	6.953	15.719	1.00	96.94	N
ATOM	332	CA	GLY	A	54	-22.125	7.848	15.562	1.00	96.94	C
ATOM	333	C	GLY	A	54	-21.031	7.270	14.703	1.00	96.94	C
ATOM	334	O	GLY	A	54	-20.938	6.051	14.539	1.00	96.94	O
ATOM	335	N	SER	A	55	-20.328	8.180	14.016	1.00	97.81	N
ATOM	336	CA	SER	A	55	-19.219	7.746	13.164	1.00	97.81	C
ATOM	337	C	SER	A	55	-18.047	8.711	13.250	1.00	97.81	C
ATOM	338	CB	SER	A	55	-19.688	7.621	11.711	1.00	97.81	C
ATOM	339	O	SER	A	55	-18.219	9.875	13.625	1.00	97.81	O
ATOM	340	OG	SER	A	55	-20.125	8.875	11.211	1.00	97.81	O
ATOM	341	N	GLY	A	56	-16.875	8.188	13.086	1.00	97.69	N
ATOM	342	CA	GLY	A	56	-15.641	8.953	13.008	1.00	97.69	C
ATOM	343	C	GLY	A	56	-14.625	8.359	12.055	1.00	97.69	C
ATOM	344	O	GLY	A	56	-14.727	7.184	11.688	1.00	97.69	O
ATOM	345	N	SER	A	57	-13.742	9.258	11.523	1.00	98.00	N
ATOM	346	CA	SER	A	57	-12.711	8.812	10.586	1.00	98.00	C
ATOM	347	C	SER	A	57	-11.438	9.641	10.742	1.00	98.00	C
ATOM	348	CB	SER	A	57	-13.219	8.906	9.148	1.00	98.00	C
ATOM	349	O	SER	A	57	-11.484	10.781	11.203	1.00	98.00	O
ATOM	350	OG	SER	A	57	-13.438	10.250	8.773	1.00	98.00	O
ATOM	351	N	ALA	A	58	-10.320	9.008	10.562	1.00	97.31	N
ATOM	352	CA	ALA	A	58	-9.008	9.656	10.516	1.00	97.31	C
ATOM	353	C	ALA	A	58	-8.141	9.062	9.406	1.00	97.31	C

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ATOM	354	CB	ALA	A	58	-8.312	9.523	11.867	1.00	97.31	C
ATOM	355	O	ALA	A	58	-8.203	7.855	9.148	1.00	97.31	O
ATOM	356	N	THR	A	59	-7.457	9.969	8.727	1.00	97.31	N
ATOM	357	CA	THR	A	59	-6.574	9.531	7.648	1.00	97.31	C
ATOM	358	C	THR	A	59	-5.152	10.031	7.883	1.00	97.31	C
ATOM	359	CB	THR	A	59	-7.078	10.031	6.281	1.00	97.31	C
ATOM	360	O	THR	A	59	-4.949	11.109	8.438	1.00	97.31	O
ATOM	361	CG2	THR	A	59	-8.461	9.484	5.969	1.00	97.31	C
ATOM	362	OG1	THR	A	59	-7.137	11.469	6.293	1.00	97.31	O
ATOM	363	N	ALA	A	60	-4.160	9.180	7.680	1.00	97.44	N
ATOM	364	CA	ALA	A	60	-2.738	9.508	7.641	1.00	97.44	C
ATOM	365	C	ALA	A	60	-2.104	9.055	6.332	1.00	97.44	C
ATOM	366	CB	ALA	A	60	-2.010	8.883	8.828	1.00	97.44	C
ATOM	367	O	ALA	A	60	-2.414	7.969	5.832	1.00	97.44	O
ATOM	368	N	SER	A	61	-1.344	9.945	5.773	1.00	97.81	N
ATOM	369	CA	SER	A	61	-0.706	9.586	4.512	1.00	97.81	C
ATOM	370	C	SER	A	61	0.681	10.211	4.395	1.00	97.81	C
ATOM	371	CB	SER	A	61	-1.572	10.016	3.328	1.00	97.81	C
ATOM	372	O	SER	A	61	0.988	11.180	5.082	1.00	97.81	O
ATOM	373	OG	SER	A	61	-1.701	11.430	3.291	1.00	97.81	O
ATOM	374	N	THR	A	62	1.564	9.484	3.631	1.00	97.25	N
ATOM	375	CA	THR	A	62	2.895	10.008	3.338	1.00	97.25	C
ATOM	376	C	THR	A	62	3.346	9.594	1.941	1.00	97.25	C
ATOM	377	CB	THR	A	62	3.924	9.523	4.379	1.00	97.25	C
ATOM	378	O	THR	A	62	2.934	8.547	1.436	1.00	97.25	O
ATOM	379	CG2	THR	A	62	4.184	8.031	4.242	1.00	97.25	C
ATOM	380	OG1	THR	A	62	5.156	10.234	4.184	1.00	97.25	O
ATOM	381	N	THR	A	63	3.971	10.531	1.355	1.00	97.50	N
ATOM	382	CA	THR	A	63	4.648	10.281	0.088	1.00	97.50	C
ATOM	383	C	THR	A	63	6.137	10.586	0.201	1.00	97.50	C
ATOM	384	CB	THR	A	63	4.035	11.125	-1.049	1.00	97.50	C
ATOM	385	O	THR	A	63	6.523	11.703	0.559	1.00	97.50	O
ATOM	386	CG2	THR	A	63	4.727	10.844	-2.377	1.00	97.50	C
ATOM	387	OG1	THR	A	63	2.643	10.805	-1.172	1.00	97.50	O
ATOM	388	N	LEU	A	64	6.977	9.547	-0.041	1.00	97.31	N
ATOM	389	CA	LEU	A	64	8.430	9.695	-0.000	1.00	97.31	C
ATOM	390	C	LEU	A	64	9.039	9.414	-1.370	1.00	97.31	C
ATOM	391	CB	LEU	A	64	9.031	8.750	1.041	1.00	97.31	C
ATOM	392	O	LEU	A	64	8.617	8.492	-2.068	1.00	97.31	O
ATOM	393	CG	LEU	A	64	8.477	8.859	2.461	1.00	97.31	C
ATOM	394	CD1	LEU	A	64	8.969	7.695	3.316	1.00	97.31	C
ATOM	395	CD2	LEU	A	64	8.859	10.195	3.086	1.00	97.31	C
ATOM	396	N	GLU	A	65	9.961	10.250	-1.707	1.00	97.94	N
ATOM	397	CA	GLU	A	65	10.594	10.102	-3.012	1.00	97.94	C
ATOM	398	C	GLU	A	65	12.094	10.367	-2.932	1.00	97.94	C
ATOM	399	CB	GLU	A	65	9.945	11.031	-4.035	1.00	97.94	C
ATOM	400	O	GLU	A	65	12.531	11.258	-2.195	1.00	97.94	O
ATOM	401	CG	GLU	A	65	10.500	10.883	-5.445	1.00	97.94	C
ATOM	402	CD	GLU	A	65	9.828	11.797	-6.457	1.00	97.94	C
ATOM	403	OE1	GLU	A	65	10.188	11.750	-7.652	1.00	97.94	O
ATOM	404	OE2	GLU	A	65	8.945	12.578	-6.043	1.00	97.94	O
ATOM	405	N	LYS	A	66	12.742	9.516	-3.744	1.00	97.81	N
ATOM	406	CA	LYS	A	66	14.188	9.695	-3.820	1.00	97.81	C

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ATOM	407	C	LYS A 66	14.711	9.336	-5.207	1.00	97.81	C
ATOM	408	CB	LYS A 66	14.891	8.844	-2.760	1.00	97.81	C
ATOM	409	O	LYS A 66	14.188	8.430	-5.859	1.00	97.81	O
ATOM	410	CG	LYS A 66	16.344	9.227	-2.518	1.00	97.81	C
ATOM	411	CD	LYS A 66	16.906	8.516	-1.301	1.00	97.81	C
ATOM	412	CE	LYS A 66	18.344	8.953	-1.011	1.00	97.81	C
ATOM	413	NZ	LYS A 66	18.891	8.289	0.204	1.00	97.81	N
ATOM	414	N	GLU A 67	15.672	10.125	-5.641	1.00	97.38	N
ATOM	415	CA	GLU A 67	16.281	9.906	-6.957	1.00	97.38	C
ATOM	416	C	GLU A 67	17.797	9.992	-6.887	1.00	97.38	C
ATOM	417	CB	GLU A 67	15.742	10.930	-7.965	1.00	97.38	C
ATOM	418	O	GLU A 67	18.344	10.758	-6.098	1.00	97.38	O
ATOM	419	CG	GLU A 67	16.312	10.758	-9.367	1.00	97.38	C
ATOM	420	CD	GLU A 67	15.805	11.805	-10.352	1.00	97.38	C
ATOM	421	OE1	GLU A 67	16.172	11.750	-11.547	1.00	97.38	O
ATOM	422	OE2	GLU A 67	15.031	12.695	-9.922	1.00	97.38	O
ATOM	423	N	GLU A 68	18.391	9.117	-7.719	1.00	97.56	N
ATOM	424	CA	GLU A 68	19.844	9.109	-7.836	1.00	97.56	C
ATOM	425	C	GLU A 68	20.281	9.055	-9.297	1.00	97.56	C
ATOM	426	CB	GLU A 68	20.438	7.930	-7.062	1.00	97.56	C
ATOM	427	O	GLU A 68	19.734	8.289	-10.086	1.00	97.56	O
ATOM	428	CG	GLU A 68	21.969	7.961	-6.961	1.00	97.56	C
ATOM	429	CD	GLU A 68	22.516	6.957	-5.961	1.00	97.56	C
ATOM	430	OE1	GLU A 68	23.750	6.805	-5.879	1.00	97.56	O
ATOM	431	OE2	GLU A 68	21.703	6.316	-5.258	1.00	97.56	O
ATOM	432	N	LYS A 69	21.266	9.977	-9.562	1.00	96.88	N
ATOM	433	CA	LYS A 69	21.812	10.031	-10.906	1.00	96.88	C
ATOM	434	C	LYS A 69	23.328	9.789	-10.891	1.00	96.88	C
ATOM	435	CB	LYS A 69	21.516	11.391	-11.555	1.00	96.88	C
ATOM	436	O	LYS A 69	24.031	10.320	-10.039	1.00	96.88	O
ATOM	437	CG	LYS A 69	20.047	11.609	-11.859	1.00	96.88	C
ATOM	438	CD	LYS A 69	19.812	12.930	-12.586	1.00	96.88	C
ATOM	439	CE	LYS A 69	18.344	13.188	-12.836	1.00	96.88	C
ATOM	440	NZ	LYS A 69	18.109	14.492	-13.523	1.00	96.88	N
ATOM	441	N	LYS A 70	23.828	8.898	-11.797	1.00	95.06	N
ATOM	442	CA	LYS A 70	25.250	8.617	-11.938	1.00	95.06	C
ATOM	443	C	LYS A 70	25.703	8.750	-13.398	1.00	95.06	C
ATOM	444	CB	LYS A 70	25.578	7.227	-11.414	1.00	95.06	C
ATOM	445	O	LYS A 70	24.969	8.359	-14.305	1.00	95.06	O
ATOM	446	CG	LYS A 70	25.422	7.078	-9.906	1.00	95.06	C
ATOM	447	CD	LYS A 70	25.828	5.688	-9.430	1.00	95.06	C
ATOM	448	CE	LYS A 70	25.625	5.527	-7.930	1.00	95.06	C
ATOM	449	NZ	LYS A 70	26.016	4.164	-7.461	1.00	95.06	N
ATOM	450	N	LEU A 71	26.844	9.422	-13.469	1.00	95.75	N
ATOM	451	CA	LEU A 71	27.406	9.609	-14.797	1.00	95.75	C
ATOM	452	C	LEU A 71	28.828	9.062	-14.859	1.00	95.75	C
ATOM	453	CB	LEU A 71	27.406	11.094	-15.180	1.00	95.75	C
ATOM	454	O	LEU A 71	29.656	9.367	-14.000	1.00	95.75	O
ATOM	455	CG	LEU A 71	27.922	11.438	-16.578	1.00	95.75	C
ATOM	456	CD1	LEU A 71	26.938	10.984	-17.641	1.00	95.75	C
ATOM	457	CD2	LEU A 71	28.203	12.930	-16.688	1.00	95.75	C
ATOM	458	N	LYS A 72	29.031	8.188	-15.914	1.00	93.88	N
ATOM	459	CA	LYS A 72	30.375	7.641	-16.156	1.00	93.88	C

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ATOM	460	C	LYS A 72	30.781	7.832	-17.609	1.00	93.88	C
ATOM	461	CB	LYS A 72	30.422	6.156	-15.781	1.00	93.88	C
ATOM	462	O	LYS A 72	30.000	7.598	-18.516	1.00	93.88	O
ATOM	463	CG	LYS A 72	30.234	5.883	-14.297	1.00	93.88	C
ATOM	464	CD	LYS A 72	30.312	4.395	-13.992	1.00	93.88	C
ATOM	465	CE	LYS A 72	30.062	4.109	-12.516	1.00	93.88	C
ATOM	466	NZ	LYS A 72	30.141	2.650	-12.211	1.00	93.88	N
ATOM	467	N	GLU A 73	32.062	8.359	-17.734	1.00	94.69	N
ATOM	468	CA	GLU A 73	32.594	8.578	-19.078	1.00	94.69	C
ATOM	469	C	GLU A 73	33.906	7.836	-19.266	1.00	94.69	C
ATOM	470	CB	GLU A 73	32.781	10.070	-19.328	1.00	94.69	C
ATOM	471	O	GLU A 73	34.750	7.805	-18.359	1.00	94.69	O
ATOM	472	CG	GLU A 73	31.500	10.867	-19.375	1.00	94.69	C
ATOM	473	CD	GLU A 73	31.703	12.352	-19.641	1.00	94.69	C
ATOM	474	OE1	GLU A 73	30.703	13.086	-19.781	1.00	94.69	O
ATOM	475	OE2	GLU A 73	32.875	12.773	-19.703	1.00	94.69	O
ATOM	476	N	GLU A 74	34.000	7.168	-20.422	1.00	93.25	N
ATOM	477	CA	GLU A 74	35.219	6.453	-20.766	1.00	93.25	C
ATOM	478	C	GLU A 74	35.625	6.727	-22.203	1.00	93.25	C
ATOM	479	CB	GLU A 74	35.031	4.949	-20.547	1.00	93.25	C
ATOM	480	O	GLU A 74	34.781	6.941	-23.078	1.00	93.25	O
ATOM	481	CG	GLU A 74	34.781	4.566	-19.094	1.00	93.25	C
ATOM	482	CD	GLU A 74	34.531	3.076	-18.906	1.00	93.25	C
ATOM	483	OE1	GLU A 74	34.312	2.641	-17.750	1.00	93.25	O
ATOM	484	OE2	GLU A 74	34.594	2.338	-19.906	1.00	93.25	O
ATOM	485	N	GLU A 75	36.938	6.863	-22.391	1.00	93.56	N
ATOM	486	CA	GLU A 75	37.500	7.062	-23.719	1.00	93.56	C
ATOM	487	C	GLU A 75	38.656	6.094	-23.969	1.00	93.56	C
ATOM	488	CB	GLU A 75	37.969	8.508	-23.891	1.00	93.56	C
ATOM	489	O	GLU A 75	39.500	5.887	-23.109	1.00	93.56	O
ATOM	490	CG	GLU A 75	38.469	8.820	-25.297	1.00	93.56	C
ATOM	491	CD	GLU A 75	38.875	10.281	-25.484	1.00	93.56	C
ATOM	492	OE1	GLU A 75	39.250	10.672	-26.609	1.00	93.56	O
ATOM	493	OE2	GLU A 75	38.781	11.039	-24.484	1.00	93.56	O
ATOM	494	N	LYS A 76	38.500	5.512	-25.141	1.00	92.31	N
ATOM	495	CA	LYS A 76	39.562	4.574	-25.531	1.00	92.31	C
ATOM	496	C	LYS A 76	40.000	4.809	-26.984	1.00	92.31	C
ATOM	497	CB	LYS A 76	39.062	3.131	-25.359	1.00	92.31	C
ATOM	498	O	LYS A 76	39.156	5.109	-27.844	1.00	92.31	O
ATOM	499	CG	LYS A 76	40.156	2.090	-25.578	1.00	92.31	C
ATOM	500	CD	LYS A 76	39.625	0.678	-25.359	1.00	92.31	C
ATOM	501	CE	LYS A 76	40.719	-0.366	-25.609	1.00	92.31	C
ATOM	502	NZ	LYS A 76	40.219	-1.753	-25.406	1.00	92.31	N
ATOM	503	N	THR A 77	41.344	4.758	-27.219	1.00	91.44	N
ATOM	504	CA	THR A 77	41.906	4.910	-28.547	1.00	91.44	C
ATOM	505	C	THR A 77	42.562	3.611	-29.016	1.00	91.44	C
ATOM	506	CB	THR A 77	42.938	6.051	-28.594	1.00	91.44	C
ATOM	507	O	THR A 77	43.375	3.027	-28.297	1.00	91.44	O
ATOM	508	CG2	THR A 77	43.500	6.234	-30.000	1.00	91.44	C
ATOM	509	OG1	THR A 77	42.312	7.273	-28.172	1.00	91.44	O
ATOM	510	N	ILE A 78	42.188	3.143	-30.234	1.00	90.75	N
ATOM	511	CA	ILE A 78	42.688	1.883	-30.766	1.00	90.75	C
ATOM	512	C	ILE A 78	43.312	2.119	-32.156	1.00	90.75	C

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ATOM	513	CB	ILE A 78	41.562	0.824	-30.859	1.00	90.75	C
ATOM	514	O	ILE A 78	42.688	2.721	-33.031	1.00	90.75	O
ATOM	515	CG1	ILE A 78	40.875	0.656	-29.500	1.00	90.75	C
ATOM	516	CG2	ILE A 78	42.125	-0.512	-31.359	1.00	90.75	C
ATOM	517	CD1	ILE A 78	39.531	-0.063	-29.578	1.00	90.75	C
ATOM	518	N	GLU A 79	44.594	1.729	-32.250	1.00	89.19	N
ATOM	519	CA	GLU A 79	45.219	1.775	-33.594	1.00	89.19	C
ATOM	520	C	GLU A 79	45.000	0.468	-34.344	1.00	89.19	C
ATOM	521	CB	GLU A 79	46.719	2.072	-33.469	1.00	89.19	C
ATOM	522	O	GLU A 79	45.281	-0.611	-33.812	1.00	89.19	O
ATOM	523	CG	GLU A 79	47.031	3.465	-32.938	1.00	89.19	C
ATOM	524	CD	GLU A 79	48.500	3.768	-32.875	1.00	89.19	C
ATOM	525	OE1	GLU A 79	48.875	4.859	-32.375	1.00	89.19	O
ATOM	526	OE2	GLU A 79	49.312	2.906	-33.312	1.00	89.19	O
ATOM	527	N	VAL A 80	44.438	0.588	-35.562	1.00	90.38	N
ATOM	528	CA	VAL A 80	44.125	-0.640	-36.281	1.00	90.38	C
ATOM	529	C	VAL A 80	44.438	-0.476	-37.781	1.00	90.38	C
ATOM	530	CB	VAL A 80	42.625	-1.022	-36.125	1.00	90.38	C
ATOM	531	O	VAL A 80	44.562	0.647	-38.250	1.00	90.38	O
ATOM	532	CG1	VAL A 80	42.344	-1.423	-34.656	1.00	90.38	C
ATOM	533	CG2	VAL A 80	41.719	0.135	-36.531	1.00	90.38	C
ATOM	534	N	SER A 81	44.688	-1.618	-38.406	1.00	88.06	N
ATOM	535	CA	SER A 81	44.812	-1.638	-39.844	1.00	88.06	C
ATOM	536	C	SER A 81	43.438	-1.707	-40.500	1.00	88.06	C
ATOM	537	CB	SER A 81	45.656	-2.820	-40.312	1.00	88.06	C
ATOM	538	O	SER A 81	42.438	-2.018	-39.844	1.00	88.06	O
ATOM	539	OG	SER A 81	45.000	-4.047	-40.062	1.00	88.06	O
ATOM	540	N	GLU A 82	43.344	-1.367	-41.750	1.00	85.06	N
ATOM	541	CA	GLU A 82	42.094	-1.388	-42.500	1.00	85.06	C
ATOM	542	C	GLU A 82	41.438	-2.768	-42.469	1.00	85.06	C
ATOM	543	CB	GLU A 82	42.312	-0.968	-43.969	1.00	85.06	C
ATOM	544	O	GLU A 82	40.219	-2.881	-42.344	1.00	85.06	O
ATOM	545	CG	GLU A 82	41.031	-0.677	-44.750	1.00	85.06	C
ATOM	546	CD	GLU A 82	41.281	-0.020	-46.094	1.00	85.06	C
ATOM	547	OE1	GLU A 82	40.312	0.253	-46.812	1.00	85.06	O
ATOM	548	OE2	GLU A 82	42.469	0.224	-46.406	1.00	85.06	O
ATOM	549	N	GLU A 83	42.188	-3.846	-42.469	1.00	87.88	N
ATOM	550	CA	GLU A 83	41.688	-5.227	-42.500	1.00	87.88	C
ATOM	551	C	GLU A 83	41.125	-5.629	-41.125	1.00	87.88	C
ATOM	552	CB	GLU A 83	42.844	-6.180	-42.906	1.00	87.88	C
ATOM	553	O	GLU A 83	40.219	-6.449	-41.062	1.00	87.88	O
ATOM	554	CG	GLU A 83	43.312	-6.000	-44.312	1.00	87.88	C
ATOM	555	CD	GLU A 83	44.500	-6.875	-44.688	1.00	87.88	C
ATOM	556	OE1	GLU A 83	45.000	-6.781	-45.812	1.00	87.88	O
ATOM	557	OE2	GLU A 83	44.938	-7.668	-43.812	1.00	87.88	O
ATOM	558	N	GLU A 84	41.594	-4.938	-40.031	1.00	89.44	N
ATOM	559	CA	GLU A 84	41.219	-5.297	-38.688	1.00	89.44	C
ATOM	560	C	GLU A 84	40.000	-4.484	-38.219	1.00	89.44	C
ATOM	561	CB	GLU A 84	42.375	-5.090	-37.719	1.00	89.44	C
ATOM	562	O	GLU A 84	39.406	-4.781	-37.188	1.00	89.44	O
ATOM	563	CG	GLU A 84	43.531	-6.031	-37.969	1.00	89.44	C
ATOM	564	CD	GLU A 84	44.719	-5.777	-37.031	1.00	89.44	C
ATOM	565	OE1	GLU A 84	45.531	-6.699	-36.812	1.00	89.44	O

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ATOM	566	OE2 GLU A 84	44.812	-4.652	-36.500	1.00	89.44	O
ATOM	567	N LEU A 85	39.562	-3.500	-39.000	1.00	88.62	N
ATOM	568	CA LEU A 85	38.562	-2.533	-38.562	1.00	88.62	C
ATOM	569	C LEU A 85	37.250	-3.227	-38.281	1.00	88.62	C
ATOM	570	CB LEU A 85	38.344	-1.474	-39.656	1.00	88.62	C
ATOM	571	O LEU A 85	36.625	-2.988	-37.219	1.00	88.62	O
ATOM	572	CG LEU A 85	37.344	-0.374	-39.344	1.00	88.62	C
ATOM	573	CD1 LEU A 85	37.750	0.410	-38.125	1.00	88.62	C
ATOM	574	CD2 LEU A 85	37.188	0.555	-40.562	1.00	88.62	C
ATOM	575	N PRO A 86	36.781	-4.121	-39.125	1.00	89.50	N
ATOM	576	CA PRO A 86	35.500	-4.773	-38.844	1.00	89.50	C
ATOM	577	C PRO A 86	35.531	-5.609	-37.562	1.00	89.50	C
ATOM	578	CB PRO A 86	35.281	-5.660	-40.094	1.00	89.50	C
ATOM	579	O PRO A 86	34.531	-5.621	-36.812	1.00	89.50	O
ATOM	580	CG PRO A 86	36.062	-4.984	-41.188	1.00	89.50	C
ATOM	581	CD PRO A 86	37.250	-4.324	-40.562	1.00	89.50	C
ATOM	582	N ALA A 87	36.625	-6.324	-37.312	1.00	91.56	N
ATOM	583	CA ALA A 87	36.750	-7.137	-36.125	1.00	91.56	C
ATOM	584	C ALA A 87	36.781	-6.266	-34.844	1.00	91.56	C
ATOM	585	CB ALA A 87	38.031	-7.988	-36.188	1.00	91.56	C
ATOM	586	O ALA A 87	36.156	-6.613	-33.844	1.00	91.56	O
ATOM	587	N VAL A 88	37.469	-5.094	-34.938	1.00	90.94	N
ATOM	588	CA VAL A 88	37.562	-4.160	-33.812	1.00	90.94	C
ATOM	589	C VAL A 88	36.188	-3.557	-33.531	1.00	90.94	C
ATOM	590	CB VAL A 88	38.562	-3.039	-34.094	1.00	90.94	C
ATOM	591	O VAL A 88	35.781	-3.439	-32.375	1.00	90.94	O
ATOM	592	CG1 VAL A 88	38.500	-1.954	-33.031	1.00	90.94	C
ATOM	593	CG2 VAL A 88	40.000	-3.617	-34.188	1.00	90.94	C
ATOM	594	N LEU A 89	35.438	-3.178	-34.562	1.00	90.94	N
ATOM	595	CA LEU A 89	34.094	-2.600	-34.406	1.00	90.94	C
ATOM	596	C LEU A 89	33.156	-3.596	-33.750	1.00	90.94	C
ATOM	597	CB LEU A 89	33.562	-2.150	-35.750	1.00	90.94	C
ATOM	598	O LEU A 89	32.312	-3.219	-32.906	1.00	90.94	O
ATOM	599	CG LEU A 89	34.219	-0.937	-36.406	1.00	90.94	C
ATOM	600	CD1 LEU A 89	33.594	-0.636	-37.750	1.00	90.94	C
ATOM	601	CD2 LEU A 89	34.125	0.277	-35.469	1.00	90.94	C
ATOM	602	N GLU A 90	33.250	-4.859	-34.156	1.00	93.44	N
ATOM	603	CA GLU A 90	32.438	-5.906	-33.562	1.00	93.44	C
ATOM	604	C GLU A 90	32.750	-6.059	-32.062	1.00	93.44	C
ATOM	605	CB GLU A 90	32.656	-7.238	-34.281	1.00	93.44	C
ATOM	606	O GLU A 90	31.828	-6.211	-31.250	1.00	93.44	O
ATOM	607	CG GLU A 90	31.688	-8.336	-33.844	1.00	93.44	C
ATOM	608	CD GLU A 90	31.828	-9.617	-34.656	1.00	93.44	C
ATOM	609	OE1 GLU A 90	31.078	-10.586	-34.406	1.00	93.44	O
ATOM	610	OE2 GLU A 90	32.688	-9.648	-35.562	1.00	93.44	O
ATOM	611	N GLU A 91	33.938	-6.059	-31.734	1.00	93.88	N
ATOM	612	CA GLU A 91	34.375	-6.160	-30.344	1.00	93.88	C
ATOM	613	C GLU A 91	33.875	-4.969	-29.516	1.00	93.88	C
ATOM	614	CB GLU A 91	35.906	-6.273	-30.234	1.00	93.88	C
ATOM	615	O GLU A 91	33.469	-5.121	-28.375	1.00	93.88	O
ATOM	616	CG GLU A 91	36.406	-6.645	-28.844	1.00	93.88	C
ATOM	617	CD GLU A 91	37.906	-6.906	-28.812	1.00	93.88	C
ATOM	618	OE1 GLU A 91	38.438	-7.145	-27.703	1.00	93.88	O

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ATOM	619	OE2 GLU A 91	38.531	-6.875	-29.875	1.00	93.88	O
ATOM	620	N ILE A 92	33.938	-3.805	-30.094	1.00	93.00	N
ATOM	621	CA ILE A 92	33.438	-2.592	-29.438	1.00	93.00	C
ATOM	622	C ILE A 92	31.938	-2.711	-29.172	1.00	93.00	C
ATOM	623	CB ILE A 92	33.750	-1.336	-30.281	1.00	93.00	C
ATOM	624	O ILE A 92	31.469	-2.389	-28.078	1.00	93.00	O
ATOM	625	CG1 ILE A 92	35.250	-1.054	-30.312	1.00	93.00	C
ATOM	626	CG2 ILE A 92	32.969	-0.127	-29.750	1.00	93.00	C
ATOM	627	CD1 ILE A 92	35.656	0.009	-31.312	1.00	93.00	C
ATOM	628	N GLU A 93	31.203	-3.244	-30.141	1.00	93.38	N
ATOM	629	CA GLU A 93	29.766	-3.430	-29.984	1.00	93.38	C
ATOM	630	C GLU A 93	29.453	-4.414	-28.859	1.00	93.38	C
ATOM	631	CB GLU A 93	29.141	-3.916	-31.297	1.00	93.38	C
ATOM	632	O GLU A 93	28.500	-4.219	-28.109	1.00	93.38	O
ATOM	633	CG GLU A 93	29.016	-2.832	-32.375	1.00	93.38	C
ATOM	634	CD GLU A 93	28.453	-3.344	-33.688	1.00	93.38	C
ATOM	635	OE1 GLU A 93	28.281	-2.535	-34.625	1.00	93.38	O
ATOM	636	OE2 GLU A 93	28.172	-4.559	-33.750	1.00	93.38	O
ATOM	637	N LYS A 94	30.234	-5.527	-28.797	1.00	95.00	N
ATOM	638	CA LYS A 94	30.062	-6.492	-27.703	1.00	95.00	C
ATOM	639	C LYS A 94	30.297	-5.848	-26.344	1.00	95.00	C
ATOM	640	CB LYS A 94	30.984	-7.688	-27.906	1.00	95.00	C
ATOM	641	O LYS A 94	29.578	-6.109	-25.391	1.00	95.00	O
ATOM	642	CG LYS A 94	30.547	-8.648	-29.000	1.00	95.00	C
ATOM	643	CD LYS A 94	31.469	-9.859	-29.078	1.00	95.00	C
ATOM	644	CE LYS A 94	31.062	-10.797	-30.203	1.00	95.00	C
ATOM	645	NZ LYS A 94	32.000	-11.953	-30.328	1.00	95.00	N
ATOM	646	N GLU A 95	31.266	-4.992	-26.281	1.00	93.75	N
ATOM	647	CA GLU A 95	31.594	-4.281	-25.047	1.00	93.75	C
ATOM	648	C GLU A 95	30.469	-3.320	-24.656	1.00	93.75	C
ATOM	649	CB GLU A 95	32.906	-3.518	-25.203	1.00	93.75	C
ATOM	650	O GLU A 95	30.141	-3.191	-23.484	1.00	93.75	O
ATOM	651	CG GLU A 95	33.406	-2.910	-23.906	1.00	93.75	C
ATOM	652	CD GLU A 95	34.781	-2.230	-24.047	1.00	93.75	C
ATOM	653	OE1 GLU A 95	35.156	-1.466	-23.141	1.00	93.75	O
ATOM	654	OE2 GLU A 95	35.438	-2.465	-25.078	1.00	93.75	O
ATOM	655	N ILE A 96	29.922	-2.609	-25.672	1.00	94.44	N
ATOM	656	CA ILE A 96	28.844	-1.670	-25.406	1.00	94.44	C
ATOM	657	C ILE A 96	27.609	-2.424	-24.906	1.00	94.44	C
ATOM	658	CB ILE A 96	28.484	-0.856	-26.672	1.00	94.44	C
ATOM	659	O ILE A 96	26.922	-1.967	-23.984	1.00	94.44	O
ATOM	660	CG1 ILE A 96	29.656	0.045	-27.078	1.00	94.44	C
ATOM	661	CG2 ILE A 96	27.219	-0.033	-26.453	1.00	94.44	C
ATOM	662	CD1 ILE A 96	30.094	1.018	-25.984	1.00	94.44	C
ATOM	663	N GLU A 97	27.344	-3.609	-25.484	1.00	95.44	N
ATOM	664	CA GLU A 97	26.234	-4.438	-25.016	1.00	95.44	C
ATOM	665	C GLU A 97	26.438	-4.883	-23.578	1.00	95.44	C
ATOM	666	CB GLU A 97	26.062	-5.660	-25.922	1.00	95.44	C
ATOM	667	O GLU A 97	25.500	-4.910	-22.797	1.00	95.44	O
ATOM	668	CG GLU A 97	25.422	-5.344	-27.266	1.00	95.44	C
ATOM	669	CD GLU A 97	24.031	-4.723	-27.125	1.00	95.44	C
ATOM	670	OE1 GLU A 97	23.688	-3.836	-27.938	1.00	95.44	O
ATOM	671	OE2 GLU A 97	23.297	-5.125	-26.203	1.00	95.44	O

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ATOM	672	N	LYS A 98	27.656	-5.289	-23.234	1.00	95.94	N
ATOM	673	CA	LYS A 98	27.984	-5.645	-21.859	1.00	95.94	C
ATOM	674	C	LYS A 98	27.766	-4.457	-20.922	1.00	95.94	C
ATOM	675	CB	LYS A 98	29.422	-6.137	-21.750	1.00	95.94	C
ATOM	676	O	LYS A 98	27.203	-4.613	-19.828	1.00	95.94	O
ATOM	677	CG	LYS A 98	29.797	-6.676	-20.375	1.00	95.94	C
ATOM	678	CD	LYS A 98	31.250	-7.168	-20.344	1.00	95.94	C
ATOM	679	CE	LYS A 98	31.641	-7.625	-18.953	1.00	95.94	C
ATOM	680	NZ	LYS A 98	33.062	-8.062	-18.906	1.00	95.94	N
ATOM	681	N	LYS A 99	28.188	-3.250	-21.344	1.00	95.31	N
ATOM	682	CA	LYS A 99	28.016	-2.043	-20.547	1.00	95.31	C
ATOM	683	C	LYS A 99	26.547	-1.688	-20.391	1.00	95.31	C
ATOM	684	CB	LYS A 99	28.781	-0.871	-21.172	1.00	95.31	C
ATOM	685	O	LYS A 99	26.125	-1.183	-19.344	1.00	95.31	O
ATOM	686	CG	LYS A 99	30.281	-0.943	-20.984	1.00	95.31	C
ATOM	687	CD	LYS A 99	30.969	0.361	-21.391	1.00	95.31	C
ATOM	688	CE	LYS A 99	32.469	0.328	-21.109	1.00	95.31	C
ATOM	689	NZ	LYS A 99	33.094	1.669	-21.297	1.00	95.31	N
ATOM	690	N	LYS A 100	25.828	-1.924	-21.453	1.00	95.06	N
ATOM	691	CA	LYS A 100	24.391	-1.736	-21.406	1.00	95.06	C
ATOM	692	C	LYS A 100	23.750	-2.621	-20.344	1.00	95.06	C
ATOM	693	CB	LYS A 100	23.766	-2.033	-22.766	1.00	95.06	C
ATOM	694	O	LYS A 100	22.938	-2.154	-19.547	1.00	95.06	O
ATOM	695	CG	LYS A 100	22.250	-1.821	-22.828	1.00	95.06	C
ATOM	696	CD	LYS A 100	21.688	-2.188	-24.188	1.00	95.06	C
ATOM	697	CE	LYS A 100	20.156	-2.131	-24.188	1.00	95.06	C
ATOM	698	NZ	LYS A 100	19.594	-2.559	-25.500	1.00	95.06	N
ATOM	699	N	LYS A 101	24.094	-3.938	-20.281	1.00	96.19	N
ATOM	700	CA	LYS A 101	23.578	-4.887	-19.297	1.00	96.19	C
ATOM	701	C	LYS A 101	24.000	-4.496	-17.875	1.00	96.19	C
ATOM	702	CB	LYS A 101	24.062	-6.305	-19.609	1.00	96.19	C
ATOM	703	O	LYS A 101	23.188	-4.547	-16.953	1.00	96.19	O
ATOM	704	CG	LYS A 101	23.422	-7.383	-18.750	1.00	96.19	C
ATOM	705	CD	LYS A 101	23.891	-8.773	-19.156	1.00	96.19	C
ATOM	706	CE	LYS A 101	23.328	-9.844	-18.234	1.00	96.19	C
ATOM	707	NZ	LYS A 101	23.797	-11.211	-18.609	1.00	96.19	N
ATOM	708	N	GLU A 102	25.234	-4.078	-17.656	1.00	95.62	N
ATOM	709	CA	GLU A 102	25.750	-3.664	-16.359	1.00	95.62	C
ATOM	710	C	GLU A 102	25.031	-2.416	-15.852	1.00	95.62	C
ATOM	711	CB	GLU A 102	27.266	-3.408	-16.422	1.00	95.62	C
ATOM	712	O	GLU A 102	24.703	-2.318	-14.664	1.00	95.62	O
ATOM	713	CG	GLU A 102	28.094	-4.672	-16.594	1.00	95.62	C
ATOM	714	CD	GLU A 102	29.562	-4.395	-16.828	1.00	95.62	C
ATOM	715	OE1	GLU A 102	30.359	-5.359	-16.969	1.00	95.62	O
ATOM	716	OE2	GLU A 102	29.938	-3.203	-16.859	1.00	95.62	O
ATOM	717	N	ALA A 103	24.844	-1.463	-16.797	1.00	95.19	N
ATOM	718	CA	ALA A 103	24.156	-0.230	-16.438	1.00	95.19	C
ATOM	719	C	ALA A 103	22.703	-0.516	-16.031	1.00	95.19	C
ATOM	720	CB	ALA A 103	24.172	0.757	-17.609	1.00	95.19	C
ATOM	721	O	ALA A 103	22.203	0.073	-15.070	1.00	95.19	O
ATOM	722	N	LYS A 104	22.109	-1.481	-16.781	1.00	96.19	N
ATOM	723	CA	LYS A 104	20.750	-1.907	-16.453	1.00	96.19	C
ATOM	724	C	LYS A 104	20.688	-2.512	-15.055	1.00	96.19	C

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ATOM	725	CB	LYS A 104	20.234	-2.916	-17.484	1.00	96.19	C
ATOM	726	O	LYS A 104	19.812	-2.158	-14.266	1.00	96.19	O
ATOM	727	CG	LYS A 104	18.797	-3.348	-17.266	1.00	96.19	C
ATOM	728	CD	LYS A 104	18.359	-4.367	-18.312	1.00	96.19	C
ATOM	729	CE	LYS A 104	16.953	-4.906	-18.016	1.00	96.19	C
ATOM	730	NZ	LYS A 104	16.547	-5.941	-19.016	1.00	96.19	N
ATOM	731	N	GLU A 105	21.547	-3.408	-14.703	1.00	96.25	N
ATOM	732	CA	GLU A 105	21.562	-4.086	-13.406	1.00	96.25	C
ATOM	733	C	GLU A 105	21.875	-3.105	-12.281	1.00	96.25	C
ATOM	734	CB	GLU A 105	22.594	-5.219	-13.414	1.00	96.25	C
ATOM	735	O	GLU A 105	21.250	-3.172	-11.211	1.00	96.25	O
ATOM	736	CG	GLU A 105	22.188	-6.418	-14.258	1.00	96.25	C
ATOM	737	CD	GLU A 105	23.266	-7.480	-14.352	1.00	96.25	C
ATOM	738	OE1	GLU A 105	23.047	-8.508	-15.031	1.00	96.25	O
ATOM	739	OE2	GLU A 105	24.344	-7.289	-13.727	1.00	96.25	O
ATOM	740	N	GLU A 106	22.766	-2.236	-12.562	1.00	96.44	N
ATOM	741	CA	GLU A 106	23.125	-1.240	-11.555	1.00	96.44	C
ATOM	742	C	GLU A 106	21.969	-0.296	-11.266	1.00	96.44	C
ATOM	743	CB	GLU A 106	24.359	-0.444	-12.008	1.00	96.44	C
ATOM	744	O	GLU A 106	21.719	0.050	-10.109	1.00	96.44	O
ATOM	745	CG	GLU A 106	24.906	0.507	-10.953	1.00	96.44	C
ATOM	746	CD	GLU A 106	26.219	1.154	-11.344	1.00	96.44	C
ATOM	747	OE1	GLU A 106	26.719	2.027	-10.594	1.00	96.44	O
ATOM	748	OE2	GLU A 106	26.766	0.786	-12.414	1.00	96.44	O
ATOM	749	N	ALA A 107	21.312	0.234	-12.297	1.00	95.56	N
ATOM	750	CA	ALA A 107	20.156	1.120	-12.109	1.00	95.56	C
ATOM	751	C	ALA A 107	19.047	0.427	-11.320	1.00	95.56	C
ATOM	752	CB	ALA A 107	19.625	1.590	-13.469	1.00	95.56	C
ATOM	753	O	ALA A 107	18.453	1.027	-10.430	1.00	95.56	O
ATOM	754	N	GLU A 108	18.812	-0.884	-11.625	1.00	95.75	N
ATOM	755	CA	GLU A 108	17.797	-1.657	-10.922	1.00	95.75	C
ATOM	756	C	GLU A 108	18.156	-1.831	-9.445	1.00	95.75	C
ATOM	757	CB	GLU A 108	17.609	-3.025	-11.578	1.00	95.75	C
ATOM	758	O	GLU A 108	17.297	-1.678	-8.570	1.00	95.75	O
ATOM	759	CG	GLU A 108	16.844	-2.973	-12.891	1.00	95.75	C
ATOM	760	CD	GLU A 108	16.672	-4.336	-13.547	1.00	95.75	C
ATOM	761	OE1	GLU A 108	15.766	-4.496	-14.398	1.00	95.75	O
ATOM	762	OE2	GLU A 108	17.453	-5.250	-13.211	1.00	95.75	O
ATOM	763	N	LYS A 109	19.391	-2.199	-9.242	1.00	94.69	N
ATOM	764	CA	LYS A 109	19.859	-2.377	-7.867	1.00	94.69	C
ATOM	765	C	LYS A 109	19.750	-1.075	-7.078	1.00	94.69	C
ATOM	766	CB	LYS A 109	21.312	-2.881	-7.855	1.00	94.69	C
ATOM	767	O	LYS A 109	19.328	-1.078	-5.926	1.00	94.69	O
ATOM	768	CG	LYS A 109	21.812	-3.256	-6.473	1.00	94.69	C
ATOM	769	CD	LYS A 109	23.250	-3.775	-6.527	1.00	94.69	C
ATOM	770	CE	LYS A 109	23.797	-4.074	-5.133	1.00	94.69	C
ATOM	771	NZ	LYS A 109	25.203	-4.543	-5.180	1.00	94.69	N
ATOM	772	N	THR A 110	20.125	0.001	-7.684	1.00	95.31	N
ATOM	773	CA	THR A 110	20.062	1.306	-7.035	1.00	95.31	C
ATOM	774	C	THR A 110	18.625	1.684	-6.711	1.00	95.31	C
ATOM	775	CB	THR A 110	20.703	2.398	-7.918	1.00	95.31	C
ATOM	776	O	THR A 110	18.344	2.162	-5.609	1.00	95.31	O
ATOM	777	CG2	THR A 110	20.625	3.764	-7.246	1.00	95.31	C

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ATOM	778	OG1 THR A 110	22.078	2.076	-8.156	1.00	95.31	O
ATOM	779	N ALA A 111	17.688	1.501	-7.648	1.00	94.69	N
ATOM	780	CA ALA A 111	16.266	1.801	-7.418	1.00	94.69	C
ATOM	781	C ALA A 111	15.711	0.962	-6.273	1.00	94.69	C
ATOM	782	CB ALA A 111	15.461	1.564	-8.688	1.00	94.69	C
ATOM	783	O ALA A 111	14.953	1.464	-5.441	1.00	94.69	O
ATOM	784	N LYS A 112	16.141	-0.369	-6.195	1.00	92.38	N
ATOM	785	CA LYS A 112	15.719	-1.264	-5.121	1.00	92.38	C
ATOM	786	C LYS A 112	16.219	-0.770	-3.768	1.00	92.38	C
ATOM	787	CB LYS A 112	16.219	-2.686	-5.379	1.00	92.38	C
ATOM	788	O LYS A 112	15.484	-0.785	-2.783	1.00	92.38	O
ATOM	789	CG LYS A 112	15.414	-3.445	-6.422	1.00	92.38	C
ATOM	790	CD LYS A 112	15.914	-4.875	-6.582	1.00	92.38	C
ATOM	791	CE LYS A 112	15.148	-5.617	-7.672	1.00	92.38	C
ATOM	792	NZ LYS A 112	15.680	-7.000	-7.871	1.00	92.38	N
ATOM	793	N GLU A 113	17.406	-0.279	-3.721	1.00	93.56	N
ATOM	794	CA GLU A 113	17.984	0.219	-2.479	1.00	93.56	C
ATOM	795	C GLU A 113	17.312	1.509	-2.027	1.00	93.56	C
ATOM	796	CB GLU A 113	19.500	0.447	-2.645	1.00	93.56	C
ATOM	797	O GLU A 113	17.062	1.700	-0.836	1.00	93.56	O
ATOM	798	CG GLU A 113	20.312	-0.837	-2.691	1.00	93.56	C
ATOM	799	CD GLU A 113	20.125	-1.710	-1.460	1.00	93.56	C
ATOM	800	OE1 GLU A 113	20.000	-2.947	-1.606	1.00	93.56	O
ATOM	801	OE2 GLU A 113	20.109	-1.153	-0.340	1.00	93.56	O
ATOM	802	N LEU A 114	17.047	2.316	-3.000	1.00	95.38	N
ATOM	803	CA LEU A 114	16.344	3.553	-2.676	1.00	95.38	C
ATOM	804	C LEU A 114	14.977	3.260	-2.086	1.00	95.38	C
ATOM	805	CB LEU A 114	16.203	4.434	-3.920	1.00	95.38	C
ATOM	806	O LEU A 114	14.570	3.881	-1.101	1.00	95.38	O
ATOM	807	CG LEU A 114	17.500	5.043	-4.469	1.00	95.38	C
ATOM	808	CD1 LEU A 114	17.219	5.820	-5.750	1.00	95.38	C
ATOM	809	CD2 LEU A 114	18.156	5.938	-3.426	1.00	95.38	C
ATOM	810	N LEU A 115	14.219	2.340	-2.770	1.00	93.12	N
ATOM	811	CA LEU A 115	12.898	1.972	-2.285	1.00	93.12	C
ATOM	812	C LEU A 115	12.969	1.416	-0.866	1.00	93.12	C
ATOM	813	CB LEU A 115	12.250	0.940	-3.215	1.00	93.12	C
ATOM	814	O LEU A 115	12.148	1.762	-0.015	1.00	93.12	O
ATOM	815	CG LEU A 115	10.812	0.545	-2.896	1.00	93.12	C
ATOM	816	CD1 LEU A 115	9.875	1.731	-3.111	1.00	93.12	C
ATOM	817	CD2 LEU A 115	10.375	-0.642	-3.750	1.00	93.12	C
ATOM	818	N LYS A 116	13.984	0.672	-0.686	1.00	90.94	N
ATOM	819	CA LYS A 116	14.211	0.120	0.647	1.00	90.94	C
ATOM	820	C LYS A 116	14.375	1.230	1.682	1.00	90.94	C
ATOM	821	CB LYS A 116	15.445	-0.782	0.651	1.00	90.94	C
ATOM	822	O LYS A 116	13.742	1.192	2.742	1.00	90.94	O
ATOM	823	CG LYS A 116	15.820	-1.312	2.027	1.00	90.94	C
ATOM	824	CD LYS A 116	17.141	-2.080	1.992	1.00	90.94	C
ATOM	825	CE LYS A 116	17.609	-2.434	3.393	1.00	90.94	C
ATOM	826	NZ LYS A 116	18.969	-3.074	3.371	1.00	90.94	N
ATOM	827	N GLU A 117	15.203	2.121	1.448	1.00	93.00	N
ATOM	828	CA GLU A 117	15.469	3.248	2.338	1.00	93.00	C
ATOM	829	C GLU A 117	14.195	4.031	2.635	1.00	93.00	C
ATOM	830	CB GLU A 117	16.531	4.176	1.731	1.00	93.00	C

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ATOM	831	O	GLU A 117	13.922	4.367	3.789	1.00	93.00	O
ATOM	832	CG	GLU A 117	16.922	5.328	2.641	1.00	93.00	C
ATOM	833	CD	GLU A 117	17.953	6.258	2.012	1.00	93.00	C
ATOM	834	OE1	GLU A 117	18.203	7.348	2.572	1.00	93.00	O
ATOM	835	OE2	GLU A 117	18.500	5.895	0.948	1.00	93.00	O
ATOM	836	N	LEU A 118	13.414	4.238	1.619	1.00	94.81	N
ATOM	837	CA	LEU A 118	12.188	5.020	1.776	1.00	94.81	C
ATOM	838	C	LEU A 118	11.141	4.238	2.562	1.00	94.81	C
ATOM	839	CB	LEU A 118	11.625	5.418	0.409	1.00	94.81	C
ATOM	840	O	LEU A 118	10.508	4.781	3.467	1.00	94.81	O
ATOM	841	CG	LEU A 118	12.438	6.438	-0.387	1.00	94.81	C
ATOM	842	CD1	LEU A 118	11.828	6.648	-1.767	1.00	94.81	C
ATOM	843	CD2	LEU A 118	12.531	7.762	0.370	1.00	94.81	C
ATOM	844	N	ALA A 119	10.977	2.926	2.217	1.00	91.44	N
ATOM	845	CA	ALA A 119	9.961	2.080	2.836	1.00	91.44	C
ATOM	846	C	ALA A 119	10.195	1.955	4.340	1.00	91.44	C
ATOM	847	CB	ALA A 119	9.945	0.699	2.186	1.00	91.44	C
ATOM	848	O	ALA A 119	9.242	1.904	5.121	1.00	91.44	O
ATOM	849	N	GLU A 120	11.406	1.963	4.812	1.00	91.44	N
ATOM	850	CA	GLU A 120	11.727	1.822	6.230	1.00	91.44	C
ATOM	851	C	GLU A 120	11.320	3.066	7.016	1.00	91.44	C
ATOM	852	CB	GLU A 120	13.219	1.549	6.414	1.00	91.44	C
ATOM	853	O	GLU A 120	11.141	3.008	8.234	1.00	91.44	O
ATOM	854	CG	GLU A 120	13.633	0.124	6.074	1.00	91.44	C
ATOM	855	CD	GLU A 120	15.117	-0.138	6.277	1.00	91.44	C
ATOM	856	OE1	GLU A 120	15.531	-1.318	6.258	1.00	91.44	O
ATOM	857	OE2	GLU A 120	15.867	0.846	6.457	1.00	91.44	O
ATOM	858	N	LYS A 121	11.078	4.117	6.297	1.00	94.31	N
ATOM	859	CA	LYS A 121	10.719	5.363	6.969	1.00	94.31	C
ATOM	860	C	LYS A 121	9.211	5.480	7.137	1.00	94.31	C
ATOM	861	CB	LYS A 121	11.258	6.566	6.188	1.00	94.31	C
ATOM	862	O	LYS A 121	8.727	6.383	7.828	1.00	94.31	O
ATOM	863	CG	LYS A 121	12.773	6.707	6.230	1.00	94.31	C
ATOM	864	CD	LYS A 121	13.234	7.957	5.488	1.00	94.31	C
ATOM	865	CE	LYS A 121	14.750	8.086	5.508	1.00	94.31	C
ATOM	866	NZ	LYS A 121	15.219	9.266	4.723	1.00	94.31	N
ATOM	867	N	VAL A 122	8.492	4.453	6.562	1.00	93.44	N
ATOM	868	CA	VAL A 122	7.035	4.516	6.656	1.00	93.44	C
ATOM	869	C	VAL A 122	6.594	4.148	8.070	1.00	93.44	C
ATOM	870	CB	VAL A 122	6.359	3.586	5.629	1.00	93.44	C
ATOM	871	O	VAL A 122	6.906	3.064	8.562	1.00	93.44	O
ATOM	872	CG1	VAL A 122	4.855	3.486	5.891	1.00	93.44	C
ATOM	873	CG2	VAL A 122	6.621	4.078	4.207	1.00	93.44	C
ATOM	874	N	SER A 123	5.953	5.070	8.727	1.00	95.88	N
ATOM	875	CA	SER A 123	5.305	4.906	10.023	1.00	95.88	C
ATOM	876	C	SER A 123	4.117	5.852	10.172	1.00	95.88	C
ATOM	877	CB	SER A 123	6.305	5.152	11.156	1.00	95.88	C
ATOM	878	O	SER A 123	4.293	7.062	10.312	1.00	95.88	O
ATOM	879	OG	SER A 123	5.699	4.941	12.422	1.00	95.88	O
ATOM	880	N	LEU A 124	2.945	5.316	10.031	1.00	97.81	N
ATOM	881	CA	LEU A 124	1.738	6.133	10.086	1.00	97.81	C
ATOM	882	C	LEU A 124	0.841	5.707	11.242	1.00	97.81	C
ATOM	883	CB	LEU A 124	0.970	6.039	8.766	1.00	97.81	C

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ATOM	884	O	LEU A 124	0.764	4.520	11.570	1.00	97.81	O
ATOM	885	CG	LEU A 124	1.706	6.523	7.516	1.00	97.81	C
ATOM	886	CD1	LEU A 124	0.890	6.211	6.266	1.00	97.81	C
ATOM	887	CD2	LEU A 124	1.995	8.016	7.609	1.00	97.81	C
ATOM	888	N	THR A 125	0.298	6.660	11.906	1.00	97.75	N
ATOM	889	CA	THR A 125	-0.707	6.426	12.938	1.00	97.75	C
ATOM	890	C	THR A 125	-1.989	7.191	12.633	1.00	97.75	C
ATOM	891	CB	THR A 125	-0.186	6.828	14.328	1.00	97.75	C
ATOM	892	O	THR A 125	-1.943	8.367	12.258	1.00	97.75	O
ATOM	893	CG2	THR A 125	-1.226	6.547	15.414	1.00	97.75	C
ATOM	894	OG1	THR A 125	1.004	6.086	14.625	1.00	97.75	O
ATOM	895	N	ALA A 126	-3.145	6.477	12.680	1.00	97.50	N
ATOM	896	CA	ALA A 126	-4.457	7.098	12.547	1.00	97.50	C
ATOM	897	C	ALA A 126	-5.398	6.641	13.656	1.00	97.50	C
ATOM	898	CB	ALA A 126	-5.062	6.785	11.180	1.00	97.50	C
ATOM	899	O	ALA A 126	-5.465	5.449	13.969	1.00	97.50	O
ATOM	900	N	SER A 127	-6.062	7.691	14.258	1.00	97.88	N
ATOM	901	CA	SER A 127	-6.980	7.383	15.352	1.00	97.88	C
ATOM	902	C	SER A 127	-8.344	8.031	15.133	1.00	97.88	C
ATOM	903	CB	SER A 127	-6.395	7.840	16.688	1.00	97.88	C
ATOM	904	O	SER A 127	-8.422	9.219	14.805	1.00	97.88	O
ATOM	905	OG	SER A 127	-5.152	7.211	16.938	1.00	97.88	O
ATOM	906	N	ALA A 128	-9.375	7.215	15.234	1.00	97.56	N
ATOM	907	CA	ALA A 128	-10.742	7.711	15.094	1.00	97.56	C
ATOM	908	C	ALA A 128	-11.586	7.355	16.312	1.00	97.56	C
ATOM	909	CB	ALA A 128	-11.383	7.152	13.828	1.00	97.56	C
ATOM	910	O	ALA A 128	-11.328	6.355	16.984	1.00	97.56	O
ATOM	911	N	SER A 129	-12.508	8.312	16.656	1.00	97.75	N
ATOM	912	CA	SER A 129	-13.422	8.086	17.766	1.00	97.75	C
ATOM	913	C	SER A 129	-14.852	8.453	17.391	1.00	97.75	C
ATOM	914	CB	SER A 129	-12.984	8.883	19.000	1.00	97.75	C
ATOM	915	O	SER A 129	-15.078	9.242	16.484	1.00	97.75	O
ATOM	916	OG	SER A 129	-13.008	10.273	18.719	1.00	97.75	O
ATOM	917	N	ALA A 130	-15.781	7.707	17.922	1.00	97.31	N
ATOM	918	CA	ALA A 130	-17.203	7.980	17.719	1.00	97.31	C
ATOM	919	C	ALA A 130	-17.984	7.777	19.016	1.00	97.31	C
ATOM	920	CB	ALA A 130	-17.766	7.090	16.609	1.00	97.31	C
ATOM	921	O	ALA A 130	-17.562	7.039	19.891	1.00	97.31	O
ATOM	922	N	SER A 131	-19.094	8.586	19.109	1.00	97.38	N
ATOM	923	CA	SER A 131	-19.969	8.484	20.281	1.00	97.38	C
ATOM	924	C	SER A 131	-21.438	8.555	19.875	1.00	97.38	C
ATOM	925	CB	SER A 131	-19.641	9.594	21.281	1.00	97.38	C
ATOM	926	O	SER A 131	-21.781	9.195	18.891	1.00	97.38	O
ATOM	927	OG	SER A 131	-20.516	9.531	22.391	1.00	97.38	O
ATOM	928	N	ALA A 132	-22.266	7.734	20.484	1.00	96.69	N
ATOM	929	CA	ALA A 132	-23.719	7.762	20.344	1.00	96.69	C
ATOM	930	C	ALA A 132	-24.391	7.734	21.703	1.00	96.69	C
ATOM	931	CB	ALA A 132	-24.188	6.590	19.484	1.00	96.69	C
ATOM	932	O	ALA A 132	-23.938	7.059	22.625	1.00	96.69	O
ATOM	933	N	SER A 133	-25.500	8.562	21.781	1.00	96.88	N
ATOM	934	CA	SER A 133	-26.188	8.648	23.078	1.00	96.88	C
ATOM	935	C	SER A 133	-27.688	8.719	22.906	1.00	96.88	C
ATOM	936	CB	SER A 133	-25.688	9.875	23.859	1.00	96.88	C

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ATOM	937	O	SER A 133	-28.188	9.273	21.922	1.00	96.88	O
ATOM	938	OG	SER A 133	-26.391	10.000	25.078	1.00	96.88	O
ATOM	939	N	ILE A 134	-28.422	8.023	23.766	1.00	96.06	N
ATOM	940	CA	ILE A 134	-29.891	8.055	23.828	1.00	96.06	C
ATOM	941	C	ILE A 134	-30.344	8.352	25.250	1.00	96.06	C
ATOM	942	CB	ILE A 134	-30.500	6.730	23.328	1.00	96.06	C
ATOM	943	O	ILE A 134	-29.797	7.797	26.203	1.00	96.06	O
ATOM	944	CG1	ILE A 134	-30.141	6.484	21.859	1.00	96.06	C
ATOM	945	CG2	ILE A 134	-32.031	6.738	23.516	1.00	96.06	C
ATOM	946	CD1	ILE A 134	-30.469	5.086	21.359	1.00	96.06	C
ATOM	947	N	THR A 135	-31.266	9.344	25.359	1.00	93.12	N
ATOM	948	CA	THR A 135	-31.891	9.625	26.641	1.00	93.12	C
ATOM	949	C	THR A 135	-33.375	9.281	26.609	1.00	93.12	C
ATOM	950	CB	THR A 135	-31.703	11.094	27.062	1.00	93.12	C
ATOM	951	O	THR A 135	-34.094	9.688	25.688	1.00	93.12	O
ATOM	952	CG2	THR A 135	-32.344	11.375	28.422	1.00	93.12	C
ATOM	953	OG1	THR A 135	-30.297	11.391	27.125	1.00	93.12	O
ATOM	954	N	TYR A 136	-33.812	8.406	27.578	1.00	90.19	N
ATOM	955	CA	TYR A 136	-35.219	8.047	27.703	1.00	90.19	C
ATOM	956	C	TYR A 136	-35.656	8.047	29.156	1.00	90.19	C
ATOM	957	CB	TYR A 136	-35.469	6.668	27.078	1.00	90.19	C
ATOM	958	O	TYR A 136	-35.062	7.352	30.000	1.00	90.19	O
ATOM	959	CG	TYR A 136	-36.906	6.234	27.156	1.00	90.19	C
ATOM	960	CD1	TYR A 136	-37.344	5.289	28.078	1.00	90.19	C
ATOM	961	CD2	TYR A 136	-37.875	6.770	26.281	1.00	90.19	C
ATOM	962	CE1	TYR A 136	-38.688	4.887	28.141	1.00	90.19	C
ATOM	963	CE2	TYR A 136	-39.188	6.375	26.328	1.00	90.19	C
ATOM	964	OH	TYR A 136	-40.906	5.043	27.328	1.00	90.19	O
ATOM	965	CZ	TYR A 136	-39.594	5.438	27.266	1.00	90.19	C
ATOM	966	N	ASN A 137	-36.719	8.859	29.516	1.00	87.88	N
ATOM	967	CA	ASN A 137	-37.281	8.977	30.844	1.00	87.88	C
ATOM	968	C	ASN A 137	-36.219	9.188	31.906	1.00	87.88	C
ATOM	969	CB	ASN A 137	-38.125	7.734	31.172	1.00	87.88	C
ATOM	970	O	ASN A 137	-36.219	8.539	32.938	1.00	87.88	O
ATOM	971	CG	ASN A 137	-39.438	7.707	30.438	1.00	87.88	C
ATOM	972	ND2	ASN A 137	-40.094	6.547	30.422	1.00	87.88	N
ATOM	973	OD1	ASN A 137	-39.875	8.719	29.891	1.00	87.88	O
ATOM	974	N	GLY A 138	-35.156	10.023	31.516	1.00	89.31	N
ATOM	975	CA	GLY A 138	-34.156	10.375	32.500	1.00	89.31	C
ATOM	976	C	GLY A 138	-33.000	9.398	32.500	1.00	89.31	C
ATOM	977	O	GLY A 138	-32.031	9.586	33.281	1.00	89.31	O
ATOM	978	N	ILE A 139	-33.062	8.312	31.750	1.00	89.94	N
ATOM	979	CA	ILE A 139	-31.969	7.359	31.625	1.00	89.94	C
ATOM	980	C	ILE A 139	-31.203	7.633	30.344	1.00	89.94	C
ATOM	981	CB	ILE A 139	-32.500	5.902	31.641	1.00	89.94	C
ATOM	982	O	ILE A 139	-31.797	7.730	29.266	1.00	89.94	O
ATOM	983	CG1	ILE A 139	-33.250	5.625	32.938	1.00	89.94	C
ATOM	984	CG2	ILE A 139	-31.328	4.918	31.469	1.00	89.94	C
ATOM	985	CD1	ILE A 139	-32.375	5.633	34.188	1.00	89.94	C
ATOM	986	N	THR A 140	-29.906	7.793	30.453	1.00	93.06	N
ATOM	987	CA	THR A 140	-29.031	8.039	29.328	1.00	93.06	C
ATOM	988	C	THR A 140	-28.141	6.832	29.062	1.00	93.06	C
ATOM	989	CB	THR A 140	-28.156	9.289	29.562	1.00	93.06	C

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ATOM	990	O	THR A 140	-27.531	6.293	29.984	1.00	93.06	O
ATOM	991	CG2	THR A 140	-27.250	9.555	28.375	1.00	93.06	C
ATOM	992	OG1	THR A 140	-29.000	10.422	29.766	1.00	93.06	O
ATOM	993	N	VAL A 141	-28.172	6.352	27.797	1.00	93.12	N
ATOM	994	CA	VAL A 141	-27.234	5.336	27.328	1.00	93.12	C
ATOM	995	C	VAL A 141	-26.219	5.969	26.375	1.00	93.12	C
ATOM	996	CB	VAL A 141	-27.969	4.172	26.625	1.00	93.12	C
ATOM	997	O	VAL A 141	-26.594	6.582	25.375	1.00	93.12	O
ATOM	998	CG1	VAL A 141	-26.969	3.088	26.203	1.00	93.12	C
ATOM	999	CG2	VAL A 141	-29.047	3.592	27.531	1.00	93.12	C
ATOM	1000	N	THR A 142	-24.984	5.852	26.766	1.00	95.69	N
ATOM	1001	CA	THR A 142	-23.891	6.375	25.953	1.00	95.69	C
ATOM	1002	C	THR A 142	-22.953	5.254	25.531	1.00	95.69	C
ATOM	1003	CB	THR A 142	-23.094	7.453	26.719	1.00	95.69	C
ATOM	1004	O	THR A 142	-22.531	4.430	26.344	1.00	95.69	O
ATOM	1005	CG2	THR A 142	-22.000	8.047	25.844	1.00	95.69	C
ATOM	1006	OG1	THR A 142	-23.984	8.500	27.125	1.00	95.69	O
ATOM	1007	N	ALA A 143	-22.672	5.137	24.281	1.00	95.25	N
ATOM	1008	CA	ALA A 143	-21.672	4.219	23.750	1.00	95.25	C
ATOM	1009	C	ALA A 143	-20.547	4.984	23.047	1.00	95.25	C
ATOM	1010	CB	ALA A 143	-22.312	3.234	22.766	1.00	95.25	C
ATOM	1011	O	ALA A 143	-20.797	5.922	22.297	1.00	95.25	O
ATOM	1012	N	ASN A 144	-19.344	4.602	23.391	1.00	96.56	N
ATOM	1013	CA	ASN A 144	-18.141	5.172	22.797	1.00	96.56	C
ATOM	1014	C	ASN A 144	-17.281	4.094	22.141	1.00	96.56	C
ATOM	1015	CB	ASN A 144	-17.344	5.945	23.844	1.00	96.56	C
ATOM	1016	O	ASN A 144	-17.203	2.965	22.641	1.00	96.56	O
ATOM	1017	CG	ASN A 144	-18.141	7.082	24.453	1.00	96.56	C
ATOM	1018	ND2	ASN A 144	-18.438	6.965	25.750	1.00	96.56	N
ATOM	1019	OD1	ASN A 144	-18.469	8.055	23.781	1.00	96.56	O
ATOM	1020	N	ALA A 145	-16.734	4.383	21.031	1.00	96.19	N
ATOM	1021	CA	ALA A 145	-15.797	3.477	20.375	1.00	96.19	C
ATOM	1022	C	ALA A 145	-14.609	4.242	19.797	1.00	96.19	C
ATOM	1023	CB	ALA A 145	-16.500	2.676	19.281	1.00	96.19	C
ATOM	1024	O	ALA A 145	-14.750	5.395	19.375	1.00	96.19	O
ATOM	1025	N	ASN A 146	-13.492	3.564	19.875	1.00	96.69	N
ATOM	1026	CA	ASN A 146	-12.266	4.117	19.312	1.00	96.69	C
ATOM	1027	C	ASN A 146	-11.469	3.053	18.562	1.00	96.69	C
ATOM	1028	CB	ASN A 146	-11.406	4.766	20.391	1.00	96.69	C
ATOM	1029	O	ASN A 146	-11.555	1.865	18.891	1.00	96.69	O
ATOM	1030	CG	ASN A 146	-10.969	3.779	21.453	1.00	96.69	C
ATOM	1031	ND2	ASN A 146	-11.148	4.152	22.719	1.00	96.69	N
ATOM	1032	OD1	ASN A 146	-10.477	2.693	21.156	1.00	96.69	O
ATOM	1033	N	VAL A 147	-10.859	3.455	17.469	1.00	97.62	N
ATOM	1034	CA	VAL A 147	-9.930	2.578	16.766	1.00	97.62	C
ATOM	1035	C	VAL A 147	-8.602	3.299	16.562	1.00	97.62	C
ATOM	1036	CB	VAL A 147	-10.500	2.105	15.414	1.00	97.62	C
ATOM	1037	O	VAL A 147	-8.570	4.477	16.203	1.00	97.62	O
ATOM	1038	CG1	VAL A 147	-10.656	3.285	14.453	1.00	97.62	C
ATOM	1039	CG2	VAL A 147	-9.594	1.033	14.805	1.00	97.62	C
ATOM	1040	N	ASN A 148	-7.539	2.609	16.969	1.00	97.38	N
ATOM	1041	CA	ASN A 148	-6.172	3.059	16.734	1.00	97.38	C
ATOM	1042	C	ASN A 148	-5.438	2.137	15.766	1.00	97.38	C

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ATOM	1043	CB	ASN A 148	-5.406	3.160	18.062	1.00	97.38	C
ATOM	1044	O	ASN A 148	-5.301	0.939	16.031	1.00	97.38	O
ATOM	1045	CG	ASN A 148	-5.973	4.223	18.984	1.00	97.38	C
ATOM	1046	ND2	ASN A 148	-5.832	4.016	20.281	1.00	97.38	N
ATOM	1047	OD1	ASN A 148	-6.535	5.223	18.516	1.00	97.38	O
ATOM	1048	N	ALA A 149	-5.020	2.699	14.672	1.00	97.38	N
ATOM	1049	CA	ALA A 149	-4.324	1.907	13.664	1.00	97.38	C
ATOM	1050	C	ALA A 149	-2.893	2.404	13.469	1.00	97.38	C
ATOM	1051	CB	ALA A 149	-5.078	1.945	12.336	1.00	97.38	C
ATOM	1052	O	ALA A 149	-2.648	3.613	13.430	1.00	97.38	O
ATOM	1053	N	ASN A 150	-2.004	1.397	13.383	1.00	97.75	N
ATOM	1054	CA	ASN A 150	-0.586	1.689	13.188	1.00	97.75	C
ATOM	1055	C	ASN A 150	0.005	0.865	12.055	1.00	97.75	C
ATOM	1056	CB	ASN A 150	0.193	1.444	14.484	1.00	97.75	C
ATOM	1057	O	ASN A 150	-0.079	-0.365	12.062	1.00	97.75	O
ATOM	1058	CG	ASN A 150	1.645	1.868	14.383	1.00	97.75	C
ATOM	1059	ND2	ASN A 150	2.098	2.670	15.336	1.00	97.75	N
ATOM	1060	OD1	ASN A 150	2.354	1.479	13.445	1.00	97.75	O
ATOM	1061	N	LEU A 151	0.500	1.555	11.062	1.00	97.12	N
ATOM	1062	CA	LEU A 151	1.176	0.923	9.938	1.00	97.12	C
ATOM	1063	C	LEU A 151	2.688	1.096	10.039	1.00	97.12	C
ATOM	1064	CB	LEU A 151	0.675	1.511	8.617	1.00	97.12	C
ATOM	1065	O	LEU A 151	3.182	2.219	10.156	1.00	97.12	O
ATOM	1066	CG	LEU A 151	1.351	0.993	7.344	1.00	97.12	C
ATOM	1067	CD1	LEU A 151	1.012	-0.478	7.125	1.00	97.12	C
ATOM	1068	CD2	LEU A 151	0.934	1.828	6.137	1.00	97.12	C
ATOM	1069	N	THR A 152	3.375	-0.023	10.086	1.00	94.44	N
ATOM	1070	CA	THR A 152	4.832	0.012	10.148	1.00	94.44	C
ATOM	1071	C	THR A 152	5.445	-0.887	9.078	1.00	94.44	C
ATOM	1072	CB	THR A 152	5.340	-0.419	11.539	1.00	94.44	C
ATOM	1073	O	THR A 152	4.773	-1.778	8.555	1.00	94.44	O
ATOM	1074	CG2	THR A 152	4.832	0.520	12.625	1.00	94.44	C
ATOM	1075	OG1	THR A 152	4.879	-1.748	11.820	1.00	94.44	O
ATOM	1076	N	ALA A 153	6.637	-0.593	8.703	1.00	92.81	N
ATOM	1077	CA	ALA A 153	7.379	-1.367	7.711	1.00	92.81	C
ATOM	1078	C	ALA A 153	8.680	-1.911	8.297	1.00	92.81	C
ATOM	1079	CB	ALA A 153	7.672	-0.512	6.480	1.00	92.81	C
ATOM	1080	O	ALA A 153	9.312	-1.257	9.125	1.00	92.81	O
ATOM	1081	N	THR A 154	8.891	-3.166	7.984	1.00	88.25	N
ATOM	1082	CA	THR A 154	10.180	-3.762	8.328	1.00	88.25	C
ATOM	1083	C	THR A 154	10.828	-4.395	7.098	1.00	88.25	C
ATOM	1084	CB	THR A 154	10.023	-4.820	9.430	1.00	88.25	C
ATOM	1085	O	THR A 154	10.133	-4.895	6.211	1.00	88.25	O
ATOM	1086	CG2	THR A 154	9.500	-4.199	10.727	1.00	88.25	C
ATOM	1087	OG1	THR A 154	9.109	-5.832	8.992	1.00	88.25	O
ATOM	1088	N	TYR A 155	12.094	-4.289	7.059	1.00	82.88	N
ATOM	1089	CA	TYR A 155	12.898	-4.934	6.027	1.00	82.88	C
ATOM	1090	C	TYR A 155	13.758	-6.043	6.617	1.00	82.88	C
ATOM	1091	CB	TYR A 155	13.789	-3.906	5.316	1.00	82.88	C
ATOM	1092	O	TYR A 155	14.477	-5.828	7.598	1.00	82.88	O
ATOM	1093	CG	TYR A 155	14.695	-4.508	4.273	1.00	82.88	C
ATOM	1094	CD1	TYR A 155	16.062	-4.664	4.520	1.00	82.88	C
ATOM	1095	CD2	TYR A 155	14.203	-4.922	3.045	1.00	82.88	C

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ATOM	1096	CE1 TYR A 155	16.906	-5.215	3.564	1.00	82.88	C
ATOM	1097	CE2 TYR A 155	15.039	-5.477	2.080	1.00	82.88	C
ATOM	1098	OH TYR A 155	17.219	-6.168	1.398	1.00	82.88	O
ATOM	1099	CZ TYR A 155	16.391	-5.621	2.350	1.00	82.88	C
ATOM	1100	N ASP A 156	13.555	-7.145	6.000	1.00	82.25	N
ATOM	1101	CA ASP A 156	14.398	-8.281	6.367	1.00	82.25	C
ATOM	1102	C ASP A 156	15.641	-8.344	5.480	1.00	82.25	C
ATOM	1103	CB ASP A 156	13.617	-9.586	6.273	1.00	82.25	C
ATOM	1104	O ASP A 156	15.547	-8.695	4.301	1.00	82.25	O
ATOM	1105	CG ASP A 156	14.391	-10.781	6.801	1.00	82.25	C
ATOM	1106	OD1 ASP A 156	15.641	-10.734	6.828	1.00	82.25	O
ATOM	1107	OD2 ASP A 156	13.750	-11.781	7.191	1.00	82.25	O
ATOM	1108	N LYS A 157	16.875	-8.047	6.168	1.00	75.44	N
ATOM	1109	CA LYS A 157	18.156	-8.000	5.445	1.00	75.44	C
ATOM	1110	C LYS A 157	18.516	-9.375	4.883	1.00	75.44	C
ATOM	1111	CB LYS A 157	19.266	-7.500	6.359	1.00	75.44	C
ATOM	1112	O LYS A 157	19.078	-9.469	3.793	1.00	75.44	O
ATOM	1113	CG LYS A 157	19.172	-6.020	6.703	1.00	75.44	C
ATOM	1114	CD LYS A 157	20.375	-5.559	7.527	1.00	75.44	C
ATOM	1115	CE LYS A 157	20.250	-4.090	7.910	1.00	75.44	C
ATOM	1116	NZ LYS A 157	21.406	-3.637	8.734	1.00	75.44	N
ATOM	1117	N ALA A 158	18.078	-10.406	5.602	1.00	78.25	N
ATOM	1118	CA ALA A 158	18.438	-11.773	5.211	1.00	78.25	C
ATOM	1119	C ALA A 158	17.703	-12.188	3.938	1.00	78.25	C
ATOM	1120	CB ALA A 158	18.125	-12.750	6.344	1.00	78.25	C
ATOM	1121	O ALA A 158	18.312	-12.750	3.021	1.00	78.25	O
ATOM	1122	N THR A 159	16.406	-11.703	3.883	1.00	81.19	N
ATOM	1123	CA THR A 159	15.609	-12.195	2.766	1.00	81.19	C
ATOM	1124	C THR A 159	15.453	-11.117	1.698	1.00	81.19	C
ATOM	1125	CB THR A 159	14.227	-12.664	3.236	1.00	81.19	C
ATOM	1126	O THR A 159	15.086	-11.406	0.559	1.00	81.19	O
ATOM	1127	CG2 THR A 159	14.344	-13.750	4.301	1.00	81.19	C
ATOM	1128	OG1 THR A 159	13.508	-11.547	3.785	1.00	81.19	O
ATOM	1129	N GLY A 160	15.758	-9.852	2.016	1.00	75.88	N
ATOM	1130	CA GLY A 160	15.531	-8.758	1.092	1.00	75.88	C
ATOM	1131	C GLY A 160	14.062	-8.414	0.926	1.00	75.88	C
ATOM	1132	O GLY A 160	13.664	-7.828	-0.086	1.00	75.88	O
ATOM	1133	N LYS A 161	13.289	-8.844	1.916	1.00	84.81	N
ATOM	1134	CA LYS A 161	11.844	-8.680	1.796	1.00	84.81	C
ATOM	1135	C LYS A 161	11.352	-7.508	2.643	1.00	84.81	C
ATOM	1136	CB LYS A 161	11.117	-9.961	2.203	1.00	84.81	C
ATOM	1137	O LYS A 161	11.797	-7.328	3.777	1.00	84.81	O
ATOM	1138	CG LYS A 161	11.305	-11.117	1.230	1.00	84.81	C
ATOM	1139	CD LYS A 161	10.445	-12.312	1.610	1.00	84.81	C
ATOM	1140	CE LYS A 161	10.633	-13.469	0.640	1.00	84.81	C
ATOM	1141	NZ LYS A 161	9.797	-14.648	1.015	1.00	84.81	N
ATOM	1142	N LEU A 162	10.453	-6.664	2.049	1.00	88.12	N
ATOM	1143	CA LEU A 162	9.766	-5.582	2.742	1.00	88.12	C
ATOM	1144	C LEU A 162	8.414	-6.043	3.268	1.00	88.12	C
ATOM	1145	CB LEU A 162	9.578	-4.379	1.812	1.00	88.12	C
ATOM	1146	O LEU A 162	7.590	-6.559	2.508	1.00	88.12	O
ATOM	1147	CG LEU A 162	10.828	-3.529	1.546	1.00	88.12	C
ATOM	1148	CD1 LEU A 162	10.617	-2.650	0.319	1.00	88.12	C

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ATOM	1149	CD2 LEU A 162	11.164	-2.682	2.768	1.00	88.12	C
ATOM	1150	N THR A 163	8.250	-5.988	4.574	1.00	91.25	N
ATOM	1151	CA THR A 163	7.016	-6.414	5.223	1.00	91.25	C
ATOM	1152	C THR A 163	6.297	-5.223	5.852	1.00	91.25	C
ATOM	1153	CB THR A 163	7.293	-7.477	6.301	1.00	91.25	C
ATOM	1154	O THR A 163	6.930	-4.371	6.480	1.00	91.25	O
ATOM	1155	CG2 THR A 163	6.000	-7.949	6.957	1.00	91.25	C
ATOM	1156	OG1 THR A 163	7.945	-8.602	5.699	1.00	91.25	O
ATOM	1157	N PHE A 164	5.000	-5.074	5.609	1.00	93.44	N
ATOM	1158	CA PHE A 164	4.145	-4.070	6.227	1.00	93.44	C
ATOM	1159	C PHE A 164	3.182	-4.715	7.219	1.00	93.44	C
ATOM	1160	CB PHE A 164	3.361	-3.299	5.160	1.00	93.44	C
ATOM	1161	O PHE A 164	2.580	-5.750	6.922	1.00	93.44	O
ATOM	1162	CG PHE A 164	4.230	-2.514	4.219	1.00	93.44	C
ATOM	1163	CD1 PHE A 164	4.570	-1.195	4.496	1.00	93.44	C
ATOM	1164	CD2 PHE A 164	4.715	-3.096	3.053	1.00	93.44	C
ATOM	1165	CE1 PHE A 164	5.375	-0.467	3.623	1.00	93.44	C
ATOM	1166	CE2 PHE A 164	5.520	-2.375	2.176	1.00	93.44	C
ATOM	1167	CZ PHE A 164	5.848	-1.061	2.463	1.00	93.44	C
ATOM	1168	N THR A 165	3.160	-4.133	8.336	1.00	95.12	N
ATOM	1169	CA THR A 165	2.299	-4.641	9.398	1.00	95.12	C
ATOM	1170	C THR A 165	1.280	-3.582	9.820	1.00	95.12	C
ATOM	1171	CB THR A 165	3.123	-5.078	10.625	1.00	95.12	C
ATOM	1172	O THR A 165	1.646	-2.443	10.117	1.00	95.12	O
ATOM	1173	CG2 THR A 165	2.221	-5.629	11.727	1.00	95.12	C
ATOM	1174	OG1 THR A 165	4.051	-6.094	10.234	1.00	95.12	O
ATOM	1175	N LEU A 166	0.041	-3.861	9.703	1.00	97.06	N
ATOM	1176	CA LEU A 166	-1.032	-3.027	10.234	1.00	97.06	C
ATOM	1177	C LEU A 166	-1.572	-3.600	11.539	1.00	97.06	C
ATOM	1178	CB LEU A 166	-2.166	-2.898	9.219	1.00	97.06	C
ATOM	1179	O LEU A 166	-2.002	-4.754	11.586	1.00	97.06	O
ATOM	1180	CG LEU A 166	-3.443	-2.213	9.703	1.00	97.06	C
ATOM	1181	CD1 LEU A 166	-3.172	-0.744	10.008	1.00	97.06	C
ATOM	1182	CD2 LEU A 166	-4.555	-2.352	8.664	1.00	97.06	C
ATOM	1183	N ASN A 167	-1.448	-2.842	12.562	1.00	96.94	N
ATOM	1184	CA ASN A 167	-2.039	-3.148	13.859	1.00	96.94	C
ATOM	1185	C ASN A 167	-3.240	-2.256	14.156	1.00	96.94	C
ATOM	1186	CB ASN A 167	-0.995	-3.018	14.969	1.00	96.94	C
ATOM	1187	O ASN A 167	-3.102	-1.037	14.266	1.00	96.94	O
ATOM	1188	CG ASN A 167	0.147	-4.004	14.820	1.00	96.94	C
ATOM	1189	ND2 ASN A 167	1.374	-3.498	14.836	1.00	96.94	N
ATOM	1190	OD1 ASN A 167	-0.073	-5.211	14.688	1.00	96.94	O
ATOM	1191	N ALA A 168	-4.395	-2.857	14.258	1.00	96.50	N
ATOM	1192	CA ALA A 168	-5.621	-2.129	14.570	1.00	96.50	C
ATOM	1193	C ALA A 168	-6.180	-2.541	15.930	1.00	96.50	C
ATOM	1194	CB ALA A 168	-6.664	-2.359	13.477	1.00	96.50	C
ATOM	1195	O ALA A 168	-6.430	-3.723	16.172	1.00	96.50	O
ATOM	1196	N ASN A 169	-6.352	-1.589	16.797	1.00	96.94	N
ATOM	1197	CA ASN A 169	-6.895	-1.806	18.125	1.00	96.94	C
ATOM	1198	C ASN A 169	-8.195	-1.033	18.344	1.00	96.94	C
ATOM	1199	CB ASN A 169	-5.867	-1.417	19.188	1.00	96.94	C
ATOM	1200	O ASN A 169	-8.227	0.190	18.188	1.00	96.94	O
ATOM	1201	CG ASN A 169	-4.586	-2.221	19.094	1.00	96.94	C

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ATOM	1202	ND2 ASN A 169	-3.451	-1.543	19.188	1.00	96.94	N
ATOM	1203	OD1 ASN A 169	-4.621	-3.443	18.922	1.00	96.94	O
ATOM	1204	N ALA A 170	-9.188	-1.744	18.625	1.00	96.69	N
ATOM	1205	CA ALA A 170	-10.484	-1.106	18.828	1.00	96.69	C
ATOM	1206	C ALA A 170	-10.977	-1.317	20.266	1.00	96.69	C
ATOM	1207	CB ALA A 170	-11.508	-1.646	17.828	1.00	96.69	C
ATOM	1208	O ALA A 170	-10.766	-2.383	20.844	1.00	96.69	O
ATOM	1209	N ASN A 171	-11.586	-0.266	20.812	1.00	96.19	N
ATOM	1210	CA ASN A 171	-12.188	-0.272	22.141	1.00	96.19	C
ATOM	1211	C ASN A 171	-13.594	0.322	22.125	1.00	96.19	C
ATOM	1212	CB ASN A 171	-11.305	0.486	23.141	1.00	96.19	C
ATOM	1213	O ASN A 171	-13.859	1.279	21.391	1.00	96.19	O
ATOM	1214	CG ASN A 171	-9.906	-0.090	23.234	1.00	96.19	C
ATOM	1215	ND2 ASN A 171	-8.930	0.771	23.469	1.00	96.19	N
ATOM	1216	OD1 ASN A 171	-9.711	-1.300	23.078	1.00	96.19	O
ATOM	1217	N ALA A 172	-14.414	-0.313	22.781	1.00	96.19	N
ATOM	1218	CA ALA A 172	-15.773	0.206	22.891	1.00	96.19	C
ATOM	1219	C ALA A 172	-16.266	0.124	24.344	1.00	96.19	C
ATOM	1220	CB ALA A 172	-16.719	-0.557	21.969	1.00	96.19	C
ATOM	1221	O ALA A 172	-15.945	-0.819	25.062	1.00	96.19	O
ATOM	1222	N ASN A 173	-17.000	1.117	24.766	1.00	96.12	N
ATOM	1223	CA ASN A 173	-17.609	1.109	26.094	1.00	96.12	C
ATOM	1224	C ASN A 173	-19.031	1.667	26.047	1.00	96.12	C
ATOM	1225	CB ASN A 173	-16.766	1.901	27.078	1.00	96.12	C
ATOM	1226	O ASN A 173	-19.375	2.436	25.156	1.00	96.12	O
ATOM	1227	CG ASN A 173	-16.672	3.373	26.734	1.00	96.12	C
ATOM	1228	ND2 ASN A 173	-15.547	3.994	27.078	1.00	96.12	N
ATOM	1229	OD1 ASN A 173	-17.594	3.945	26.156	1.00	96.12	O
ATOM	1230	N ALA A 174	-19.828	1.170	26.828	1.00	95.69	N
ATOM	1231	CA ALA A 174	-21.203	1.652	26.984	1.00	95.69	C
ATOM	1232	C ALA A 174	-21.531	1.908	28.453	1.00	95.69	C
ATOM	1233	CB ALA A 174	-22.188	0.652	26.375	1.00	95.69	C
ATOM	1234	O ALA A 174	-21.141	1.139	29.328	1.00	95.69	O
ATOM	1235	N THR A 175	-22.203	3.006	28.672	1.00	95.81	N
ATOM	1236	CA THR A 175	-22.594	3.396	30.031	1.00	95.81	C
ATOM	1237	C THR A 175	-24.078	3.699	30.094	1.00	95.81	C
ATOM	1238	CB THR A 175	-21.797	4.621	30.516	1.00	95.81	C
ATOM	1239	O THR A 175	-24.641	4.301	29.172	1.00	95.81	O
ATOM	1240	CG2 THR A 175	-22.109	4.945	31.969	1.00	95.81	C
ATOM	1241	OG1 THR A 175	-20.391	4.355	30.375	1.00	95.81	O
ATOM	1242	N VAL A 176	-24.734	3.176	31.078	1.00	94.88	N
ATOM	1243	CA VAL A 176	-26.109	3.545	31.422	1.00	94.88	C
ATOM	1244	C VAL A 176	-26.125	4.402	32.688	1.00	94.88	C
ATOM	1245	CB VAL A 176	-27.000	2.297	31.609	1.00	94.88	C
ATOM	1246	O VAL A 176	-25.578	4.000	33.719	1.00	94.88	O
ATOM	1247	CG1 VAL A 176	-28.438	2.705	31.922	1.00	94.88	C
ATOM	1248	CG2 VAL A 176	-26.953	1.416	30.359	1.00	94.88	C
ATOM	1249	N SER A 177	-26.766	5.617	32.562	1.00	95.38	N
ATOM	1250	CA SER A 177	-26.781	6.508	33.719	1.00	95.38	C
ATOM	1251	C SER A 177	-28.156	7.172	33.875	1.00	95.38	C
ATOM	1252	CB SER A 177	-25.703	7.578	33.594	1.00	95.38	C
ATOM	1253	O SER A 177	-28.906	7.285	32.906	1.00	95.38	O
ATOM	1254	OG SER A 177	-25.875	8.320	32.375	1.00	95.38	O

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ATOM	1255	N	ASP A 178	-28.484	7.410	35.094	1.00	92.25	N
ATOM	1256	CA	ASP A 178	-29.562	8.359	35.375	1.00	92.25	C
ATOM	1257	C	ASP A 178	-29.000	9.711	35.812	1.00	92.25	C
ATOM	1258	CB	ASP A 178	-30.484	7.812	36.469	1.00	92.25	C
ATOM	1259	O	ASP A 178	-27.781	9.922	35.750	1.00	92.25	O
ATOM	1260	CG	ASP A 178	-29.844	7.785	37.844	1.00	92.25	C
ATOM	1261	OD1	ASP A 178	-28.828	8.484	38.031	1.00	92.25	O
ATOM	1262	OD2	ASP A 178	-30.359	7.055	38.719	1.00	92.25	O
ATOM	1263	N	PRO A 179	-29.844	10.711	36.031	1.00	90.62	N
ATOM	1264	CA	PRO A 179	-29.297	12.031	36.312	1.00	90.62	C
ATOM	1265	C	PRO A 179	-28.438	12.047	37.594	1.00	90.62	C
ATOM	1266	CB	PRO A 179	-30.531	12.906	36.500	1.00	90.62	C
ATOM	1267	O	PRO A 179	-27.594	12.938	37.750	1.00	90.62	O
ATOM	1268	CG	PRO A 179	-31.578	12.266	35.656	1.00	90.62	C
ATOM	1269	CD	PRO A 179	-31.391	10.773	35.688	1.00	90.62	C
ATOM	1270	N	ASN A 180	-28.516	11.039	38.406	1.00	93.56	N
ATOM	1271	CA	ASN A 180	-27.891	11.117	39.719	1.00	93.56	C
ATOM	1272	C	ASN A 180	-26.688	10.172	39.812	1.00	93.56	C
ATOM	1273	CB	ASN A 180	-28.906	10.805	40.812	1.00	93.56	C
ATOM	1274	O	ASN A 180	-25.828	10.367	40.688	1.00	93.56	O
ATOM	1275	CG	ASN A 180	-30.062	11.781	40.844	1.00	93.56	C
ATOM	1276	ND2	ASN A 180	-31.281	11.273	41.000	1.00	93.56	N
ATOM	1277	OD1	ASN A 180	-29.875	12.992	40.688	1.00	93.56	O
ATOM	1278	N	LYS A 181	-26.641	9.188	38.844	1.00	94.44	N
ATOM	1279	CA	LYS A 181	-25.562	8.227	39.000	1.00	94.44	C
ATOM	1280	C	LYS A 181	-25.422	7.328	37.781	1.00	94.44	C
ATOM	1281	CB	LYS A 181	-25.797	7.371	40.250	1.00	94.44	C
ATOM	1282	O	LYS A 181	-26.297	7.316	36.906	1.00	94.44	O
ATOM	1283	CG	LYS A 181	-27.031	6.492	40.188	1.00	94.44	C
ATOM	1284	CD	LYS A 181	-27.234	5.699	41.469	1.00	94.44	C
ATOM	1285	CE	LYS A 181	-28.469	4.812	41.406	1.00	94.44	C
ATOM	1286	NZ	LYS A 181	-28.672	4.031	42.656	1.00	94.44	N
ATOM	1287	N	THR A 182	-24.266	6.602	37.688	1.00	94.25	N
ATOM	1288	CA	THR A 182	-24.031	5.547	36.719	1.00	94.25	C
ATOM	1289	C	THR A 182	-24.609	4.223	37.188	1.00	94.25	C
ATOM	1290	CB	THR A 182	-22.516	5.371	36.438	1.00	94.25	C
ATOM	1291	O	THR A 182	-24.328	3.766	38.281	1.00	94.25	O
ATOM	1292	CG2	THR A 182	-22.266	4.266	35.438	1.00	94.25	C
ATOM	1293	OG1	THR A 182	-21.984	6.602	35.938	1.00	94.25	O
ATOM	1294	N	LEU A 183	-25.438	3.623	36.344	1.00	93.00	N
ATOM	1295	CA	LEU A 183	-26.109	2.391	36.750	1.00	93.00	C
ATOM	1296	C	LEU A 183	-25.297	1.169	36.344	1.00	93.00	C
ATOM	1297	CB	LEU A 183	-27.516	2.328	36.156	1.00	93.00	C
ATOM	1298	O	LEU A 183	-25.234	0.180	37.062	1.00	93.00	O
ATOM	1299	CG	LEU A 183	-28.453	3.484	36.469	1.00	93.00	C
ATOM	1300	CD1	LEU A 183	-29.781	3.322	35.750	1.00	93.00	C
ATOM	1301	CD2	LEU A 183	-28.672	3.568	38.000	1.00	93.00	C
ATOM	1302	N	ALA A 184	-24.656	1.281	35.156	1.00	92.69	N
ATOM	1303	CA	ALA A 184	-23.891	0.163	34.625	1.00	92.69	C
ATOM	1304	C	ALA A 184	-22.891	0.636	33.562	1.00	92.69	C
ATOM	1305	CB	ALA A 184	-24.812	-0.900	34.062	1.00	92.69	C
ATOM	1306	O	ALA A 184	-23.172	1.591	32.844	1.00	92.69	O
ATOM	1307	N	THR A 185	-21.703	0.094	33.656	1.00	94.62	N

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ATOM	1308	CA	THR A 185	-20.672	0.301	32.625	1.00	94.62	C
ATOM	1309	C	THR A 185	-20.125	-1.034	32.125	1.00	94.62	C
ATOM	1310	CB	THR A 185	-19.531	1.177	33.156	1.00	94.62	C
ATOM	1311	O	THR A 185	-19.859	-1.937	32.938	1.00	94.62	O
ATOM	1312	CG2	THR A 185	-18.469	1.418	32.062	1.00	94.62	C
ATOM	1313	OG1	THR A 185	-20.047	2.438	33.594	1.00	94.62	O
ATOM	1314	N	VAL A 186	-19.969	-1.167	30.797	1.00	95.44	N
ATOM	1315	CA	VAL A 186	-19.344	-2.357	30.234	1.00	95.44	C
ATOM	1316	C	VAL A 186	-18.359	-1.952	29.141	1.00	95.44	C
ATOM	1317	CB	VAL A 186	-20.391	-3.336	29.656	1.00	95.44	C
ATOM	1318	O	VAL A 186	-18.578	-0.970	28.422	1.00	95.44	O
ATOM	1319	CG1	VAL A 186	-21.062	-2.748	28.422	1.00	95.44	C
ATOM	1320	CG2	VAL A 186	-19.750	-4.684	29.344	1.00	95.44	C
ATOM	1321	N	SER A 187	-17.266	-2.652	29.078	1.00	96.12	N
ATOM	1322	CA	SER A 187	-16.250	-2.344	28.062	1.00	96.12	C
ATOM	1323	C	SER A 187	-15.742	-3.613	27.406	1.00	96.12	C
ATOM	1324	CB	SER A 187	-15.094	-1.578	28.703	1.00	96.12	C
ATOM	1325	O	SER A 187	-15.758	-4.688	28.000	1.00	96.12	O
ATOM	1326	OG	SER A 187	-14.461	-2.355	29.703	1.00	96.12	O
ATOM	1327	N	ALA A 188	-15.469	-3.518	26.094	1.00	94.44	N
ATOM	1328	CA	ALA A 188	-14.836	-4.570	25.297	1.00	94.44	C
ATOM	1329	C	ALA A 188	-13.703	-4.004	24.453	1.00	94.44	C
ATOM	1330	CB	ALA A 188	-15.867	-5.262	24.422	1.00	94.44	C
ATOM	1331	O	ALA A 188	-13.750	-2.852	24.016	1.00	94.44	O
ATOM	1332	N	SER A 189	-12.609	-4.777	24.344	1.00	95.12	N
ATOM	1333	CA	SER A 189	-11.477	-4.398	23.500	1.00	95.12	C
ATOM	1334	C	SER A 189	-11.031	-5.566	22.625	1.00	95.12	C
ATOM	1335	CB	SER A 189	-10.312	-3.906	24.344	1.00	95.12	C
ATOM	1336	O	SER A 189	-11.164	-6.727	23.016	1.00	95.12	O
ATOM	1337	OG	SER A 189	-9.820	-4.945	25.188	1.00	95.12	O
ATOM	1338	N	VAL A 190	-10.633	-5.262	21.391	1.00	95.50	N
ATOM	1339	CA	VAL A 190	-10.164	-6.293	20.469	1.00	95.50	C
ATOM	1340	C	VAL A 190	-9.062	-5.730	19.562	1.00	95.50	C
ATOM	1341	CB	VAL A 190	-11.320	-6.852	19.594	1.00	95.50	C
ATOM	1342	O	VAL A 190	-9.055	-4.535	19.266	1.00	95.50	O
ATOM	1343	CG1	VAL A 190	-11.883	-5.766	18.688	1.00	95.50	C
ATOM	1344	CG2	VAL A 190	-10.844	-8.047	18.781	1.00	95.50	C
ATOM	1345	N	SER A 191	-8.125	-6.559	19.141	1.00	94.56	N
ATOM	1346	CA	SER A 191	-7.047	-6.176	18.234	1.00	94.56	C
ATOM	1347	C	SER A 191	-6.988	-7.094	17.016	1.00	94.56	C
ATOM	1348	CB	SER A 191	-5.703	-6.195	18.969	1.00	94.56	C
ATOM	1349	O	SER A 191	-7.391	-8.258	17.094	1.00	94.56	O
ATOM	1350	OG	SER A 191	-5.348	-7.520	19.328	1.00	94.56	O
ATOM	1351	N	ALA A 192	-6.684	-6.480	15.875	1.00	91.50	N
ATOM	1352	CA	ALA A 192	-6.430	-7.207	14.633	1.00	91.50	C
ATOM	1353	C	ALA A 192	-5.105	-6.773	14.008	1.00	91.50	C
ATOM	1354	CB	ALA A 192	-7.574	-6.996	13.648	1.00	91.50	C
ATOM	1355	O	ALA A 192	-4.824	-5.578	13.906	1.00	91.50	O
ATOM	1356	N	THR A 193	-4.250	-7.816	13.742	1.00	92.25	N
ATOM	1357	CA	THR A 193	-2.957	-7.566	13.117	1.00	92.25	C
ATOM	1358	C	THR A 193	-2.875	-8.242	11.750	1.00	92.25	C
ATOM	1359	CB	THR A 193	-1.802	-8.062	14.008	1.00	92.25	C
ATOM	1360	O	THR A 193	-3.246	-9.406	11.602	1.00	92.25	O

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ATOM	1361	CG2 THR A 193	-0.451	-7.801	13.344	1.00	92.25	C
ATOM	1362	OG1 THR A 193	-1.847	-7.379	15.266	1.00	92.25	O
ATOM	1363	N VAL A 194	-2.477	-7.449	10.750	1.00	92.56	N
ATOM	1364	CA VAL A 194	-2.279	-7.984	9.406	1.00	92.56	C
ATOM	1365	C VAL A 194	-0.874	-7.641	8.914	1.00	92.56	C
ATOM	1366	CB VAL A 194	-3.336	-7.438	8.414	1.00	92.56	C
ATOM	1367	O VAL A 194	-0.386	-6.531	9.133	1.00	92.56	O
ATOM	1368	CG1 VAL A 194	-3.086	-7.980	7.008	1.00	92.56	C
ATOM	1369	CG2 VAL A 194	-4.742	-7.797	8.891	1.00	92.56	C
ATOM	1370	N THR A 195	-0.233	-8.648	8.273	1.00	90.81	N
ATOM	1371	CA THR A 195	1.106	-8.492	7.719	1.00	90.81	C
ATOM	1372	C THR A 195	1.133	-8.891	6.246	1.00	90.81	C
ATOM	1373	CB THR A 195	2.137	-9.328	8.500	1.00	90.81	C
ATOM	1374	O THR A 195	0.556	-9.914	5.863	1.00	90.81	O
ATOM	1375	CG2 THR A 195	3.549	-9.102	7.973	1.00	90.81	C
ATOM	1376	OG1 THR A 195	2.090	-8.969	9.883	1.00	90.81	O
ATOM	1377	N VAL A 196	1.691	-8.008	5.426	1.00	88.62	N
ATOM	1378	CA VAL A 196	1.869	-8.359	4.023	1.00	88.62	C
ATOM	1379	C VAL A 196	3.312	-8.094	3.602	1.00	88.62	C
ATOM	1380	CB VAL A 196	0.896	-7.582	3.113	1.00	88.62	C
ATOM	1381	O VAL A 196	3.986	-7.238	4.176	1.00	88.62	O
ATOM	1382	CG1 VAL A 196	-0.554	-7.938	3.441	1.00	88.62	C
ATOM	1383	CG2 VAL A 196	1.126	-6.078	3.250	1.00	88.62	C
ATOM	1384	N THR A 197	3.764	-8.898	2.684	1.00	84.50	N
ATOM	1385	CA THR A 197	5.023	-8.625	1.999	1.00	84.50	C
ATOM	1386	C THR A 197	4.785	-7.797	0.741	1.00	84.50	C
ATOM	1387	CB THR A 197	5.754	-9.930	1.627	1.00	84.50	C
ATOM	1388	O THR A 197	3.756	-7.945	0.078	1.00	84.50	O
ATOM	1389	CG2 THR A 197	7.266	-9.742	1.653	1.00	84.50	C
ATOM	1390	OG1 THR A 197	5.395	-10.953	2.561	1.00	84.50	O
ATOM	1391	N ALA A 198	5.523	-6.680	0.519	1.00	75.38	N
ATOM	1392	CA ALA A 198	5.379	-5.602	-0.454	1.00	75.38	C
ATOM	1393	C ALA A 198	5.211	-6.152	-1.866	1.00	75.38	C
ATOM	1394	CB ALA A 198	6.582	-4.664	-0.391	1.00	75.38	C
ATOM	1395	O ALA A 198	4.707	-5.461	-2.754	1.00	75.38	O
ATOM	1396	N ASP A 199	5.172	-7.543	-2.064	1.00	78.44	N
ATOM	1397	CA ASP A 199	5.023	-7.949	-3.459	1.00	78.44	C
ATOM	1398	C ASP A 199	3.553	-8.117	-3.828	1.00	78.44	C
ATOM	1399	CB ASP A 199	5.785	-9.250	-3.725	1.00	78.44	C
ATOM	1400	O ASP A 199	2.982	-9.195	-3.662	1.00	78.44	O
ATOM	1401	CG ASP A 199	5.391	-10.367	-2.777	1.00	78.44	C
ATOM	1402	OD1 ASP A 199	4.711	-10.102	-1.764	1.00	78.44	O
ATOM	1403	OD2 ASP A 199	5.770	-11.531	-3.043	1.00	78.44	O
ATOM	1404	N ASN A 200	2.863	-7.020	-4.137	1.00	81.94	N
ATOM	1405	CA ASN A 200	1.495	-7.148	-4.625	1.00	81.94	C
ATOM	1406	C ASN A 200	0.691	-8.133	-3.785	1.00	81.94	C
ATOM	1407	CB ASN A 200	1.485	-7.566	-6.094	1.00	81.94	C
ATOM	1408	O ASN A 200	0.204	-9.141	-4.301	1.00	81.94	O
ATOM	1409	CG ASN A 200	2.037	-6.496	-7.012	1.00	81.94	C
ATOM	1410	ND2 ASN A 200	2.455	-6.895	-8.211	1.00	81.94	N
ATOM	1411	OD1 ASN A 200	2.086	-5.316	-6.652	1.00	81.94	O
ATOM	1412	N SER A 201	0.487	-7.746	-2.615	1.00	88.94	N
ATOM	1413	CA SER A 201	-0.188	-8.633	-1.673	1.00	88.94	C

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ATOM	1414	C	SER A 201	-1.341	-7.922	-0.973	1.00	88.94	C
ATOM	1415	CB	SER A 201	0.801	-9.164	-0.634	1.00	88.94	C
ATOM	1416	O	SER A 201	-1.419	-6.691	-0.989	1.00	88.94	O
ATOM	1417	OG	SER A 201	1.416	-8.094	0.067	1.00	88.94	O
ATOM	1418	N	SER A 202	-2.252	-8.734	-0.668	1.00	91.56	N
ATOM	1419	CA	SER A 202	-3.371	-8.250	0.134	1.00	91.56	C
ATOM	1420	C	SER A 202	-3.686	-9.211	1.279	1.00	91.56	C
ATOM	1421	CB	SER A 202	-4.613	-8.062	-0.737	1.00	91.56	C
ATOM	1422	O	SER A 202	-3.447	-10.414	1.171	1.00	91.56	O
ATOM	1423	OG	SER A 202	-5.055	-9.305	-1.260	1.00	91.56	O
ATOM	1424	N	ALA A 203	-3.990	-8.680	2.439	1.00	92.88	N
ATOM	1425	CA	ALA A 203	-4.379	-9.477	3.602	1.00	92.88	C
ATOM	1426	C	ALA A 203	-5.434	-8.742	4.434	1.00	92.88	C
ATOM	1427	CB	ALA A 203	-3.158	-9.797	4.457	1.00	92.88	C
ATOM	1428	O	ALA A 203	-5.547	-7.520	4.367	1.00	92.88	O
ATOM	1429	N	SER A 204	-6.254	-9.523	5.055	1.00	94.25	N
ATOM	1430	CA	SER A 204	-7.266	-8.969	5.945	1.00	94.25	C
ATOM	1431	C	SER A 204	-7.441	-9.836	7.188	1.00	94.25	C
ATOM	1432	CB	SER A 204	-8.602	-8.828	5.219	1.00	94.25	C
ATOM	1433	O	SER A 204	-7.125	-11.031	7.168	1.00	94.25	O
ATOM	1434	OG	SER A 204	-9.133	-10.102	4.891	1.00	94.25	O
ATOM	1435	N	ASN A 205	-7.730	-9.281	8.258	1.00	92.19	N
ATOM	1436	CA	ASN A 205	-8.008	-9.969	9.508	1.00	92.19	C
ATOM	1437	C	ASN A 205	-9.133	-9.281	10.289	1.00	92.19	C
ATOM	1438	CB	ASN A 205	-6.742	-10.055	10.367	1.00	92.19	C
ATOM	1439	O	ASN A 205	-9.141	-8.062	10.422	1.00	92.19	O
ATOM	1440	CG	ASN A 205	-6.855	-11.086	11.477	1.00	92.19	C
ATOM	1441	ND2	ASN A 205	-5.812	-11.195	12.289	1.00	92.19	N
ATOM	1442	OD1	ASN A 205	-7.871	-11.773	11.594	1.00	92.19	O
ATOM	1443	N	THR A 206	-10.062	-10.109	10.680	1.00	93.25	N
ATOM	1444	CA	THR A 206	-11.188	-9.617	11.469	1.00	93.25	C
ATOM	1445	C	THR A 206	-11.227	-10.289	12.836	1.00	93.25	C
ATOM	1446	CB	THR A 206	-12.523	-9.844	10.742	1.00	93.25	C
ATOM	1447	O	THR A 206	-11.062	-11.508	12.938	1.00	93.25	O
ATOM	1448	CG2	THR A 206	-13.688	-9.266	11.531	1.00	93.25	C
ATOM	1449	OG1	THR A 206	-12.477	-9.219	9.453	1.00	93.25	O
ATOM	1450	N	ASN A 207	-11.352	-9.555	13.914	1.00	94.12	N
ATOM	1451	CA	ASN A 207	-11.531	-10.062	15.266	1.00	94.12	C
ATOM	1452	C	ASN A 207	-12.711	-9.406	15.969	1.00	94.12	C
ATOM	1453	CB	ASN A 207	-10.250	-9.867	16.078	1.00	94.12	C
ATOM	1454	O	ASN A 207	-13.141	-8.312	15.578	1.00	94.12	O
ATOM	1455	CG	ASN A 207	-9.164	-10.859	15.719	1.00	94.12	C
ATOM	1456	ND2	ASN A 207	-7.977	-10.680	16.281	1.00	94.12	N
ATOM	1457	OD1	ASN A 207	-9.383	-11.781	14.930	1.00	94.12	O
ATOM	1458	N	SER A 208	-13.258	-10.062	16.859	1.00	95.31	N
ATOM	1459	CA	SER A 208	-14.406	-9.539	17.594	1.00	95.31	C
ATOM	1460	C	SER A 208	-14.359	-9.938	19.062	1.00	95.31	C
ATOM	1461	CB	SER A 208	-15.711	-10.023	16.969	1.00	95.31	C
ATOM	1462	O	SER A 208	-13.703	-10.922	19.422	1.00	95.31	O
ATOM	1463	OG	SER A 208	-15.820	-11.430	17.047	1.00	95.31	O
ATOM	1464	N	ASN A 209	-14.859	-9.141	19.922	1.00	95.06	N
ATOM	1465	CA	ASN A 209	-15.016	-9.406	21.344	1.00	95.06	C
ATOM	1466	C	ASN A 209	-16.297	-8.805	21.891	1.00	95.06	C

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ATOM	1467	CB	ASN A 209	-13.805	-8.875	22.125	1.00	95.06	C
ATOM	1468	O	ASN A 209	-16.875	-7.895	21.297	1.00	95.06	O
ATOM	1469	CG	ASN A 209	-13.656	-9.531	23.484	1.00	95.06	C
ATOM	1470	ND2	ASN A 209	-12.758	-8.992	24.297	1.00	95.06	N
ATOM	1471	OD1	ASN A 209	-14.336	-10.508	23.797	1.00	95.06	O
ATOM	1472	N	SER A 210	-16.875	-9.406	22.875	1.00	96.00	N
ATOM	1473	CA	SER A 210	-18.109	-8.938	23.484	1.00	96.00	C
ATOM	1474	C	SER A 210	-18.031	-8.953	25.000	1.00	96.00	C
ATOM	1475	CB	SER A 210	-19.297	-9.789	23.016	1.00	96.00	C
ATOM	1476	O	SER A 210	-17.219	-9.688	25.578	1.00	96.00	O
ATOM	1477	OG	SER A 210	-19.125	-11.141	23.406	1.00	96.00	O
ATOM	1478	N	ALA A 211	-18.719	-8.008	25.656	1.00	95.06	N
ATOM	1479	CA	ALA A 211	-18.859	-7.949	27.109	1.00	95.06	C
ATOM	1480	C	ALA A 211	-20.281	-7.605	27.516	1.00	95.06	C
ATOM	1481	CB	ALA A 211	-17.875	-6.934	27.703	1.00	95.06	C
ATOM	1482	O	ALA A 211	-21.016	-6.973	26.750	1.00	95.06	O
ATOM	1483	N	SER A 212	-20.750	-8.148	28.547	1.00	96.00	N
ATOM	1484	CA	SER A 212	-22.109	-7.879	29.031	1.00	96.00	C
ATOM	1485	C	SER A 212	-22.125	-7.727	30.547	1.00	96.00	C
ATOM	1486	CB	SER A 212	-23.062	-8.992	28.609	1.00	96.00	C
ATOM	1487	O	SER A 212	-21.250	-8.242	31.234	1.00	96.00	O
ATOM	1488	OG	SER A 212	-22.703	-10.219	29.219	1.00	96.00	O
ATOM	1489	N	LYS A 213	-22.969	-6.891	31.000	1.00	94.31	N
ATOM	1490	CA	LYS A 213	-23.219	-6.680	32.406	1.00	94.31	C
ATOM	1491	C	LYS A 213	-24.719	-6.566	32.719	1.00	94.31	C
ATOM	1492	CB	LYS A 213	-22.500	-5.426	32.906	1.00	94.31	C
ATOM	1493	O	LYS A 213	-25.469	-5.965	31.922	1.00	94.31	O
ATOM	1494	CG	LYS A 213	-22.500	-5.266	34.438	1.00	94.31	C
ATOM	1495	CD	LYS A 213	-21.547	-4.160	34.875	1.00	94.31	C
ATOM	1496	CE	LYS A 213	-21.469	-4.062	36.375	1.00	94.31	C
ATOM	1497	NZ	LYS A 213	-20.516	-2.998	36.812	1.00	94.31	N
ATOM	1498	N	SER A 214	-25.094	-7.219	33.750	1.00	92.00	N
ATOM	1499	CA	SER A 214	-26.500	-7.145	34.156	1.00	92.00	C
ATOM	1500	C	SER A 214	-26.656	-6.566	35.562	1.00	92.00	C
ATOM	1501	CB	SER A 214	-27.156	-8.531	34.094	1.00	92.00	C
ATOM	1502	O	SER A 214	-25.906	-6.914	36.469	1.00	92.00	O
ATOM	1503	OG	SER A 214	-26.953	-9.117	32.812	1.00	92.00	O
ATOM	1504	N	VAL A 215	-27.547	-5.531	35.688	1.00	87.81	N
ATOM	1505	CA	VAL A 215	-28.031	-5.012	36.938	1.00	87.81	C
ATOM	1506	C	VAL A 215	-29.562	-5.129	37.000	1.00	87.81	C
ATOM	1507	CB	VAL A 215	-27.609	-3.547	37.188	1.00	87.81	C
ATOM	1508	O	VAL A 215	-30.203	-5.387	35.969	1.00	87.81	O
ATOM	1509	CG1	VAL A 215	-26.078	-3.436	37.250	1.00	87.81	C
ATOM	1510	CG2	VAL A 215	-28.156	-2.654	36.062	1.00	87.81	C
ATOM	1511	N	PRO A 216	-30.062	-5.125	38.219	1.00	87.31	N
ATOM	1512	CA	PRO A 216	-31.531	-5.258	38.219	1.00	87.31	C
ATOM	1513	C	PRO A 216	-32.219	-4.426	37.156	1.00	87.31	C
ATOM	1514	CB	PRO A 216	-31.906	-4.754	39.625	1.00	87.31	C
ATOM	1515	O	PRO A 216	-32.000	-3.211	37.062	1.00	87.31	O
ATOM	1516	CG	PRO A 216	-30.703	-5.016	40.469	1.00	87.31	C
ATOM	1517	CD	PRO A 216	-29.484	-4.793	39.625	1.00	87.31	C
ATOM	1518	N	ASN A 217	-32.969	-5.141	36.281	1.00	85.50	N
ATOM	1519	CA	ASN A 217	-33.875	-4.594	35.281	1.00	85.50	C

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ATOM	1520	C	ASN A 217	-33.094	-4.020	34.094	1.00	85.50	C
ATOM	1521	CB	ASN A 217	-34.781	-3.521	35.875	1.00	85.50	C
ATOM	1522	O	ASN A 217	-33.656	-3.346	33.250	1.00	85.50	O
ATOM	1523	CG	ASN A 217	-35.719	-4.082	36.906	1.00	85.50	C
ATOM	1524	ND2	ASN A 217	-35.938	-3.328	38.000	1.00	85.50	N
ATOM	1525	OD1	ASN A 217	-36.250	-5.188	36.750	1.00	85.50	O
ATOM	1526	N	ILE A 218	-31.719	-4.082	34.125	1.00	90.62	N
ATOM	1527	CA	ILE A 218	-30.906	-3.562	33.031	1.00	90.62	C
ATOM	1528	C	ILE A 218	-29.938	-4.641	32.531	1.00	90.62	C
ATOM	1529	CB	ILE A 218	-30.141	-2.289	33.438	1.00	90.62	C
ATOM	1530	O	ILE A 218	-29.219	-5.234	33.344	1.00	90.62	O
ATOM	1531	CG1	ILE A 218	-31.109	-1.188	33.844	1.00	90.62	C
ATOM	1532	CG2	ILE A 218	-29.234	-1.812	32.312	1.00	90.62	C
ATOM	1533	CD1	ILE A 218	-30.453	0.020	34.500	1.00	90.62	C
ATOM	1534	N	THR A 219	-30.000	-4.953	31.297	1.00	93.12	N
ATOM	1535	CA	THR A 219	-28.969	-5.742	30.625	1.00	93.12	C
ATOM	1536	C	THR A 219	-28.219	-4.891	29.609	1.00	93.12	C
ATOM	1537	CB	THR A 219	-29.578	-6.969	29.922	1.00	93.12	C
ATOM	1538	O	THR A 219	-28.828	-4.336	28.688	1.00	93.12	O
ATOM	1539	CG2	THR A 219	-28.500	-7.848	29.312	1.00	93.12	C
ATOM	1540	OG1	THR A 219	-30.312	-7.742	30.891	1.00	93.12	O
ATOM	1541	N	LEU A 220	-26.922	-4.691	29.828	1.00	93.81	N
ATOM	1542	CA	LEU A 220	-26.047	-3.906	28.953	1.00	93.81	C
ATOM	1543	C	LEU A 220	-25.000	-4.797	28.297	1.00	93.81	C
ATOM	1544	CB	LEU A 220	-25.359	-2.799	29.766	1.00	93.81	C
ATOM	1545	O	LEU A 220	-24.344	-5.590	28.953	1.00	93.81	O
ATOM	1546	CG	LEU A 220	-24.359	-1.936	28.984	1.00	93.81	C
ATOM	1547	CD1	LEU A 220	-25.062	-1.161	27.875	1.00	93.81	C
ATOM	1548	CD2	LEU A 220	-23.625	-0.984	29.938	1.00	93.81	C
ATOM	1549	N	SER A 221	-24.922	-4.727	26.953	1.00	95.19	N
ATOM	1550	CA	SER A 221	-23.922	-5.480	26.203	1.00	95.19	C
ATOM	1551	C	SER A 221	-23.234	-4.605	25.156	1.00	95.19	C
ATOM	1552	CB	SER A 221	-24.562	-6.691	25.531	1.00	95.19	C
ATOM	1553	O	SER A 221	-23.844	-3.672	24.625	1.00	95.19	O
ATOM	1554	OG	SER A 221	-25.516	-6.285	24.562	1.00	95.19	O
ATOM	1555	N	VAL A 222	-21.984	-4.770	25.016	1.00	95.50	N
ATOM	1556	CA	VAL A 222	-21.219	-4.094	23.969	1.00	95.50	C
ATOM	1557	C	VAL A 222	-20.453	-5.117	23.141	1.00	95.50	C
ATOM	1558	CB	VAL A 222	-20.250	-3.049	24.562	1.00	95.50	C
ATOM	1559	O	VAL A 222	-19.859	-6.051	23.688	1.00	95.50	O
ATOM	1560	CG1	VAL A 222	-19.078	-3.734	25.266	1.00	95.50	C
ATOM	1561	CG2	VAL A 222	-19.734	-2.121	23.453	1.00	95.50	C
ATOM	1562	N	ASN A 223	-20.609	-5.062	21.859	1.00	94.62	N
ATOM	1563	CA	ASN A 223	-19.844	-5.852	20.891	1.00	94.62	C
ATOM	1564	C	ASN A 223	-18.938	-4.973	20.031	1.00	94.62	C
ATOM	1565	CB	ASN A 223	-20.797	-6.664	20.000	1.00	94.62	C
ATOM	1566	O	ASN A 223	-19.406	-3.986	19.453	1.00	94.62	O
ATOM	1567	CG	ASN A 223	-20.062	-7.621	19.078	1.00	94.62	C
ATOM	1568	ND2	ASN A 223	-20.578	-8.836	18.953	1.00	94.62	N
ATOM	1569	OD1	ASN A 223	-19.031	-7.273	18.500	1.00	94.62	O
ATOM	1570	N	VAL A 224	-17.703	-5.262	20.000	1.00	95.81	N
ATOM	1571	CA	VAL A 224	-16.781	-4.500	19.172	1.00	95.81	C
ATOM	1572	C	VAL A 224	-16.125	-5.426	18.156	1.00	95.81	C

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ATOM	1573	CB	VAL A 224	-15.719	-3.775	20.016	1.00	95.81	C
ATOM	1574	O	VAL A 224	-15.727	-6.543	18.484	1.00	95.81	O
ATOM	1575	CG1	VAL A 224	-14.852	-4.785	20.766	1.00	95.81	C
ATOM	1576	CG2	VAL A 224	-14.852	-2.879	19.125	1.00	95.81	C
ATOM	1577	N	ASN A 225	-16.078	-5.020	16.891	1.00	94.69	N
ATOM	1578	CA	ASN A 225	-15.438	-5.695	15.766	1.00	94.69	C
ATOM	1579	C	ASN A 225	-14.406	-4.805	15.094	1.00	94.69	C
ATOM	1580	CB	ASN A 225	-16.484	-6.156	14.758	1.00	94.69	C
ATOM	1581	O	ASN A 225	-14.648	-3.615	14.875	1.00	94.69	O
ATOM	1582	CG	ASN A 225	-17.516	-7.098	15.359	1.00	94.69	C
ATOM	1583	ND2	ASN A 225	-18.781	-6.859	15.062	1.00	94.69	N
ATOM	1584	OD1	ASN A 225	-17.172	-8.031	16.094	1.00	94.69	O
ATOM	1585	N	VAL A 226	-13.289	-5.332	14.922	1.00	96.50	N
ATOM	1586	CA	VAL A 226	-12.289	-4.559	14.188	1.00	96.50	C
ATOM	1587	C	VAL A 226	-11.828	-5.344	12.961	1.00	96.50	C
ATOM	1588	CB	VAL A 226	-11.078	-4.203	15.078	1.00	96.50	C
ATOM	1589	O	VAL A 226	-11.625	-6.555	13.031	1.00	96.50	O
ATOM	1590	CG1	VAL A 226	-10.297	-5.461	15.453	1.00	96.50	C
ATOM	1591	CG2	VAL A 226	-10.172	-3.201	14.367	1.00	96.50	C
ATOM	1592	N	ASN A 227	-11.773	-4.684	11.789	1.00	95.81	N
ATOM	1593	CA	ASN A 227	-11.297	-5.207	10.516	1.00	95.81	C
ATOM	1594	C	ASN A 227	-10.070	-4.449	10.016	1.00	95.81	C
ATOM	1595	CB	ASN A 227	-12.414	-5.160	9.461	1.00	95.81	C
ATOM	1596	O	ASN A 227	-10.133	-3.240	9.781	1.00	95.81	O
ATOM	1597	CG	ASN A 227	-11.992	-5.770	8.141	1.00	95.81	C
ATOM	1598	ND2	ASN A 227	-12.891	-5.746	7.164	1.00	95.81	N
ATOM	1599	OD1	ASN A 227	-10.867	-6.262	7.996	1.00	95.81	O
ATOM	1600	N	ALA A 228	-8.992	-5.133	9.906	1.00	96.06	N
ATOM	1601	CA	ALA A 228	-7.762	-4.562	9.359	1.00	96.06	C
ATOM	1602	C	ALA A 228	-7.473	-5.109	7.969	1.00	96.06	C
ATOM	1603	CB	ALA A 228	-6.586	-4.844	10.297	1.00	96.06	C
ATOM	1604	O	ALA A 228	-7.492	-6.324	7.754	1.00	96.06	O
ATOM	1605	N	ASN A 229	-7.230	-4.199	6.984	1.00	96.25	N
ATOM	1606	CA	ASN A 229	-6.926	-4.551	5.602	1.00	96.25	C
ATOM	1607	C	ASN A 229	-5.660	-3.852	5.109	1.00	96.25	C
ATOM	1608	CB	ASN A 229	-8.109	-4.215	4.688	1.00	96.25	C
ATOM	1609	O	ASN A 229	-5.504	-2.643	5.293	1.00	96.25	O
ATOM	1610	CG	ASN A 229	-9.367	-4.961	5.070	1.00	96.25	C
ATOM	1611	ND2	ASN A 229	-10.492	-4.250	5.109	1.00	96.25	N
ATOM	1612	OD1	ASN A 229	-9.336	-6.168	5.332	1.00	96.25	O
ATOM	1613	N	LEU A 230	-4.863	-4.609	4.570	1.00	95.81	N
ATOM	1614	CA	LEU A 230	-3.615	-4.070	4.039	1.00	95.81	C
ATOM	1615	C	LEU A 230	-3.385	-4.547	2.611	1.00	95.81	C
ATOM	1616	CB	LEU A 230	-2.436	-4.484	4.926	1.00	95.81	C
ATOM	1617	O	LEU A 230	-3.480	-5.746	2.328	1.00	95.81	O
ATOM	1618	CG	LEU A 230	-1.073	-3.893	4.559	1.00	95.81	C
ATOM	1619	CD1	LEU A 230	-1.050	-2.396	4.852	1.00	95.81	C
ATOM	1620	CD2	LEU A 230	0.042	-4.605	5.312	1.00	95.81	C
ATOM	1621	N	ASN A 231	-3.127	-3.594	1.689	1.00	94.62	N
ATOM	1622	CA	ASN A 231	-2.830	-3.867	0.288	1.00	94.62	C
ATOM	1623	C	ASN A 231	-1.578	-3.129	-0.176	1.00	94.62	C
ATOM	1624	CB	ASN A 231	-4.023	-3.496	-0.596	1.00	94.62	C
ATOM	1625	O	ASN A 231	-1.389	-1.956	0.147	1.00	94.62	O

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ATOM	1626	CG	ASN A 231	-3.855	-3.961	-2.029	1.00	94.62	C
ATOM	1627	ND2	ASN A 231	-4.789	-3.576	-2.891	1.00	94.62	N
ATOM	1628	OD1	ASN A 231	-2.895	-4.660	-2.359	1.00	94.62	O
ATOM	1629	N	SER A 232	-0.788	-3.832	-0.870	1.00	94.25	N
ATOM	1630	CA	SER A 232	0.405	-3.207	-1.433	1.00	94.25	C
ATOM	1631	C	SER A 232	0.524	-3.490	-2.926	1.00	94.25	C
ATOM	1632	CB	SER A 232	1.660	-3.699	-0.710	1.00	94.25	C
ATOM	1633	O	SER A 232	0.057	-4.523	-3.406	1.00	94.25	O
ATOM	1634	OG	SER A 232	1.924	-5.055	-1.028	1.00	94.25	O
ATOM	1635	N	LYS A 233	1.022	-2.479	-3.656	1.00	94.00	N
ATOM	1636	CA	LYS A 233	1.246	-2.580	-5.098	1.00	94.00	C
ATOM	1637	C	LYS A 233	2.598	-1.990	-5.484	1.00	94.00	C
ATOM	1638	CB	LYS A 233	0.127	-1.875	-5.863	1.00	94.00	C
ATOM	1639	O	LYS A 233	2.879	-0.825	-5.199	1.00	94.00	O
ATOM	1640	CG	LYS A 233	0.184	-2.082	-7.371	1.00	94.00	C
ATOM	1641	CD	LYS A 233	-1.023	-1.467	-8.062	1.00	94.00	C
ATOM	1642	CE	LYS A 233	-0.976	-1.687	-9.570	1.00	94.00	C
ATOM	1643	NZ	LYS A 233	-2.166	-1.097	-10.258	1.00	94.00	N
ATOM	1644	N	LEU A 234	3.404	-2.893	-6.090	1.00	93.25	N
ATOM	1645	CA	LEU A 234	4.711	-2.465	-6.578	1.00	93.25	C
ATOM	1646	C	LEU A 234	4.707	-2.352	-8.102	1.00	93.25	C
ATOM	1647	CB	LEU A 234	5.797	-3.443	-6.129	1.00	93.25	C
ATOM	1648	O	LEU A 234	4.352	-3.303	-8.797	1.00	93.25	O
ATOM	1649	CG	LEU A 234	7.223	-3.139	-6.602	1.00	93.25	C
ATOM	1650	CD1	LEU A 234	7.719	-1.840	-5.977	1.00	93.25	C
ATOM	1651	CD2	LEU A 234	8.156	-4.293	-6.266	1.00	93.25	C
ATOM	1652	N	GLU A 235	5.043	-1.191	-8.625	1.00	94.94	N
ATOM	1653	CA	GLU A 235	5.191	-0.916	-10.055	1.00	94.94	C
ATOM	1654	C	GLU A 235	6.648	-0.635	-10.414	1.00	94.94	C
ATOM	1655	CB	GLU A 235	4.312	0.266	-10.469	1.00	94.94	C
ATOM	1656	O	GLU A 235	7.332	0.112	-9.711	1.00	94.94	O
ATOM	1657	CG	GLU A 235	2.824	0.028	-10.258	1.00	94.94	C
ATOM	1658	CD	GLU A 235	1.972	1.250	-10.555	1.00	94.94	C
ATOM	1659	OE1	GLU A 235	0.742	1.205	-10.328	1.00	94.94	O
ATOM	1660	OE2	GLU A 235	2.537	2.260	-11.031	1.00	94.94	O
ATOM	1661	N	GLU A 236	7.055	-1.288	-11.477	1.00	94.88	N
ATOM	1662	CA	GLU A 236	8.430	-1.106	-11.914	1.00	94.88	C
ATOM	1663	C	GLU A 236	8.492	-0.684	-13.383	1.00	94.88	C
ATOM	1664	CB	GLU A 236	9.234	-2.391	-11.703	1.00	94.88	C
ATOM	1665	O	GLU A 236	7.695	-1.146	-14.195	1.00	94.88	O
ATOM	1666	CG	GLU A 236	9.289	-2.857	-10.258	1.00	94.88	C
ATOM	1667	CD	GLU A 236	9.930	-4.223	-10.086	1.00	94.88	C
ATOM	1668	OE1	GLU A 236	10.289	-4.590	-8.945	1.00	94.88	O
ATOM	1669	OE2	GLU A 236	10.086	-4.934	-11.109	1.00	94.88	O
ATOM	1670	N	LYS A 237	9.305	0.288	-13.641	1.00	95.88	N
ATOM	1671	CA	LYS A 237	9.531	0.756	-15.008	1.00	95.88	C
ATOM	1672	C	LYS A 237	11.023	0.868	-15.312	1.00	95.88	C
ATOM	1673	CB	LYS A 237	8.852	2.105	-15.227	1.00	95.88	C
ATOM	1674	O	LYS A 237	11.781	1.459	-14.531	1.00	95.88	O
ATOM	1675	CG	LYS A 237	8.852	2.570	-16.672	1.00	95.88	C
ATOM	1676	CD	LYS A 237	8.109	3.887	-16.844	1.00	95.88	C
ATOM	1677	CE	LYS A 237	8.133	4.363	-18.297	1.00	95.88	C
ATOM	1678	NZ	LYS A 237	7.422	5.664	-18.453	1.00	95.88	N

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ATOM	1679	N	LEU A 238	11.461	0.193	-16.453	1.00	96.88	N
ATOM	1680	CA	LEU A 238	12.852	0.234	-16.875	1.00	96.88	C
ATOM	1681	C	LEU A 238	12.961	0.696	-18.328	1.00	96.88	C
ATOM	1682	CB	LEU A 238	13.508	-1.143	-16.719	1.00	96.88	C
ATOM	1683	O	LEU A 238	12.297	0.150	-19.203	1.00	96.88	O
ATOM	1684	CG	LEU A 238	14.969	-1.253	-17.141	1.00	96.88	C
ATOM	1685	CD1	LEU A 238	15.859	-0.448	-16.188	1.00	96.88	C
ATOM	1686	CD2	LEU A 238	15.406	-2.713	-17.172	1.00	96.88	C
ATOM	1687	N	GLU A 239	13.734	1.684	-18.516	1.00	96.44	N
ATOM	1688	CA	GLU A 239	13.984	2.225	-19.844	1.00	96.44	C
ATOM	1689	C	GLU A 239	15.477	2.242	-20.156	1.00	96.44	C
ATOM	1690	CB	GLU A 239	13.406	3.635	-19.969	1.00	96.44	C
ATOM	1691	O	GLU A 239	16.281	2.758	-19.375	1.00	96.44	O
ATOM	1692	CG	GLU A 239	11.891	3.688	-19.875	1.00	96.44	C
ATOM	1693	CD	GLU A 239	11.328	5.098	-19.969	1.00	96.44	C
ATOM	1694	OE1	GLU A 239	10.102	5.273	-19.828	1.00	96.44	O
ATOM	1695	OE2	GLU A 239	12.125	6.035	-20.188	1.00	96.44	O
ATOM	1696	N	VAL A 240	15.734	1.626	-21.297	1.00	96.31	N
ATOM	1697	CA	VAL A 240	17.125	1.601	-21.719	1.00	96.31	C
ATOM	1698	C	VAL A 240	17.250	2.156	-23.141	1.00	96.31	C
ATOM	1699	CB	VAL A 240	17.719	0.173	-21.656	1.00	96.31	C
ATOM	1700	O	VAL A 240	16.547	1.699	-24.047	1.00	96.31	O
ATOM	1701	CG1	VAL A 240	19.203	0.181	-22.047	1.00	96.31	C
ATOM	1702	CG2	VAL A 240	17.531	-0.421	-20.266	1.00	96.31	C
ATOM	1703	N	LYS A 241	18.109	3.166	-23.328	1.00	95.81	N
ATOM	1704	CA	LYS A 241	18.328	3.771	-24.641	1.00	95.81	C
ATOM	1705	C	LYS A 241	19.812	3.871	-24.953	1.00	95.81	C
ATOM	1706	CB	LYS A 241	17.688	5.156	-24.719	1.00	95.81	C
ATOM	1707	O	LYS A 241	20.609	4.328	-24.125	1.00	95.81	O
ATOM	1708	CG	LYS A 241	17.672	5.766	-26.109	1.00	95.81	C
ATOM	1709	CD	LYS A 241	16.984	7.121	-26.125	1.00	95.81	C
ATOM	1710	CE	LYS A 241	17.016	7.754	-27.500	1.00	95.81	C
ATOM	1711	NZ	LYS A 241	16.312	9.078	-27.531	1.00	95.81	N
ATOM	1712	N	VAL A 242	20.125	3.395	-26.141	1.00	95.25	N
ATOM	1713	CA	VAL A 242	21.500	3.488	-26.594	1.00	95.25	C
ATOM	1714	C	VAL A 242	21.578	4.352	-27.859	1.00	95.25	C
ATOM	1715	CB	VAL A 242	22.109	2.094	-26.859	1.00	95.25	C
ATOM	1716	O	VAL A 242	20.906	4.070	-28.844	1.00	95.25	O
ATOM	1717	CG1	VAL A 242	23.562	2.215	-27.328	1.00	95.25	C
ATOM	1718	CG2	VAL A 242	22.016	1.221	-25.609	1.00	95.25	C
ATOM	1719	N	GLU A 243	22.344	5.414	-27.797	1.00	95.88	N
ATOM	1720	CA	GLU A 243	22.578	6.277	-28.938	1.00	95.88	C
ATOM	1721	C	GLU A 243	24.016	6.145	-29.438	1.00	95.88	C
ATOM	1722	CB	GLU A 243	22.281	7.738	-28.594	1.00	95.88	C
ATOM	1723	O	GLU A 243	24.953	6.066	-28.625	1.00	95.88	O
ATOM	1724	CG	GLU A 243	20.828	8.000	-28.250	1.00	95.88	C
ATOM	1725	CD	GLU A 243	20.531	9.453	-27.906	1.00	95.88	C
ATOM	1726	OE1	GLU A 243	19.359	9.805	-27.688	1.00	95.88	O
ATOM	1727	OE2	GLU A 243	21.500	10.250	-27.875	1.00	95.88	O
ATOM	1728	N	LYS A 244	24.062	6.020	-30.719	1.00	94.69	N
ATOM	1729	CA	LYS A 244	25.359	5.848	-31.359	1.00	94.69	C
ATOM	1730	C	LYS A 244	25.609	6.934	-32.406	1.00	94.69	C
ATOM	1731	CB	LYS A 244	25.469	4.469	-32.000	1.00	94.69	C

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ATOM	1732	O	LYS A 244	24.734	7.234	-33.219	1.00	94.69	O
ATOM	1733	CG	LYS A 244	26.781	4.219	-32.719	1.00	94.69	C
ATOM	1734	CD	LYS A 244	26.797	2.863	-33.438	1.00	94.69	C
ATOM	1735	CE	LYS A 244	28.078	2.654	-34.219	1.00	94.69	C
ATOM	1736	NZ	LYS A 244	28.062	1.349	-34.938	1.00	94.69	N
ATOM	1737	N	GLU A 245	26.766	7.516	-32.344	1.00	94.88	N
ATOM	1738	CA	GLU A 245	27.203	8.523	-33.312	1.00	94.88	C
ATOM	1739	C	GLU A 245	28.594	8.219	-33.844	1.00	94.88	C
ATOM	1740	CB	GLU A 245	27.156	9.922	-32.688	1.00	94.88	C
ATOM	1741	O	GLU A 245	29.469	7.812	-33.094	1.00	94.88	O
ATOM	1742	CG	GLU A 245	27.391	11.047	-33.688	1.00	94.88	C
ATOM	1743	CD	GLU A 245	27.359	12.430	-33.062	1.00	94.88	C
ATOM	1744	OE1	GLU A 245	27.609	13.430	-33.781	1.00	94.88	O
ATOM	1745	OE2	GLU A 245	27.062	12.508	-31.844	1.00	94.88	O
ATOM	1746	N	LYS A 246	28.719	8.320	-35.125	1.00	93.44	N
ATOM	1747	CA	LYS A 246	30.000	8.070	-35.781	1.00	93.44	C
ATOM	1748	C	LYS A 246	30.500	9.320	-36.500	1.00	93.44	C
ATOM	1749	CB	LYS A 246	29.859	6.922	-36.781	1.00	93.44	C
ATOM	1750	O	LYS A 246	29.750	9.977	-37.219	1.00	93.44	O
ATOM	1751	CG	LYS A 246	31.156	6.570	-37.500	1.00	93.44	C
ATOM	1752	CD	LYS A 246	30.953	5.453	-38.531	1.00	93.44	C
ATOM	1753	CE	LYS A 246	32.219	5.160	-39.281	1.00	93.44	C
ATOM	1754	NZ	LYS A 246	32.031	4.082	-40.312	1.00	93.44	N
ATOM	1755	N	GLU A 247	31.766	9.648	-36.250	1.00	93.12	N
ATOM	1756	CA	GLU A 247	32.438	10.773	-36.906	1.00	93.12	C
ATOM	1757	C	GLU A 247	33.781	10.328	-37.531	1.00	93.12	C
ATOM	1758	CB	GLU A 247	32.719	11.891	-35.875	1.00	93.12	C
ATOM	1759	O	GLU A 247	34.562	9.641	-36.906	1.00	93.12	O
ATOM	1760	CG	GLU A 247	33.219	13.180	-36.500	1.00	93.12	C
ATOM	1761	CD	GLU A 247	33.500	14.273	-35.469	1.00	93.12	C
ATOM	1762	OE1	GLU A 247	33.969	15.367	-35.875	1.00	93.12	O
ATOM	1763	OE2	GLU A 247	33.250	14.031	-34.281	1.00	93.12	O
ATOM	1764	N	GLU A 248	33.969	10.742	-38.781	1.00	92.31	N
ATOM	1765	CA	GLU A 248	35.188	10.406	-39.500	1.00	92.31	C
ATOM	1766	C	GLU A 248	35.938	11.656	-39.938	1.00	92.31	C
ATOM	1767	CB	GLU A 248	34.875	9.531	-40.719	1.00	92.31	C
ATOM	1768	O	GLU A 248	35.344	12.602	-40.438	1.00	92.31	O
ATOM	1769	CG	GLU A 248	34.312	8.156	-40.344	1.00	92.31	C
ATOM	1770	CD	GLU A 248	34.062	7.281	-41.562	1.00	92.31	C
ATOM	1771	OE1	GLU A 248	33.531	6.164	-41.406	1.00	92.31	O
ATOM	1772	OE2	GLU A 248	34.406	7.707	-42.688	1.00	92.31	O
ATOM	1773	N	LYS A 249	37.188	11.703	-39.562	1.00	92.31	N
ATOM	1774	CA	LYS A 249	38.000	12.812	-40.062	1.00	92.31	C
ATOM	1775	C	LYS A 249	39.406	12.336	-40.438	1.00	92.31	C
ATOM	1776	CB	LYS A 249	38.094	13.914	-39.000	1.00	92.31	C
ATOM	1777	O	LYS A 249	39.812	11.227	-40.062	1.00	92.31	O
ATOM	1778	CG	LYS A 249	38.781	13.477	-37.719	1.00	92.31	C
ATOM	1779	CD	LYS A 249	38.812	14.602	-36.688	1.00	92.31	C
ATOM	1780	CE	LYS A 249	39.531	14.172	-35.406	1.00	92.31	C
ATOM	1781	NZ	LYS A 249	39.562	15.273	-34.406	1.00	92.31	N
ATOM	1782	N	GLU A 250	40.094	13.023	-41.375	1.00	87.38	N
ATOM	1783	CA	GLU A 250	41.500	12.797	-41.750	1.00	87.38	C
ATOM	1784	C	GLU A 250	42.406	13.828	-41.062	1.00	87.38	C

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ATOM	1785	CB	GLU A 250	41.688	12.852	-43.250	1.00	87.38	C
ATOM	1786	O	GLU A 250	42.219	15.031	-41.219	1.00	87.38	O
ATOM	1787	CG	GLU A 250	43.000	12.227	-43.750	1.00	87.38	C
ATOM	1788	CD	GLU A 250	43.031	12.062	-45.250	1.00	87.38	C
ATOM	1789	OE1	GLU A 250	44.094	11.648	-45.781	1.00	87.38	O
ATOM	1790	OE2	GLU A 250	42.031	12.359	-45.906	1.00	87.38	O
ATOM	1791	N	GLU A 251	43.281	13.305	-40.156	1.00	84.06	N
ATOM	1792	CA	GLU A 251	44.281	14.117	-39.469	1.00	84.06	C
ATOM	1793	C	GLU A 251	45.719	13.656	-39.812	1.00	84.06	C
ATOM	1794	CB	GLU A 251	44.062	14.086	-37.969	1.00	84.06	C
ATOM	1795	O	GLU A 251	46.062	12.492	-39.594	1.00	84.06	O
ATOM	1796	CG	GLU A 251	42.844	14.836	-37.500	1.00	84.06	C
ATOM	1797	CD	GLU A 251	42.719	14.930	-36.000	1.00	84.06	C
ATOM	1798	OE1	GLU A 251	41.750	15.539	-35.500	1.00	84.06	O
ATOM	1799	OE2	GLU A 251	43.594	14.383	-35.281	1.00	84.06	O
ATOM	1800	N	ASP A 252	46.562	14.570	-40.406	1.00	83.88	N
ATOM	1801	CA	ASP A 252	47.938	14.297	-40.719	1.00	83.88	C
ATOM	1802	C	ASP A 252	48.094	13.039	-41.562	1.00	83.88	C
ATOM	1803	CB	ASP A 252	48.750	14.156	-39.438	1.00	83.88	C
ATOM	1804	O	ASP A 252	48.969	12.211	-41.312	1.00	83.88	O
ATOM	1805	CG	ASP A 252	48.812	15.438	-38.625	1.00	83.88	C
ATOM	1806	OD1	ASP A 252	48.688	16.531	-39.188	1.00	83.88	O
ATOM	1807	OD2	ASP A 252	48.969	15.352	-37.375	1.00	83.88	O
ATOM	1808	N	GLY A 253	47.188	12.750	-42.594	1.00	82.44	N
ATOM	1809	CA	GLY A 253	47.312	11.617	-43.500	1.00	82.44	C
ATOM	1810	C	GLY A 253	46.812	10.312	-42.906	1.00	82.44	C
ATOM	1811	O	GLY A 253	46.906	9.258	-43.531	1.00	82.44	O
ATOM	1812	N	VAL A 254	46.250	10.320	-41.594	1.00	85.12	N
ATOM	1813	CA	VAL A 254	45.719	9.156	-40.875	1.00	85.12	C
ATOM	1814	C	VAL A 254	44.188	9.305	-40.719	1.00	85.12	C
ATOM	1815	CB	VAL A 254	46.375	8.984	-39.500	1.00	85.12	C
ATOM	1816	O	VAL A 254	43.719	10.375	-40.344	1.00	85.12	O
ATOM	1817	CG1	VAL A 254	45.812	7.754	-38.781	1.00	85.12	C
ATOM	1818	CG2	VAL A 254	47.875	8.875	-39.656	1.00	85.12	C
ATOM	1819	N	LYS A 255	43.406	8.289	-41.156	1.00	87.88	N
ATOM	1820	CA	LYS A 255	41.969	8.250	-40.969	1.00	87.88	C
ATOM	1821	C	LYS A 255	41.594	8.016	-39.500	1.00	87.88	C
ATOM	1822	CB	LYS A 255	41.344	7.156	-41.844	1.00	87.88	C
ATOM	1823	O	LYS A 255	42.094	7.074	-38.875	1.00	87.88	O
ATOM	1824	CG	LYS A 255	39.844	7.297	-42.031	1.00	87.88	C
ATOM	1825	CD	LYS A 255	39.312	6.277	-43.031	1.00	87.88	C
ATOM	1826	CE	LYS A 255	37.781	6.387	-43.188	1.00	87.88	C
ATOM	1827	NZ	LYS A 255	37.281	5.414	-44.219	1.00	87.88	N
ATOM	1828	N	VAL A 256	40.906	8.953	-38.875	1.00	90.38	N
ATOM	1829	CA	VAL A 256	40.438	8.859	-37.500	1.00	90.38	C
ATOM	1830	C	VAL A 256	38.938	8.664	-37.469	1.00	90.38	C
ATOM	1831	CB	VAL A 256	40.812	10.117	-36.688	1.00	90.38	C
ATOM	1832	O	VAL A 256	38.188	9.469	-38.031	1.00	90.38	O
ATOM	1833	CG1	VAL A 256	40.344	10.000	-35.250	1.00	90.38	C
ATOM	1834	CG2	VAL A 256	42.344	10.336	-36.719	1.00	90.38	C
ATOM	1835	N	ILE A 257	38.469	7.570	-36.906	1.00	91.38	N
ATOM	1836	CA	ILE A 257	37.062	7.266	-36.688	1.00	91.38	C
ATOM	1837	C	ILE A 257	36.750	7.410	-35.188	1.00	91.38	C

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ATOM	1838	CB ILE A 257	36.719	5.848	-37.188	1.00	91.38	C
ATOM	1839	O ILE A 257	37.375	6.785	-34.344	1.00	91.38	O
ATOM	1840	CG1 ILE A 257	37.031	5.707	-38.656	1.00	91.38	C
ATOM	1841	CG2 ILE A 257	35.250	5.527	-36.875	1.00	91.38	C
ATOM	1842	CD1 ILE A 257	36.875	4.289	-39.188	1.00	91.38	C
ATOM	1843	N THR A 258	35.812	8.328	-34.938	1.00	93.00	N
ATOM	1844	CA THR A 258	35.344	8.484	-33.562	1.00	93.00	C
ATOM	1845	C THR A 258	33.969	7.906	-33.406	1.00	93.00	C
ATOM	1846	CB THR A 258	35.344	9.969	-33.125	1.00	93.00	C
ATOM	1847	O THR A 258	33.031	8.328	-34.062	1.00	93.00	O
ATOM	1848	CG2 THR A 258	34.906	10.125	-31.688	1.00	93.00	C
ATOM	1849	OG1 THR A 258	36.688	10.492	-33.250	1.00	93.00	O
ATOM	1850	N LEU A 259	33.844	6.965	-32.531	1.00	94.56	N
ATOM	1851	CA LEU A 259	32.562	6.375	-32.188	1.00	94.56	C
ATOM	1852	C LEU A 259	32.094	6.859	-30.812	1.00	94.56	C
ATOM	1853	CB LEU A 259	32.656	4.848	-32.188	1.00	94.56	C
ATOM	1854	O LEU A 259	32.781	6.672	-29.812	1.00	94.56	O
ATOM	1855	CG LEU A 259	33.062	4.199	-33.531	1.00	94.56	C
ATOM	1856	CD1 LEU A 259	33.281	2.697	-33.344	1.00	94.56	C
ATOM	1857	CD2 LEU A 259	32.031	4.477	-34.594	1.00	94.56	C
ATOM	1858	N LYS A 260	30.984	7.594	-30.781	1.00	96.00	N
ATOM	1859	CA LYS A 260	30.391	8.062	-29.531	1.00	96.00	C
ATOM	1860	C LYS A 260	29.156	7.246	-29.172	1.00	96.00	C
ATOM	1861	CB LYS A 260	30.016	9.547	-29.641	1.00	96.00	C
ATOM	1862	O LYS A 260	28.203	7.156	-29.953	1.00	96.00	O
ATOM	1863	CG LYS A 260	31.203	10.469	-29.828	1.00	96.00	C
ATOM	1864	CD LYS A 260	30.781	11.930	-29.922	1.00	96.00	C
ATOM	1865	CE LYS A 260	31.969	12.844	-30.172	1.00	96.00	C
ATOM	1866	NZ LYS A 260	31.547	14.273	-30.312	1.00	96.00	N
ATOM	1867	N TYR A 261	29.234	6.609	-27.984	1.00	96.06	N
ATOM	1868	CA TYR A 261	28.094	5.859	-27.469	1.00	96.06	C
ATOM	1869	C TYR A 261	27.531	6.520	-26.219	1.00	96.06	C
ATOM	1870	CB TYR A 261	28.500	4.414	-27.156	1.00	96.06	C
ATOM	1871	O TYR A 261	28.281	6.926	-25.328	1.00	96.06	O
ATOM	1872	CG TYR A 261	28.781	3.586	-28.391	1.00	96.06	C
ATOM	1873	CD1 TYR A 261	27.766	2.846	-29.000	1.00	96.06	C
ATOM	1874	CD2 TYR A 261	30.062	3.541	-28.938	1.00	96.06	C
ATOM	1875	CE1 TYR A 261	28.031	2.080	-30.125	1.00	96.06	C
ATOM	1876	CE2 TYR A 261	30.328	2.779	-30.078	1.00	96.06	C
ATOM	1877	OH TYR A 261	29.562	1.296	-31.781	1.00	96.06	O
ATOM	1878	CZ TYR A 261	29.297	2.053	-30.656	1.00	96.06	C
ATOM	1879	N GLU A 262	26.250	6.711	-26.234	1.00	97.19	N
ATOM	1880	CA GLU A 262	25.547	7.168	-25.031	1.00	97.19	C
ATOM	1881	C GLU A 262	24.516	6.141	-24.578	1.00	97.19	C
ATOM	1882	CB GLU A 262	24.859	8.516	-25.297	1.00	97.19	C
ATOM	1883	O GLU A 262	23.562	5.840	-25.297	1.00	97.19	O
ATOM	1884	CG GLU A 262	24.266	9.156	-24.062	1.00	97.19	C
ATOM	1885	CD GLU A 262	23.719	10.555	-24.312	1.00	97.19	C
ATOM	1886	OE1 GLU A 262	23.297	11.227	-23.344	1.00	97.19	O
ATOM	1887	OE2 GLU A 262	23.703	10.977	-25.484	1.00	97.19	O
ATOM	1888	N ILE A 263	24.766	5.586	-23.375	1.00	97.31	N
ATOM	1889	CA ILE A 263	23.844	4.637	-22.750	1.00	97.31	C
ATOM	1890	C ILE A 263	23.047	5.328	-21.641	1.00	97.31	C

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ATOM	1891	CB	ILE A 263	24.594	3.404	-22.203	1.00	97.31	C
ATOM	1892	O	ILE A 263	23.641	5.793	-20.656	1.00	97.31	O
ATOM	1893	CG1	ILE A 263	25.391	2.719	-23.312	1.00	97.31	C
ATOM	1894	CG2	ILE A 263	23.609	2.424	-21.547	1.00	97.31	C
ATOM	1895	CD1	ILE A 263	26.359	1.650	-22.812	1.00	97.31	C
ATOM	1896	N	LYS A 264	21.734	5.449	-21.859	1.00	97.38	N
ATOM	1897	CA	LYS A 264	20.844	6.039	-20.844	1.00	97.38	C
ATOM	1898	C	LYS A 264	19.922	4.988	-20.250	1.00	97.38	C
ATOM	1899	CB	LYS A 264	20.031	7.176	-21.453	1.00	97.38	C
ATOM	1900	O	LYS A 264	19.156	4.344	-20.969	1.00	97.38	O
ATOM	1901	CG	LYS A 264	20.859	8.359	-21.922	1.00	97.38	C
ATOM	1902	CD	LYS A 264	19.984	9.477	-22.484	1.00	97.38	C
ATOM	1903	CE	LYS A 264	20.828	10.641	-23.000	1.00	97.38	C
ATOM	1904	NZ	LYS A 264	19.969	11.727	-23.562	1.00	97.38	N
ATOM	1905	N	VAL A 265	20.109	4.777	-18.953	1.00	97.56	N
ATOM	1906	CA	VAL A 265	19.250	3.814	-18.250	1.00	97.56	C
ATOM	1907	C	VAL A 265	18.453	4.523	-17.156	1.00	97.56	C
ATOM	1908	CB	VAL A 265	20.078	2.660	-17.641	1.00	97.56	C
ATOM	1909	O	VAL A 265	19.016	5.266	-16.359	1.00	97.56	O
ATOM	1910	CG1	VAL A 265	19.172	1.639	-16.969	1.00	97.56	C
ATOM	1911	CG2	VAL A 265	20.938	1.990	-18.719	1.00	97.56	C
ATOM	1912	N	LYS A 266	17.141	4.336	-17.219	1.00	97.50	N
ATOM	1913	CA	LYS A 266	16.250	4.871	-16.203	1.00	97.50	C
ATOM	1914	C	LYS A 266	15.438	3.758	-15.539	1.00	97.50	C
ATOM	1915	CB	LYS A 266	15.305	5.914	-16.797	1.00	97.50	C
ATOM	1916	O	LYS A 266	14.727	3.012	-16.219	1.00	97.50	O
ATOM	1917	CG	LYS A 266	14.492	6.684	-15.781	1.00	97.50	C
ATOM	1918	CD	LYS A 266	13.648	7.773	-16.438	1.00	97.50	C
ATOM	1919	CE	LYS A 266	12.797	8.516	-15.414	1.00	97.50	C
ATOM	1920	NZ	LYS A 266	11.992	9.602	-16.047	1.00	97.50	N
ATOM	1921	N	ALA A 267	15.672	3.547	-14.227	1.00	97.44	N
ATOM	1922	CA	ALA A 267	14.906	2.580	-13.438	1.00	97.44	C
ATOM	1923	C	ALA A 267	14.039	3.283	-12.398	1.00	97.44	C
ATOM	1924	CB	ALA A 267	15.852	1.588	-12.766	1.00	97.44	C
ATOM	1925	O	ALA A 267	14.523	4.152	-11.664	1.00	97.44	O
ATOM	1926	N	GLU A 268	12.734	2.992	-12.383	1.00	97.69	N
ATOM	1927	CA	GLU A 268	11.789	3.584	-11.438	1.00	97.69	C
ATOM	1928	C	GLU A 268	10.992	2.508	-10.711	1.00	97.69	C
ATOM	1929	CB	GLU A 268	10.844	4.543	-12.164	1.00	97.69	C
ATOM	1930	O	GLU A 268	10.562	1.529	-11.320	1.00	97.69	O
ATOM	1931	CG	GLU A 268	11.539	5.734	-12.805	1.00	97.69	C
ATOM	1932	CD	GLU A 268	10.586	6.664	-13.539	1.00	97.69	C
ATOM	1933	OE1	GLU A 268	11.062	7.629	-14.180	1.00	97.69	O
ATOM	1934	OE2	GLU A 268	9.367	6.422	-13.477	1.00	97.69	O
ATOM	1935	N	ARG A 269	10.938	2.672	-9.430	1.00	95.94	N
ATOM	1936	CA	ARG A 269	10.094	1.807	-8.617	1.00	95.94	C
ATOM	1937	C	ARG A 269	9.102	2.625	-7.789	1.00	95.94	C
ATOM	1938	CB	ARG A 269	10.938	0.927	-7.695	1.00	95.94	C
ATOM	1939	O	ARG A 269	9.477	3.641	-7.199	1.00	95.94	O
ATOM	1940	CG	ARG A 269	11.703	-0.171	-8.422	1.00	95.94	C
ATOM	1941	CD	ARG A 269	12.117	-1.288	-7.477	1.00	95.94	C
ATOM	1942	NE	ARG A 269	12.625	-2.447	-8.203	1.00	95.94	N
ATOM	1943	NH1	ARG A 269	12.031	-3.982	-6.582	1.00	95.94	N

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ATOM	1944	NH2 ARG A 269	13.062	-4.684	-8.508	1.00	95.94	N
ATOM	1945	CZ ARG A 269	12.578	-3.701	-7.762	1.00	95.94	C
ATOM	1946	N LYS A 270	7.875	2.234	-7.902	1.00	96.19	N
ATOM	1947	CA LYS A 270	6.816	2.883	-7.133	1.00	96.19	C
ATOM	1948	C LYS A 270	6.051	1.867	-6.289	1.00	96.19	C
ATOM	1949	CB LYS A 270	5.855	3.625	-8.062	1.00	96.19	C
ATOM	1950	O LYS A 270	5.504	0.897	-6.820	1.00	96.19	O
ATOM	1951	CG LYS A 270	4.789	4.434	-7.332	1.00	96.19	C
ATOM	1952	CD LYS A 270	3.877	5.164	-8.312	1.00	96.19	C
ATOM	1953	CE LYS A 270	2.781	5.930	-7.582	1.00	96.19	C
ATOM	1954	NZ LYS A 270	1.886	6.652	-8.539	1.00	96.19	N
ATOM	1955	N LEU A 271	6.051	2.055	-4.906	1.00	95.00	N
ATOM	1956	CA LEU A 271	5.320	1.214	-3.963	1.00	95.00	C
ATOM	1957	C LEU A 271	4.152	1.976	-3.348	1.00	95.00	C
ATOM	1958	CB LEU A 271	6.258	0.710	-2.861	1.00	95.00	C
ATOM	1959	O LEU A 271	4.336	3.068	-2.805	1.00	95.00	O
ATOM	1960	CG LEU A 271	5.621	-0.169	-1.782	1.00	95.00	C
ATOM	1961	CD1 LEU A 271	5.117	-1.472	-2.391	1.00	95.00	C
ATOM	1962	CD2 LEU A 271	6.621	-0.447	-0.664	1.00	95.00	C
ATOM	1963	N THR A 272	2.982	1.441	-3.574	1.00	95.19	N
ATOM	1964	CA THR A 272	1.780	2.006	-2.971	1.00	95.19	C
ATOM	1965	C THR A 272	1.220	1.068	-1.903	1.00	95.19	C
ATOM	1966	CB THR A 272	0.700	2.283	-4.031	1.00	95.19	C
ATOM	1967	O THR A 272	0.985	-0.112	-2.168	1.00	95.19	O
ATOM	1968	CG2 THR A 272	-0.535	2.922	-3.406	1.00	95.19	C
ATOM	1969	OG1 THR A 272	1.231	3.168	-5.027	1.00	95.19	O
ATOM	1970	N ILE A 273	0.996	1.646	-0.652	1.00	95.69	N
ATOM	1971	CA ILE A 273	0.436	0.896	0.467	1.00	95.69	C
ATOM	1972	C ILE A 273	-0.877	1.537	0.911	1.00	95.69	C
ATOM	1973	CB ILE A 273	1.425	0.826	1.651	1.00	95.69	C
ATOM	1974	O ILE A 273	-0.920	2.729	1.222	1.00	95.69	O
ATOM	1975	CG1 ILE A 273	2.773	0.261	1.188	1.00	95.69	C
ATOM	1976	CG2 ILE A 273	0.843	-0.014	2.793	1.00	95.69	C
ATOM	1977	CD1 ILE A 273	3.949	1.203	1.411	1.00	95.69	C
ATOM	1978	N ASN A 274	-1.850	0.705	0.872	1.00	96.12	N
ATOM	1979	CA ASN A 274	-3.143	1.145	1.386	1.00	96.12	C
ATOM	1980	C ASN A 274	-3.598	0.291	2.566	1.00	96.12	C
ATOM	1981	CB ASN A 274	-4.195	1.123	0.277	1.00	96.12	C
ATOM	1982	O ASN A 274	-3.764	-0.923	2.432	1.00	96.12	O
ATOM	1983	CG ASN A 274	-3.896	2.109	-0.834	1.00	96.12	C
ATOM	1984	ND2 ASN A 274	-3.900	1.628	-2.072	1.00	96.12	N
ATOM	1985	OD1 ASN A 274	-3.662	3.295	-0.583	1.00	96.12	O
ATOM	1986	N ALA A 275	-3.727	0.936	3.660	1.00	96.62	N
ATOM	1987	CA ALA A 275	-4.137	0.235	4.875	1.00	96.62	C
ATOM	1988	C ALA A 275	-5.434	0.817	5.430	1.00	96.62	C
ATOM	1989	CB ALA A 275	-3.031	0.299	5.926	1.00	96.62	C
ATOM	1990	O ALA A 275	-5.621	2.035	5.438	1.00	96.62	O
ATOM	1991	N ASN A 276	-6.316	-0.119	5.820	1.00	97.00	N
ATOM	1992	CA ASN A 276	-7.598	0.297	6.383	1.00	97.00	C
ATOM	1993	C ASN A 276	-7.906	-0.451	7.676	1.00	97.00	C
ATOM	1994	CB ASN A 276	-8.727	0.093	5.371	1.00	97.00	C
ATOM	1995	O ASN A 276	-7.773	-1.674	7.742	1.00	97.00	O
ATOM	1996	CG ASN A 276	-8.594	1.002	4.164	1.00	97.00	C

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ATOM	1997	ND2 ASN A 276	-9.016	0.510	3.002	1.00	97.00	N
ATOM	1998	OD1 ASN A 276	-8.125	2.137	4.273	1.00	97.00	O
ATOM	1999	N ALA A 277	-8.211	0.328	8.711	1.00	96.88	N
ATOM	2000	CA ALA A 277	-8.711	-0.228	9.961	1.00	96.88	C
ATOM	2001	C ALA A 277	-10.133	0.249	10.250	1.00	96.88	C
ATOM	2002	CB ALA A 277	-7.785	0.148	11.117	1.00	96.88	C
ATOM	2003	O ALA A 277	-10.375	1.451	10.375	1.00	96.88	O
ATOM	2004	N ASN A 278	-11.055	-0.722	10.297	1.00	95.88	N
ATOM	2005	CA ASN A 278	-12.453	-0.414	10.555	1.00	95.88	C
ATOM	2006	C ASN A 278	-12.945	-1.064	11.844	1.00	95.88	C
ATOM	2007	CB ASN A 278	-13.320	-0.853	9.367	1.00	95.88	C
ATOM	2008	O ASN A 278	-12.812	-2.275	12.023	1.00	95.88	O
ATOM	2009	CG ASN A 278	-12.961	-0.134	8.086	1.00	95.88	C
ATOM	2010	ND2 ASN A 278	-12.922	-0.874	6.984	1.00	95.88	N
ATOM	2011	OD1 ASN A 278	-12.727	1.077	8.078	1.00	95.88	O
ATOM	2012	N ALA A 279	-13.430	-0.233	12.695	1.00	96.12	N
ATOM	2013	CA ALA A 279	-14.000	-0.753	13.938	1.00	96.12	C
ATOM	2014	C ALA A 279	-15.492	-0.457	14.023	1.00	96.12	C
ATOM	2015	CB ALA A 279	-13.273	-0.164	15.141	1.00	96.12	C
ATOM	2016	O ALA A 279	-15.938	0.627	13.641	1.00	96.12	O
ATOM	2017	N ASN A 280	-16.266	-1.434	14.406	1.00	94.75	N
ATOM	2018	CA ASN A 280	-17.703	-1.314	14.664	1.00	94.75	C
ATOM	2019	C ASN A 280	-18.047	-1.741	16.078	1.00	94.75	C
ATOM	2020	CB ASN A 280	-18.500	-2.137	13.648	1.00	94.75	C
ATOM	2021	O ASN A 280	-17.719	-2.852	16.500	1.00	94.75	O
ATOM	2022	CG ASN A 280	-19.969	-1.788	13.648	1.00	94.75	C
ATOM	2023	ND2 ASN A 280	-20.734	-2.443	12.781	1.00	94.75	N
ATOM	2024	OD1 ASN A 280	-20.422	-0.935	14.414	1.00	94.75	O
ATOM	2025	N ALA A 281	-18.625	-0.798	16.766	1.00	94.38	N
ATOM	2026	CA ALA A 281	-19.047	-1.097	18.125	1.00	94.38	C
ATOM	2027	C ALA A 281	-20.562	-1.002	18.250	1.00	94.38	C
ATOM	2028	CB ALA A 281	-18.375	-0.151	19.125	1.00	94.38	C
ATOM	2029	O ALA A 281	-21.172	-0.017	17.828	1.00	94.38	O
ATOM	2030	N ASN A 282	-21.188	-2.049	18.844	1.00	93.00	N
ATOM	2031	CA ASN A 282	-22.625	-2.100	19.078	1.00	93.00	C
ATOM	2032	C ASN A 282	-22.953	-2.277	20.547	1.00	93.00	C
ATOM	2033	CB ASN A 282	-23.266	-3.225	18.250	1.00	93.00	C
ATOM	2034	O ASN A 282	-22.516	-3.244	21.172	1.00	93.00	O
ATOM	2035	CG ASN A 282	-23.078	-3.035	16.750	1.00	93.00	C
ATOM	2036	ND2 ASN A 282	-22.750	-4.117	16.062	1.00	93.00	N
ATOM	2037	OD1 ASN A 282	-23.219	-1.926	16.234	1.00	93.00	O
ATOM	2038	N ALA A 283	-23.562	-1.235	21.031	1.00	93.81	N
ATOM	2039	CA ALA A 283	-24.047	-1.333	22.406	1.00	93.81	C
ATOM	2040	C ALA A 283	-25.547	-1.566	22.453	1.00	93.81	C
ATOM	2041	CB ALA A 283	-23.688	-0.071	23.188	1.00	93.81	C
ATOM	2042	O ALA A 283	-26.312	-0.864	21.781	1.00	93.81	O
ATOM	2043	N THR A 284	-25.984	-2.652	23.188	1.00	92.31	N
ATOM	2044	CA THR A 284	-27.406	-2.963	23.359	1.00	92.31	C
ATOM	2045	C THR A 284	-27.781	-2.912	24.844	1.00	92.31	C
ATOM	2046	CB THR A 284	-27.750	-4.348	22.781	1.00	92.31	C
ATOM	2047	O THR A 284	-27.109	-3.500	25.688	1.00	92.31	O
ATOM	2048	CG2 THR A 284	-29.234	-4.637	22.906	1.00	92.31	C
ATOM	2049	OG1 THR A 284	-27.375	-4.395	21.406	1.00	92.31	O

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ATOM	2050	N	VAL A 285	-28.797	-2.115	25.094	1.00	92.19	N
ATOM	2051	CA	VAL A 285	-29.312	-2.020	26.453	1.00	92.19	C
ATOM	2052	C	VAL A 285	-30.781	-2.430	26.484	1.00	92.19	C
ATOM	2053	CB	VAL A 285	-29.141	-0.592	27.031	1.00	92.19	C
ATOM	2054	O	VAL A 285	-31.578	-1.978	25.656	1.00	92.19	O
ATOM	2055	CG1	VAL A 285	-29.688	-0.513	28.453	1.00	92.19	C
ATOM	2056	CG2	VAL A 285	-27.672	-0.170	26.984	1.00	92.19	C
ATOM	2057	N	THR A 286	-31.109	-3.291	27.469	1.00	91.69	N
ATOM	2058	CA	THR A 286	-32.500	-3.662	27.734	1.00	91.69	C
ATOM	2059	C	THR A 286	-32.906	-3.299	29.156	1.00	91.69	C
ATOM	2060	CB	THR A 286	-32.719	-5.164	27.500	1.00	91.69	C
ATOM	2061	O	THR A 286	-32.219	-3.697	30.109	1.00	91.69	O
ATOM	2062	CG2	THR A 286	-34.188	-5.531	27.672	1.00	91.69	C
ATOM	2063	OG1	THR A 286	-32.312	-5.504	26.156	1.00	91.69	O
ATOM	2064	N	ILE A 287	-33.938	-2.432	29.281	1.00	88.19	N
ATOM	2065	CA	ILE A 287	-34.500	-2.066	30.594	1.00	88.19	C
ATOM	2066	C	ILE A 287	-35.875	-2.676	30.766	1.00	88.19	C
ATOM	2067	CB	ILE A 287	-34.562	-0.532	30.766	1.00	88.19	C
ATOM	2068	O	ILE A 287	-36.781	-2.412	29.969	1.00	88.19	O
ATOM	2069	CG1	ILE A 287	-33.156	0.084	30.594	1.00	88.19	C
ATOM	2070	CG2	ILE A 287	-35.156	-0.168	32.125	1.00	88.19	C
ATOM	2071	CD1	ILE A 287	-33.156	1.605	30.562	1.00	88.19	C
ATOM	2072	N	ASN A 288	-36.094	-3.621	31.828	1.00	85.56	N
ATOM	2073	CA	ASN A 288	-37.406	-4.203	32.125	1.00	85.56	C
ATOM	2074	C	ASN A 288	-38.094	-3.490	33.312	1.00	85.56	C
ATOM	2075	CB	ASN A 288	-37.281	-5.699	32.438	1.00	85.56	C
ATOM	2076	O	ASN A 288	-37.438	-3.197	34.312	1.00	85.56	O
ATOM	2077	CG	ASN A 288	-36.781	-6.488	31.219	1.00	85.56	C
ATOM	2078	ND2	ASN A 288	-35.875	-7.426	31.469	1.00	85.56	N
ATOM	2079	OD1	ASN A 288	-37.219	-6.258	30.094	1.00	85.56	O
ATOM	2080	N	GLY A 289	-39.312	-2.842	33.031	1.00	77.06	N
ATOM	2081	CA	GLY A 289	-40.094	-2.277	34.125	1.00	77.06	C
ATOM	2082	C	GLY A 289	-40.344	-3.250	35.250	1.00	77.06	C
ATOM	2083	O	GLY A 289	-40.469	-4.457	35.031	1.00	77.06	O
TER	2084		GLY A 289						
END									
ATOM	1	N	VAL A 8	52.375	3.025	-26.266	1.00	91.81	N
ATOM	2	CA	VAL A 8	51.469	3.152	-25.141	1.00	91.81	C
ATOM	3	C	VAL A 8	50.250	2.273	-25.359	1.00	91.81	C
ATOM	4	CB	VAL A 8	51.062	4.621	-24.906	1.00	91.81	C
ATOM	5	O	VAL A 8	49.625	2.322	-26.422	1.00	91.81	O
ATOM	6	CG1	VAL A 8	50.188	4.746	-23.656	1.00	91.81	C
ATOM	7	CG2	VAL A 8	52.281	5.523	-24.812	1.00	91.81	C
ATOM	8	N	LYS A 9	50.000	1.429	-24.391	1.00	93.19	N
ATOM	9	CA	LYS A 9	48.812	0.604	-24.391	1.00	93.19	C
ATOM	10	C	LYS A 9	47.781	1.117	-23.375	1.00	93.19	C
ATOM	11	CB	LYS A 9	49.156	-0.855	-24.094	1.00	93.19	C
ATOM	12	O	LYS A 9	48.125	1.363	-22.219	1.00	93.19	O
ATOM	13	CG	LYS A 9	48.031	-1.829	-24.359	1.00	93.19	C
ATOM	14	CD	LYS A 9	48.469	-3.273	-24.172	1.00	93.19	C
ATOM	15	CE	LYS A 9	47.312	-4.250	-24.406	1.00	93.19	C
ATOM	16	NZ	LYS A 9	47.781	-5.668	-24.297	1.00	93.19	N
ATOM	17	N	VAL A 10	46.562	1.296	-23.828	1.00	94.81	N

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ATOM	18	CA	VAL A 10	45.500	1.750	-22.953	1.00	94.81	C
ATOM	19	C	VAL A 10	44.500	0.614	-22.734	1.00	94.81	C
ATOM	20	CB	VAL A 10	44.781	2.984	-23.531	1.00	94.81	C
ATOM	21	O	VAL A 10	44.000	0.019	-23.688	1.00	94.81	O
ATOM	22	CG1	VAL A 10	43.562	3.352	-22.688	1.00	94.81	C
ATOM	23	CG2	VAL A 10	45.750	4.168	-23.641	1.00	94.81	C
ATOM	24	N	LYS A 11	44.219	0.321	-21.453	1.00	94.75	N
ATOM	25	CA	LYS A 11	43.219	-0.634	-21.047	1.00	94.75	C
ATOM	26	C	LYS A 11	42.062	0.059	-20.297	1.00	94.75	C
ATOM	27	CB	LYS A 11	43.812	-1.745	-20.188	1.00	94.75	C
ATOM	28	O	LYS A 11	42.312	0.642	-19.234	1.00	94.75	O
ATOM	29	CG	LYS A 11	44.719	-2.686	-20.953	1.00	94.75	C
ATOM	30	CD	LYS A 11	45.219	-3.826	-20.062	1.00	94.75	C
ATOM	31	CE	LYS A 11	46.219	-4.711	-20.797	1.00	94.75	C
ATOM	32	NZ	LYS A 11	46.719	-5.820	-19.938	1.00	94.75	N
ATOM	33	N	LEU A 12	40.844	-0.014	-20.844	1.00	95.50	N
ATOM	34	CA	LEU A 12	39.656	0.501	-20.141	1.00	95.50	C
ATOM	35	C	LEU A 12	38.844	-0.639	-19.562	1.00	95.50	C
ATOM	36	CB	LEU A 12	38.812	1.342	-21.078	1.00	95.50	C
ATOM	37	O	LEU A 12	38.375	-1.521	-20.281	1.00	95.50	O
ATOM	38	CG	LEU A 12	39.406	2.650	-21.578	1.00	95.50	C
ATOM	39	CD1	LEU A 12	38.562	3.250	-22.688	1.00	95.50	C
ATOM	40	CD2	LEU A 12	39.562	3.637	-20.438	1.00	95.50	C
ATOM	41	N	ASN A 13	38.688	-0.606	-18.312	1.00	95.94	N
ATOM	42	CA	ASN A 13	37.812	-1.557	-17.656	1.00	95.94	C
ATOM	43	C	ASN A 13	36.562	-0.871	-17.094	1.00	95.94	C
ATOM	44	CB	ASN A 13	38.562	-2.283	-16.531	1.00	95.94	C
ATOM	45	O	ASN A 13	36.656	-0.032	-16.203	1.00	95.94	O
ATOM	46	CG	ASN A 13	39.750	-3.061	-17.031	1.00	95.94	C
ATOM	47	ND2	ASN A 13	40.875	-2.936	-16.344	1.00	95.94	N
ATOM	48	OD1	ASN A 13	39.656	-3.764	-18.047	1.00	95.94	O
ATOM	49	N	VAL A 14	35.438	-1.225	-17.656	1.00	96.88	N
ATOM	50	CA	VAL A 14	34.188	-0.602	-17.203	1.00	96.88	C
ATOM	51	C	VAL A 14	33.344	-1.623	-16.453	1.00	96.88	C
ATOM	52	CB	VAL A 14	33.406	-0.016	-18.391	1.00	96.88	C
ATOM	53	O	VAL A 14	33.094	-2.715	-16.969	1.00	96.88	O
ATOM	54	CG1	VAL A 14	32.156	0.706	-17.906	1.00	96.88	C
ATOM	55	CG2	VAL A 14	34.281	0.929	-19.219	1.00	96.88	C
ATOM	56	N	THR A 15	33.000	-1.307	-15.234	1.00	96.56	N
ATOM	57	CA	THR A 15	32.062	-2.100	-14.438	1.00	96.56	C
ATOM	58	C	THR A 15	30.828	-1.287	-14.102	1.00	96.56	C
ATOM	59	CB	THR A 15	32.719	-2.600	-13.141	1.00	96.56	C
ATOM	60	O	THR A 15	30.922	-0.187	-13.555	1.00	96.56	O
ATOM	61	CG2	THR A 15	31.781	-3.494	-12.352	1.00	96.56	C
ATOM	62	OG1	THR A 15	33.906	-3.344	-13.469	1.00	96.56	O
ATOM	63	N	VAL A 16	29.703	-1.807	-14.484	1.00	97.19	N
ATOM	64	CA	VAL A 16	28.438	-1.170	-14.141	1.00	97.19	C
ATOM	65	C	VAL A 16	27.672	-2.045	-13.148	1.00	97.19	C
ATOM	66	CB	VAL A 16	27.578	-0.904	-15.391	1.00	97.19	C
ATOM	67	O	VAL A 16	27.406	-3.217	-13.422	1.00	97.19	O
ATOM	68	CG1	VAL A 16	26.297	-0.150	-15.023	1.00	97.19	C
ATOM	69	CG2	VAL A 16	28.375	-0.126	-16.438	1.00	97.19	C
ATOM	70	N	ASN A 17	27.391	-1.479	-12.008	1.00	96.75	N

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ATOM	71	CA	ASN	A	17	26.562	-2.129	-11.000	1.00	96.75	C
ATOM	72	C	ASN	A	17	25.188	-1.464	-10.883	1.00	96.75	C
ATOM	73	CB	ASN	A	17	27.266	-2.127	-9.641	1.00	96.75	C
ATOM	74	O	ASN	A	17	25.094	-0.259	-10.641	1.00	96.75	O
ATOM	75	CG	ASN	A	17	28.531	-2.953	-9.648	1.00	96.75	C
ATOM	76	ND2	ASN	A	17	29.594	-2.416	-9.047	1.00	96.75	N
ATOM	77	OD1	ASN	A	17	28.562	-4.062	-10.180	1.00	96.75	O
ATOM	78	N	THR	A	18	24.172	-2.244	-11.055	1.00	96.62	N
ATOM	79	CA	THR	A	18	22.828	-1.732	-10.875	1.00	96.62	C
ATOM	80	C	THR	A	18	22.156	-2.396	-9.672	1.00	96.62	C
ATOM	81	CB	THR	A	18	21.969	-1.954	-12.133	1.00	96.62	C
ATOM	82	O	THR	A	18	22.156	-3.623	-9.555	1.00	96.62	O
ATOM	83	CG2	THR	A	18	22.453	-1.080	-13.281	1.00	96.62	C
ATOM	84	OG1	THR	A	18	22.047	-3.330	-12.523	1.00	96.62	O
ATOM	85	N	LYS	A	19	21.641	-1.572	-8.828	1.00	96.12	N
ATOM	86	CA	LYS	A	19	20.891	-2.064	-7.672	1.00	96.12	C
ATOM	87	C	LYS	A	19	19.469	-1.532	-7.672	1.00	96.12	C
ATOM	88	CB	LYS	A	19	21.594	-1.674	-6.371	1.00	96.12	C
ATOM	89	O	LYS	A	19	19.250	-0.319	-7.672	1.00	96.12	O
ATOM	90	CG	LYS	A	19	22.969	-2.299	-6.203	1.00	96.12	C
ATOM	91	CD	LYS	A	19	23.594	-1.923	-4.863	1.00	96.12	C
ATOM	92	CE	LYS	A	19	24.984	-2.516	-4.711	1.00	96.12	C
ATOM	93	NZ	LYS	A	19	25.609	-2.152	-3.398	1.00	96.12	N
ATOM	94	N	SER	A	20	18.484	-2.408	-7.684	1.00	97.94	N
ATOM	95	CA	SER	A	20	17.078	-2.035	-7.652	1.00	97.94	C
ATOM	96	C	SER	A	20	16.391	-2.580	-6.402	1.00	97.94	C
ATOM	97	CB	SER	A	20	16.359	-2.545	-8.898	1.00	97.94	C
ATOM	98	O	SER	A	20	16.500	-3.768	-6.094	1.00	97.94	O
ATOM	99	OG	SER	A	20	16.984	-2.055	-10.078	1.00	97.94	O
ATOM	100	N	LYS	A	21	15.805	-1.691	-5.742	1.00	96.94	N
ATOM	101	CA	LYS	A	21	15.094	-2.051	-4.516	1.00	96.94	C
ATOM	102	C	LYS	A	21	13.656	-1.551	-4.543	1.00	96.94	C
ATOM	103	CB	LYS	A	21	15.820	-1.484	-3.293	1.00	96.94	C
ATOM	104	O	LYS	A	21	13.383	-0.458	-5.047	1.00	96.94	O
ATOM	105	CG	LYS	A	21	15.281	-1.987	-1.963	1.00	96.94	C
ATOM	106	CD	LYS	A	21	16.094	-1.463	-0.791	1.00	96.94	C
ATOM	107	CE	LYS	A	21	15.555	-1.963	0.541	1.00	96.94	C
ATOM	108	NZ	LYS	A	21	16.391	-1.498	1.689	1.00	96.94	N
ATOM	109	N	ALA	A	22	12.750	-2.396	-4.062	1.00	97.81	N
ATOM	110	CA	ALA	A	22	11.352	-1.997	-3.973	1.00	97.81	C
ATOM	111	C	ALA	A	22	10.750	-2.404	-2.629	1.00	97.81	C
ATOM	112	CB	ALA	A	22	10.547	-2.607	-5.117	1.00	97.81	C
ATOM	113	O	ALA	A	22	11.023	-3.498	-2.129	1.00	97.81	O
ATOM	114	N	LYS	A	23	9.969	-1.499	-2.094	1.00	97.50	N
ATOM	115	CA	LYS	A	23	9.258	-1.749	-0.841	1.00	97.50	C
ATOM	116	C	LYS	A	23	7.793	-1.339	-0.946	1.00	97.50	C
ATOM	117	CB	LYS	A	23	9.930	-1.003	0.313	1.00	97.50	C
ATOM	118	O	LYS	A	23	7.480	-0.251	-1.434	1.00	97.50	O
ATOM	119	CG	LYS	A	23	9.336	-1.309	1.679	1.00	97.50	C
ATOM	120	CD	LYS	A	23	10.109	-0.615	2.793	1.00	97.50	C
ATOM	121	CE	LYS	A	23	9.516	-0.924	4.160	1.00	97.50	C
ATOM	122	NZ	LYS	A	23	10.289	-0.279	5.262	1.00	97.50	N
ATOM	123	N	ALA	A	24	6.910	-2.230	-0.522	1.00	98.19	N

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ATOM	124	CA	ALA	A	24	5.477	-1.945	-0.478	1.00	98.19	C
ATOM	125	C	ALA	A	24	4.930	-2.100	0.938	1.00	98.19	C
ATOM	126	CB	ALA	A	24	4.723	-2.859	-1.438	1.00	98.19	C
ATOM	127	O	ALA	A	24	5.168	-3.117	1.594	1.00	98.19	O
ATOM	128	N	ASN	A	25	4.188	-1.098	1.380	1.00	98.38	N
ATOM	129	CA	ASN	A	25	3.525	-1.108	2.680	1.00	98.38	C
ATOM	130	C	ASN	A	25	2.016	-0.941	2.539	1.00	98.38	C
ATOM	131	CB	ASN	A	25	4.102	-0.015	3.584	1.00	98.38	C
ATOM	132	O	ASN	A	25	1.549	-0.041	1.839	1.00	98.38	O
ATOM	133	CG	ASN	A	25	5.578	-0.206	3.865	1.00	98.38	C
ATOM	134	ND2	ASN	A	25	6.340	0.876	3.781	1.00	98.38	N
ATOM	135	OD1	ASN	A	25	6.027	-1.317	4.156	1.00	98.38	O
ATOM	136	N	VAL	A	26	1.292	-1.838	3.211	1.00	98.62	N
ATOM	137	CA	VAL	A	26	-0.163	-1.724	3.176	1.00	98.62	C
ATOM	138	C	VAL	A	26	-0.710	-1.653	4.602	1.00	98.62	C
ATOM	139	CB	VAL	A	26	-0.807	-2.902	2.414	1.00	98.62	C
ATOM	140	O	VAL	A	26	-0.339	-2.463	5.453	1.00	98.62	O
ATOM	141	CG1	VAL	A	26	-2.330	-2.809	2.463	1.00	98.62	C
ATOM	142	CG2	VAL	A	26	-0.316	-2.936	0.968	1.00	98.62	C
ATOM	143	N	THR	A	27	-1.567	-0.689	4.867	1.00	98.50	N
ATOM	144	CA	THR	A	27	-2.303	-0.578	6.121	1.00	98.50	C
ATOM	145	C	THR	A	27	-3.801	-0.437	5.859	1.00	98.50	C
ATOM	146	CB	THR	A	27	-1.810	0.619	6.953	1.00	98.50	C
ATOM	147	O	THR	A	27	-4.223	0.444	5.109	1.00	98.50	O
ATOM	148	CG2	THR	A	27	-2.539	0.695	8.289	1.00	98.50	C
ATOM	149	OG1	THR	A	27	-0.404	0.479	7.195	1.00	98.50	O
ATOM	150	N	LEU	A	28	-4.598	-1.359	6.422	1.00	98.69	N
ATOM	151	CA	LEU	A	28	-6.051	-1.280	6.297	1.00	98.69	C
ATOM	152	C	LEU	A	28	-6.699	-1.016	7.648	1.00	98.69	C
ATOM	153	CB	LEU	A	28	-6.605	-2.572	5.691	1.00	98.69	C
ATOM	154	O	LEU	A	28	-6.301	-1.603	8.656	1.00	98.69	O
ATOM	155	CG	LEU	A	28	-6.094	-2.947	4.301	1.00	98.69	C
ATOM	156	CD1	LEU	A	28	-6.773	-4.219	3.811	1.00	98.69	C
ATOM	157	CD2	LEU	A	28	-6.316	-1.800	3.322	1.00	98.69	C
ATOM	158	N	ASN	A	29	-7.605	-0.092	7.633	1.00	98.62	N
ATOM	159	CA	ASN	A	29	-8.398	0.216	8.820	1.00	98.62	C
ATOM	160	C	ASN	A	29	-9.891	0.046	8.562	1.00	98.62	C
ATOM	161	CB	ASN	A	29	-8.102	1.637	9.305	1.00	98.62	C
ATOM	162	O	ASN	A	29	-10.398	0.491	7.527	1.00	98.62	O
ATOM	163	CG	ASN	A	29	-6.656	1.822	9.727	1.00	98.62	C
ATOM	164	ND2	ASN	A	29	-5.969	2.756	9.078	1.00	98.62	N
ATOM	165	OD1	ASN	A	29	-6.164	1.130	10.617	1.00	98.62	O
ATOM	166	N	ALA	A	30	-10.555	-0.611	9.461	1.00	98.62	N
ATOM	167	CA	ALA	A	30	-12.008	-0.752	9.383	1.00	98.62	C
ATOM	168	C	ALA	A	30	-12.672	-0.250	10.664	1.00	98.62	C
ATOM	169	CB	ALA	A	30	-12.391	-2.207	9.125	1.00	98.62	C
ATOM	170	O	ALA	A	30	-12.305	-0.660	11.766	1.00	98.62	O
ATOM	171	N	ASN	A	31	-13.672	0.640	10.445	1.00	98.56	N
ATOM	172	CA	ASN	A	31	-14.391	1.205	11.586	1.00	98.56	C
ATOM	173	C	ASN	A	31	-15.898	1.019	11.438	1.00	98.56	C
ATOM	174	CB	ASN	A	31	-14.055	2.688	11.750	1.00	98.56	C
ATOM	175	O	ASN	A	31	-16.500	1.468	10.461	1.00	98.56	O
ATOM	176	CG	ASN	A	31	-12.570	2.932	11.930	1.00	98.56	C

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ATOM	177	ND2 ASN A 31	-12.016	3.832	11.125	1.00	98.56	N
ATOM	178	OD1 ASN A 31	-11.930	2.316	12.781	1.00	98.56	O
ATOM	179	N ALA A 32	-16.500	0.344	12.391	1.00	98.62	N
ATOM	180	CA ALA A 32	-17.938	0.110	12.391	1.00	98.62	C
ATOM	181	C ALA A 32	-18.609	0.845	13.547	1.00	98.62	C
ATOM	182	CB ALA A 32	-18.234	-1.386	12.469	1.00	98.62	C
ATOM	183	O ALA A 32	-18.203	0.700	14.703	1.00	98.62	O
ATOM	184	N ASN A 33	-19.625	1.626	13.203	1.00	98.44	N
ATOM	185	CA ASN A 33	-20.391	2.367	14.195	1.00	98.44	C
ATOM	186	C ASN A 33	-21.891	2.102	14.070	1.00	98.44	C
ATOM	187	CB ASN A 33	-20.109	3.865	14.094	1.00	98.44	C
ATOM	188	O ASN A 33	-22.453	2.209	12.977	1.00	98.44	O
ATOM	189	CG ASN A 33	-18.641	4.195	14.289	1.00	98.44	C
ATOM	190	ND2 ASN A 33	-18.031	4.805	13.281	1.00	98.44	N
ATOM	191	OD1 ASN A 33	-18.062	3.908	15.344	1.00	98.44	O
ATOM	192	N VAL A 34	-22.453	1.829	15.156	1.00	98.25	N
ATOM	193	CA VAL A 34	-23.875	1.527	15.109	1.00	98.25	C
ATOM	194	C VAL A 34	-24.609	2.312	16.188	1.00	98.25	C
ATOM	195	CB VAL A 34	-24.141	0.014	15.273	1.00	98.25	C
ATOM	196	O VAL A 34	-24.109	2.455	17.312	1.00	98.25	O
ATOM	197	CG1 VAL A 34	-23.875	-0.428	16.719	1.00	98.25	C
ATOM	198	CG2 VAL A 34	-25.578	-0.322	14.859	1.00	98.25	C
ATOM	199	N THR A 35	-25.766	2.791	15.844	1.00	98.00	N
ATOM	200	CA THR A 35	-26.625	3.529	16.766	1.00	98.00	C
ATOM	201	C THR A 35	-28.062	3.064	16.672	1.00	98.00	C
ATOM	202	CB THR A 35	-26.547	5.047	16.516	1.00	98.00	C
ATOM	203	O THR A 35	-28.609	2.936	15.562	1.00	98.00	O
ATOM	204	CG2 THR A 35	-27.391	5.816	17.516	1.00	98.00	C
ATOM	205	OG1 THR A 35	-25.188	5.477	16.625	1.00	98.00	O
ATOM	206	N VAL A 36	-28.688	2.762	17.812	1.00	97.06	N
ATOM	207	CA VAL A 36	-30.109	2.422	17.891	1.00	97.06	C
ATOM	208	C VAL A 36	-30.844	3.463	18.719	1.00	97.06	C
ATOM	209	CB VAL A 36	-30.328	1.011	18.484	1.00	97.06	C
ATOM	210	O VAL A 36	-30.453	3.744	19.859	1.00	97.06	O
ATOM	211	CG1 VAL A 36	-31.812	0.679	18.562	1.00	97.06	C
ATOM	212	CG2 VAL A 36	-29.578	-0.034	17.641	1.00	97.06	C
ATOM	213	N THR A 37	-31.906	4.035	18.094	1.00	95.75	N
ATOM	214	CA THR A 37	-32.688	5.035	18.797	1.00	95.75	C
ATOM	215	C THR A 37	-34.156	4.613	18.844	1.00	95.75	C
ATOM	216	CB THR A 37	-32.594	6.418	18.125	1.00	95.75	C
ATOM	217	O THR A 37	-34.750	4.270	17.828	1.00	95.75	O
ATOM	218	CG2 THR A 37	-33.375	7.469	18.906	1.00	95.75	C
ATOM	219	OG1 THR A 37	-31.203	6.801	18.078	1.00	95.75	O
ATOM	220	N VAL A 38	-34.719	4.613	20.094	1.00	93.31	N
ATOM	221	CA VAL A 38	-36.125	4.297	20.281	1.00	93.31	C
ATOM	222	C VAL A 38	-36.875	5.512	20.844	1.00	93.31	C
ATOM	223	CB VAL A 38	-36.312	3.080	21.219	1.00	93.31	C
ATOM	224	O VAL A 38	-36.469	6.070	21.859	1.00	93.31	O
ATOM	225	CG1 VAL A 38	-37.812	2.773	21.406	1.00	93.31	C
ATOM	226	CG2 VAL A 38	-35.594	1.860	20.656	1.00	93.31	C
ATOM	227	N THR A 39	-37.906	5.941	20.094	1.00	92.25	N
ATOM	228	CA THR A 39	-38.750	7.031	20.562	1.00	92.25	C
ATOM	229	C THR A 39	-40.156	6.512	20.922	1.00	92.25	C

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ATOM	230	CB	THR	A	39	-38.875	8.148	19.516	1.00	92.25	C
ATOM	231	O	THR	A	39	-40.875	5.996	20.062	1.00	92.25	O
ATOM	232	CG2	THR	A	39	-39.688	9.320	20.031	1.00	92.25	C
ATOM	233	OG1	THR	A	39	-37.562	8.609	19.172	1.00	92.25	O
ATOM	234	N	ASP	A	40	-40.469	6.684	22.250	1.00	87.38	N
ATOM	235	CA	ASP	A	40	-41.781	6.266	22.734	1.00	87.38	C
ATOM	236	C	ASP	A	40	-42.656	7.477	23.016	1.00	87.38	C
ATOM	237	CB	ASP	A	40	-41.625	5.402	23.984	1.00	87.38	C
ATOM	238	O	ASP	A	40	-42.250	8.414	23.688	1.00	87.38	O
ATOM	239	CG	ASP	A	40	-40.969	4.062	23.719	1.00	87.38	C
ATOM	240	OD1	ASP	A	40	-41.438	3.334	22.797	1.00	87.38	O
ATOM	241	OD2	ASP	A	40	-40.000	3.730	24.422	1.00	87.38	O
ATOM	242	N	THR	A	41	-43.875	7.441	22.469	1.00	83.44	N
ATOM	243	CA	THR	A	41	-44.844	8.438	22.875	1.00	83.44	C
ATOM	244	C	THR	A	41	-45.938	7.816	23.781	1.00	83.44	C
ATOM	245	CB	THR	A	41	-45.531	9.102	21.672	1.00	83.44	C
ATOM	246	O	THR	A	41	-46.625	6.902	23.359	1.00	83.44	O
ATOM	247	CG2	THR	A	41	-46.406	10.266	22.094	1.00	83.44	C
ATOM	248	OG1	THR	A	41	-44.500	9.594	20.781	1.00	83.44	O
ATOM	249	N	ALA	A	42	-45.844	8.242	25.047	1.00	82.38	N
ATOM	250	CA	ALA	A	42	-46.875	7.734	25.969	1.00	82.38	C
ATOM	251	C	ALA	A	42	-48.250	8.234	25.594	1.00	82.38	C
ATOM	252	CB	ALA	A	42	-46.531	8.148	27.406	1.00	82.38	C
ATOM	253	O	ALA	A	42	-48.406	9.117	24.750	1.00	82.38	O
ATOM	254	N	ALA	A	43	-49.406	7.617	26.172	1.00	81.50	N
ATOM	255	CA	ALA	A	43	-50.812	7.992	25.922	1.00	81.50	C
ATOM	256	C	ALA	A	43	-51.062	9.445	26.312	1.00	81.50	C
ATOM	257	CB	ALA	A	43	-51.750	7.070	26.688	1.00	81.50	C
ATOM	258	O	ALA	A	43	-51.906	10.125	25.703	1.00	81.50	O
ATOM	259	N	ASP	A	44	-50.250	9.891	27.359	1.00	85.50	N
ATOM	260	CA	ASP	A	44	-50.438	11.258	27.844	1.00	85.50	C
ATOM	261	C	ASP	A	44	-49.688	12.250	26.953	1.00	85.50	C
ATOM	262	CB	ASP	A	44	-49.969	11.383	29.297	1.00	85.50	C
ATOM	263	O	ASP	A	44	-49.688	13.453	27.219	1.00	85.50	O
ATOM	264	CG	ASP	A	44	-48.469	11.133	29.469	1.00	85.50	C
ATOM	265	OD1	ASP	A	44	-47.781	10.906	28.453	1.00	85.50	O
ATOM	266	OD2	ASP	A	44	-48.000	11.156	30.625	1.00	85.50	O
ATOM	267	N	GLY	A	45	-48.969	11.781	25.875	1.00	83.94	N
ATOM	268	CA	GLY	A	45	-48.281	12.617	24.938	1.00	83.94	C
ATOM	269	C	GLY	A	45	-46.812	12.789	25.281	1.00	83.94	C
ATOM	270	O	GLY	A	45	-46.062	13.438	24.531	1.00	83.94	O
ATOM	271	N	THR	A	46	-46.312	12.227	26.406	1.00	86.94	N
ATOM	272	CA	THR	A	46	-44.906	12.312	26.781	1.00	86.94	C
ATOM	273	C	THR	A	46	-44.031	11.461	25.859	1.00	86.94	C
ATOM	274	CB	THR	A	46	-44.688	11.867	28.250	1.00	86.94	C
ATOM	275	O	THR	A	46	-44.375	10.320	25.547	1.00	86.94	O
ATOM	276	CG2	THR	A	46	-45.188	12.922	29.219	1.00	86.94	C
ATOM	277	OG1	THR	A	46	-45.406	10.648	28.469	1.00	86.94	O
ATOM	278	N	VAL	A	47	-43.000	12.031	25.375	1.00	89.94	N
ATOM	279	CA	VAL	A	47	-42.062	11.383	24.453	1.00	89.94	C
ATOM	280	C	VAL	A	47	-40.781	11.031	25.188	1.00	89.94	C
ATOM	281	CB	VAL	A	47	-41.781	12.273	23.234	1.00	89.94	C
ATOM	282	O	VAL	A	47	-40.188	11.891	25.844	1.00	89.94	O

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ATOM	283	CG1 VAL A 47	-40.781	11.594	22.297	1.00	89.94	C
ATOM	284	CG2 VAL A 47	-43.062	12.617	22.484	1.00	89.94	C
ATOM	285	N THR A 48	-40.375	9.773	25.156	1.00	92.69	N
ATOM	286	CA THR A 48	-39.094	9.352	25.688	1.00	92.69	C
ATOM	287	C THR A 48	-38.219	8.742	24.578	1.00	92.69	C
ATOM	288	CB THR A 48	-39.281	8.328	26.828	1.00	92.69	C
ATOM	289	O THR A 48	-38.688	7.898	23.812	1.00	92.69	O
ATOM	290	CG2 THR A 48	-37.938	8.055	27.531	1.00	92.69	C
ATOM	291	OG1 THR A 48	-40.219	8.844	27.781	1.00	92.69	O
ATOM	292	N THR A 49	-36.969	9.195	24.516	1.00	95.44	N
ATOM	293	CA THR A 49	-36.000	8.695	23.547	1.00	95.44	C
ATOM	294	C THR A 49	-34.844	8.000	24.234	1.00	95.44	C
ATOM	295	CB THR A 49	-35.469	9.836	22.656	1.00	95.44	C
ATOM	296	O THR A 49	-34.250	8.547	25.172	1.00	95.44	O
ATOM	297	CG2 THR A 49	-34.500	9.305	21.594	1.00	95.44	C
ATOM	298	OG1 THR A 49	-36.562	10.484	22.000	1.00	95.44	O
ATOM	299	N THR A 50	-34.625	6.770	23.859	1.00	94.94	N
ATOM	300	CA THR A 50	-33.469	6.035	24.359	1.00	94.94	C
ATOM	301	C THR A 50	-32.531	5.668	23.219	1.00	94.94	C
ATOM	302	CB THR A 50	-33.906	4.762	25.109	1.00	94.94	C
ATOM	303	O THR A 50	-32.969	5.238	22.156	1.00	94.94	O
ATOM	304	CG2 THR A 50	-32.750	4.164	25.891	1.00	94.94	C
ATOM	305	OG1 THR A 50	-34.969	5.082	26.016	1.00	94.94	O
ATOM	306	N THR A 51	-31.266	5.859	23.484	1.00	97.00	N
ATOM	307	CA THR A 51	-30.281	5.625	22.438	1.00	97.00	C
ATOM	308	C THR A 51	-29.203	4.664	22.922	1.00	97.00	C
ATOM	309	CB THR A 51	-29.625	6.941	21.984	1.00	97.00	C
ATOM	310	O THR A 51	-28.719	4.770	24.062	1.00	97.00	O
ATOM	311	CG2 THR A 51	-28.609	6.695	20.875	1.00	97.00	C
ATOM	312	OG1 THR A 51	-30.641	7.828	21.500	1.00	97.00	O
ATOM	313	N GLY A 52	-28.922	3.744	22.109	1.00	96.81	N
ATOM	314	CA GLY A 52	-27.781	2.863	22.297	1.00	96.81	C
ATOM	315	C GLY A 52	-26.750	2.980	21.188	1.00	96.81	C
ATOM	316	O GLY A 52	-27.125	3.186	20.016	1.00	96.81	O
ATOM	317	N THR A 53	-25.453	2.879	21.594	1.00	97.88	N
ATOM	318	CA THR A 53	-24.406	2.971	20.594	1.00	97.88	C
ATOM	319	C THR A 53	-23.391	1.841	20.750	1.00	97.88	C
ATOM	320	CB THR A 53	-23.688	4.328	20.656	1.00	97.88	C
ATOM	321	O THR A 53	-23.234	1.291	21.844	1.00	97.88	O
ATOM	322	CG2 THR A 53	-24.641	5.480	20.406	1.00	97.88	C
ATOM	323	OG1 THR A 53	-23.094	4.484	21.953	1.00	97.88	O
ATOM	324	N GLY A 54	-22.812	1.473	19.641	1.00	98.12	N
ATOM	325	CA GLY A 54	-21.734	0.502	19.594	1.00	98.12	C
ATOM	326	C GLY A 54	-20.641	0.857	18.594	1.00	98.12	C
ATOM	327	O GLY A 54	-20.938	1.432	17.547	1.00	98.12	O
ATOM	328	N THR A 55	-19.391	0.617	19.016	1.00	98.19	N
ATOM	329	CA THR A 55	-18.281	0.866	18.109	1.00	98.19	C
ATOM	330	C THR A 55	-17.375	-0.354	18.016	1.00	98.19	C
ATOM	331	CB THR A 55	-17.469	2.094	18.547	1.00	98.19	C
ATOM	332	O THR A 55	-17.266	-1.129	18.969	1.00	98.19	O
ATOM	333	CG2 THR A 55	-18.328	3.355	18.547	1.00	98.19	C
ATOM	334	OG1 THR A 55	-16.953	1.871	19.859	1.00	98.19	O
ATOM	335	N GLY A 56	-16.844	-0.561	16.844	1.00	98.38	N

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ATOM	336	CA	GLY A 56	-15.836	-1.581	16.594	1.00	98.38	C
ATOM	337	C	GLY A 56	-14.773	-1.138	15.602	1.00	98.38	C
ATOM	338	O	GLY A 56	-15.047	-0.322	14.711	1.00	98.38	O
ATOM	339	N	SER A 57	-13.500	-1.569	15.836	1.00	98.31	N
ATOM	340	CA	SER A 57	-12.430	-1.218	14.914	1.00	98.31	C
ATOM	341	C	SER A 57	-11.477	-2.391	14.703	1.00	98.31	C
ATOM	342	CB	SER A 57	-11.648	-0.009	15.438	1.00	98.31	C
ATOM	343	O	SER A 57	-11.453	-3.332	15.500	1.00	98.31	O
ATOM	344	OG	SER A 57	-11.000	-0.316	16.656	1.00	98.31	O
ATOM	345	N	GLY A 58	-10.867	-2.357	13.555	1.00	98.38	N
ATOM	346	CA	GLY A 58	-9.828	-3.311	13.203	1.00	98.38	C
ATOM	347	C	GLY A 58	-8.727	-2.705	12.352	1.00	98.38	C
ATOM	348	O	GLY A 58	-8.953	-1.709	11.656	1.00	98.38	O
ATOM	349	N	THR A 59	-7.480	-3.252	12.586	1.00	98.50	N
ATOM	350	CA	THR A 59	-6.355	-2.814	11.766	1.00	98.50	C
ATOM	351	C	THR A 59	-5.555	-4.012	11.266	1.00	98.50	C
ATOM	352	CB	THR A 59	-5.430	-1.866	12.555	1.00	98.50	C
ATOM	353	O	THR A 59	-5.449	-5.027	11.961	1.00	98.50	O
ATOM	354	CG2	THR A 59	-5.855	-0.412	12.375	1.00	98.50	C
ATOM	355	OG1	THR A 59	-5.484	-2.199	13.945	1.00	98.50	O
ATOM	356	N	ALA A 60	-5.113	-3.947	9.984	1.00	98.38	N
ATOM	357	CA	ALA A 60	-4.199	-4.930	9.406	1.00	98.38	C
ATOM	358	C	ALA A 60	-3.092	-4.246	8.617	1.00	98.38	C
ATOM	359	CB	ALA A 60	-4.965	-5.902	8.516	1.00	98.38	C
ATOM	360	O	ALA A 60	-3.346	-3.295	7.871	1.00	98.38	O
ATOM	361	N	SER A 61	-1.855	-4.656	8.859	1.00	98.44	N
ATOM	362	CA	SER A 61	-0.729	-4.094	8.125	1.00	98.44	C
ATOM	363	C	SER A 61	0.210	-5.188	7.625	1.00	98.44	C
ATOM	364	CB	SER A 61	0.043	-3.105	8.992	1.00	98.44	C
ATOM	365	O	SER A 61	0.281	-6.266	8.211	1.00	98.44	O
ATOM	366	OG	SER A 61	0.535	-3.744	10.164	1.00	98.44	O
ATOM	367	N	ALA A 62	0.796	-5.012	6.508	1.00	98.12	N
ATOM	368	CA	ALA A 62	1.778	-5.922	5.926	1.00	98.12	C
ATOM	369	C	ALA A 62	2.799	-5.160	5.082	1.00	98.12	C
ATOM	370	CB	ALA A 62	1.083	-6.984	5.082	1.00	98.12	C
ATOM	371	O	ALA A 62	2.516	-4.062	4.598	1.00	98.12	O
ATOM	372	N	SER A 63	3.955	-5.719	5.039	1.00	98.25	N
ATOM	373	CA	SER A 63	5.016	-5.105	4.250	1.00	98.25	C
ATOM	374	C	SER A 63	5.863	-6.164	3.547	1.00	98.25	C
ATOM	375	CB	SER A 63	5.906	-4.234	5.133	1.00	98.25	C
ATOM	376	O	SER A 63	6.059	-7.262	4.074	1.00	98.25	O
ATOM	377	OG	SER A 63	6.695	-5.035	6.000	1.00	98.25	O
ATOM	378	N	GLU A 64	6.277	-5.824	2.281	1.00	98.06	N
ATOM	379	CA	GLU A 64	7.160	-6.672	1.486	1.00	98.06	C
ATOM	380	C	GLU A 64	8.273	-5.855	0.842	1.00	98.06	C
ATOM	381	CB	GLU A 64	6.363	-7.414	0.411	1.00	98.06	C
ATOM	382	O	GLU A 64	8.094	-4.668	0.553	1.00	98.06	O
ATOM	383	CG	GLU A 64	5.367	-8.422	0.969	1.00	98.06	C
ATOM	384	CD	GLU A 64	6.031	-9.641	1.599	1.00	98.06	C
ATOM	385	OE1	GLU A 64	5.355	-10.383	2.338	1.00	98.06	O
ATOM	386	OE2	GLU A 64	7.242	-9.844	1.351	1.00	98.06	O
ATOM	387	N	GLU A 65	9.352	-6.527	0.701	1.00	97.56	N
ATOM	388	CA	GLU A 65	10.484	-5.848	0.074	1.00	97.56	C

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ATOM	389	C	GLU A 65	11.289	-6.809	-0.797	1.00	97.56	C
ATOM	390	CB	GLU A 65	11.391	-5.215	1.135	1.00	97.56	C
ATOM	391	O	GLU A 65	11.352	-8.008	-0.516	1.00	97.56	O
ATOM	392	CG	GLU A 65	12.547	-4.422	0.558	1.00	97.56	C
ATOM	393	CD	GLU A 65	13.445	-3.814	1.624	1.00	97.56	C
ATOM	394	OE1	GLU A 65	14.406	-3.092	1.270	1.00	97.56	O
ATOM	395	OE2	GLU A 65	13.188	-4.062	2.822	1.00	97.56	O
ATOM	396	N	ALA A 66	11.898	-6.258	-1.854	1.00	97.00	N
ATOM	397	CA	ALA A 66	12.750	-7.043	-2.744	1.00	97.00	C
ATOM	398	C	ALA A 66	13.883	-6.191	-3.316	1.00	97.00	C
ATOM	399	CB	ALA A 66	11.922	-7.652	-3.873	1.00	97.00	C
ATOM	400	O	ALA A 66	13.750	-4.969	-3.422	1.00	97.00	O
ATOM	401	N	GLU A 67	14.945	-6.891	-3.527	1.00	97.00	N
ATOM	402	CA	GLU A 67	16.109	-6.230	-4.121	1.00	97.00	C
ATOM	403	C	GLU A 67	16.750	-7.105	-5.191	1.00	97.00	C
ATOM	404	CB	GLU A 67	17.125	-5.867	-3.045	1.00	97.00	C
ATOM	405	O	GLU A 67	16.688	-8.336	-5.117	1.00	97.00	O
ATOM	406	CG	GLU A 67	17.766	-7.074	-2.369	1.00	97.00	C
ATOM	407	CD	GLU A 67	18.781	-6.703	-1.307	1.00	97.00	C
ATOM	408	OE1	GLU A 67	19.281	-7.605	-0.599	1.00	97.00	O
ATOM	409	OE2	GLU A 67	19.094	-5.496	-1.181	1.00	97.00	O
ATOM	410	N	LYS A 68	17.266	-6.441	-6.207	1.00	97.25	N
ATOM	411	CA	LYS A 68	17.984	-7.121	-7.285	1.00	97.25	C
ATOM	412	C	LYS A 68	19.234	-6.348	-7.684	1.00	97.25	C
ATOM	413	CB	LYS A 68	17.078	-7.309	-8.500	1.00	97.25	C
ATOM	414	O	LYS A 68	19.203	-5.121	-7.789	1.00	97.25	O
ATOM	415	CG	LYS A 68	17.672	-8.188	-9.586	1.00	97.25	C
ATOM	416	CD	LYS A 68	16.672	-8.438	-10.711	1.00	97.25	C
ATOM	417	CE	LYS A 68	17.266	-9.336	-11.789	1.00	97.25	C
ATOM	418	NZ	LYS A 68	16.281	-9.594	-12.891	1.00	97.25	N
ATOM	419	N	GLU A 69	20.266	-7.160	-7.828	1.00	96.75	N
ATOM	420	CA	GLU A 69	21.547	-6.566	-8.227	1.00	96.75	C
ATOM	421	C	GLU A 69	22.078	-7.207	-9.500	1.00	96.75	C
ATOM	422	CB	GLU A 69	22.562	-6.695	-7.098	1.00	96.75	C
ATOM	423	O	GLU A 69	22.016	-8.430	-9.664	1.00	96.75	O
ATOM	424	CG	GLU A 69	23.891	-5.988	-7.379	1.00	96.75	C
ATOM	425	CD	GLU A 69	24.891	-6.102	-6.238	1.00	96.75	C
ATOM	426	OE1	GLU A 69	26.016	-5.582	-6.363	1.00	96.75	O
ATOM	427	OE2	GLU A 69	24.531	-6.723	-5.207	1.00	96.75	O
ATOM	428	N	GLU A 70	22.609	-6.352	-10.391	1.00	96.69	N
ATOM	429	CA	GLU A 70	23.219	-6.805	-11.641	1.00	96.69	C
ATOM	430	C	GLU A 70	24.547	-6.105	-11.898	1.00	96.69	C
ATOM	431	CB	GLU A 70	22.266	-6.574	-12.812	1.00	96.69	C
ATOM	432	O	GLU A 70	24.703	-4.918	-11.602	1.00	96.69	O
ATOM	433	CG	GLU A 70	20.969	-7.391	-12.734	1.00	96.69	C
ATOM	434	CD	GLU A 70	20.031	-7.152	-13.906	1.00	96.69	C
ATOM	435	OE1	GLU A 70	19.047	-7.906	-14.055	1.00	96.69	O
ATOM	436	OE2	GLU A 70	20.297	-6.207	-14.688	1.00	96.69	O
ATOM	437	N	THR A 71	25.516	-6.926	-12.352	1.00	96.44	N
ATOM	438	CA	THR A 71	26.828	-6.387	-12.688	1.00	96.44	C
ATOM	439	C	THR A 71	27.188	-6.699	-14.133	1.00	96.44	C
ATOM	440	CB	THR A 71	27.922	-6.953	-11.750	1.00	96.44	C
ATOM	441	O	THR A 71	26.984	-7.820	-14.609	1.00	96.44	O

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ATOM	442	CG2 THR A 71	29.281	-6.383	-12.102	1.00	96.44	C
ATOM	443	OG1 THR A 71	27.594	-6.613	-10.398	1.00	96.44	O
ATOM	444	N GLU A 72	27.641	-5.676	-14.805	1.00	96.56	N
ATOM	445	CA GLU A 72	28.125	-5.820	-16.188	1.00	96.56	C
ATOM	446	C GLU A 72	29.531	-5.273	-16.344	1.00	96.56	C
ATOM	447	CB GLU A 72	27.172	-5.109	-17.156	1.00	96.56	C
ATOM	448	O GLU A 72	29.859	-4.199	-15.820	1.00	96.56	O
ATOM	449	CG GLU A 72	27.453	-5.406	-18.609	1.00	96.56	C
ATOM	450	CD GLU A 72	26.438	-4.785	-19.562	1.00	96.56	C
ATOM	451	OE1 GLU A 72	26.703	-4.734	-20.781	1.00	96.56	O
ATOM	452	OE2 GLU A 72	25.375	-4.348	-19.078	1.00	96.56	O
ATOM	453	N LYS A 73	30.312	-6.102	-17.000	1.00	96.94	N
ATOM	454	CA LYS A 73	31.719	-5.719	-17.203	1.00	96.94	C
ATOM	455	C LYS A 73	32.031	-5.566	-18.688	1.00	96.94	C
ATOM	456	CB LYS A 73	32.656	-6.742	-16.562	1.00	96.94	C
ATOM	457	O LYS A 73	31.547	-6.352	-19.516	1.00	96.94	O
ATOM	458	CG LYS A 73	32.562	-6.828	-15.055	1.00	96.94	C
ATOM	459	CD LYS A 73	33.531	-7.836	-14.477	1.00	96.94	C
ATOM	460	CE LYS A 73	33.406	-7.949	-12.961	1.00	96.94	C
ATOM	461	NZ LYS A 73	34.375	-8.938	-12.398	1.00	96.94	N
ATOM	462	N LYS A 74	32.719	-4.488	-19.000	1.00	95.25	N
ATOM	463	CA LYS A 74	33.219	-4.266	-20.359	1.00	95.25	C
ATOM	464	C LYS A 74	34.688	-3.881	-20.344	1.00	95.25	C
ATOM	465	CB LYS A 74	32.375	-3.176	-21.062	1.00	95.25	C
ATOM	466	O LYS A 74	35.125	-3.156	-19.469	1.00	95.25	O
ATOM	467	CG LYS A 74	32.625	-3.082	-22.562	1.00	95.25	C
ATOM	468	CD LYS A 74	31.672	-2.096	-23.219	1.00	95.25	C
ATOM	469	CE LYS A 74	31.953	-1.968	-24.703	1.00	95.25	C
ATOM	470	NZ LYS A 74	31.016	-1.005	-25.359	1.00	95.25	N
ATOM	471	N GLU A 75	35.438	-4.555	-21.281	1.00	94.69	N
ATOM	472	CA GLU A 75	36.844	-4.258	-21.391	1.00	94.69	C
ATOM	473	C GLU A 75	37.219	-3.818	-22.812	1.00	94.69	C
ATOM	474	CB GLU A 75	37.688	-5.473	-20.984	1.00	94.69	C
ATOM	475	O GLU A 75	36.719	-4.375	-23.781	1.00	94.69	O
ATOM	476	CG GLU A 75	39.188	-5.203	-20.953	1.00	94.69	C
ATOM	477	CD GLU A 75	40.000	-6.414	-20.531	1.00	94.69	C
ATOM	478	OE1 GLU A 75	41.250	-6.324	-20.516	1.00	94.69	O
ATOM	479	OE2 GLU A 75	39.406	-7.457	-20.219	1.00	94.69	O
ATOM	480	N GLU A 76	38.031	-2.812	-22.844	1.00	94.25	N
ATOM	481	CA GLU A 76	38.531	-2.299	-24.125	1.00	94.25	C
ATOM	482	C GLU A 76	40.031	-2.004	-24.062	1.00	94.25	C
ATOM	483	CB GLU A 76	37.750	-1.039	-24.531	1.00	94.25	C
ATOM	484	O GLU A 76	40.531	-1.468	-23.078	1.00	94.25	O
ATOM	485	CG GLU A 76	38.062	-0.550	-25.938	1.00	94.25	C
ATOM	486	CD GLU A 76	37.281	0.681	-26.328	1.00	94.25	C
ATOM	487	OE1 GLU A 76	37.594	1.288	-27.391	1.00	94.25	O
ATOM	488	OE2 GLU A 76	36.344	1.043	-25.594	1.00	94.25	O
ATOM	489	N GLU A 77	40.719	-2.453	-25.141	1.00	94.00	N
ATOM	490	CA GLU A 77	42.156	-2.178	-25.203	1.00	94.00	C
ATOM	491	C GLU A 77	42.531	-1.540	-26.531	1.00	94.00	C
ATOM	492	CB GLU A 77	42.969	-3.463	-24.984	1.00	94.00	C
ATOM	493	O GLU A 77	42.000	-1.905	-27.578	1.00	94.00	O
ATOM	494	CG GLU A 77	42.781	-4.070	-23.594	1.00	94.00	C

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ATOM	495	CD	GLU A 77	43.594	-5.355	-23.406	1.00	94.00	C
ATOM	496	OE1	GLU A 77	43.531	-5.930	-22.297	1.00	94.00	O
ATOM	497	OE2	GLU A 77	44.250	-5.789	-24.375	1.00	94.00	O
ATOM	498	N	ARG A 78	43.438	-0.620	-26.359	1.00	95.38	N
ATOM	499	CA	ARG A 78	43.906	0.036	-27.578	1.00	95.38	C
ATOM	500	C	ARG A 78	45.344	0.486	-27.453	1.00	95.38	C
ATOM	501	CB	ARG A 78	43.000	1.235	-27.922	1.00	95.38	C
ATOM	502	O	ARG A 78	45.812	0.853	-26.359	1.00	95.38	O
ATOM	503	CG	ARG A 78	43.250	1.815	-29.297	1.00	95.38	C
ATOM	504	CD	ARG A 78	42.188	2.832	-29.672	1.00	95.38	C
ATOM	505	NE	ARG A 78	42.344	3.293	-31.047	1.00	95.38	N
ATOM	506	NH1	ARG A 78	40.562	4.762	-30.984	1.00	95.38	N
ATOM	507	NH2	ARG A 78	41.812	4.543	-32.906	1.00	95.38	N
ATOM	508	CZ	ARG A 78	41.562	4.199	-31.641	1.00	95.38	C
ATOM	509	N	GLU A 79	46.156	0.445	-28.594	1.00	93.25	N
ATOM	510	CA	GLU A 79	47.562	0.843	-28.594	1.00	93.25	C
ATOM	511	C	GLU A 79	47.750	2.189	-29.281	1.00	93.25	C
ATOM	512	CB	GLU A 79	48.438	-0.224	-29.266	1.00	93.25	C
ATOM	513	O	GLU A 79	47.094	2.490	-30.266	1.00	93.25	O
ATOM	514	CG	GLU A 79	48.438	-1.557	-28.531	1.00	93.25	C
ATOM	515	CD	GLU A 79	49.312	-2.604	-29.203	1.00	93.25	C
ATOM	516	OE1	GLU A 79	49.438	-3.729	-28.656	1.00	93.25	O
ATOM	517	OE2	GLU A 79	49.875	-2.297	-30.266	1.00	93.25	O
ATOM	518	N	PHE A 80	48.719	2.979	-28.719	1.00	93.31	N
ATOM	519	CA	PHE A 80	49.031	4.297	-29.266	1.00	93.31	C
ATOM	520	C	PHE A 80	50.531	4.480	-29.453	1.00	93.31	C
ATOM	521	CB	PHE A 80	48.469	5.395	-28.344	1.00	93.31	C
ATOM	522	O	PHE A 80	51.312	3.857	-28.734	1.00	93.31	O
ATOM	523	CG	PHE A 80	46.969	5.363	-28.203	1.00	93.31	C
ATOM	524	CD1	PHE A 80	46.156	6.141	-29.031	1.00	93.31	C
ATOM	525	CD2	PHE A 80	46.375	4.559	-27.250	1.00	93.31	C
ATOM	526	CE1	PHE A 80	44.781	6.117	-28.906	1.00	93.31	C
ATOM	527	CE2	PHE A 80	44.969	4.527	-27.125	1.00	93.31	C
ATOM	528	CZ	PHE A 80	44.188	5.309	-27.938	1.00	93.31	C
ATOM	529	N	GLU A 81	50.781	5.398	-30.391	1.00	90.62	N
ATOM	530	CA	GLU A 81	52.188	5.648	-30.672	1.00	90.62	C
ATOM	531	C	GLU A 81	52.812	6.578	-29.625	1.00	90.62	C
ATOM	532	CB	GLU A 81	52.375	6.246	-32.062	1.00	90.62	C
ATOM	533	O	GLU A 81	53.969	6.422	-29.266	1.00	90.62	O
ATOM	534	CG	GLU A 81	52.062	5.266	-33.188	1.00	90.62	C
ATOM	535	CD	GLU A 81	52.281	5.855	-34.594	1.00	90.62	C
ATOM	536	OE1	GLU A 81	52.094	5.137	-35.594	1.00	90.62	O
ATOM	537	OE2	GLU A 81	52.656	7.051	-34.656	1.00	90.62	O
ATOM	538	N	THR A 82	51.906	7.508	-29.156	1.00	91.06	N
ATOM	539	CA	THR A 82	52.406	8.492	-28.203	1.00	91.06	C
ATOM	540	C	THR A 82	51.531	8.539	-26.969	1.00	91.06	C
ATOM	541	CB	THR A 82	52.500	9.891	-28.828	1.00	91.06	C
ATOM	542	O	THR A 82	50.344	8.188	-27.031	1.00	91.06	O
ATOM	543	CG2	THR A 82	53.312	9.859	-30.125	1.00	91.06	C
ATOM	544	OG1	THR A 82	51.188	10.359	-29.125	1.00	91.06	O
ATOM	545	N	GLU A 83	52.031	8.977	-25.906	1.00	87.50	N
ATOM	546	CA	GLU A 83	51.344	9.148	-24.641	1.00	87.50	C
ATOM	547	C	GLU A 83	50.250	10.219	-24.766	1.00	87.50	C

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ATOM	548	CB	GLU A 83	52.312	9.508	-23.531	1.00	87.50	C
ATOM	549	O	GLU A 83	49.156	10.078	-24.188	1.00	87.50	O
ATOM	550	CG	GLU A 83	51.688	9.555	-22.141	1.00	87.50	C
ATOM	551	CD	GLU A 83	52.688	9.828	-21.031	1.00	87.50	C
ATOM	552	OE1	GLU A 83	52.281	9.992	-19.875	1.00	87.50	O
ATOM	553	OE2	GLU A 83	53.906	9.875	-21.344	1.00	87.50	O
ATOM	554	N	GLU A 84	50.500	11.250	-25.484	1.00	91.00	N
ATOM	555	CA	GLU A 84	49.562	12.344	-25.688	1.00	91.00	C
ATOM	556	C	GLU A 84	48.281	11.852	-26.375	1.00	91.00	C
ATOM	557	CB	GLU A 84	50.219	13.469	-26.516	1.00	91.00	C
ATOM	558	O	GLU A 84	47.188	12.211	-25.969	1.00	91.00	O
ATOM	559	CG	GLU A 84	49.375	14.742	-26.562	1.00	91.00	C
ATOM	560	CD	GLU A 84	50.062	15.859	-27.344	1.00	91.00	C
ATOM	561	OE1	GLU A 84	49.438	16.938	-27.516	1.00	91.00	O
ATOM	562	OE2	GLU A 84	51.219	15.664	-27.781	1.00	91.00	O
ATOM	563	N	GLU A 85	48.562	11.031	-27.406	1.00	93.00	N
ATOM	564	CA	GLU A 85	47.406	10.445	-28.125	1.00	93.00	C
ATOM	565	C	GLU A 85	46.594	9.531	-27.219	1.00	93.00	C
ATOM	566	CB	GLU A 85	47.906	9.672	-29.344	1.00	93.00	C
ATOM	567	O	GLU A 85	45.375	9.539	-27.266	1.00	93.00	O
ATOM	568	CG	GLU A 85	48.438	10.555	-30.469	1.00	93.00	C
ATOM	569	CD	GLU A 85	48.938	9.773	-31.672	1.00	93.00	C
ATOM	570	OE1	GLU A 85	49.031	10.352	-32.781	1.00	93.00	O
ATOM	571	OE2	GLU A 85	49.219	8.562	-31.500	1.00	93.00	O
ATOM	572	N	ALA A 86	47.281	8.797	-26.359	1.00	92.38	N
ATOM	573	CA	ALA A 86	46.625	7.859	-25.453	1.00	92.38	C
ATOM	574	C	ALA A 86	45.812	8.602	-24.406	1.00	92.38	C
ATOM	575	CB	ALA A 86	47.688	6.973	-24.766	1.00	92.38	C
ATOM	576	O	ALA A 86	44.656	8.219	-24.125	1.00	92.38	O
ATOM	577	N	GLU A 87	46.250	9.695	-23.844	1.00	90.62	N
ATOM	578	CA	GLU A 87	45.562	10.477	-22.812	1.00	90.62	C
ATOM	579	C	GLU A 87	44.312	11.148	-23.359	1.00	90.62	C
ATOM	580	CB	GLU A 87	46.531	11.523	-22.219	1.00	90.62	C
ATOM	581	O	GLU A 87	43.281	11.195	-22.672	1.00	90.62	O
ATOM	582	CG	GLU A 87	47.594	10.945	-21.312	1.00	90.62	C
ATOM	583	CD	GLU A 87	47.094	10.562	-19.938	1.00	90.62	C
ATOM	584	OE1	GLU A 87	47.875	10.000	-19.141	1.00	90.62	O
ATOM	585	OE2	GLU A 87	45.906	10.820	-19.656	1.00	90.62	O
ATOM	586	N	LYS A 88	44.531	11.695	-24.562	1.00	94.44	N
ATOM	587	CA	LYS A 88	43.344	12.312	-25.188	1.00	94.44	C
ATOM	588	C	LYS A 88	42.250	11.281	-25.422	1.00	94.44	C
ATOM	589	CB	LYS A 88	43.750	12.961	-26.516	1.00	94.44	C
ATOM	590	O	LYS A 88	41.062	11.562	-25.188	1.00	94.44	O
ATOM	591	CG	LYS A 88	42.656	13.805	-27.141	1.00	94.44	C
ATOM	592	CD	LYS A 88	43.125	14.484	-28.422	1.00	94.44	C
ATOM	593	CE	LYS A 88	42.000	15.289	-29.078	1.00	94.44	C
ATOM	594	NZ	LYS A 88	42.438	15.938	-30.344	1.00	94.44	N
ATOM	595	N	TYR A 89	42.656	10.141	-25.828	1.00	92.25	N
ATOM	596	CA	TYR A 89	41.719	9.047	-26.047	1.00	92.25	C
ATOM	597	C	TYR A 89	41.000	8.656	-24.750	1.00	92.25	C
ATOM	598	CB	TYR A 89	42.438	7.832	-26.641	1.00	92.25	C
ATOM	599	O	TYR A 89	39.781	8.508	-24.734	1.00	92.25	O
ATOM	600	CG	TYR A 89	41.594	6.586	-26.688	1.00	92.25	C

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ATOM	601	CD1 TYR A 89	41.781	5.555	-25.766	1.00	92.25	C
ATOM	602	CD2 TYR A 89	40.594	6.441	-27.641	1.00	92.25	C
ATOM	603	CE1 TYR A 89	41.000	4.402	-25.812	1.00	92.25	C
ATOM	604	CE2 TYR A 89	39.812	5.293	-27.703	1.00	92.25	C
ATOM	605	OH TYR A 89	39.250	3.145	-26.828	1.00	92.25	O
ATOM	606	CZ TYR A 89	40.000	4.281	-26.781	1.00	92.25	C
ATOM	607	N VAL A 90	41.719	8.508	-23.656	1.00	93.50	N
ATOM	608	CA VAL A 90	41.188	8.078	-22.375	1.00	93.50	C
ATOM	609	C VAL A 90	40.156	9.102	-21.891	1.00	93.50	C
ATOM	610	CB VAL A 90	42.281	7.902	-21.312	1.00	93.50	C
ATOM	611	O VAL A 90	39.031	8.727	-21.500	1.00	93.50	O
ATOM	612	CG1 VAL A 90	41.688	7.777	-19.922	1.00	93.50	C
ATOM	613	CG2 VAL A 90	43.156	6.684	-21.641	1.00	93.50	C
ATOM	614	N GLU A 91	40.438	10.367	-21.953	1.00	92.56	N
ATOM	615	CA GLU A 91	39.562	11.438	-21.500	1.00	92.56	C
ATOM	616	C GLU A 91	38.250	11.461	-22.281	1.00	92.56	C
ATOM	617	CB GLU A 91	40.250	12.797	-21.609	1.00	92.56	C
ATOM	618	O GLU A 91	37.188	11.562	-21.688	1.00	92.56	O
ATOM	619	CG GLU A 91	41.312	13.031	-20.531	1.00	92.56	C
ATOM	620	CD GLU A 91	42.000	14.383	-20.672	1.00	92.56	C
ATOM	621	OE1 GLU A 91	42.938	14.672	-19.859	1.00	92.56	O
ATOM	622	OE2 GLU A 91	41.656	15.148	-21.578	1.00	92.56	O
ATOM	623	N GLU A 92	38.406	11.336	-23.594	1.00	95.19	N
ATOM	624	CA GLU A 92	37.219	11.367	-24.453	1.00	95.19	C
ATOM	625	C GLU A 92	36.344	10.117	-24.250	1.00	95.19	C
ATOM	626	CB GLU A 92	37.625	11.500	-25.922	1.00	95.19	C
ATOM	627	O GLU A 92	35.125	10.203	-24.219	1.00	95.19	O
ATOM	628	CG GLU A 92	38.156	12.867	-26.281	1.00	95.19	C
ATOM	629	CD GLU A 92	38.375	13.047	-27.781	1.00	95.19	C
ATOM	630	OE1 GLU A 92	38.188	14.180	-28.297	1.00	95.19	O
ATOM	631	OE2 GLU A 92	38.750	12.055	-28.453	1.00	95.19	O
ATOM	632	N LYS A 93	37.062	9.078	-24.016	1.00	93.69	N
ATOM	633	CA LYS A 93	36.344	7.816	-23.891	1.00	93.69	C
ATOM	634	C LYS A 93	35.625	7.719	-22.547	1.00	93.69	C
ATOM	635	CB LYS A 93	37.281	6.629	-24.078	1.00	93.69	C
ATOM	636	O LYS A 93	34.531	7.168	-22.453	1.00	93.69	O
ATOM	637	CG LYS A 93	36.594	5.359	-24.562	1.00	93.69	C
ATOM	638	CD LYS A 93	35.906	5.582	-25.906	1.00	93.69	C
ATOM	639	CE LYS A 93	35.250	4.301	-26.422	1.00	93.69	C
ATOM	640	NZ LYS A 93	34.500	4.535	-27.688	1.00	93.69	N
ATOM	641	N ILE A 94	36.250	8.172	-21.469	1.00	93.19	N
ATOM	642	CA ILE A 94	35.594	8.180	-20.156	1.00	93.19	C
ATOM	643	C ILE A 94	34.312	8.977	-20.219	1.00	93.19	C
ATOM	644	CB ILE A 94	36.531	8.758	-19.078	1.00	93.19	C
ATOM	645	O ILE A 94	33.250	8.523	-19.750	1.00	93.19	O
ATOM	646	CG1 ILE A 94	37.688	7.785	-18.797	1.00	93.19	C
ATOM	647	CG2 ILE A 94	35.750	9.062	-17.797	1.00	93.19	C
ATOM	648	CD1 ILE A 94	38.781	8.359	-17.891	1.00	93.19	C
ATOM	649	N LYS A 95	34.375	10.195	-20.828	1.00	93.69	N
ATOM	650	CA LYS A 95	33.219	11.062	-20.984	1.00	93.69	C
ATOM	651	C LYS A 95	32.094	10.367	-21.766	1.00	93.69	C
ATOM	652	CB LYS A 95	33.594	12.375	-21.656	1.00	93.69	C
ATOM	653	O LYS A 95	30.938	10.406	-21.391	1.00	93.69	O

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ATOM	654	CG	LYS	A	95	32.469	13.422	-21.656	1.00	93.69	C
ATOM	655	CD	LYS	A	95	32.938	14.727	-22.297	1.00	93.69	C
ATOM	656	CE	LYS	A	95	31.828	15.750	-22.359	1.00	93.69	C
ATOM	657	NZ	LYS	A	95	32.281	17.031	-22.984	1.00	93.69	N
ATOM	658	N	GLU	A	96	32.500	9.766	-22.812	1.00	94.19	N
ATOM	659	CA	GLU	A	96	31.562	9.078	-23.688	1.00	94.19	C
ATOM	660	C	GLU	A	96	30.875	7.930	-22.953	1.00	94.19	C
ATOM	661	CB	GLU	A	96	32.250	8.562	-24.938	1.00	94.19	C
ATOM	662	O	GLU	A	96	29.656	7.758	-23.062	1.00	94.19	O
ATOM	663	CG	GLU	A	96	31.328	7.879	-25.922	1.00	94.19	C
ATOM	664	CD	GLU	A	96	32.062	7.242	-27.094	1.00	94.19	C
ATOM	665	OE1	GLU	A	96	31.438	6.469	-27.859	1.00	94.19	O
ATOM	666	OE2	GLU	A	96	33.281	7.520	-27.266	1.00	94.19	O
ATOM	667	N	ILE	A	97	31.641	7.172	-22.219	1.00	93.31	N
ATOM	668	CA	ILE	A	97	31.141	5.996	-21.531	1.00	93.31	C
ATOM	669	C	ILE	A	97	30.141	6.426	-20.453	1.00	93.31	C
ATOM	670	CB	ILE	A	97	32.281	5.184	-20.891	1.00	93.31	C
ATOM	671	O	ILE	A	97	29.047	5.863	-20.359	1.00	93.31	O
ATOM	672	CG1	ILE	A	97	33.094	4.465	-21.969	1.00	93.31	C
ATOM	673	CG2	ILE	A	97	31.734	4.188	-19.859	1.00	93.31	C
ATOM	674	CD1	ILE	A	97	34.406	3.842	-21.469	1.00	93.31	C
ATOM	675	N	ILE	A	98	30.391	7.492	-19.672	1.00	92.56	N
ATOM	676	CA	ILE	A	98	29.547	7.957	-18.578	1.00	92.56	C
ATOM	677	C	ILE	A	98	28.250	8.539	-19.156	1.00	92.56	C
ATOM	678	CB	ILE	A	98	30.266	9.000	-17.703	1.00	92.56	C
ATOM	679	O	ILE	A	98	27.156	8.242	-18.656	1.00	92.56	O
ATOM	680	CG1	ILE	A	98	31.422	8.352	-16.938	1.00	92.56	C
ATOM	681	CG2	ILE	A	98	29.281	9.672	-16.750	1.00	92.56	C
ATOM	682	CD1	ILE	A	98	32.312	9.344	-16.203	1.00	92.56	C
ATOM	683	N	GLU	A	99	28.328	9.328	-20.250	1.00	95.00	N
ATOM	684	CA	GLU	A	99	27.172	9.992	-20.859	1.00	95.00	C
ATOM	685	C	GLU	A	99	26.219	8.984	-21.500	1.00	95.00	C
ATOM	686	CB	GLU	A	99	27.641	11.008	-21.922	1.00	95.00	C
ATOM	687	O	GLU	A	99	25.016	9.227	-21.578	1.00	95.00	O
ATOM	688	CG	GLU	A	99	28.188	12.297	-21.328	1.00	95.00	C
ATOM	689	CD	GLU	A	99	28.609	13.305	-22.391	1.00	95.00	C
ATOM	690	OE1	GLU	A	99	28.969	14.445	-22.031	1.00	95.00	O
ATOM	691	OE2	GLU	A	99	28.609	12.938	-23.578	1.00	95.00	O
ATOM	692	N	LYS	A	100	26.844	7.887	-21.812	1.00	94.81	N
ATOM	693	CA	LYS	A	100	26.031	6.863	-22.453	1.00	94.81	C
ATOM	694	C	LYS	A	100	25.469	5.879	-21.422	1.00	94.81	C
ATOM	695	CB	LYS	A	100	26.844	6.113	-23.516	1.00	94.81	C
ATOM	696	O	LYS	A	100	24.297	5.535	-21.469	1.00	94.81	O
ATOM	697	CG	LYS	A	100	26.031	5.098	-24.312	1.00	94.81	C
ATOM	698	CD	LYS	A	100	26.891	4.383	-25.344	1.00	94.81	C
ATOM	699	CE	LYS	A	100	26.109	3.303	-26.078	1.00	94.81	C
ATOM	700	NZ	LYS	A	100	26.953	2.586	-27.078	1.00	94.81	N
ATOM	701	N	LEU	A	101	26.266	5.418	-20.516	1.00	94.94	N
ATOM	702	CA	LEU	A	101	25.922	4.266	-19.688	1.00	94.94	C
ATOM	703	C	LEU	A	101	25.078	4.691	-18.484	1.00	94.94	C
ATOM	704	CB	LEU	A	101	27.188	3.551	-19.219	1.00	94.94	C
ATOM	705	O	LEU	A	101	24.172	3.965	-18.062	1.00	94.94	O
ATOM	706	CG	LEU	A	101	27.984	2.799	-20.297	1.00	94.94	C

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ATOM	707	CD1 LEU A 101	29.172	2.082	-19.672	1.00	94.94	C
ATOM	708	CD2 LEU A 101	27.078	1.810	-21.031	1.00	94.94	C
ATOM	709	N VAL A 102	25.281	5.949	-17.922	1.00	94.56	N
ATOM	710	CA VAL A 102	24.562	6.363	-16.703	1.00	94.56	C
ATOM	711	C VAL A 102	23.078	6.488	-17.000	1.00	94.56	C
ATOM	712	CB VAL A 102	25.125	7.699	-16.156	1.00	94.56	C
ATOM	713	O VAL A 102	22.250	5.895	-16.297	1.00	94.56	O
ATOM	714	CG1 VAL A 102	24.172	8.281	-15.109	1.00	94.56	C
ATOM	715	CG2 VAL A 102	26.516	7.500	-15.578	1.00	94.56	C
ATOM	716	N PRO A 103	22.641	7.188	-18.078	1.00	95.25	N
ATOM	717	CA PRO A 103	21.203	7.281	-18.344	1.00	95.25	C
ATOM	718	C PRO A 103	20.578	5.934	-18.703	1.00	95.25	C
ATOM	719	CB PRO A 103	21.125	8.242	-19.531	1.00	95.25	C
ATOM	720	O PRO A 103	19.453	5.641	-18.297	1.00	95.25	O
ATOM	721	CG PRO A 103	22.391	9.047	-19.453	1.00	95.25	C
ATOM	722	CD PRO A 103	23.469	8.188	-18.859	1.00	95.25	C
ATOM	723	N GLU A 104	21.328	5.164	-19.531	1.00	95.44	N
ATOM	724	CA GLU A 104	20.828	3.850	-19.938	1.00	95.44	C
ATOM	725	C GLU A 104	20.562	2.957	-18.734	1.00	95.44	C
ATOM	726	CB GLU A 104	21.828	3.176	-20.891	1.00	95.44	C
ATOM	727	O GLU A 104	19.500	2.348	-18.625	1.00	95.44	O
ATOM	728	CG GLU A 104	21.406	1.789	-21.344	1.00	95.44	C
ATOM	729	CD GLU A 104	22.438	1.104	-22.234	1.00	95.44	C
ATOM	730	OE1 GLU A 104	22.312	-0.119	-22.469	1.00	95.44	O
ATOM	731	OE2 GLU A 104	23.359	1.797	-22.688	1.00	95.44	O
ATOM	732	N TYR A 105	21.469	2.928	-17.797	1.00	95.44	N
ATOM	733	CA TYR A 105	21.359	2.004	-16.672	1.00	95.44	C
ATOM	734	C TYR A 105	20.469	2.586	-15.578	1.00	95.44	C
ATOM	735	CB TYR A 105	22.750	1.671	-16.109	1.00	95.44	C
ATOM	736	O TYR A 105	19.906	1.845	-14.773	1.00	95.44	O
ATOM	737	CG TYR A 105	23.484	0.610	-16.891	1.00	95.44	C
ATOM	738	CD1 TYR A 105	23.219	-0.742	-16.688	1.00	95.44	C
ATOM	739	CD2 TYR A 105	24.438	0.958	-17.844	1.00	95.44	C
ATOM	740	CE1 TYR A 105	23.891	-1.724	-17.406	1.00	95.44	C
ATOM	741	CE2 TYR A 105	25.109	-0.015	-18.562	1.00	95.44	C
ATOM	742	OH TYR A 105	25.516	-2.318	-19.047	1.00	95.44	O
ATOM	743	CZ TYR A 105	24.844	-1.351	-18.344	1.00	95.44	C
ATOM	744	N SER A 106	20.375	3.916	-15.508	1.00	95.31	N
ATOM	745	CA SER A 106	19.391	4.543	-14.633	1.00	95.31	C
ATOM	746	C SER A 106	17.969	4.141	-15.023	1.00	95.31	C
ATOM	747	CB SER A 106	19.516	6.066	-14.680	1.00	95.31	C
ATOM	748	O SER A 106	17.141	3.814	-14.164	1.00	95.31	O
ATOM	749	OG SER A 106	20.734	6.480	-14.086	1.00	95.31	O
ATOM	750	N GLU A 107	17.672	4.113	-16.281	1.00	96.25	N
ATOM	751	CA GLU A 107	16.344	3.715	-16.766	1.00	96.25	C
ATOM	752	C GLU A 107	16.109	2.229	-16.531	1.00	96.25	C
ATOM	753	CB GLU A 107	16.203	4.043	-18.250	1.00	96.25	C
ATOM	754	O GLU A 107	14.992	1.828	-16.172	1.00	96.25	O
ATOM	755	CG GLU A 107	16.047	5.527	-18.547	1.00	96.25	C
ATOM	756	CD GLU A 107	14.812	6.141	-17.906	1.00	96.25	C
ATOM	757	OE1 GLU A 107	14.906	7.254	-17.344	1.00	96.25	O
ATOM	758	OE2 GLU A 107	13.734	5.500	-17.969	1.00	96.25	O
ATOM	759	N LYS A 108	17.141	1.492	-16.797	1.00	94.62	N

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ATOM	760	CA	LYS A 108	17.047	0.057	-16.547	1.00	94.62	C
ATOM	761	C	LYS A 108	16.734	-0.226	-15.086	1.00	94.62	C
ATOM	762	CB	LYS A 108	18.328	-0.650	-16.969	1.00	94.62	C
ATOM	763	O	LYS A 108	15.922	-1.088	-14.766	1.00	94.62	O
ATOM	764	CG	LYS A 108	18.234	-2.168	-16.984	1.00	94.62	C
ATOM	765	CD	LYS A 108	19.500	-2.809	-17.547	1.00	94.62	C
ATOM	766	CE	LYS A 108	19.406	-4.328	-17.531	1.00	94.62	C
ATOM	767	NZ	LYS A 108	20.641	-4.961	-18.094	1.00	94.62	N
ATOM	768	N	ALA A 109	17.469	0.429	-14.148	1.00	94.69	N
ATOM	769	CA	ALA A 109	17.250	0.240	-12.711	1.00	94.69	C
ATOM	770	C	ALA A 109	15.852	0.676	-12.297	1.00	94.69	C
ATOM	771	CB	ALA A 109	18.312	1.012	-11.914	1.00	94.69	C
ATOM	772	O	ALA A 109	15.203	0.017	-11.484	1.00	94.69	O
ATOM	773	N	LYS A 110	15.320	1.755	-12.906	1.00	94.94	N
ATOM	774	CA	LYS A 110	13.969	2.236	-12.633	1.00	94.94	C
ATOM	775	C	LYS A 110	12.922	1.210	-13.062	1.00	94.94	C
ATOM	776	CB	LYS A 110	13.719	3.568	-13.344	1.00	94.94	C
ATOM	777	O	LYS A 110	11.969	0.938	-12.328	1.00	94.94	O
ATOM	778	CG	LYS A 110	14.398	4.758	-12.680	1.00	94.94	C
ATOM	779	CD	LYS A 110	14.062	6.059	-13.398	1.00	94.94	C
ATOM	780	CE	LYS A 110	14.805	7.242	-12.781	1.00	94.94	C
ATOM	781	NZ	LYS A 110	14.547	8.508	-13.531	1.00	94.94	N
ATOM	782	N	LYS A 111	13.102	0.695	-14.234	1.00	94.88	N
ATOM	783	CA	LYS A 111	12.156	-0.283	-14.773	1.00	94.88	C
ATOM	784	C	LYS A 111	12.125	-1.543	-13.914	1.00	94.88	C
ATOM	785	CB	LYS A 111	12.516	-0.643	-16.219	1.00	94.88	C
ATOM	786	O	LYS A 111	11.047	-2.086	-13.641	1.00	94.88	O
ATOM	787	CG	LYS A 111	12.141	0.424	-17.234	1.00	94.88	C
ATOM	788	CD	LYS A 111	12.477	-0.015	-18.656	1.00	94.88	C
ATOM	789	CE	LYS A 111	12.172	1.082	-19.672	1.00	94.88	C
ATOM	790	NZ	LYS A 111	12.578	0.690	-21.047	1.00	94.88	N
ATOM	791	N	GLU A 112	13.289	-1.920	-13.578	1.00	96.81	N
ATOM	792	CA	GLU A 112	13.375	-3.113	-12.742	1.00	96.81	C
ATOM	793	C	GLU A 112	12.734	-2.875	-11.375	1.00	96.81	C
ATOM	794	CB	GLU A 112	14.828	-3.549	-12.570	1.00	96.81	C
ATOM	795	O	GLU A 112	12.039	-3.744	-10.852	1.00	96.81	O
ATOM	796	CG	GLU A 112	15.000	-4.871	-11.836	1.00	96.81	C
ATOM	797	CD	GLU A 112	14.414	-6.055	-12.594	1.00	96.81	C
ATOM	798	OE1	GLU A 112	14.125	-7.098	-11.961	1.00	96.81	O
ATOM	799	OE2	GLU A 112	14.242	-5.938	-13.828	1.00	96.81	O
ATOM	800	N	SER A 113	12.992	-1.700	-10.719	1.00	95.38	N
ATOM	801	CA	SER A 113	12.391	-1.368	-9.430	1.00	95.38	C
ATOM	802	C	SER A 113	10.875	-1.331	-9.523	1.00	95.38	C
ATOM	803	CB	SER A 113	12.914	-0.022	-8.922	1.00	95.38	C
ATOM	804	O	SER A 113	10.180	-1.793	-8.617	1.00	95.38	O
ATOM	805	OG	SER A 113	14.289	-0.105	-8.602	1.00	95.38	O
ATOM	806	N	LYS A 114	10.320	-0.838	-10.602	1.00	93.00	N
ATOM	807	CA	LYS A 114	8.875	-0.799	-10.812	1.00	93.00	C
ATOM	808	C	LYS A 114	8.305	-2.207	-10.945	1.00	93.00	C
ATOM	809	CB	LYS A 114	8.539	0.026	-12.055	1.00	93.00	C
ATOM	810	O	LYS A 114	7.227	-2.496	-10.422	1.00	93.00	O
ATOM	811	CG	LYS A 114	8.695	1.527	-11.859	1.00	93.00	C
ATOM	812	CD	LYS A 114	8.281	2.297	-13.109	1.00	93.00	C

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ATOM	813	CE	LYS A 114	8.500	3.793	-12.945	1.00	93.00	C
ATOM	814	NZ	LYS A 114	8.164	4.547	-14.188	1.00	93.00	N
ATOM	815	N	LYS A 115	9.047	-3.002	-11.711	1.00	95.00	N
ATOM	816	CA	LYS A 115	8.641	-4.398	-11.836	1.00	95.00	C
ATOM	817	C	LYS A 115	8.594	-5.078	-10.469	1.00	95.00	C
ATOM	818	CB	LYS A 115	9.586	-5.156	-12.766	1.00	95.00	C
ATOM	819	O	LYS A 115	7.641	-5.793	-10.156	1.00	95.00	O
ATOM	820	CG	LYS A 115	9.172	-6.590	-13.047	1.00	95.00	C
ATOM	821	CD	LYS A 115	10.156	-7.293	-13.969	1.00	95.00	C
ATOM	822	CE	LYS A 115	9.789	-8.758	-14.172	1.00	95.00	C
ATOM	823	NZ	LYS A 115	10.781	-9.461	-15.031	1.00	95.00	N
ATOM	824	N	LEU A 116	9.594	-4.883	-9.703	1.00	96.44	N
ATOM	825	CA	LEU A 116	9.656	-5.469	-8.375	1.00	96.44	C
ATOM	826	C	LEU A 116	8.516	-4.949	-7.496	1.00	96.44	C
ATOM	827	CB	LEU A 116	11.000	-5.160	-7.715	1.00	96.44	C
ATOM	828	O	LEU A 116	7.930	-5.703	-6.719	1.00	96.44	O
ATOM	829	CG	LEU A 116	12.227	-5.848	-8.320	1.00	96.44	C
ATOM	830	CD1	LEU A 116	13.500	-5.336	-7.664	1.00	96.44	C
ATOM	831	CD2	LEU A 116	12.117	-7.363	-8.172	1.00	96.44	C
ATOM	832	N	LEU A 117	8.258	-3.580	-7.586	1.00	95.31	N
ATOM	833	CA	LEU A 117	7.203	-2.977	-6.785	1.00	95.31	C
ATOM	834	C	LEU A 117	5.852	-3.615	-7.094	1.00	95.31	C
ATOM	835	CB	LEU A 117	7.137	-1.468	-7.035	1.00	95.31	C
ATOM	836	O	LEU A 117	5.090	-3.943	-6.184	1.00	95.31	O
ATOM	837	CG	LEU A 117	6.223	-0.666	-6.105	1.00	95.31	C
ATOM	838	CD1	LEU A 117	6.754	-0.706	-4.676	1.00	95.31	C
ATOM	839	CD2	LEU A 117	6.094	0.774	-6.594	1.00	95.31	C
ATOM	840	N	LYS A 118	5.535	-3.877	-8.359	1.00	94.50	N
ATOM	841	CA	LYS A 118	4.281	-4.516	-8.758	1.00	94.50	C
ATOM	842	C	LYS A 118	4.180	-5.926	-8.180	1.00	94.50	C
ATOM	843	CB	LYS A 118	4.160	-4.562	-10.281	1.00	94.50	C
ATOM	844	O	LYS A 118	3.109	-6.340	-7.727	1.00	94.50	O
ATOM	845	CG	LYS A 118	3.922	-3.205	-10.922	1.00	94.50	C
ATOM	846	CD	LYS A 118	3.779	-3.322	-12.438	1.00	94.50	C
ATOM	847	CE	LYS A 118	3.592	-1.958	-13.086	1.00	94.50	C
ATOM	848	NZ	LYS A 118	3.508	-2.061	-14.570	1.00	94.50	N
ATOM	849	N	GLU A 119	5.281	-6.590	-8.125	1.00	96.56	N
ATOM	850	CA	GLU A 119	5.312	-7.941	-7.578	1.00	96.56	C
ATOM	851	C	GLU A 119	5.043	-7.934	-6.078	1.00	96.56	C
ATOM	852	CB	GLU A 119	6.660	-8.609	-7.867	1.00	96.56	C
ATOM	853	O	GLU A 119	4.309	-8.781	-5.570	1.00	96.56	O
ATOM	854	CG	GLU A 119	6.867	-8.969	-9.328	1.00	96.56	C
ATOM	855	CD	GLU A 119	5.797	-9.898	-9.875	1.00	96.56	C
ATOM	856	OE1	GLU A 119	5.227	-9.609	-10.953	1.00	96.56	O
ATOM	857	OE2	GLU A 119	5.523	-10.930	-9.219	1.00	96.56	O
ATOM	858	N	GLU A 120	5.637	-6.926	-5.488	1.00	97.25	N
ATOM	859	CA	GLU A 120	5.457	-6.863	-4.043	1.00	97.25	C
ATOM	860	C	GLU A 120	4.020	-6.500	-3.682	1.00	97.25	C
ATOM	861	CB	GLU A 120	6.426	-5.859	-3.420	1.00	97.25	C
ATOM	862	O	GLU A 120	3.451	-7.047	-2.734	1.00	97.25	O
ATOM	863	CG	GLU A 120	7.891	-6.219	-3.611	1.00	97.25	C
ATOM	864	CD	GLU A 120	8.227	-7.633	-3.166	1.00	97.25	C
ATOM	865	OE1	GLU A 120	8.891	-8.367	-3.934	1.00	97.25	O

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ATOM	866	OE2 GLU A 120	7.820	-8.008	-2.045	1.00	97.25	O
ATOM	867	N VAL A 121	3.387	-5.586	-4.414	1.00	96.44	N
ATOM	868	CA VAL A 121	1.995	-5.207	-4.191	1.00	96.44	C
ATOM	869	C VAL A 121	1.085	-6.402	-4.469	1.00	96.44	C
ATOM	870	CB VAL A 121	1.586	-4.012	-5.082	1.00	96.44	C
ATOM	871	O VAL A 121	0.120	-6.637	-3.736	1.00	96.44	O
ATOM	872	CG1 VAL A 121	0.085	-3.750	-4.977	1.00	96.44	C
ATOM	873	CG2 VAL A 121	2.377	-2.764	-4.691	1.00	96.44	C
ATOM	874	N LYS A 122	1.413	-7.145	-5.391	1.00	96.12	N
ATOM	875	CA LYS A 122	0.649	-8.352	-5.699	1.00	96.12	C
ATOM	876	C LYS A 122	0.635	-9.312	-4.516	1.00	96.12	C
ATOM	877	CB LYS A 122	1.223	-9.047	-6.934	1.00	96.12	C
ATOM	878	O LYS A 122	-0.391	-9.930	-4.223	1.00	96.12	O
ATOM	879	CG LYS A 122	0.387	-10.219	-7.430	1.00	96.12	C
ATOM	880	CD LYS A 122	0.976	-10.836	-8.695	1.00	96.12	C
ATOM	881	CE LYS A 122	0.163	-12.031	-9.164	1.00	96.12	C
ATOM	882	NZ LYS A 122	0.731	-12.633	-10.406	1.00	96.12	N
ATOM	883	N LYS A 123	1.702	-9.453	-3.910	1.00	96.31	N
ATOM	884	CA LYS A 123	1.814	-10.359	-2.770	1.00	96.31	C
ATOM	885	C LYS A 123	0.972	-9.867	-1.595	1.00	96.31	C
ATOM	886	CB LYS A 123	3.275	-10.500	-2.340	1.00	96.31	C
ATOM	887	O LYS A 123	0.540	-10.656	-0.758	1.00	96.31	O
ATOM	888	CG LYS A 123	4.145	-11.242	-3.346	1.00	96.31	C
ATOM	889	CD LYS A 123	5.590	-11.336	-2.875	1.00	96.31	C
ATOM	890	CE LYS A 123	6.477	-12.000	-3.918	1.00	96.31	C
ATOM	891	NZ LYS A 123	7.910	-12.016	-3.496	1.00	96.31	N
ATOM	892	N LEU A 124	0.792	-8.531	-1.563	1.00	96.62	N
ATOM	893	CA LEU A 124	0.075	-7.969	-0.424	1.00	96.62	C
ATOM	894	C LEU A 124	-1.418	-7.867	-0.716	1.00	96.62	C
ATOM	895	CB LEU A 124	0.632	-6.586	-0.069	1.00	96.62	C
ATOM	896	O LEU A 124	-2.217	-7.625	0.191	1.00	96.62	O
ATOM	897	CG LEU A 124	2.078	-6.547	0.431	1.00	96.62	C
ATOM	898	CD1 LEU A 124	2.520	-5.105	0.658	1.00	96.62	C
ATOM	899	CD2 LEU A 124	2.225	-7.367	1.709	1.00	96.62	C
ATOM	900	N ALA A 125	-1.701	-8.070	-2.045	1.00	94.56	N
ATOM	901	CA ALA A 125	-3.105	-8.070	-2.443	1.00	94.56	C
ATOM	902	C ALA A 125	-3.883	-9.164	-1.715	1.00	94.56	C
ATOM	903	CB ALA A 125	-3.232	-8.250	-3.953	1.00	94.56	C
ATOM	904	O ALA A 125	-3.340	-10.234	-1.425	1.00	94.56	O
ATOM	905	N GLY A 126	-5.035	-8.875	-1.232	1.00	96.69	N
ATOM	906	CA GLY A 126	-5.891	-9.797	-0.494	1.00	96.69	C
ATOM	907	C GLY A 126	-5.938	-9.500	0.993	1.00	96.69	C
ATOM	908	O GLY A 126	-6.648	-10.172	1.742	1.00	96.69	O
ATOM	909	N LEU A 127	-5.098	-8.609	1.363	1.00	98.31	N
ATOM	910	CA LEU A 127	-5.137	-8.234	2.773	1.00	98.31	C
ATOM	911	C LEU A 127	-6.543	-7.812	3.188	1.00	98.31	C
ATOM	912	CB LEU A 127	-4.145	-7.105	3.059	1.00	98.31	C
ATOM	913	O LEU A 127	-7.191	-7.035	2.484	1.00	98.31	O
ATOM	914	CG LEU A 127	-3.928	-6.746	4.531	1.00	98.31	C
ATOM	915	CD1 LEU A 127	-3.252	-7.902	5.262	1.00	98.31	C
ATOM	916	CD2 LEU A 127	-3.104	-5.473	4.652	1.00	98.31	C
ATOM	917	N THR A 128	-7.051	-8.414	4.305	1.00	98.38	N
ATOM	918	CA THR A 128	-8.414	-8.156	4.750	1.00	98.38	C

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ATOM	919	C	THR A 128	-8.438	-7.738	6.215	1.00	98.38	C
ATOM	920	CB	THR A 128	-9.305	-9.398	4.555	1.00	98.38	C
ATOM	921	O	THR A 128	-7.598	-8.172	7.004	1.00	98.38	O
ATOM	922	CG2	THR A 128	-9.312	-9.852	3.098	1.00	98.38	C
ATOM	923	OG1	THR A 128	-8.812	-10.469	5.371	1.00	98.38	O
ATOM	924	N	VAL A 129	-9.328	-6.852	6.539	1.00	98.50	N
ATOM	925	CA	VAL A 129	-9.578	-6.484	7.930	1.00	98.50	C
ATOM	926	C	VAL A 129	-11.078	-6.383	8.180	1.00	98.50	C
ATOM	927	CB	VAL A 129	-8.883	-5.152	8.297	1.00	98.50	C
ATOM	928	O	VAL A 129	-11.836	-5.988	7.285	1.00	98.50	O
ATOM	929	CG1	VAL A 129	-9.477	-3.996	7.500	1.00	98.50	C
ATOM	930	CG2	VAL A 129	-9.000	-4.891	9.797	1.00	98.50	C
ATOM	931	N	SER A 130	-11.500	-6.781	9.320	1.00	98.44	N
ATOM	932	CA	SER A 130	-12.930	-6.727	9.641	1.00	98.44	C
ATOM	933	C	SER A 130	-13.172	-6.027	10.969	1.00	98.44	C
ATOM	934	CB	SER A 130	-13.523	-8.133	9.672	1.00	98.44	C
ATOM	935	O	SER A 130	-12.273	-5.957	11.812	1.00	98.44	O
ATOM	936	OG	SER A 130	-12.852	-8.938	10.633	1.00	98.44	O
ATOM	937	N	ALA A 131	-14.297	-5.402	11.102	1.00	98.38	N
ATOM	938	CA	ALA A 131	-14.781	-4.797	12.336	1.00	98.38	C
ATOM	939	C	ALA A 131	-16.266	-5.086	12.547	1.00	98.38	C
ATOM	940	CB	ALA A 131	-14.531	-3.291	12.328	1.00	98.38	C
ATOM	941	O	ALA A 131	-17.016	-5.242	11.578	1.00	98.38	O
ATOM	942	N	SER A 132	-16.578	-5.293	13.812	1.00	98.38	N
ATOM	943	CA	SER A 132	-17.984	-5.500	14.180	1.00	98.38	C
ATOM	944	C	SER A 132	-18.391	-4.598	15.336	1.00	98.38	C
ATOM	945	CB	SER A 132	-18.219	-6.965	14.547	1.00	98.38	C
ATOM	946	O	SER A 132	-17.578	-4.266	16.188	1.00	98.38	O
ATOM	947	OG	SER A 132	-19.562	-7.156	14.977	1.00	98.38	O
ATOM	948	N	ALA A 133	-19.609	-4.105	15.242	1.00	98.31	N
ATOM	949	CA	ALA A 133	-20.188	-3.320	16.328	1.00	98.31	C
ATOM	950	C	ALA A 133	-21.625	-3.734	16.594	1.00	98.31	C
ATOM	951	CB	ALA A 133	-20.109	-1.829	16.000	1.00	98.31	C
ATOM	952	O	ALA A 133	-22.375	-4.043	15.664	1.00	98.31	O
ATOM	953	N	THR A 134	-21.938	-3.773	17.906	1.00	98.25	N
ATOM	954	CA	THR A 134	-23.297	-4.125	18.312	1.00	98.25	C
ATOM	955	C	THR A 134	-23.875	-3.068	19.250	1.00	98.25	C
ATOM	956	CB	THR A 134	-23.328	-5.504	18.984	1.00	98.25	C
ATOM	957	O	THR A 134	-23.188	-2.598	20.156	1.00	98.25	O
ATOM	958	CG2	THR A 134	-24.750	-5.859	19.422	1.00	98.25	C
ATOM	959	OG1	THR A 134	-22.859	-6.500	18.078	1.00	98.25	O
ATOM	960	N	ALA A 135	-25.078	-2.611	18.938	1.00	97.50	N
ATOM	961	CA	ALA A 135	-25.797	-1.721	19.844	1.00	97.50	C
ATOM	962	C	ALA A 135	-27.078	-2.381	20.359	1.00	97.50	C
ATOM	963	CB	ALA A 135	-26.141	-0.407	19.141	1.00	97.50	C
ATOM	964	O	ALA A 135	-27.797	-3.023	19.594	1.00	97.50	O
ATOM	965	N	THR A 136	-27.219	-2.223	21.734	1.00	95.56	N
ATOM	966	CA	THR A 136	-28.438	-2.715	22.391	1.00	95.56	C
ATOM	967	C	THR A 136	-29.125	-1.595	23.156	1.00	95.56	C
ATOM	968	CB	THR A 136	-28.125	-3.881	23.344	1.00	95.56	C
ATOM	969	O	THR A 136	-28.469	-0.792	23.812	1.00	95.56	O
ATOM	970	CG2	THR A 136	-29.406	-4.477	23.922	1.00	95.56	C
ATOM	971	OG1	THR A 136	-27.422	-4.902	22.625	1.00	95.56	O

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ATOM	972	N	VAL A 137	-30.453	-1.523	22.953	1.00	94.56	N
ATOM	973	CA	VAL A 137	-31.203	-0.543	23.719	1.00	94.56	C
ATOM	974	C	VAL A 137	-32.469	-1.188	24.266	1.00	94.56	C
ATOM	975	CB	VAL A 137	-31.562	0.694	22.859	1.00	94.56	C
ATOM	976	O	VAL A 137	-33.125	-1.988	23.594	1.00	94.56	O
ATOM	977	CG1	VAL A 137	-32.594	0.333	21.797	1.00	94.56	C
ATOM	978	CG2	VAL A 137	-32.094	1.821	23.750	1.00	94.56	C
ATOM	979	N	THR A 138	-32.688	-0.968	25.578	1.00	90.81	N
ATOM	980	CA	THR A 138	-33.938	-1.378	26.203	1.00	90.81	C
ATOM	981	C	THR A 138	-34.875	-0.182	26.375	1.00	90.81	C
ATOM	982	CB	THR A 138	-33.688	-2.049	27.562	1.00	90.81	C
ATOM	983	O	THR A 138	-34.469	0.838	26.953	1.00	90.81	O
ATOM	984	CG2	THR A 138	-35.000	-2.578	28.156	1.00	90.81	C
ATOM	985	OG1	THR A 138	-32.781	-3.139	27.406	1.00	90.81	O
ATOM	986	N	ASP A 139	-36.062	-0.367	25.859	1.00	83.94	N
ATOM	987	CA	ASP A 139	-36.969	0.771	25.953	1.00	83.94	C
ATOM	988	C	ASP A 139	-37.656	0.809	27.328	1.00	83.94	C
ATOM	989	CB	ASP A 139	-38.031	0.722	24.844	1.00	83.94	C
ATOM	990	O	ASP A 139	-37.312	0.027	28.219	1.00	83.94	O
ATOM	991	CG	ASP A 139	-38.969	-0.476	24.953	1.00	83.94	C
ATOM	992	OD1	ASP A 139	-39.031	-1.089	26.047	1.00	83.94	O
ATOM	993	OD2	ASP A 139	-39.625	-0.812	23.953	1.00	83.94	O
ATOM	994	N	THR A 140	-38.656	1.843	27.531	1.00	81.81	N
ATOM	995	CA	THR A 140	-39.250	2.072	28.844	1.00	81.81	C
ATOM	996	C	THR A 140	-40.219	0.941	29.203	1.00	81.81	C
ATOM	997	CB	THR A 140	-40.000	3.416	28.875	1.00	81.81	C
ATOM	998	O	THR A 140	-40.469	0.697	30.375	1.00	81.81	O
ATOM	999	CG2	THR A 140	-39.031	4.590	28.875	1.00	81.81	C
ATOM	1000	OG1	THR A 140	-40.844	3.514	27.734	1.00	81.81	O
ATOM	1001	N	ALA A 141	-40.656	0.210	28.078	1.00	83.19	N
ATOM	1002	CA	ALA A 141	-41.562	-0.908	28.297	1.00	83.19	C
ATOM	1003	C	ALA A 141	-40.812	-2.197	28.578	1.00	83.19	C
ATOM	1004	CB	ALA A 141	-42.500	-1.089	27.094	1.00	83.19	C
ATOM	1005	O	ALA A 141	-41.406	-3.240	28.844	1.00	83.19	O
ATOM	1006	N	GLY A 142	-39.406	-2.084	28.547	1.00	86.94	N
ATOM	1007	CA	GLY A 142	-38.531	-3.229	28.812	1.00	86.94	C
ATOM	1008	C	GLY A 142	-38.219	-4.027	27.578	1.00	86.94	C
ATOM	1009	O	GLY A 142	-37.594	-5.094	27.656	1.00	86.94	O
ATOM	1010	N	ASN A 143	-38.656	-3.580	26.375	1.00	87.62	N
ATOM	1011	CA	ASN A 143	-38.312	-4.246	25.125	1.00	87.62	C
ATOM	1012	C	ASN A 143	-36.875	-3.906	24.688	1.00	87.62	C
ATOM	1013	CB	ASN A 143	-39.281	-3.875	24.016	1.00	87.62	C
ATOM	1014	O	ASN A 143	-36.469	-2.742	24.734	1.00	87.62	O
ATOM	1015	CG	ASN A 143	-40.719	-4.246	24.359	1.00	87.62	C
ATOM	1016	ND2	ASN A 143	-41.625	-3.293	24.219	1.00	87.62	N
ATOM	1017	OD1	ASN A 143	-41.000	-5.383	24.750	1.00	87.62	O
ATOM	1018	N	THR A 144	-36.156	-4.926	24.250	1.00	91.88	N
ATOM	1019	CA	THR A 144	-34.750	-4.750	23.859	1.00	91.88	C
ATOM	1020	C	THR A 144	-34.625	-4.766	22.328	1.00	91.88	C
ATOM	1021	CB	THR A 144	-33.844	-5.840	24.469	1.00	91.88	C
ATOM	1022	O	THR A 144	-35.219	-5.609	21.672	1.00	91.88	O
ATOM	1023	CG2	THR A 144	-32.406	-5.633	24.062	1.00	91.88	C
ATOM	1024	OG1	THR A 144	-33.938	-5.789	25.891	1.00	91.88	O

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ATOM	1025	N	GLU A 145	-33.938	-3.736	21.797	1.00	91.75	N
ATOM	1026	CA	GLU A 145	-33.562	-3.686	20.375	1.00	91.75	C
ATOM	1027	C	GLU A 145	-32.062	-3.865	20.188	1.00	91.75	C
ATOM	1028	CB	GLU A 145	-34.031	-2.363	19.750	1.00	91.75	C
ATOM	1029	O	GLU A 145	-31.266	-3.254	20.906	1.00	91.75	O
ATOM	1030	CG	GLU A 145	-35.531	-2.139	19.812	1.00	91.75	C
ATOM	1031	CD	GLU A 145	-36.312	-3.029	18.859	1.00	91.75	C
ATOM	1032	OE1	GLU A 145	-37.531	-3.188	19.047	1.00	91.75	O
ATOM	1033	OE2	GLU A 145	-35.688	-3.576	17.922	1.00	91.75	O
ATOM	1034	N	THR A 146	-31.719	-4.805	19.359	1.00	93.75	N
ATOM	1035	CA	THR A 146	-30.312	-5.055	19.078	1.00	93.75	C
ATOM	1036	C	THR A 146	-30.016	-4.883	17.578	1.00	93.75	C
ATOM	1037	CB	THR A 146	-29.891	-6.469	19.516	1.00	93.75	C
ATOM	1038	O	THR A 146	-30.828	-5.293	16.734	1.00	93.75	O
ATOM	1039	CG2	THR A 146	-28.422	-6.727	19.219	1.00	93.75	C
ATOM	1040	OG1	THR A 146	-30.109	-6.609	20.922	1.00	93.75	O
ATOM	1041	N	LEU A 147	-28.891	-4.270	17.250	1.00	95.88	N
ATOM	1042	CA	LEU A 147	-28.422	-4.113	15.883	1.00	95.88	C
ATOM	1043	C	LEU A 147	-26.922	-4.402	15.789	1.00	95.88	C
ATOM	1044	CB	LEU A 147	-28.719	-2.701	15.375	1.00	95.88	C
ATOM	1045	O	LEU A 147	-26.141	-3.910	16.609	1.00	95.88	O
ATOM	1046	CG	LEU A 147	-28.516	-2.469	13.875	1.00	95.88	C
ATOM	1047	CD1	LEU A 147	-29.594	-3.203	13.078	1.00	95.88	C
ATOM	1048	CD2	LEU A 147	-28.531	-0.978	13.562	1.00	95.88	C
ATOM	1049	N	THR A 148	-26.578	-5.223	14.891	1.00	98.06	N
ATOM	1050	CA	THR A 148	-25.172	-5.551	14.680	1.00	98.06	C
ATOM	1051	C	THR A 148	-24.719	-5.105	13.289	1.00	98.06	C
ATOM	1052	CB	THR A 148	-24.922	-7.062	14.844	1.00	98.06	C
ATOM	1053	O	THR A 148	-25.406	-5.344	12.297	1.00	98.06	O
ATOM	1054	CG2	THR A 148	-23.453	-7.402	14.617	1.00	98.06	C
ATOM	1055	OG1	THR A 148	-25.297	-7.461	16.172	1.00	98.06	O
ATOM	1056	N	LEU A 149	-23.562	-4.434	13.227	1.00	98.50	N
ATOM	1057	CA	LEU A 149	-22.906	-4.008	12.000	1.00	98.50	C
ATOM	1058	C	LEU A 149	-21.594	-4.750	11.797	1.00	98.50	C
ATOM	1059	CB	LEU A 149	-22.656	-2.496	12.023	1.00	98.50	C
ATOM	1060	O	LEU A 149	-20.750	-4.766	12.688	1.00	98.50	O
ATOM	1061	CG	LEU A 149	-21.828	-1.929	10.867	1.00	98.50	C
ATOM	1062	CD1	LEU A 149	-22.547	-2.145	9.539	1.00	98.50	C
ATOM	1063	CD2	LEU A 149	-21.547	-0.448	11.094	1.00	98.50	C
ATOM	1064	N	ASN A 150	-21.484	-5.406	10.664	1.00	98.44	N
ATOM	1065	CA	ASN A 150	-20.250	-6.074	10.266	1.00	98.44	C
ATOM	1066	C	ASN A 150	-19.625	-5.406	9.055	1.00	98.44	C
ATOM	1067	CB	ASN A 150	-20.516	-7.559	9.984	1.00	98.44	C
ATOM	1068	O	ASN A 150	-20.281	-5.219	8.023	1.00	98.44	O
ATOM	1069	CG	ASN A 150	-21.000	-8.305	11.203	1.00	98.44	C
ATOM	1070	ND2	ASN A 150	-22.219	-8.844	11.117	1.00	98.44	N
ATOM	1071	OD1	ASN A 150	-20.312	-8.398	12.219	1.00	98.44	O
ATOM	1072	N	LEU A 151	-18.359	-4.992	9.141	1.00	98.56	N
ATOM	1073	CA	LEU A 151	-17.625	-4.328	8.070	1.00	98.56	C
ATOM	1074	C	LEU A 151	-16.359	-5.105	7.715	1.00	98.56	C
ATOM	1075	CB	LEU A 151	-17.250	-2.898	8.477	1.00	98.56	C
ATOM	1076	O	LEU A 151	-15.586	-5.484	8.602	1.00	98.56	O
ATOM	1077	CG	LEU A 151	-16.375	-2.121	7.504	1.00	98.56	C

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ATOM	1078	CD1 LEU A 151	-17.109	-1.894	6.188	1.00	98.56	C
ATOM	1079	CD2 LEU A 151	-15.938	-0.794	8.117	1.00	98.56	C
ATOM	1080	N THR A 152	-16.234	-5.348	6.473	1.00	98.50	N
ATOM	1081	CA THR A 152	-15.023	-5.965	5.953	1.00	98.50	C
ATOM	1082	C THR A 152	-14.391	-5.098	4.867	1.00	98.50	C
ATOM	1083	CB THR A 152	-15.312	-7.367	5.383	1.00	98.50	C
ATOM	1084	O THR A 152	-15.094	-4.582	3.992	1.00	98.50	O
ATOM	1085	CG2 THR A 152	-14.031	-8.047	4.922	1.00	98.50	C
ATOM	1086	OG1 THR A 152	-15.930	-8.172	6.398	1.00	98.50	O
ATOM	1087	N ALA A 153	-13.086	-4.891	4.902	1.00	98.44	N
ATOM	1088	CA ALA A 153	-12.312	-4.184	3.883	1.00	98.44	C
ATOM	1089	C ALA A 153	-11.234	-5.082	3.291	1.00	98.44	C
ATOM	1090	CB ALA A 153	-11.680	-2.920	4.473	1.00	98.44	C
ATOM	1091	O ALA A 153	-10.453	-5.699	4.027	1.00	98.44	O
ATOM	1092	N THR A 154	-11.227	-5.113	2.012	1.00	98.44	N
ATOM	1093	CA THR A 154	-10.266	-5.961	1.310	1.00	98.44	C
ATOM	1094	C THR A 154	-9.523	-5.164	0.239	1.00	98.44	C
ATOM	1095	CB THR A 154	-10.961	-7.172	0.662	1.00	98.44	C
ATOM	1096	O THR A 154	-10.141	-4.402	-0.511	1.00	98.44	O
ATOM	1097	CG2 THR A 154	-9.945	-8.117	0.035	1.00	98.44	C
ATOM	1098	OG1 THR A 154	-11.703	-7.883	1.663	1.00	98.44	O
ATOM	1099	N LEU A 155	-8.234	-5.309	0.160	1.00	98.38	N
ATOM	1100	CA LEU A 155	-7.410	-4.688	-0.872	1.00	98.38	C
ATOM	1101	C LEU A 155	-7.188	-5.648	-2.035	1.00	98.38	C
ATOM	1102	CB LEU A 155	-6.066	-4.250	-0.290	1.00	98.38	C
ATOM	1103	O LEU A 155	-6.898	-6.828	-1.825	1.00	98.38	O
ATOM	1104	CG LEU A 155	-5.152	-3.451	-1.221	1.00	98.38	C
ATOM	1105	CD1 LEU A 155	-5.613	-2.000	-1.300	1.00	98.38	C
ATOM	1106	CD2 LEU A 155	-3.703	-3.531	-0.748	1.00	98.38	C
ATOM	1107	N SER A 156	-7.324	-5.168	-3.152	1.00	97.94	N
ATOM	1108	CA SER A 156	-7.004	-5.953	-4.340	1.00	97.94	C
ATOM	1109	C SER A 156	-6.125	-5.160	-5.305	1.00	97.94	C
ATOM	1110	CB SER A 156	-8.281	-6.398	-5.051	1.00	97.94	C
ATOM	1111	O SER A 156	-6.027	-3.936	-5.199	1.00	97.94	O
ATOM	1112	OG SER A 156	-9.008	-5.277	-5.527	1.00	97.94	O
ATOM	1113	N TYR A 157	-5.438	-5.852	-6.176	1.00	97.06	N
ATOM	1114	CA TYR A 157	-4.547	-5.262	-7.172	1.00	97.06	C
ATOM	1115	C TYR A 157	-4.742	-5.918	-8.531	1.00	97.06	C
ATOM	1116	CB TYR A 157	-3.086	-5.398	-6.730	1.00	97.06	C
ATOM	1117	O TYR A 157	-4.777	-7.145	-8.641	1.00	97.06	O
ATOM	1118	CG TYR A 157	-2.094	-4.926	-7.766	1.00	97.06	C
ATOM	1119	CD1 TYR A 157	-1.117	-5.785	-8.266	1.00	97.06	C
ATOM	1120	CD2 TYR A 157	-2.131	-3.621	-8.242	1.00	97.06	C
ATOM	1121	CE1 TYR A 157	-0.200	-5.352	-9.219	1.00	97.06	C
ATOM	1122	CE2 TYR A 157	-1.220	-3.180	-9.195	1.00	97.06	C
ATOM	1123	OH TYR A 157	0.646	-3.617	-10.617	1.00	97.06	O
ATOM	1124	CZ TYR A 157	-0.259	-4.051	-9.680	1.00	97.06	C
ATOM	1125	N ASP A 158	-4.945	-5.066	-9.492	1.00	96.12	N
ATOM	1126	CA ASP A 158	-5.031	-5.504	-10.883	1.00	96.12	C
ATOM	1127	C ASP A 158	-3.729	-5.219	-11.633	1.00	96.12	C
ATOM	1128	CB ASP A 158	-6.203	-4.824	-11.594	1.00	96.12	C
ATOM	1129	O ASP A 158	-3.445	-4.070	-11.977	1.00	96.12	O
ATOM	1130	CG ASP A 158	-6.441	-5.359	-12.992	1.00	96.12	C

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ATOM	1131	OD1 ASP A 158	-5.527	-5.984	-13.570	1.00	96.12	O
ATOM	1132	OD2 ASP A 158	-7.551	-5.148	-13.523	1.00	96.12	O
ATOM	1133	N GLU A 159	-3.055	-6.234	-12.000	1.00	90.06	N
ATOM	1134	CA GLU A 159	-1.733	-6.098	-12.609	1.00	90.06	C
ATOM	1135	C GLU A 159	-1.825	-5.484	-14.000	1.00	90.06	C
ATOM	1136	CB GLU A 159	-1.031	-7.457	-12.680	1.00	90.06	C
ATOM	1137	O GLU A 159	-0.977	-4.676	-14.383	1.00	90.06	O
ATOM	1138	CG GLU A 159	0.428	-7.375	-13.102	1.00	90.06	C
ATOM	1139	CD GLU A 159	1.153	-8.711	-13.016	1.00	90.06	C
ATOM	1140	OE1 GLU A 159	2.377	-8.750	-13.281	1.00	90.06	O
ATOM	1141	OE2 GLU A 159	0.493	-9.719	-12.688	1.00	90.06	O
ATOM	1142	N ALA A 160	-2.893	-5.809	-14.688	1.00	89.88	N
ATOM	1143	CA ALA A 160	-3.020	-5.352	-16.062	1.00	89.88	C
ATOM	1144	C ALA A 160	-3.150	-3.834	-16.125	1.00	89.88	C
ATOM	1145	CB ALA A 160	-4.219	-6.016	-16.734	1.00	89.88	C
ATOM	1146	O ALA A 160	-2.506	-3.184	-16.953	1.00	89.88	O
ATOM	1147	N THR A 161	-3.916	-3.352	-15.148	1.00	92.56	N
ATOM	1148	CA THR A 161	-4.188	-1.920	-15.211	1.00	92.56	C
ATOM	1149	C THR A 161	-3.281	-1.151	-14.258	1.00	92.56	C
ATOM	1150	CB THR A 161	-5.660	-1.616	-14.883	1.00	92.56	C
ATOM	1151	O THR A 161	-3.152	0.070	-14.359	1.00	92.56	O
ATOM	1152	CG2 THR A 161	-6.602	-2.385	-15.805	1.00	92.56	C
ATOM	1153	OG1 THR A 161	-5.930	-1.992	-13.523	1.00	92.56	O
ATOM	1154	N GLY A 162	-2.660	-1.896	-13.305	1.00	91.94	N
ATOM	1155	CA GLY A 162	-1.818	-1.262	-12.305	1.00	91.94	C
ATOM	1156	C GLY A 162	-2.611	-0.539	-11.234	1.00	91.94	C
ATOM	1157	O GLY A 162	-2.109	0.398	-10.609	1.00	91.94	O
ATOM	1158	N LYS A 163	-3.912	-0.939	-11.062	1.00	95.56	N
ATOM	1159	CA LYS A 163	-4.793	-0.254	-10.125	1.00	95.56	C
ATOM	1160	C LYS A 163	-4.973	-1.066	-8.844	1.00	95.56	C
ATOM	1161	CB LYS A 163	-6.156	0.017	-10.773	1.00	95.56	C
ATOM	1162	O LYS A 163	-5.035	-2.297	-8.891	1.00	95.56	O
ATOM	1163	CG LYS A 163	-6.102	0.969	-11.953	1.00	95.56	C
ATOM	1164	CD LYS A 163	-7.496	1.326	-12.453	1.00	95.56	C
ATOM	1165	CE LYS A 163	-7.445	2.355	-13.570	1.00	95.56	C
ATOM	1166	NZ LYS A 163	-8.812	2.725	-14.047	1.00	95.56	N
ATOM	1167	N VAL A 164	-4.957	-0.356	-7.707	1.00	97.62	N
ATOM	1168	CA VAL A 164	-5.277	-0.949	-6.414	1.00	97.62	C
ATOM	1169	C VAL A 164	-6.695	-0.562	-6.004	1.00	97.62	C
ATOM	1170	CB VAL A 164	-4.270	-0.512	-5.324	1.00	97.62	C
ATOM	1171	O VAL A 164	-7.137	0.563	-6.254	1.00	97.62	O
ATOM	1172	CG1 VAL A 164	-2.895	-1.122	-5.586	1.00	97.62	C
ATOM	1173	CG2 VAL A 164	-4.180	1.011	-5.262	1.00	97.62	C
ATOM	1174	N THR A 165	-7.418	-1.500	-5.477	1.00	98.38	N
ATOM	1175	CA THR A 165	-8.828	-1.291	-5.145	1.00	98.38	C
ATOM	1176	C THR A 165	-9.102	-1.674	-3.695	1.00	98.38	C
ATOM	1177	CB THR A 165	-9.742	-2.100	-6.082	1.00	98.38	C
ATOM	1178	O THR A 165	-8.656	-2.723	-3.229	1.00	98.38	O
ATOM	1179	CG2 THR A 165	-11.211	-1.847	-5.762	1.00	98.38	C
ATOM	1180	OG1 THR A 165	-9.492	-1.721	-7.438	1.00	98.38	O
ATOM	1181	N LEU A 166	-9.688	-0.786	-2.959	1.00	98.62	N
ATOM	1182	CA LEU A 166	-10.211	-1.094	-1.632	1.00	98.62	C
ATOM	1183	C LEU A 166	-11.711	-1.378	-1.689	1.00	98.62	C

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ATOM	1184	CB	LEU A 166	-9.938	0.062	-0.666	1.00	98.62	C
ATOM	1185	O	LEU A 166	-12.492	-0.519	-2.102	1.00	98.62	O
ATOM	1186	CG	LEU A 166	-10.453	-0.111	0.763	1.00	98.62	C
ATOM	1187	CD1	LEU A 166	-9.680	-1.218	1.476	1.00	98.62	C
ATOM	1188	CD2	LEU A 166	-10.352	1.201	1.532	1.00	98.62	C
ATOM	1189	N	ASN A 167	-12.094	-2.531	-1.379	1.00	98.44	N
ATOM	1190	CA	ASN A 167	-13.492	-2.936	-1.316	1.00	98.44	C
ATOM	1191	C	ASN A 167	-14.000	-3.002	0.123	1.00	98.44	C
ATOM	1192	CB	ASN A 167	-13.695	-4.285	-2.012	1.00	98.44	C
ATOM	1193	O	ASN A 167	-13.508	-3.809	0.918	1.00	98.44	O
ATOM	1194	CG	ASN A 167	-13.430	-4.219	-3.504	1.00	98.44	C
ATOM	1195	ND2	ASN A 167	-12.500	-5.035	-3.977	1.00	98.44	N
ATOM	1196	OD1	ASN A 167	-14.062	-3.436	-4.223	1.00	98.44	O
ATOM	1197	N	ALA A 168	-14.914	-2.133	0.461	1.00	98.50	N
ATOM	1198	CA	ALA A 168	-15.531	-2.109	1.786	1.00	98.50	C
ATOM	1199	C	ALA A 168	-16.969	-2.613	1.732	1.00	98.50	C
ATOM	1200	CB	ALA A 168	-15.484	-0.699	2.367	1.00	98.50	C
ATOM	1201	O	ALA A 168	-17.797	-2.059	1.009	1.00	98.50	O
ATOM	1202	N	ASN A 169	-17.234	-3.633	2.486	1.00	98.50	N
ATOM	1203	CA	ASN A 169	-18.562	-4.234	2.527	1.00	98.50	C
ATOM	1204	C	ASN A 169	-19.125	-4.266	3.947	1.00	98.50	C
ATOM	1205	CB	ASN A 169	-18.531	-5.648	1.940	1.00	98.50	C
ATOM	1206	O	ASN A 169	-18.453	-4.723	4.875	1.00	98.50	O
ATOM	1207	CG	ASN A 169	-18.156	-5.664	0.471	1.00	98.50	C
ATOM	1208	ND2	ASN A 169	-17.125	-6.430	0.128	1.00	98.50	N
ATOM	1209	OD1	ASN A 169	-18.781	-4.984	-0.348	1.00	98.50	O
ATOM	1210	N	ALA A 170	-20.281	-3.762	4.105	1.00	98.50	N
ATOM	1211	CA	ALA A 170	-20.922	-3.734	5.418	1.00	98.50	C
ATOM	1212	C	ALA A 170	-22.297	-4.414	5.383	1.00	98.50	C
ATOM	1213	CB	ALA A 170	-21.062	-2.297	5.914	1.00	98.50	C
ATOM	1214	O	ALA A 170	-23.000	-4.332	4.379	1.00	98.50	O
ATOM	1215	N	THR A 171	-22.562	-5.090	6.453	1.00	98.25	N
ATOM	1216	CA	THR A 171	-23.844	-5.754	6.605	1.00	98.25	C
ATOM	1217	C	THR A 171	-24.438	-5.480	7.984	1.00	98.25	C
ATOM	1218	CB	THR A 171	-23.719	-7.273	6.391	1.00	98.25	C
ATOM	1219	O	THR A 171	-23.719	-5.488	8.984	1.00	98.25	O
ATOM	1220	CG2	THR A 171	-23.281	-7.594	4.965	1.00	98.25	C
ATOM	1221	OG1	THR A 171	-22.750	-7.801	7.309	1.00	98.25	O
ATOM	1222	N	VAL A 172	-25.703	-5.121	7.957	1.00	97.69	N
ATOM	1223	CA	VAL A 172	-26.438	-4.938	9.203	1.00	97.69	C
ATOM	1224	C	VAL A 172	-27.344	-6.148	9.453	1.00	97.69	C
ATOM	1225	CB	VAL A 172	-27.281	-3.646	9.172	1.00	97.69	C
ATOM	1226	O	VAL A 172	-28.094	-6.559	8.570	1.00	97.69	O
ATOM	1227	CG1	VAL A 172	-28.172	-3.553	10.414	1.00	97.69	C
ATOM	1228	CG2	VAL A 172	-26.391	-2.420	9.062	1.00	97.69	C
ATOM	1229	N	THR A 173	-27.219	-6.723	10.680	1.00	96.38	N
ATOM	1230	CA	THR A 173	-28.047	-7.879	11.008	1.00	96.38	C
ATOM	1231	C	THR A 173	-28.844	-7.629	12.281	1.00	96.38	C
ATOM	1232	CB	THR A 173	-27.188	-9.148	11.172	1.00	96.38	C
ATOM	1233	O	THR A 173	-28.469	-6.797	13.109	1.00	96.38	O
ATOM	1234	CG2	THR A 173	-26.484	-9.508	9.867	1.00	96.38	C
ATOM	1235	OG1	THR A 173	-26.219	-8.930	12.195	1.00	96.38	O
ATOM	1236	N	ASP A 174	-29.953	-8.281	12.367	1.00	91.69	N

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ATOM	1237	CA	ASP A 174	-30.719	-8.211	13.602	1.00	91.69	C
ATOM	1238	C	ASP A 174	-30.234	-9.242	14.617	1.00	91.69	C
ATOM	1239	CB	ASP A 174	-32.219	-8.430	13.312	1.00	91.69	C
ATOM	1240	O	ASP A 174	-29.188	-9.867	14.414	1.00	91.69	O
ATOM	1241	CG	ASP A 174	-32.500	-9.812	12.758	1.00	91.69	C
ATOM	1242	OD1	ASP A 174	-31.625	-10.695	12.805	1.00	91.69	O
ATOM	1243	OD2	ASP A 174	-33.656	-10.016	12.266	1.00	91.69	O
ATOM	1244	N	ALA A 175	-30.922	-9.367	15.812	1.00	89.69	N
ATOM	1245	CA	ALA A 175	-30.500	-10.234	16.906	1.00	89.69	C
ATOM	1246	C	ALA A 175	-30.453	-11.695	16.469	1.00	89.69	C
ATOM	1247	CB	ALA A 175	-31.422	-10.062	18.109	1.00	89.69	C
ATOM	1248	O	ALA A 175	-29.656	-12.484	16.984	1.00	89.69	O
ATOM	1249	N	ALA A 176	-31.344	-11.977	15.461	1.00	90.19	N
ATOM	1250	CA	ALA A 176	-31.438	-13.359	15.000	1.00	90.19	C
ATOM	1251	C	ALA A 176	-30.375	-13.648	13.945	1.00	90.19	C
ATOM	1252	CB	ALA A 176	-32.812	-13.648	14.438	1.00	90.19	C
ATOM	1253	O	ALA A 176	-30.219	-14.789	13.500	1.00	90.19	O
ATOM	1254	N	GLY A 177	-29.625	-12.625	13.562	1.00	91.25	N
ATOM	1255	CA	GLY A 177	-28.578	-12.797	12.578	1.00	91.25	C
ATOM	1256	C	GLY A 177	-29.047	-12.617	11.148	1.00	91.25	C
ATOM	1257	O	GLY A 177	-28.328	-12.930	10.203	1.00	91.25	O
ATOM	1258	N	ASN A 178	-30.281	-12.148	10.984	1.00	93.06	N
ATOM	1259	CA	ASN A 178	-30.781	-11.914	9.633	1.00	93.06	C
ATOM	1260	C	ASN A 178	-30.250	-10.602	9.062	1.00	93.06	C
ATOM	1261	CB	ASN A 178	-32.312	-11.914	9.625	1.00	93.06	C
ATOM	1262	O	ASN A 178	-30.203	-9.586	9.758	1.00	93.06	O
ATOM	1263	CG	ASN A 178	-32.906	-13.227	10.102	1.00	93.06	C
ATOM	1264	ND2	ASN A 178	-33.938	-13.148	10.930	1.00	93.06	N
ATOM	1265	OD1	ASN A 178	-32.438	-14.305	9.727	1.00	93.06	O
ATOM	1266	N	THR A 179	-29.938	-10.664	7.789	1.00	95.25	N
ATOM	1267	CA	THR A 179	-29.438	-9.469	7.121	1.00	95.25	C
ATOM	1268	C	THR A 179	-30.562	-8.484	6.852	1.00	95.25	C
ATOM	1269	CB	THR A 179	-28.734	-9.820	5.797	1.00	95.25	C
ATOM	1270	O	THR A 179	-31.578	-8.844	6.234	1.00	95.25	O
ATOM	1271	CG2	THR A 179	-28.234	-8.570	5.090	1.00	95.25	C
ATOM	1272	OG1	THR A 179	-27.609	-10.680	6.070	1.00	95.25	O
ATOM	1273	N	LEU A 180	-30.375	-7.277	7.305	1.00	94.75	N
ATOM	1274	CA	LEU A 180	-31.391	-6.242	7.129	1.00	94.75	C
ATOM	1275	C	LEU A 180	-31.016	-5.312	5.977	1.00	94.75	C
ATOM	1276	CB	LEU A 180	-31.562	-5.434	8.414	1.00	94.75	C
ATOM	1277	O	LEU A 180	-31.875	-4.953	5.164	1.00	94.75	O
ATOM	1278	CG	LEU A 180	-32.031	-6.215	9.648	1.00	94.75	C
ATOM	1279	CD1	LEU A 180	-31.953	-5.336	10.891	1.00	94.75	C
ATOM	1280	CD2	LEU A 180	-33.438	-6.750	9.445	1.00	94.75	C
ATOM	1281	N	LEU A 181	-29.703	-4.891	5.883	1.00	97.25	N
ATOM	1282	CA	LEU A 181	-29.172	-4.008	4.852	1.00	97.25	C
ATOM	1283	C	LEU A 181	-27.750	-4.418	4.477	1.00	97.25	C
ATOM	1284	CB	LEU A 181	-29.188	-2.553	5.332	1.00	97.25	C
ATOM	1285	O	LEU A 181	-27.000	-4.918	5.316	1.00	97.25	O
ATOM	1286	CG	LEU A 181	-30.562	-1.917	5.535	1.00	97.25	C
ATOM	1287	CD1	LEU A 181	-30.422	-0.574	6.246	1.00	97.25	C
ATOM	1288	CD2	LEU A 181	-31.266	-1.750	4.195	1.00	97.25	C
ATOM	1289	N	THR A 182	-27.484	-4.230	3.258	1.00	97.81	N

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ATOM	1290	CA	THR A 182	-26.109	-4.348	2.799	1.00	97.81	C
ATOM	1291	C	THR A 182	-25.703	-3.123	1.983	1.00	97.81	C
ATOM	1292	CB	THR A 182	-25.906	-5.617	1.954	1.00	97.81	C
ATOM	1293	O	THR A 182	-26.531	-2.516	1.311	1.00	97.81	O
ATOM	1294	CG2	THR A 182	-26.219	-6.871	2.764	1.00	97.81	C
ATOM	1295	OG1	THR A 182	-26.766	-5.570	0.813	1.00	97.81	O
ATOM	1296	N	ALA A 183	-24.516	-2.693	2.139	1.00	98.19	N
ATOM	1297	CA	ALA A 183	-23.938	-1.632	1.317	1.00	98.19	C
ATOM	1298	C	ALA A 183	-22.453	-1.895	1.043	1.00	98.19	C
ATOM	1299	CB	ALA A 183	-24.109	-0.276	1.996	1.00	98.19	C
ATOM	1300	O	ALA A 183	-21.766	-2.520	1.854	1.00	98.19	O
ATOM	1301	N	SER A 184	-22.047	-1.475	-0.125	1.00	98.31	N
ATOM	1302	CA	SER A 184	-20.641	-1.652	-0.477	1.00	98.31	C
ATOM	1303	C	SER A 184	-20.078	-0.417	-1.179	1.00	98.31	C
ATOM	1304	CB	SER A 184	-20.453	-2.879	-1.371	1.00	98.31	C
ATOM	1305	O	SER A 184	-20.812	0.275	-1.895	1.00	98.31	O
ATOM	1306	OG	SER A 184	-21.062	-2.672	-2.637	1.00	98.31	O
ATOM	1307	N	ALA A 185	-18.891	-0.047	-0.853	1.00	98.38	N
ATOM	1308	CA	ALA A 185	-18.172	1.049	-1.497	1.00	98.38	C
ATOM	1309	C	ALA A 185	-16.812	0.587	-2.002	1.00	98.38	C
ATOM	1310	CB	ALA A 185	-18.016	2.221	-0.532	1.00	98.38	C
ATOM	1311	O	ALA A 185	-16.109	-0.164	-1.317	1.00	98.38	O
ATOM	1312	N	THR A 186	-16.484	1.070	-3.191	1.00	98.38	N
ATOM	1313	CA	THR A 186	-15.227	0.683	-3.805	1.00	98.38	C
ATOM	1314	C	THR A 186	-14.406	1.914	-4.188	1.00	98.38	C
ATOM	1315	CB	THR A 186	-15.453	-0.194	-5.051	1.00	98.38	C
ATOM	1316	O	THR A 186	-14.906	2.799	-4.887	1.00	98.38	O
ATOM	1317	CG2	THR A 186	-14.125	-0.639	-5.656	1.00	98.38	C
ATOM	1318	OG1	THR A 186	-16.203	-1.354	-4.680	1.00	98.38	O
ATOM	1319	N	ALA A 187	-13.172	1.990	-3.693	1.00	98.19	N
ATOM	1320	CA	ALA A 187	-12.227	3.039	-4.078	1.00	98.19	C
ATOM	1321	C	ALA A 187	-11.055	2.461	-4.863	1.00	98.19	C
ATOM	1322	CB	ALA A 187	-11.727	3.775	-2.840	1.00	98.19	C
ATOM	1323	O	ALA A 187	-10.406	1.514	-4.418	1.00	98.19	O
ATOM	1324	N	THR A 188	-10.844	3.041	-6.008	1.00	97.88	N
ATOM	1325	CA	THR A 188	-9.773	2.562	-6.879	1.00	97.88	C
ATOM	1326	C	THR A 188	-8.758	3.668	-7.145	1.00	97.88	C
ATOM	1327	CB	THR A 188	-10.328	2.041	-8.211	1.00	97.88	C
ATOM	1328	O	THR A 188	-9.125	4.793	-7.477	1.00	97.88	O
ATOM	1329	CG2	THR A 188	-9.219	1.470	-9.086	1.00	97.88	C
ATOM	1330	OG1	THR A 188	-11.297	1.012	-7.957	1.00	97.88	O
ATOM	1331	N	ALA A 189	-7.441	3.336	-6.996	1.00	96.06	N
ATOM	1332	CA	ALA A 189	-6.371	4.297	-7.242	1.00	96.06	C
ATOM	1333	C	ALA A 189	-5.281	3.688	-8.125	1.00	96.06	C
ATOM	1334	CB	ALA A 189	-5.773	4.781	-5.926	1.00	96.06	C
ATOM	1335	O	ALA A 189	-5.121	2.465	-8.172	1.00	96.06	O
ATOM	1336	N	ASP A 190	-4.578	4.641	-8.820	1.00	93.44	N
ATOM	1337	CA	ASP A 190	-3.428	4.223	-9.617	1.00	93.44	C
ATOM	1338	C	ASP A 190	-2.188	4.059	-8.742	1.00	93.44	C
ATOM	1339	CB	ASP A 190	-3.154	5.230	-10.734	1.00	93.44	C
ATOM	1340	O	ASP A 190	-1.850	4.949	-7.961	1.00	93.44	O
ATOM	1341	CG	ASP A 190	-2.195	4.703	-11.789	1.00	93.44	C
ATOM	1342	OD1	ASP A 190	-1.263	3.947	-11.438	1.00	93.44	O

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ATOM	1343	OD2 ASP A 190	-2.371	5.047	-12.977	1.00	93.44	O
ATOM	1344	N LEU A 191	-1.523	2.973	-9.023	1.00	90.81	N
ATOM	1345	CA LEU A 191	-0.311	2.703	-8.258	1.00	90.81	C
ATOM	1346	C LEU A 191	0.834	3.596	-8.719	1.00	90.81	C
ATOM	1347	CB LEU A 191	0.090	1.230	-8.383	1.00	90.81	C
ATOM	1348	O LEU A 191	1.842	3.732	-8.023	1.00	90.81	O
ATOM	1349	CG LEU A 191	1.233	0.757	-7.488	1.00	90.81	C
ATOM	1350	CD1 LEU A 191	0.809	0.795	-6.023	1.00	90.81	C
ATOM	1351	CD2 LEU A 191	1.680	-0.646	-7.883	1.00	90.81	C
ATOM	1352	N THR A 192	0.594	4.293	-9.930	1.00	84.81	N
ATOM	1353	CA THR A 192	1.701	5.023	-10.531	1.00	84.81	C
ATOM	1354	C THR A 192	1.690	6.484	-10.094	1.00	84.81	C
ATOM	1355	CB THR A 192	1.646	4.945	-12.070	1.00	84.81	C
ATOM	1356	O THR A 192	2.562	7.262	-10.484	1.00	84.81	O
ATOM	1357	CG2 THR A 192	1.724	3.502	-12.555	1.00	84.81	C
ATOM	1358	OG1 THR A 192	0.418	5.527	-12.531	1.00	84.81	O
ATOM	1359	N SER A 193	0.741	6.879	-9.211	1.00	88.38	N
ATOM	1360	CA SER A 193	0.691	8.281	-8.812	1.00	88.38	C
ATOM	1361	C SER A 193	0.237	8.430	-7.367	1.00	88.38	C
ATOM	1362	CB SER A 193	-0.244	9.070	-9.734	1.00	88.38	C
ATOM	1363	O SER A 193	-0.373	7.516	-6.805	1.00	88.38	O
ATOM	1364	OG SER A 193	-1.562	8.547	-9.672	1.00	88.38	O
ATOM	1365	N ASN A 194	0.769	9.430	-6.699	1.00	94.88	N
ATOM	1366	CA ASN A 194	0.136	9.742	-5.422	1.00	94.88	C
ATOM	1367	C ASN A 194	-1.352	10.039	-5.594	1.00	94.88	C
ATOM	1368	CB ASN A 194	0.839	10.922	-4.754	1.00	94.88	C
ATOM	1369	O ASN A 194	-1.729	10.922	-6.363	1.00	94.88	O
ATOM	1370	CG ASN A 194	2.291	10.633	-4.426	1.00	94.88	C
ATOM	1371	ND2 ASN A 194	3.129	11.656	-4.480	1.00	94.88	N
ATOM	1372	OD1 ASN A 194	2.656	9.492	-4.133	1.00	94.88	O
ATOM	1373	N ASP A 195	-2.111	9.336	-4.875	1.00	94.19	N
ATOM	1374	CA ASP A 195	-3.543	9.539	-5.078	1.00	94.19	C
ATOM	1375	C ASP A 195	-4.328	9.227	-3.805	1.00	94.19	C
ATOM	1376	CB ASP A 195	-4.047	8.664	-6.230	1.00	94.19	C
ATOM	1377	O ASP A 195	-3.855	8.477	-2.949	1.00	94.19	O
ATOM	1378	CG ASP A 195	-5.340	9.180	-6.844	1.00	94.19	C
ATOM	1379	OD1 ASP A 195	-5.824	10.258	-6.430	1.00	94.19	O
ATOM	1380	OD2 ASP A 195	-5.883	8.500	-7.742	1.00	94.19	O
ATOM	1381	N THR A 196	-5.387	9.961	-3.643	1.00	97.12	N
ATOM	1382	CA THR A 196	-6.383	9.633	-2.629	1.00	97.12	C
ATOM	1383	C THR A 196	-7.773	9.539	-3.250	1.00	97.12	C
ATOM	1384	CB THR A 196	-6.391	10.672	-1.497	1.00	97.12	C
ATOM	1385	O THR A 196	-8.227	10.477	-3.910	1.00	97.12	O
ATOM	1386	CG2 THR A 196	-7.430	10.328	-0.436	1.00	97.12	C
ATOM	1387	OG1 THR A 196	-5.098	10.719	-0.885	1.00	97.12	O
ATOM	1388	N VAL A 197	-8.438	8.430	-3.059	1.00	97.69	N
ATOM	1389	CA VAL A 197	-9.773	8.242	-3.627	1.00	97.69	C
ATOM	1390	C VAL A 197	-10.758	7.867	-2.521	1.00	97.69	C
ATOM	1391	CB VAL A 197	-9.773	7.164	-4.730	1.00	97.69	C
ATOM	1392	O VAL A 197	-10.445	7.051	-1.651	1.00	97.69	O
ATOM	1393	CG1 VAL A 197	-11.172	7.004	-5.328	1.00	97.69	C
ATOM	1394	CG2 VAL A 197	-8.766	7.516	-5.820	1.00	97.69	C
ATOM	1395	N THR A 198	-11.938	8.477	-2.602	1.00	98.00	N

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ATOM	1396	CA	THR A 198	-12.984	8.180	-1.627	1.00	98.00	C
ATOM	1397	C	THR A 198	-14.273	7.770	-2.328	1.00	98.00	C
ATOM	1398	CB	THR A 198	-13.258	9.391	-0.714	1.00	98.00	C
ATOM	1399	O	THR A 198	-14.664	8.367	-3.332	1.00	98.00	O
ATOM	1400	CG2	THR A 198	-14.320	9.062	0.330	1.00	98.00	C
ATOM	1401	OG1	THR A 198	-12.039	9.758	-0.045	1.00	98.00	O
ATOM	1402	N	ALA A 199	-14.898	6.742	-1.867	1.00	97.62	N
ATOM	1403	CA	ALA A 199	-16.203	6.289	-2.369	1.00	97.62	C
ATOM	1404	C	ALA A 199	-17.188	6.086	-1.227	1.00	97.62	C
ATOM	1405	CB	ALA A 199	-16.031	5.000	-3.168	1.00	97.62	C
ATOM	1406	O	ALA A 199	-16.797	5.691	-0.124	1.00	97.62	O
ATOM	1407	N	THR A 200	-18.438	6.402	-1.537	1.00	98.06	N
ATOM	1408	CA	THR A 200	-19.469	6.293	-0.513	1.00	98.06	C
ATOM	1409	C	THR A 200	-20.703	5.574	-1.059	1.00	98.06	C
ATOM	1410	CB	THR A 200	-19.875	7.680	0.020	1.00	98.06	C
ATOM	1411	O	THR A 200	-21.078	5.766	-2.217	1.00	98.06	O
ATOM	1412	CG2	THR A 200	-20.938	7.559	1.113	1.00	98.06	C
ATOM	1413	OG1	THR A 200	-18.719	8.336	0.556	1.00	98.06	O
ATOM	1414	N	ALA A 201	-21.312	4.742	-0.283	1.00	97.62	N
ATOM	1415	CA	ALA A 201	-22.578	4.078	-0.613	1.00	97.62	C
ATOM	1416	C	ALA A 201	-23.531	4.105	0.572	1.00	97.62	C
ATOM	1417	CB	ALA A 201	-22.312	2.641	-1.055	1.00	97.62	C
ATOM	1418	O	ALA A 201	-23.109	3.988	1.725	1.00	97.62	O
ATOM	1419	N	THR A 202	-24.781	4.297	0.236	1.00	97.25	N
ATOM	1420	CA	THR A 202	-25.781	4.375	1.291	1.00	97.25	C
ATOM	1421	C	THR A 202	-26.969	3.451	0.988	1.00	97.25	C
ATOM	1422	CB	THR A 202	-26.297	5.816	1.472	1.00	97.25	C
ATOM	1423	O	THR A 202	-27.281	3.207	-0.177	1.00	97.25	O
ATOM	1424	CG2	THR A 202	-25.172	6.758	1.866	1.00	97.25	C
ATOM	1425	OG1	THR A 202	-26.875	6.270	0.241	1.00	97.25	O
ATOM	1426	N	ALA A 203	-27.547	2.746	1.991	1.00	96.81	N
ATOM	1427	CA	ALA A 203	-28.766	1.938	1.904	1.00	96.81	C
ATOM	1428	C	ALA A 203	-29.750	2.312	3.004	1.00	96.81	C
ATOM	1429	CB	ALA A 203	-28.422	0.452	1.986	1.00	96.81	C
ATOM	1430	O	ALA A 203	-29.359	2.510	4.156	1.00	96.81	O
ATOM	1431	N	THR A 204	-30.984	2.465	2.605	1.00	96.31	N
ATOM	1432	CA	THR A 204	-32.000	2.824	3.570	1.00	96.31	C
ATOM	1433	C	THR A 204	-33.219	1.909	3.430	1.00	96.31	C
ATOM	1434	CB	THR A 204	-32.438	4.289	3.400	1.00	96.31	C
ATOM	1435	O	THR A 204	-33.531	1.436	2.332	1.00	96.31	O
ATOM	1436	CG2	THR A 204	-31.281	5.242	3.627	1.00	96.31	C
ATOM	1437	OG1	THR A 204	-32.969	4.480	2.074	1.00	96.31	O
ATOM	1438	N	ALA A 205	-33.844	1.514	4.547	1.00	94.50	N
ATOM	1439	CA	ALA A 205	-35.062	0.729	4.539	1.00	94.50	C
ATOM	1440	C	ALA A 205	-36.000	1.178	5.652	1.00	94.50	C
ATOM	1441	CB	ALA A 205	-34.750	-0.758	4.684	1.00	94.50	C
ATOM	1442	O	ALA A 205	-35.562	1.534	6.746	1.00	94.50	O
ATOM	1443	N	THR A 206	-37.281	1.247	5.312	1.00	92.88	N
ATOM	1444	CA	THR A 206	-38.312	1.592	6.293	1.00	92.88	C
ATOM	1445	C	THR A 206	-39.406	0.521	6.344	1.00	92.88	C
ATOM	1446	CB	THR A 206	-38.938	2.959	5.984	1.00	92.88	C
ATOM	1447	O	THR A 206	-39.875	0.079	5.301	1.00	92.88	O
ATOM	1448	CG2	THR A 206	-39.969	3.354	7.059	1.00	92.88	C

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ATOM	1449	OG1 THR A 206	-37.906	3.955	5.922	1.00	92.88	O
ATOM	1450	N TYR A 207	-39.719	0.086	7.602	1.00	86.25	N
ATOM	1451	CA TYR A 207	-40.719	-0.944	7.797	1.00	86.25	C
ATOM	1452	C TYR A 207	-41.781	-0.487	8.789	1.00	86.25	C
ATOM	1453	CB TYR A 207	-40.094	-2.246	8.281	1.00	86.25	C
ATOM	1454	O TYR A 207	-41.500	0.251	9.734	1.00	86.25	O
ATOM	1455	CG TYR A 207	-38.969	-2.738	7.398	1.00	86.25	C
ATOM	1456	CD1 TYR A 207	-39.219	-3.584	6.320	1.00	86.25	C
ATOM	1457	CD2 TYR A 207	-37.656	-2.357	7.637	1.00	86.25	C
ATOM	1458	CE1 TYR A 207	-38.188	-4.039	5.504	1.00	86.25	C
ATOM	1459	CE2 TYR A 207	-36.594	-2.809	6.824	1.00	86.25	C
ATOM	1460	OH TYR A 207	-35.875	-4.098	4.957	1.00	86.25	O
ATOM	1461	CZ TYR A 207	-36.875	-3.646	5.762	1.00	86.25	C
ATOM	1462	N THR A 208	-43.031	-0.817	8.430	1.00	82.88	N
ATOM	1463	CA THR A 208	-44.125	-0.631	9.398	1.00	82.88	C
ATOM	1464	C THR A 208	-44.594	-1.974	9.945	1.00	82.88	C
ATOM	1465	CB THR A 208	-45.312	0.118	8.773	1.00	82.88	C
ATOM	1466	O THR A 208	-44.938	-2.873	9.188	1.00	82.88	O
ATOM	1467	CG2 THR A 208	-46.344	0.510	9.836	1.00	82.88	C
ATOM	1468	OG1 THR A 208	-44.844	1.303	8.125	1.00	82.88	O
ATOM	1469	N GLU A 209	-44.250	-2.197	11.266	1.00	70.38	N
ATOM	1470	CA GLU A 209	-44.750	-3.406	11.938	1.00	70.38	C
ATOM	1471	C GLU A 209	-45.406	-3.076	13.266	1.00	70.38	C
ATOM	1472	CB GLU A 209	-43.594	-4.391	12.148	1.00	70.38	C
ATOM	1473	O GLU A 209	-44.812	-2.430	14.125	1.00	70.38	O
ATOM	1474	CG GLU A 209	-44.031	-5.777	12.586	1.00	70.38	C
ATOM	1475	CD GLU A 209	-42.875	-6.750	12.766	1.00	70.38	C
ATOM	1476	OE1 GLU A 209	-43.125	-7.965	12.945	1.00	70.38	O
ATOM	1477	OE2 GLU A 209	-41.719	-6.297	12.742	1.00	70.38	O
ATOM	1478	N GLY A 210	-46.719	-3.568	13.430	1.00	73.19	N
ATOM	1479	CA GLY A 210	-47.375	-3.500	14.711	1.00	73.19	C
ATOM	1480	C GLY A 210	-47.594	-2.080	15.195	1.00	73.19	C
ATOM	1481	O GLY A 210	-47.500	-1.812	16.406	1.00	73.19	O
ATOM	1482	N GLY A 211	-47.812	-1.068	14.242	1.00	78.19	N
ATOM	1483	CA GLY A 211	-48.031	0.312	14.633	1.00	78.19	C
ATOM	1484	C GLY A 211	-46.750	1.078	14.898	1.00	78.19	C
ATOM	1485	O GLY A 211	-46.781	2.184	15.445	1.00	78.19	O
ATOM	1486	N LYS A 212	-45.562	0.412	14.602	1.00	82.94	N
ATOM	1487	CA LYS A 212	-44.219	1.008	14.742	1.00	82.94	C
ATOM	1488	C LYS A 212	-43.625	1.307	13.375	1.00	82.94	C
ATOM	1489	CB LYS A 212	-43.312	0.085	15.539	1.00	82.94	C
ATOM	1490	O LYS A 212	-43.875	0.592	12.406	1.00	82.94	O
ATOM	1491	CG LYS A 212	-43.844	-0.306	16.906	1.00	82.94	C
ATOM	1492	CD LYS A 212	-42.969	-1.350	17.578	1.00	82.94	C
ATOM	1493	CE LYS A 212	-43.594	-1.845	18.875	1.00	82.94	C
ATOM	1494	NZ LYS A 212	-42.781	-2.943	19.500	1.00	82.94	N
ATOM	1495	N THR A 213	-43.062	2.475	13.258	1.00	89.94	N
ATOM	1496	CA THR A 213	-42.219	2.711	12.109	1.00	89.94	C
ATOM	1497	C THR A 213	-40.750	2.461	12.469	1.00	89.94	C
ATOM	1498	CB THR A 213	-42.375	4.145	11.570	1.00	89.94	C
ATOM	1499	O THR A 213	-40.250	3.021	13.445	1.00	89.94	O
ATOM	1500	CG2 THR A 213	-41.531	4.363	10.320	1.00	89.94	C
ATOM	1501	OG1 THR A 213	-43.750	4.375	11.250	1.00	89.94	O

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ATOM	1502	N	VAL A 214	-40.094	1.601	11.688	1.00	91.56	N
ATOM	1503	CA	VAL A 214	-38.656	1.332	11.875	1.00	91.56	C
ATOM	1504	C	VAL A 214	-37.875	1.764	10.633	1.00	91.56	C
ATOM	1505	CB	VAL A 214	-38.406	-0.161	12.172	1.00	91.56	C
ATOM	1506	O	VAL A 214	-38.219	1.363	9.516	1.00	91.56	O
ATOM	1507	CG1	VAL A 214	-36.906	-0.397	12.492	1.00	91.56	C
ATOM	1508	CG2	VAL A 214	-39.281	-0.635	13.328	1.00	91.56	C
ATOM	1509	N	THR A 215	-36.906	2.594	10.844	1.00	94.12	N
ATOM	1510	CA	THR A 215	-36.031	3.043	9.758	1.00	94.12	C
ATOM	1511	C	THR A 215	-34.594	2.600	9.984	1.00	94.12	C
ATOM	1512	CB	THR A 215	-36.094	4.574	9.602	1.00	94.12	C
ATOM	1513	O	THR A 215	-34.031	2.816	11.062	1.00	94.12	O
ATOM	1514	CG2	THR A 215	-35.250	5.035	8.414	1.00	94.12	C
ATOM	1515	OG1	THR A 215	-37.438	4.984	9.398	1.00	94.12	O
ATOM	1516	N	TYR A 216	-34.000	1.984	8.969	1.00	94.88	N
ATOM	1517	CA	TYR A 216	-32.594	1.602	8.977	1.00	94.88	C
ATOM	1518	C	TYR A 216	-31.781	2.447	7.996	1.00	94.88	C
ATOM	1519	CB	TYR A 216	-32.438	0.117	8.641	1.00	94.88	C
ATOM	1520	O	TYR A 216	-32.219	2.682	6.867	1.00	94.88	O
ATOM	1521	CG	TYR A 216	-33.156	-0.804	9.594	1.00	94.88	C
ATOM	1522	CD1	TYR A 216	-32.531	-1.277	10.742	1.00	94.88	C
ATOM	1523	CD2	TYR A 216	-34.469	-1.203	9.344	1.00	94.88	C
ATOM	1524	CE1	TYR A 216	-33.188	-2.129	11.625	1.00	94.88	C
ATOM	1525	CE2	TYR A 216	-35.125	-2.053	10.219	1.00	94.88	C
ATOM	1526	OH	TYR A 216	-35.125	-3.352	12.227	1.00	94.88	O
ATOM	1527	CZ	TYR A 216	-34.469	-2.510	11.352	1.00	94.88	C
ATOM	1528	N	ASN A 217	-30.641	2.898	8.422	1.00	97.00	N
ATOM	1529	CA	ASN A 217	-29.703	3.584	7.543	1.00	97.00	C
ATOM	1530	C	ASN A 217	-28.297	2.982	7.645	1.00	97.00	C
ATOM	1531	CB	ASN A 217	-29.656	5.082	7.863	1.00	97.00	C
ATOM	1532	O	ASN A 217	-27.797	2.768	8.742	1.00	97.00	O
ATOM	1533	CG	ASN A 217	-30.953	5.793	7.492	1.00	97.00	C
ATOM	1534	ND2	ASN A 217	-31.594	6.406	8.477	1.00	97.00	N
ATOM	1535	OD1	ASN A 217	-31.359	5.789	6.332	1.00	97.00	O
ATOM	1536	N	LEU A 218	-27.750	2.730	6.539	1.00	98.31	N
ATOM	1537	CA	LEU A 218	-26.375	2.234	6.480	1.00	98.31	C
ATOM	1538	C	LEU A 218	-25.547	3.043	5.484	1.00	98.31	C
ATOM	1539	CB	LEU A 218	-26.359	0.754	6.090	1.00	98.31	C
ATOM	1540	O	LEU A 218	-25.938	3.195	4.324	1.00	98.31	O
ATOM	1541	CG	LEU A 218	-24.984	0.139	5.820	1.00	98.31	C
ATOM	1542	CD1	LEU A 218	-24.125	0.198	7.078	1.00	98.31	C
ATOM	1543	CD2	LEU A 218	-25.125	-1.298	5.332	1.00	98.31	C
ATOM	1544	N	THR A 219	-24.453	3.613	5.957	1.00	98.38	N
ATOM	1545	CA	THR A 219	-23.516	4.336	5.113	1.00	98.38	C
ATOM	1546	C	THR A 219	-22.125	3.695	5.188	1.00	98.38	C
ATOM	1547	CB	THR A 219	-23.422	5.816	5.527	1.00	98.38	C
ATOM	1548	O	THR A 219	-21.609	3.449	6.277	1.00	98.38	O
ATOM	1549	CG2	THR A 219	-22.484	6.586	4.602	1.00	98.38	C
ATOM	1550	OG1	THR A 219	-24.719	6.410	5.461	1.00	98.38	O
ATOM	1551	N	VAL A 220	-21.562	3.420	4.051	1.00	98.50	N
ATOM	1552	CA	VAL A 220	-20.219	2.859	3.990	1.00	98.50	C
ATOM	1553	C	VAL A 220	-19.297	3.793	3.197	1.00	98.50	C
ATOM	1554	CB	VAL A 220	-20.219	1.451	3.357	1.00	98.50	C

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ATOM	1555	O	VAL A 220	-19.672	4.266	2.119	1.00	98.50	O
ATOM	1556	CG1	VAL A 220	-18.797	0.874	3.320	1.00	98.50	C
ATOM	1557	CG2	VAL A 220	-21.156	0.522	4.125	1.00	98.50	C
ATOM	1558	N	ASN A 221	-18.125	4.074	3.742	1.00	98.44	N
ATOM	1559	CA	ASN A 221	-17.094	4.875	3.084	1.00	98.44	C
ATOM	1560	C	ASN A 221	-15.797	4.082	2.900	1.00	98.44	C
ATOM	1561	CB	ASN A 221	-16.828	6.156	3.873	1.00	98.44	C
ATOM	1562	O	ASN A 221	-15.344	3.410	3.824	1.00	98.44	O
ATOM	1563	CG	ASN A 221	-18.031	7.062	3.947	1.00	98.44	C
ATOM	1564	ND2	ASN A 221	-18.609	7.195	5.141	1.00	98.44	N
ATOM	1565	OD1	ASN A 221	-18.469	7.637	2.941	1.00	98.44	O
ATOM	1566	N	ALA A 222	-15.258	4.156	1.772	1.00	98.50	N
ATOM	1567	CA	ALA A 222	-13.938	3.592	1.492	1.00	98.50	C
ATOM	1568	C	ALA A 222	-12.977	4.672	1.008	1.00	98.50	C
ATOM	1569	CB	ALA A 222	-14.047	2.475	0.457	1.00	98.50	C
ATOM	1570	O	ALA A 222	-13.250	5.367	0.028	1.00	98.50	O
ATOM	1571	N	THR A 223	-11.867	4.797	1.727	1.00	98.62	N
ATOM	1572	CA	THR A 223	-10.836	5.742	1.328	1.00	98.62	C
ATOM	1573	C	THR A 223	-9.508	5.020	1.079	1.00	98.62	C
ATOM	1574	CB	THR A 223	-10.633	6.836	2.395	1.00	98.62	C
ATOM	1575	O	THR A 223	-9.047	4.262	1.930	1.00	98.62	O
ATOM	1576	CG2	THR A 223	-9.586	7.855	1.948	1.00	98.62	C
ATOM	1577	OG1	THR A 223	-11.875	7.508	2.623	1.00	98.62	O
ATOM	1578	N	LEU A 224	-8.922	5.289	-0.051	1.00	98.38	N
ATOM	1579	CA	LEU A 224	-7.652	4.680	-0.435	1.00	98.38	C
ATOM	1580	C	LEU A 224	-6.609	5.746	-0.749	1.00	98.38	C
ATOM	1581	CB	LEU A 224	-7.844	3.764	-1.646	1.00	98.38	C
ATOM	1582	O	LEU A 224	-6.852	6.633	-1.571	1.00	98.38	O
ATOM	1583	CG	LEU A 224	-6.609	2.998	-2.117	1.00	98.38	C
ATOM	1584	CD1	LEU A 224	-6.129	2.041	-1.030	1.00	98.38	C
ATOM	1585	CD2	LEU A 224	-6.906	2.242	-3.408	1.00	98.38	C
ATOM	1586	N	THR A 225	-5.531	5.684	-0.060	1.00	98.19	N
ATOM	1587	CA	THR A 225	-4.418	6.602	-0.279	1.00	98.19	C
ATOM	1588	C	THR A 225	-3.172	5.844	-0.727	1.00	98.19	C
ATOM	1589	CB	THR A 225	-4.102	7.406	0.994	1.00	98.19	C
ATOM	1590	O	THR A 225	-2.756	4.883	-0.075	1.00	98.19	O
ATOM	1591	CG2	THR A 225	-2.979	8.414	0.744	1.00	98.19	C
ATOM	1592	OG1	THR A 225	-5.273	8.117	1.410	1.00	98.19	O
ATOM	1593	N	VAL A 226	-2.582	6.316	-1.850	1.00	98.00	N
ATOM	1594	CA	VAL A 226	-1.339	5.758	-2.367	1.00	98.00	C
ATOM	1595	C	VAL A 226	-0.253	6.828	-2.379	1.00	98.00	C
ATOM	1596	CB	VAL A 226	-1.525	5.172	-3.785	1.00	98.00	C
ATOM	1597	O	VAL A 226	-0.440	7.906	-2.953	1.00	98.00	O
ATOM	1598	CG1	VAL A 226	-0.198	4.656	-4.336	1.00	98.00	C
ATOM	1599	CG2	VAL A 226	-2.570	4.059	-3.770	1.00	98.00	C
ATOM	1600	N	LYS A 227	0.800	6.520	-1.681	1.00	97.56	N
ATOM	1601	CA	LYS A 227	1.965	7.398	-1.686	1.00	97.56	C
ATOM	1602	C	LYS A 227	3.191	6.684	-2.246	1.00	97.56	C
ATOM	1603	CB	LYS A 227	2.258	7.910	-0.274	1.00	97.56	C
ATOM	1604	O	LYS A 227	3.611	5.652	-1.717	1.00	97.56	O
ATOM	1605	CG	LYS A 227	1.228	8.898	0.251	1.00	97.56	C
ATOM	1606	CD	LYS A 227	1.670	9.523	1.569	1.00	97.56	C
ATOM	1607	CE	LYS A 227	0.634	10.500	2.102	1.00	97.56	C

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ATOM	1608	NZ	LYS A 227	1.057	11.102	3.402	1.00	97.56	N
ATOM	1609	N	LYS A 228	3.729	7.328	-3.229	1.00	94.88	N
ATOM	1610	CA	LYS A 228	4.855	6.707	-3.926	1.00	94.88	C
ATOM	1611	C	LYS A 228	6.121	7.547	-3.773	1.00	94.88	C
ATOM	1612	CB	LYS A 228	4.527	6.516	-5.406	1.00	94.88	C
ATOM	1613	O	LYS A 228	6.062	8.773	-3.779	1.00	94.88	O
ATOM	1614	CG	LYS A 228	5.645	5.867	-6.207	1.00	94.88	C
ATOM	1615	CD	LYS A 228	5.309	5.812	-7.691	1.00	94.88	C
ATOM	1616	CE	LYS A 228	6.457	5.227	-8.508	1.00	94.88	C
ATOM	1617	NZ	LYS A 228	6.160	5.234	-9.969	1.00	94.88	N
ATOM	1618	N	GLU A 229	7.188	6.898	-3.650	1.00	94.44	N
ATOM	1619	CA	GLU A 229	8.508	7.516	-3.631	1.00	94.44	C
ATOM	1620	C	GLU A 229	9.484	6.762	-4.531	1.00	94.44	C
ATOM	1621	CB	GLU A 229	9.055	7.574	-2.201	1.00	94.44	C
ATOM	1622	O	GLU A 229	9.586	5.539	-4.457	1.00	94.44	O
ATOM	1623	CG	GLU A 229	8.250	8.477	-1.272	1.00	94.44	C
ATOM	1624	CD	GLU A 229	8.797	8.516	0.146	1.00	94.44	C
ATOM	1625	OE1	GLU A 229	8.188	9.180	1.013	1.00	94.44	O
ATOM	1626	OE2	GLU A 229	9.844	7.867	0.393	1.00	94.44	O
ATOM	1627	N	GLU A 230	10.086	7.531	-5.336	1.00	94.38	N
ATOM	1628	CA	GLU A 230	11.125	6.949	-6.184	1.00	94.38	C
ATOM	1629	C	GLU A 230	12.430	7.738	-6.086	1.00	94.38	C
ATOM	1630	CB	GLU A 230	10.648	6.891	-7.641	1.00	94.38	C
ATOM	1631	O	GLU A 230	12.414	8.969	-6.109	1.00	94.38	O
ATOM	1632	CG	GLU A 230	11.586	6.117	-8.562	1.00	94.38	C
ATOM	1633	CD	GLU A 230	11.078	6.016	-9.984	1.00	94.38	C
ATOM	1634	OE1	GLU A 230	11.734	5.359	-10.820	1.00	94.38	O
ATOM	1635	OE2	GLU A 230	10.000	6.594	-10.273	1.00	94.38	O
ATOM	1636	N	LYS A 231	13.477	7.059	-5.965	1.00	95.06	N
ATOM	1637	CA	LYS A 231	14.789	7.684	-5.844	1.00	95.06	C
ATOM	1638	C	LYS A 231	15.820	6.953	-6.695	1.00	95.06	C
ATOM	1639	CB	LYS A 231	15.234	7.711	-4.383	1.00	95.06	C
ATOM	1640	O	LYS A 231	15.891	5.723	-6.676	1.00	95.06	O
ATOM	1641	CG	LYS A 231	16.516	8.492	-4.145	1.00	95.06	C
ATOM	1642	CD	LYS A 231	16.891	8.523	-2.666	1.00	95.06	C
ATOM	1643	CE	LYS A 231	18.188	9.289	-2.428	1.00	95.06	C
ATOM	1644	NZ	LYS A 231	18.562	9.312	-0.981	1.00	95.06	N
ATOM	1645	N	VAL A 232	16.578	7.738	-7.488	1.00	95.81	N
ATOM	1646	CA	VAL A 232	17.672	7.164	-8.250	1.00	95.81	C
ATOM	1647	C	VAL A 232	18.984	7.836	-7.852	1.00	95.81	C
ATOM	1648	CB	VAL A 232	17.453	7.309	-9.773	1.00	95.81	C
ATOM	1649	O	VAL A 232	19.078	9.062	-7.809	1.00	95.81	O
ATOM	1650	CG1	VAL A 232	18.641	6.746	-10.555	1.00	95.81	C
ATOM	1651	CG2	VAL A 232	16.156	6.613	-10.188	1.00	95.81	C
ATOM	1652	N	GLU A 233	19.938	7.066	-7.496	1.00	96.69	N
ATOM	1653	CA	GLU A 233	21.266	7.547	-7.133	1.00	96.69	C
ATOM	1654	C	GLU A 233	22.328	6.938	-8.031	1.00	96.69	C
ATOM	1655	CB	GLU A 233	21.562	7.234	-5.664	1.00	96.69	C
ATOM	1656	O	GLU A 233	22.281	5.746	-8.336	1.00	96.69	O
ATOM	1657	CG	GLU A 233	20.641	7.953	-4.684	1.00	96.69	C
ATOM	1658	CD	GLU A 233	20.953	7.617	-3.229	1.00	96.69	C
ATOM	1659	OE1	GLU A 233	20.312	8.219	-2.326	1.00	96.69	O
ATOM	1660	OE2	GLU A 233	21.812	6.750	-2.992	1.00	96.69	O

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ATOM	1661	N	THR A 234	23.297	7.805	-8.406	1.00	96.44	N
ATOM	1662	CA	THR A 234	24.375	7.312	-9.250	1.00	96.44	C
ATOM	1663	C	THR A 234	25.734	7.637	-8.633	1.00	96.44	C
ATOM	1664	CB	THR A 234	24.297	7.906	-10.664	1.00	96.44	C
ATOM	1665	O	THR A 234	25.906	8.703	-8.039	1.00	96.44	O
ATOM	1666	CG2	THR A 234	23.000	7.512	-11.359	1.00	96.44	C
ATOM	1667	OG1	THR A 234	24.359	9.336	-10.578	1.00	96.44	O
ATOM	1668	N	GLU A 235	26.578	6.797	-8.672	1.00	96.50	N
ATOM	1669	CA	GLU A 235	27.953	6.977	-8.234	1.00	96.50	C
ATOM	1670	C	GLU A 235	28.938	6.516	-9.305	1.00	96.50	C
ATOM	1671	CB	GLU A 235	28.219	6.219	-6.930	1.00	96.50	C
ATOM	1672	O	GLU A 235	28.844	5.395	-9.812	1.00	96.50	O
ATOM	1673	CG	GLU A 235	29.594	6.473	-6.332	1.00	96.50	C
ATOM	1674	CD	GLU A 235	29.844	5.680	-5.059	1.00	96.50	C
ATOM	1675	OE1	GLU A 235	30.859	5.938	-4.375	1.00	96.50	O
ATOM	1676	OE2	GLU A 235	29.016	4.797	-4.738	1.00	96.50	O
ATOM	1677	N	VAL A 236	29.906	7.418	-9.648	1.00	96.25	N
ATOM	1678	CA	VAL A 236	30.922	7.094	-10.641	1.00	96.25	C
ATOM	1679	C	VAL A 236	32.312	7.195	-10.000	1.00	96.25	C
ATOM	1680	CB	VAL A 236	30.844	8.016	-11.875	1.00	96.25	C
ATOM	1681	O	VAL A 236	32.656	8.219	-9.414	1.00	96.25	O
ATOM	1682	CG1	VAL A 236	31.922	7.664	-12.891	1.00	96.25	C
ATOM	1683	CG2	VAL A 236	29.453	7.930	-12.508	1.00	96.25	C
ATOM	1684	N	LYS A 237	33.031	6.156	-10.039	1.00	96.94	N
ATOM	1685	CA	LYS A 237	34.438	6.152	-9.570	1.00	96.94	C
ATOM	1686	C	LYS A 237	35.375	5.785	-10.695	1.00	96.94	C
ATOM	1687	CB	LYS A 237	34.594	5.180	-8.406	1.00	96.94	C
ATOM	1688	O	LYS A 237	35.250	4.742	-11.336	1.00	96.94	O
ATOM	1689	CG	LYS A 237	33.906	5.625	-7.125	1.00	96.94	C
ATOM	1690	CD	LYS A 237	34.188	4.660	-5.977	1.00	96.94	C
ATOM	1691	CE	LYS A 237	33.438	5.070	-4.711	1.00	96.94	C
ATOM	1692	NZ	LYS A 237	33.688	4.125	-3.584	1.00	96.94	N
ATOM	1693	N	VAL A 238	36.375	6.648	-10.945	1.00	95.81	N
ATOM	1694	CA	VAL A 238	37.375	6.418	-11.984	1.00	95.81	C
ATOM	1695	C	VAL A 238	38.750	6.277	-11.352	1.00	95.81	C
ATOM	1696	CB	VAL A 238	37.375	7.559	-13.023	1.00	95.81	C
ATOM	1697	O	VAL A 238	39.188	7.137	-10.578	1.00	95.81	O
ATOM	1698	CG1	VAL A 238	38.406	7.293	-14.117	1.00	95.81	C
ATOM	1699	CG2	VAL A 238	36.000	7.730	-13.633	1.00	95.81	C
ATOM	1700	N	GLU A 239	39.375	5.207	-11.594	1.00	96.25	N
ATOM	1701	CA	GLU A 239	40.719	4.969	-11.133	1.00	96.25	C
ATOM	1702	C	GLU A 239	41.688	4.742	-12.305	1.00	96.25	C
ATOM	1703	CB	GLU A 239	40.781	3.770	-10.180	1.00	96.25	C
ATOM	1704	O	GLU A 239	41.375	3.967	-13.219	1.00	96.25	O
ATOM	1705	CG	GLU A 239	39.969	3.973	-8.898	1.00	96.25	C
ATOM	1706	CD	GLU A 239	40.031	2.781	-7.957	1.00	96.25	C
ATOM	1707	OE1	GLU A 239	39.531	2.879	-6.812	1.00	96.25	O
ATOM	1708	OE2	GLU A 239	40.594	1.740	-8.359	1.00	96.25	O
ATOM	1709	N	LYS A 240	42.719	5.402	-12.234	1.00	94.75	N
ATOM	1710	CA	LYS A 240	43.719	5.336	-13.273	1.00	94.75	C
ATOM	1711	C	LYS A 240	45.031	4.785	-12.719	1.00	94.75	C
ATOM	1712	CB	LYS A 240	43.969	6.715	-13.891	1.00	94.75	C
ATOM	1713	O	LYS A 240	45.531	5.238	-11.680	1.00	94.75	O

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ATOM	1714	CG	LYS A 240	45.000	6.730	-15.008	1.00	94.75	C
ATOM	1715	CD	LYS A 240	45.219	8.141	-15.547	1.00	94.75	C
ATOM	1716	CE	LYS A 240	46.312	8.172	-16.594	1.00	94.75	C
ATOM	1717	NZ	LYS A 240	46.562	9.547	-17.125	1.00	94.75	N
ATOM	1718	N	GLU A 241	45.562	3.725	-13.391	1.00	94.94	N
ATOM	1719	CA	GLU A 241	46.812	3.111	-13.031	1.00	94.94	C
ATOM	1720	C	GLU A 241	47.781	3.076	-14.227	1.00	94.94	C
ATOM	1721	CB	GLU A 241	46.594	1.696	-12.484	1.00	94.94	C
ATOM	1722	O	GLU A 241	47.375	2.736	-15.336	1.00	94.94	O
ATOM	1723	CG	GLU A 241	45.812	1.649	-11.195	1.00	94.94	C
ATOM	1724	CD	GLU A 241	45.594	0.238	-10.664	1.00	94.94	C
ATOM	1725	OE1	GLU A 241	45.000	0.078	-9.578	1.00	94.94	O
ATOM	1726	OE2	GLU A 241	46.062	-0.715	-11.344	1.00	94.94	O
ATOM	1727	N	GLU A 242	49.000	3.451	-13.953	1.00	93.50	N
ATOM	1728	CA	GLU A 242	50.000	3.406	-15.000	1.00	93.50	C
ATOM	1729	C	GLU A 242	51.156	2.469	-14.625	1.00	93.50	C
ATOM	1730	CB	GLU A 242	50.562	4.809	-15.281	1.00	93.50	C
ATOM	1731	O	GLU A 242	51.594	2.463	-13.477	1.00	93.50	O
ATOM	1732	CG	GLU A 242	49.500	5.797	-15.750	1.00	93.50	C
ATOM	1733	CD	GLU A 242	50.062	7.176	-16.062	1.00	93.50	C
ATOM	1734	OE1	GLU A 242	49.250	8.086	-16.406	1.00	93.50	O
ATOM	1735	OE2	GLU A 242	51.281	7.344	-15.969	1.00	93.50	O
ATOM	1736	N	GLU A 243	51.500	1.725	-15.523	1.00	93.12	N
ATOM	1737	CA	GLU A 243	52.656	0.857	-15.281	1.00	93.12	C
ATOM	1738	C	GLU A 243	53.438	0.616	-16.562	1.00	93.12	C
ATOM	1739	CB	GLU A 243	52.219	-0.478	-14.680	1.00	93.12	C
ATOM	1740	O	GLU A 243	52.938	0.833	-17.656	1.00	93.12	O
ATOM	1741	CG	GLU A 243	51.312	-1.303	-15.617	1.00	93.12	C
ATOM	1742	CD	GLU A 243	50.844	-2.609	-14.992	1.00	93.12	C
ATOM	1743	OE1	GLU A 243	49.719	-3.051	-15.297	1.00	93.12	O
ATOM	1744	OE2	GLU A 243	51.625	-3.195	-14.195	1.00	93.12	O
ATOM	1745	N	VAL A 244	54.812	0.306	-16.484	1.00	90.00	N
ATOM	1746	CA	VAL A 244	55.656	-0.056	-17.609	1.00	90.00	C
ATOM	1747	C	VAL A 244	55.875	-1.565	-17.625	1.00	90.00	C
ATOM	1748	CB	VAL A 244	57.000	0.690	-17.578	1.00	90.00	C
ATOM	1749	O	VAL A 244	56.406	-2.129	-16.656	1.00	90.00	O
ATOM	1750	CG1	VAL A 244	57.875	0.288	-18.766	1.00	90.00	C
ATOM	1751	CG2	VAL A 244	56.781	2.201	-17.562	1.00	90.00	C
ATOM	1752	N	ILE A 245	55.344	-2.176	-18.688	1.00	84.19	N
ATOM	1753	CA	ILE A 245	55.531	-3.607	-18.859	1.00	84.19	C
ATOM	1754	C	ILE A 245	56.312	-3.855	-20.156	1.00	84.19	C
ATOM	1755	CB	ILE A 245	54.188	-4.371	-18.906	1.00	84.19	C
ATOM	1756	O	ILE A 245	55.875	-3.473	-21.234	1.00	84.19	O
ATOM	1757	CG1	ILE A 245	53.375	-4.090	-17.625	1.00	84.19	C
ATOM	1758	CG2	ILE A 245	54.438	-5.875	-19.078	1.00	84.19	C
ATOM	1759	CD1	ILE A 245	51.969	-4.609	-17.672	1.00	84.19	C
ATOM	1760	N	ASP A 246	57.500	-4.578	-20.031	1.00	85.38	N
ATOM	1761	CA	ASP A 246	58.312	-4.988	-21.188	1.00	85.38	C
ATOM	1762	C	ASP A 246	58.625	-3.797	-22.078	1.00	85.38	C
ATOM	1763	CB	ASP A 246	57.594	-6.066	-21.984	1.00	85.38	C
ATOM	1764	O	ASP A 246	58.562	-3.900	-23.312	1.00	85.38	O
ATOM	1765	CG	ASP A 246	57.406	-7.363	-21.219	1.00	85.38	C
ATOM	1766	OD1	ASP A 246	58.250	-7.676	-20.344	1.00	85.38	O

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ATOM	1767	OD2 ASP A 246	56.406	-8.078	-21.484	1.00	85.38	O
ATOM	1768	N GLY A 247	58.906	-2.645	-21.516	1.00	84.38	N
ATOM	1769	CA GLY A 247	59.312	-1.452	-22.234	1.00	84.38	C
ATOM	1770	C GLY A 247	58.156	-0.678	-22.812	1.00	84.38	C
ATOM	1771	O GLY A 247	58.344	0.317	-23.516	1.00	84.38	O
ATOM	1772	N VAL A 248	56.844	-1.159	-22.656	1.00	86.62	N
ATOM	1773	CA VAL A 248	55.625	-0.521	-23.141	1.00	86.62	C
ATOM	1774	C VAL A 248	54.875	0.090	-21.953	1.00	86.62	C
ATOM	1775	CB VAL A 248	54.719	-1.521	-23.875	1.00	86.62	C
ATOM	1776	O VAL A 248	54.656	-0.579	-20.938	1.00	86.62	O
ATOM	1777	CG1 VAL A 248	53.438	-0.833	-24.375	1.00	86.62	C
ATOM	1778	CG2 VAL A 248	55.469	-2.152	-25.047	1.00	86.62	C
ATOM	1779	N LYS A 249	54.562	1.312	-21.984	1.00	89.94	N
ATOM	1780	CA LYS A 249	53.750	1.976	-21.000	1.00	89.94	C
ATOM	1781	C LYS A 249	52.281	1.518	-21.109	1.00	89.94	C
ATOM	1782	CB LYS A 249	53.812	3.494	-21.141	1.00	89.94	C
ATOM	1783	O LYS A 249	51.719	1.544	-22.203	1.00	89.94	O
ATOM	1784	CG LYS A 249	53.188	4.270	-20.000	1.00	89.94	C
ATOM	1785	CD LYS A 249	53.469	5.762	-20.109	1.00	89.94	C
ATOM	1786	CE LYS A 249	52.875	6.531	-18.938	1.00	89.94	C
ATOM	1787	NZ LYS A 249	53.188	7.988	-19.016	1.00	89.94	N
ATOM	1788	N VAL A 250	51.688	1.074	-20.078	1.00	92.81	N
ATOM	1789	CA VAL A 250	50.281	0.633	-20.016	1.00	92.81	C
ATOM	1790	C VAL A 250	49.469	1.576	-19.125	1.00	92.81	C
ATOM	1791	CB VAL A 250	50.188	-0.818	-19.500	1.00	92.81	C
ATOM	1792	O VAL A 250	49.812	1.789	-17.969	1.00	92.81	O
ATOM	1793	CG1 VAL A 250	48.719	-1.270	-19.484	1.00	92.81	C
ATOM	1794	CG2 VAL A 250	51.000	-1.759	-20.359	1.00	92.81	C
ATOM	1795	N ILE A 251	48.500	2.082	-19.641	1.00	92.88	N
ATOM	1796	CA ILE A 251	47.562	2.893	-18.891	1.00	92.88	C
ATOM	1797	C ILE A 251	46.250	2.104	-18.688	1.00	92.88	C
ATOM	1798	CB ILE A 251	47.250	4.223	-19.609	1.00	92.88	C
ATOM	1799	O ILE A 251	45.594	1.726	-19.641	1.00	92.88	O
ATOM	1800	CG1 ILE A 251	48.562	5.016	-19.828	1.00	92.88	C
ATOM	1801	CG2 ILE A 251	46.219	5.051	-18.828	1.00	92.88	C
ATOM	1802	CD1 ILE A 251	48.375	6.250	-20.703	1.00	92.88	C
ATOM	1803	N THR A 252	46.000	1.821	-17.516	1.00	94.75	N
ATOM	1804	CA THR A 252	44.750	1.151	-17.188	1.00	94.75	C
ATOM	1805	C THR A 252	43.781	2.123	-16.516	1.00	94.75	C
ATOM	1806	CB THR A 252	44.969	-0.052	-16.250	1.00	94.75	C
ATOM	1807	O THR A 252	44.094	2.736	-15.500	1.00	94.75	O
ATOM	1808	CG2 THR A 252	43.688	-0.790	-15.953	1.00	94.75	C
ATOM	1809	OG1 THR A 252	45.906	-0.957	-16.875	1.00	94.75	O
ATOM	1810	N VAL A 253	42.656	2.143	-17.047	1.00	96.12	N
ATOM	1811	CA VAL A 253	41.594	2.973	-16.484	1.00	96.12	C
ATOM	1812	C VAL A 253	40.406	2.096	-16.047	1.00	96.12	C
ATOM	1813	CB VAL A 253	41.125	4.047	-17.484	1.00	96.12	C
ATOM	1814	O VAL A 253	39.875	1.346	-16.859	1.00	96.12	O
ATOM	1815	CG1 VAL A 253	40.062	4.941	-16.859	1.00	96.12	C
ATOM	1816	CG2 VAL A 253	42.312	4.879	-17.969	1.00	96.12	C
ATOM	1817	N ASN A 254	40.094	2.119	-14.789	1.00	96.25	N
ATOM	1818	CA ASN A 254	38.938	1.417	-14.250	1.00	96.25	C
ATOM	1819	C ASN A 254	37.781	2.371	-14.000	1.00	96.25	C

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ATOM	1820	CB	ASN A 254	39.312	0.674	-12.969	1.00	96.25	C
ATOM	1821	O	ASN A 254	37.906	3.311	-13.211	1.00	96.25	O
ATOM	1822	CG	ASN A 254	40.375	-0.375	-13.188	1.00	96.25	C
ATOM	1823	ND2	ASN A 254	41.469	-0.283	-12.422	1.00	96.25	N
ATOM	1824	OD1	ASN A 254	40.250	-1.260	-14.031	1.00	96.25	O
ATOM	1825	N	ILE A 255	36.750	2.150	-14.641	1.00	96.25	N
ATOM	1826	CA	ILE A 255	35.531	2.951	-14.477	1.00	96.25	C
ATOM	1827	C	ILE A 255	34.469	2.117	-13.797	1.00	96.25	C
ATOM	1828	CB	ILE A 255	35.031	3.492	-15.828	1.00	96.25	C
ATOM	1829	O	ILE A 255	34.000	1.114	-14.344	1.00	96.25	O
ATOM	1830	CG1	ILE A 255	36.156	4.223	-16.578	1.00	96.25	C
ATOM	1831	CG2	ILE A 255	33.812	4.414	-15.625	1.00	96.25	C
ATOM	1832	CD1	ILE A 255	35.844	4.531	-18.031	1.00	96.25	C
ATOM	1833	N	ASN A 256	34.094	2.504	-12.602	1.00	96.31	N
ATOM	1834	CA	ASN A 256	33.000	1.848	-11.891	1.00	96.31	C
ATOM	1835	C	ASN A 256	31.766	2.732	-11.828	1.00	96.31	C
ATOM	1836	CB	ASN A 256	33.469	1.451	-10.477	1.00	96.31	C
ATOM	1837	O	ASN A 256	31.797	3.812	-11.234	1.00	96.31	O
ATOM	1838	CG	ASN A 256	34.562	0.418	-10.484	1.00	96.31	C
ATOM	1839	ND2	ASN A 256	35.688	0.760	-9.883	1.00	96.31	N
ATOM	1840	OD1	ASN A 256	34.406	-0.679	-11.023	1.00	96.31	O
ATOM	1841	N	ILE A 257	30.703	2.229	-12.336	1.00	96.94	N
ATOM	1842	CA	ILE A 257	29.453	2.955	-12.289	1.00	96.94	C
ATOM	1843	C	ILE A 257	28.438	2.180	-11.445	1.00	96.94	C
ATOM	1844	CB	ILE A 257	28.891	3.199	-13.711	1.00	96.94	C
ATOM	1845	O	ILE A 257	28.172	1.006	-11.711	1.00	96.94	O
ATOM	1846	CG1	ILE A 257	29.906	3.975	-14.555	1.00	96.94	C
ATOM	1847	CG2	ILE A 257	27.547	3.943	-13.641	1.00	96.94	C
ATOM	1848	CD1	ILE A 257	29.547	4.047	-16.031	1.00	96.94	C
ATOM	1849	N	THR A 258	27.969	2.844	-10.438	1.00	96.62	N
ATOM	1850	CA	THR A 258	26.891	2.270	-9.641	1.00	96.62	C
ATOM	1851	C	THR A 258	25.609	3.096	-9.789	1.00	96.62	C
ATOM	1852	CB	THR A 258	27.281	2.178	-8.156	1.00	96.62	C
ATOM	1853	O	THR A 258	25.625	4.305	-9.547	1.00	96.62	O
ATOM	1854	CG2	THR A 258	26.172	1.531	-7.332	1.00	96.62	C
ATOM	1855	OG1	THR A 258	28.469	1.394	-8.031	1.00	96.62	O
ATOM	1856	N	VAL A 259	24.562	2.393	-10.156	1.00	97.56	N
ATOM	1857	CA	VAL A 259	23.250	3.010	-10.211	1.00	97.56	C
ATOM	1858	C	VAL A 259	22.297	2.291	-9.258	1.00	97.56	C
ATOM	1859	CB	VAL A 259	22.672	2.988	-11.648	1.00	97.56	C
ATOM	1860	O	VAL A 259	22.109	1.075	-9.352	1.00	97.56	O
ATOM	1861	CG1	VAL A 259	21.297	3.646	-11.695	1.00	97.56	C
ATOM	1862	CG2	VAL A 259	23.625	3.686	-12.617	1.00	97.56	C
ATOM	1863	N	LYS A 260	21.719	3.059	-8.336	1.00	96.94	N
ATOM	1864	CA	LYS A 260	20.750	2.535	-7.371	1.00	96.94	C
ATOM	1865	C	LYS A 260	19.375	3.154	-7.578	1.00	96.94	C
ATOM	1866	CB	LYS A 260	21.234	2.793	-5.941	1.00	96.94	C
ATOM	1867	O	LYS A 260	19.250	4.375	-7.695	1.00	96.94	O
ATOM	1868	CG	LYS A 260	22.547	2.104	-5.598	1.00	96.94	C
ATOM	1869	CD	LYS A 260	22.984	2.408	-4.172	1.00	96.94	C
ATOM	1870	CE	LYS A 260	24.344	1.789	-3.852	1.00	96.94	C
ATOM	1871	NZ	LYS A 260	24.781	2.125	-2.469	1.00	96.94	N
ATOM	1872	N	SER A 261	18.469	2.285	-7.738	1.00	97.81	N

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ATOM	1873	CA	SER A 261	17.078	2.740	-7.809	1.00	97.81	C
ATOM	1874	C	SER A 261	16.250	2.129	-6.695	1.00	97.81	C
ATOM	1875	CB	SER A 261	16.469	2.395	-9.164	1.00	97.81	C
ATOM	1876	O	SER A 261	16.297	0.919	-6.465	1.00	97.81	O
ATOM	1877	OG	SER A 261	15.125	2.824	-9.234	1.00	97.81	O
ATOM	1878	N	GLU A 262	15.492	2.967	-6.062	1.00	96.50	N
ATOM	1879	CA	GLU A 262	14.594	2.525	-5.000	1.00	96.50	C
ATOM	1880	C	GLU A 262	13.172	3.018	-5.246	1.00	96.50	C
ATOM	1881	CB	GLU A 262	15.094	3.008	-3.637	1.00	96.50	C
ATOM	1882	O	GLU A 262	12.953	4.199	-5.523	1.00	96.50	O
ATOM	1883	CG	GLU A 262	16.422	2.393	-3.213	1.00	96.50	C
ATOM	1884	CD	GLU A 262	16.875	2.850	-1.837	1.00	96.50	C
ATOM	1885	OE1	GLU A 262	17.969	2.424	-1.390	1.00	96.50	O
ATOM	1886	OE2	GLU A 262	16.141	3.635	-1.200	1.00	96.50	O
ATOM	1887	N	SER A 263	12.297	2.115	-5.129	1.00	97.00	N
ATOM	1888	CA	SER A 263	10.883	2.453	-5.203	1.00	97.00	C
ATOM	1889	C	SER A 263	10.141	1.999	-3.951	1.00	97.00	C
ATOM	1890	CB	SER A 263	10.242	1.820	-6.441	1.00	97.00	C
ATOM	1891	O	SER A 263	10.328	0.875	-3.482	1.00	97.00	O
ATOM	1892	OG	SER A 263	10.805	2.350	-7.625	1.00	97.00	O
ATOM	1893	N	LYS A 264	9.430	2.922	-3.459	1.00	96.12	N
ATOM	1894	CA	LYS A 264	8.602	2.645	-2.285	1.00	96.12	C
ATOM	1895	C	LYS A 264	7.160	3.084	-2.510	1.00	96.12	C
ATOM	1896	CB	LYS A 264	9.180	3.340	-1.051	1.00	96.12	C
ATOM	1897	O	LYS A 264	6.910	4.141	-3.094	1.00	96.12	O
ATOM	1898	CG	LYS A 264	8.406	3.059	0.231	1.00	96.12	C
ATOM	1899	CD	LYS A 264	9.008	3.799	1.419	1.00	96.12	C
ATOM	1900	CE	LYS A 264	8.188	3.582	2.686	1.00	96.12	C
ATOM	1901	NZ	LYS A 264	8.766	4.324	3.850	1.00	96.12	N
ATOM	1902	N	VAL A 265	6.234	2.172	-2.047	1.00	97.69	N
ATOM	1903	CA	VAL A 265	4.836	2.586	-2.109	1.00	97.69	C
ATOM	1904	C	VAL A 265	4.152	2.301	-0.774	1.00	97.69	C
ATOM	1905	CB	VAL A 265	4.086	1.872	-3.256	1.00	97.69	C
ATOM	1906	O	VAL A 265	4.371	1.248	-0.169	1.00	97.69	O
ATOM	1907	CG1	VAL A 265	4.000	0.370	-2.994	1.00	97.69	C
ATOM	1908	CG2	VAL A 265	2.688	2.467	-3.428	1.00	97.69	C
ATOM	1909	N	ASP A 266	3.471	3.273	-0.289	1.00	98.25	N
ATOM	1910	CA	ASP A 266	2.623	3.143	0.893	1.00	98.25	C
ATOM	1911	C	ASP A 266	1.145	3.182	0.516	1.00	98.25	C
ATOM	1912	CB	ASP A 266	2.939	4.250	1.902	1.00	98.25	C
ATOM	1913	O	ASP A 266	0.673	4.160	-0.067	1.00	98.25	O
ATOM	1914	CG	ASP A 266	4.320	4.113	2.520	1.00	98.25	C
ATOM	1915	OD1	ASP A 266	4.754	2.973	2.797	1.00	98.25	O
ATOM	1916	OD2	ASP A 266	4.977	5.152	2.734	1.00	98.25	O
ATOM	1917	N	ILE A 267	0.413	2.094	0.848	1.00	98.50	N
ATOM	1918	CA	ILE A 267	-1.014	2.010	0.556	1.00	98.50	C
ATOM	1919	C	ILE A 267	-1.807	1.993	1.860	1.00	98.50	C
ATOM	1920	CB	ILE A 267	-1.345	0.757	-0.288	1.00	98.50	C
ATOM	1921	O	ILE A 267	-1.620	1.107	2.697	1.00	98.50	O
ATOM	1922	CG1	ILE A 267	-0.539	0.764	-1.592	1.00	98.50	C
ATOM	1923	CG2	ILE A 267	-2.848	0.681	-0.573	1.00	98.50	C
ATOM	1924	CD1	ILE A 267	-0.576	-0.556	-2.350	1.00	98.50	C
ATOM	1925	N	ASN A 268	-2.584	3.031	1.974	1.00	98.31	N

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ATOM	1926	CA	ASN A 268	-3.445	3.115	3.148	1.00	98.31	C
ATOM	1927	C	ASN A 268	-4.922	3.039	2.770	1.00	98.31	C
ATOM	1928	CB	ASN A 268	-3.164	4.402	3.930	1.00	98.31	C
ATOM	1929	O	ASN A 268	-5.410	3.855	1.986	1.00	98.31	O
ATOM	1930	CG	ASN A 268	-1.756	4.449	4.488	1.00	98.31	C
ATOM	1931	ND2	ASN A 268	-1.090	5.586	4.324	1.00	98.31	N
ATOM	1932	OD1	ASN A 268	-1.271	3.471	5.066	1.00	98.31	O
ATOM	1933	N	GLY A 269	-5.598	2.047	3.318	1.00	98.62	N
ATOM	1934	CA	GLY A 269	-7.035	1.940	3.109	1.00	98.62	C
ATOM	1935	C	GLY A 269	-7.836	2.076	4.391	1.00	98.62	C
ATOM	1936	O	GLY A 269	-7.477	1.491	5.418	1.00	98.62	O
ATOM	1937	N	THR A 270	-8.859	2.951	4.355	1.00	98.56	N
ATOM	1938	CA	THR A 270	-9.766	3.105	5.488	1.00	98.56	C
ATOM	1939	C	THR A 270	-11.203	2.850	5.066	1.00	98.56	C
ATOM	1940	CB	THR A 270	-9.648	4.512	6.105	1.00	98.56	C
ATOM	1941	O	THR A 270	-11.695	3.447	4.105	1.00	98.56	O
ATOM	1942	CG2	THR A 270	-10.531	4.641	7.344	1.00	98.56	C
ATOM	1943	OG1	THR A 270	-8.281	4.754	6.480	1.00	98.56	O
ATOM	1944	N	ALA A 271	-11.867	1.915	5.758	1.00	98.62	N
ATOM	1945	CA	ALA A 271	-13.289	1.649	5.562	1.00	98.62	C
ATOM	1946	C	ALA A 271	-14.094	2.014	6.809	1.00	98.62	C
ATOM	1947	CB	ALA A 271	-13.516	0.184	5.195	1.00	98.62	C
ATOM	1948	O	ALA A 271	-13.758	1.592	7.914	1.00	98.62	O
ATOM	1949	N	ASN A 272	-15.070	2.832	6.539	1.00	98.50	N
ATOM	1950	CA	ASN A 272	-15.961	3.227	7.625	1.00	98.50	C
ATOM	1951	C	ASN A 272	-17.406	2.859	7.320	1.00	98.50	C
ATOM	1952	CB	ASN A 272	-15.844	4.727	7.902	1.00	98.50	C
ATOM	1953	O	ASN A 272	-17.906	3.133	6.227	1.00	98.50	O
ATOM	1954	CG	ASN A 272	-14.469	5.113	8.422	1.00	98.50	C
ATOM	1955	ND2	ASN A 272	-13.961	6.250	7.953	1.00	98.50	N
ATOM	1956	OD1	ASN A 272	-13.867	4.398	9.227	1.00	98.50	O
ATOM	1957	N	ALA A 273	-18.047	2.307	8.289	1.00	98.56	N
ATOM	1958	CA	ALA A 273	-19.484	2.031	8.133	1.00	98.56	C
ATOM	1959	C	ALA A 273	-20.266	2.533	9.336	1.00	98.56	C
ATOM	1960	CB	ALA A 273	-19.719	0.537	7.934	1.00	98.56	C
ATOM	1961	O	ALA A 273	-19.828	2.391	10.484	1.00	98.56	O
ATOM	1962	N	ASN A 274	-21.359	3.164	8.992	1.00	98.25	N
ATOM	1963	CA	ASN A 274	-22.281	3.652	10.016	1.00	98.25	C
ATOM	1964	C	ASN A 274	-23.703	3.125	9.797	1.00	98.25	C
ATOM	1965	CB	ASN A 274	-22.281	5.184	10.047	1.00	98.25	C
ATOM	1966	O	ASN A 274	-24.266	3.277	8.711	1.00	98.25	O
ATOM	1967	CG	ASN A 274	-20.953	5.762	10.453	1.00	98.25	C
ATOM	1968	ND2	ASN A 274	-20.406	6.656	9.633	1.00	98.25	N
ATOM	1969	OD1	ASN A 274	-20.391	5.406	11.500	1.00	98.25	O
ATOM	1970	N	ALA A 275	-24.250	2.557	10.828	1.00	98.25	N
ATOM	1971	CA	ALA A 275	-25.625	2.070	10.750	1.00	98.25	C
ATOM	1972	C	ALA A 275	-26.484	2.672	11.859	1.00	98.25	C
ATOM	1973	CB	ALA A 275	-25.656	0.546	10.828	1.00	98.25	C
ATOM	1974	O	ALA A 275	-26.016	2.805	13.000	1.00	98.25	O
ATOM	1975	N	THR A 276	-27.656	3.078	11.445	1.00	97.19	N
ATOM	1976	CA	THR A 276	-28.594	3.594	12.445	1.00	97.19	C
ATOM	1977	C	THR A 276	-29.938	2.896	12.320	1.00	97.19	C
ATOM	1978	CB	THR A 276	-28.781	5.113	12.297	1.00	97.19	C

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ATOM	1979	O	THR A 276	-30.359	2.527	11.227	1.00	97.19	O
ATOM	1980	CG2	THR A 276	-27.453	5.852	12.477	1.00	97.19	C
ATOM	1981	OG1	THR A 276	-29.297	5.402	10.992	1.00	97.19	O
ATOM	1982	N	LYS A 277	-30.500	2.578	13.430	1.00	95.06	N
ATOM	1983	CA	LYS A 277	-31.859	2.088	13.547	1.00	95.06	C
ATOM	1984	C	LYS A 277	-32.719	3.035	14.391	1.00	95.06	C
ATOM	1985	CB	LYS A 277	-31.875	0.687	14.164	1.00	95.06	C
ATOM	1986	O	LYS A 277	-32.344	3.373	15.516	1.00	95.06	O
ATOM	1987	CG	LYS A 277	-33.281	0.125	14.383	1.00	95.06	C
ATOM	1988	CD	LYS A 277	-33.219	-1.243	15.055	1.00	95.06	C
ATOM	1989	CE	LYS A 277	-34.625	-1.794	15.305	1.00	95.06	C
ATOM	1990	NZ	LYS A 277	-34.594	-3.143	15.945	1.00	95.06	N
ATOM	1991	N	THR A 278	-33.844	3.555	13.773	1.00	94.19	N
ATOM	1992	CA	THR A 278	-34.781	4.398	14.523	1.00	94.19	C
ATOM	1993	C	THR A 278	-36.156	3.738	14.633	1.00	94.19	C
ATOM	1994	CB	THR A 278	-34.906	5.785	13.867	1.00	94.19	C
ATOM	1995	O	THR A 278	-36.750	3.359	13.617	1.00	94.19	O
ATOM	1996	CG2	THR A 278	-35.812	6.699	14.703	1.00	94.19	C
ATOM	1997	OG1	THR A 278	-33.625	6.387	13.742	1.00	94.19	O
ATOM	1998	N	VAL A 279	-36.625	3.600	15.836	1.00	91.12	N
ATOM	1999	CA	VAL A 279	-37.969	3.043	16.094	1.00	91.12	C
ATOM	2000	C	VAL A 279	-38.844	4.117	16.703	1.00	91.12	C
ATOM	2001	CB	VAL A 279	-37.875	1.814	17.031	1.00	91.12	C
ATOM	2002	O	VAL A 279	-38.500	4.727	17.719	1.00	91.12	O
ATOM	2003	CG1	VAL A 279	-39.250	1.191	17.203	1.00	91.12	C
ATOM	2004	CG2	VAL A 279	-36.906	0.785	16.469	1.00	91.12	C
ATOM	2005	N	THR A 280	-40.000	4.387	16.016	1.00	89.31	N
ATOM	2006	CA	THR A 280	-41.000	5.297	16.562	1.00	89.31	C
ATOM	2007	C	THR A 280	-42.312	4.562	16.859	1.00	89.31	C
ATOM	2008	CB	THR A 280	-41.281	6.473	15.609	1.00	89.31	C
ATOM	2009	O	THR A 280	-42.875	3.930	15.969	1.00	89.31	O
ATOM	2010	CG2	THR A 280	-42.188	7.516	16.266	1.00	89.31	C
ATOM	2011	OG1	THR A 280	-40.031	7.090	15.258	1.00	89.31	O
ATOM	2012	N	ARG A 281	-42.781	4.746	18.141	1.00	83.38	N
ATOM	2013	CA	ARG A 281	-44.031	4.129	18.547	1.00	83.38	C
ATOM	2014	C	ARG A 281	-45.062	5.188	18.922	1.00	83.38	C
ATOM	2015	CB	ARG A 281	-43.812	3.186	19.734	1.00	83.38	C
ATOM	2016	O	ARG A 281	-44.750	6.160	19.609	1.00	83.38	O
ATOM	2017	CG	ARG A 281	-42.875	2.043	19.438	1.00	83.38	C
ATOM	2018	CD	ARG A 281	-42.562	1.208	20.672	1.00	83.38	C
ATOM	2019	NE	ARG A 281	-41.562	0.186	20.422	1.00	83.38	N
ATOM	2020	NH1	ARG A 281	-40.469	0.480	22.422	1.00	83.38	N
ATOM	2021	NH2	ARG A 281	-39.719	-1.081	20.922	1.00	83.38	N
ATOM	2022	CZ	ARG A 281	-40.594	-0.136	21.266	1.00	83.38	C
ATOM	2023	N	THR A 282	-46.344	5.105	18.328	1.00	76.75	N
ATOM	2024	CA	THR A 282	-47.406	5.984	18.797	1.00	76.75	C
ATOM	2025	C	THR A 282	-48.406	5.219	19.688	1.00	76.75	C
ATOM	2026	CB	THR A 282	-48.188	6.621	17.625	1.00	76.75	C
ATOM	2027	O	THR A 282	-48.750	4.074	19.391	1.00	76.75	O
ATOM	2028	CG2	THR A 282	-47.906	8.117	17.531	1.00	76.75	C
ATOM	2029	OG1	THR A 282	-47.781	5.992	16.406	1.00	76.75	O
ATOM	2030	N	GLY A 283	-48.500	5.543	21.078	1.00	64.44	N
ATOM	2031	CA	GLY A 283	-49.500	5.004	22.016	1.00	64.44	C

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ATOM 2032 C GLY A 283 -50.906 5.039 21.484 1.00 64.44 C
ATOM 2033 O GLY A 283 -51.344 6.039 20.906 1.00 64.44 O
TER 2034 GLY A 283
END
ATOM 1 N MET A 8 47.125 4.828 -33.094 1.00 89.81 N
ATOM 2 CA MET A 8 46.062 5.375 -32.219 1.00 89.81 C
ATOM 3 C MET A 8 45.438 4.289 -31.359 1.00 89.81 C
ATOM 4 CB MET A 8 44.969 6.035 -33.062 1.00 89.81 C
ATOM 5 O MET A 8 45.188 3.180 -31.828 1.00 89.81 O
ATOM 6 CG MET A 8 45.438 7.285 -33.812 1.00 89.81 C
ATOM 7 SD MET A 8 44.094 8.070 -34.781 1.00 89.81 S
ATOM 8 CE MET A 8 44.031 6.957 -36.219 1.00 89.81 C
ATOM 9 N ILE A 9 45.375 4.609 -30.062 1.00 91.00 N
ATOM 10 CA ILE A 9 44.750 3.713 -29.094 1.00 91.00 C
ATOM 11 C ILE A 9 43.531 4.387 -28.469 1.00 91.00 C
ATOM 12 CB ILE A 9 45.750 3.299 -27.984 1.00 91.00 C
ATOM 13 O ILE A 9 43.594 5.551 -28.078 1.00 91.00 O
ATOM 14 CG1 ILE A 9 46.969 2.566 -28.594 1.00 91.00 C
ATOM 15 CG2 ILE A 9 45.062 2.432 -26.922 1.00 91.00 C
ATOM 16 CD1 ILE A 9 48.094 2.328 -27.609 1.00 91.00 C
ATOM 17 N LEU A 10 42.406 3.709 -28.453 1.00 92.81 N
ATOM 18 CA LEU A 10 41.188 4.160 -27.750 1.00 92.81 C
ATOM 19 C LEU A 10 40.969 3.365 -26.469 1.00 92.81 C
ATOM 20 CB LEU A 10 39.969 4.031 -28.672 1.00 92.81 C
ATOM 21 O LEU A 10 40.781 2.146 -26.516 1.00 92.81 O
ATOM 22 CG LEU A 10 38.625 4.430 -28.062 1.00 92.81 C
ATOM 23 CD1 LEU A 10 38.625 5.918 -27.719 1.00 92.81 C
ATOM 24 CD2 LEU A 10 37.500 4.086 -29.000 1.00 92.81 C
ATOM 25 N LYS A 11 41.094 4.086 -25.250 1.00 94.44 N
ATOM 26 CA LYS A 11 40.750 3.529 -23.953 1.00 94.44 C
ATOM 27 C LYS A 11 39.344 3.912 -23.547 1.00 94.44 C
ATOM 28 CB LYS A 11 41.750 4.004 -22.891 1.00 94.44 C
ATOM 29 O LYS A 11 38.969 5.094 -23.516 1.00 94.44 O
ATOM 30 CG LYS A 11 43.156 3.486 -23.094 1.00 94.44 C
ATOM 31 CD LYS A 11 44.094 3.926 -21.969 1.00 94.44 C
ATOM 32 CE LYS A 11 45.500 3.410 -22.172 1.00 94.44 C
ATOM 33 NZ LYS A 11 46.406 3.855 -21.078 1.00 94.44 N
ATOM 34 N ILE A 12 38.562 2.865 -23.250 1.00 94.94 N
ATOM 35 CA ILE A 12 37.188 3.098 -22.875 1.00 94.94 C
ATOM 36 C ILE A 12 37.000 2.748 -21.406 1.00 94.94 C
ATOM 37 CB ILE A 12 36.219 2.279 -23.750 1.00 94.94 C
ATOM 38 O ILE A 12 37.281 1.628 -20.969 1.00 94.94 O
ATOM 39 CG1 ILE A 12 36.438 2.588 -25.234 1.00 94.94 C
ATOM 40 CG2 ILE A 12 34.750 2.557 -23.359 1.00 94.94 C
ATOM 41 CD1 ILE A 12 35.875 1.545 -26.188 1.00 94.94 C
ATOM 42 N ASN A 13 36.531 3.746 -20.641 1.00 94.69 N
ATOM 43 CA ASN A 13 36.156 3.555 -19.234 1.00 94.69 C
ATOM 44 C ASN A 13 34.688 3.793 -19.000 1.00 94.69 C
ATOM 45 CB ASN A 13 37.000 4.469 -18.344 1.00 94.69 C
ATOM 46 O ASN A 13 34.188 4.918 -19.141 1.00 94.69 O
ATOM 47 CG ASN A 13 38.500 4.215 -18.469 1.00 94.69 C
ATOM 48 ND2 ASN A 13 39.281 5.289 -18.531 1.00 94.69 N
ATOM 49 OD1 ASN A 13 38.938 3.066 -18.500 1.00 94.69 O

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ATOM	50	N	VAL A 14	34.000	2.744	-18.688	1.00	94.81	N
ATOM	51	CA	VAL A 14	32.562	2.873	-18.406	1.00	94.81	C
ATOM	52	C	VAL A 14	32.312	2.639	-16.922	1.00	94.81	C
ATOM	53	CB	VAL A 14	31.734	1.892	-19.250	1.00	94.81	C
ATOM	54	O	VAL A 14	32.719	1.609	-16.375	1.00	94.81	O
ATOM	55	CG1	VAL A 14	30.250	2.064	-18.969	1.00	94.81	C
ATOM	56	CG2	VAL A 14	32.031	2.092	-20.750	1.00	94.81	C
ATOM	57	N	THR A 15	31.781	3.607	-16.203	1.00	95.31	N
ATOM	58	CA	THR A 15	31.359	3.496	-14.812	1.00	95.31	C
ATOM	59	C	THR A 15	29.859	3.643	-14.680	1.00	95.31	C
ATOM	60	CB	THR A 15	32.062	4.555	-13.938	1.00	95.31	C
ATOM	61	O	THR A 15	29.281	4.641	-15.133	1.00	95.31	O
ATOM	62	CG2	THR A 15	31.688	4.387	-12.469	1.00	95.31	C
ATOM	63	OG1	THR A 15	33.469	4.422	-14.070	1.00	95.31	O
ATOM	64	N	VAL A 16	29.219	2.643	-14.133	1.00	95.69	N
ATOM	65	CA	VAL A 16	27.781	2.668	-13.898	1.00	95.69	C
ATOM	66	C	VAL A 16	27.500	2.740	-12.398	1.00	95.69	C
ATOM	67	CB	VAL A 16	27.078	1.434	-14.516	1.00	95.69	C
ATOM	68	O	VAL A 16	27.906	1.855	-11.641	1.00	95.69	O
ATOM	69	CG1	VAL A 16	25.562	1.516	-14.312	1.00	95.69	C
ATOM	70	CG2	VAL A 16	27.422	1.310	-15.992	1.00	95.69	C
ATOM	71	N	ASN A 17	26.891	3.834	-11.984	1.00	96.50	N
ATOM	72	CA	ASN A 17	26.438	4.004	-10.609	1.00	96.50	C
ATOM	73	C	ASN A 17	24.922	3.871	-10.500	1.00	96.50	C
ATOM	74	CB	ASN A 17	26.891	5.355	-10.055	1.00	96.50	C
ATOM	75	O	ASN A 17	24.172	4.652	-11.109	1.00	96.50	O
ATOM	76	CG	ASN A 17	28.391	5.512	-10.070	1.00	96.50	C
ATOM	77	ND2	ASN A 17	28.875	6.473	-10.844	1.00	96.50	N
ATOM	78	OD1	ASN A 17	29.109	4.777	-9.391	1.00	96.50	O
ATOM	79	N	THR A 18	24.484	2.873	-9.797	1.00	95.56	N
ATOM	80	CA	THR A 18	23.062	2.615	-9.656	1.00	95.56	C
ATOM	81	C	THR A 18	22.609	2.840	-8.211	1.00	95.56	C
ATOM	82	CB	THR A 18	22.703	1.182	-10.086	1.00	95.56	C
ATOM	83	O	THR A 18	23.234	2.338	-7.277	1.00	95.56	O
ATOM	84	CG2	THR A 18	21.203	0.948	-10.039	1.00	95.56	C
ATOM	85	OG1	THR A 18	23.172	0.966	-11.430	1.00	95.56	O
ATOM	86	N	ASN A 19	21.578	3.635	-8.062	1.00	96.06	N
ATOM	87	CA	ASN A 19	20.938	3.877	-6.777	1.00	96.06	C
ATOM	88	C	ASN A 19	19.469	3.480	-6.805	1.00	96.06	C
ATOM	89	CB	ASN A 19	21.094	5.348	-6.375	1.00	96.06	C
ATOM	90	O	ASN A 19	18.672	4.094	-7.512	1.00	96.06	O
ATOM	91	CG	ASN A 19	20.625	5.613	-4.957	1.00	96.06	C
ATOM	92	ND2	ASN A 19	20.656	6.875	-4.547	1.00	96.06	N
ATOM	93	OD1	ASN A 19	20.219	4.691	-4.238	1.00	96.06	O
ATOM	94	N	SER A 20	19.109	2.475	-6.047	1.00	97.31	N
ATOM	95	CA	SER A 20	17.734	2.020	-5.914	1.00	97.31	C
ATOM	96	C	SER A 20	17.188	2.305	-4.520	1.00	97.31	C
ATOM	97	CB	SER A 20	17.625	0.523	-6.215	1.00	97.31	C
ATOM	98	O	SER A 20	17.781	1.905	-3.520	1.00	97.31	O
ATOM	99	OG	SER A 20	18.188	0.225	-7.484	1.00	97.31	O
ATOM	100	N	LYS A 21	16.094	3.008	-4.508	1.00	96.88	N
ATOM	101	CA	LYS A 21	15.500	3.412	-3.238	1.00	96.88	C
ATOM	102	C	LYS A 21	14.031	3.004	-3.164	1.00	96.88	C

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ATOM	103	CB	LYS	A	21	15.633	4.922	-3.037	1.00	96.88	C
ATOM	104	O	LYS	A	21	13.320	3.033	-4.172	1.00	96.88	O
ATOM	105	CG	LYS	A	21	15.227	5.402	-1.652	1.00	96.88	C
ATOM	106	CD	LYS	A	21	15.438	6.902	-1.495	1.00	96.88	C
ATOM	107	CE	LYS	A	21	14.984	7.391	-0.127	1.00	96.88	C
ATOM	108	NZ	LYS	A	21	15.227	8.859	0.046	1.00	96.88	N
ATOM	109	N	ALA	A	22	13.617	2.459	-1.995	1.00	97.06	N
ATOM	110	CA	ALA	A	22	12.211	2.156	-1.734	1.00	97.06	C
ATOM	111	C	ALA	A	22	11.727	2.857	-0.469	1.00	97.06	C
ATOM	112	CB	ALA	A	22	12.008	0.649	-1.617	1.00	97.06	C
ATOM	113	O	ALA	A	22	12.430	2.875	0.546	1.00	97.06	O
ATOM	114	N	THR	A	23	10.586	3.506	-0.596	1.00	96.06	N
ATOM	115	CA	THR	A	23	9.914	4.133	0.537	1.00	96.06	C
ATOM	116	C	THR	A	23	8.500	3.594	0.696	1.00	96.06	C
ATOM	117	CB	THR	A	23	9.867	5.664	0.379	1.00	96.06	C
ATOM	118	O	THR	A	23	7.746	3.518	-0.277	1.00	96.06	O
ATOM	119	CG2	THR	A	23	9.195	6.320	1.577	1.00	96.06	C
ATOM	120	OG1	THR	A	23	11.203	6.168	0.265	1.00	96.06	O
ATOM	121	N	VAL	A	24	8.164	3.115	1.916	1.00	96.94	N
ATOM	122	CA	VAL	A	24	6.805	2.670	2.215	1.00	96.94	C
ATOM	123	C	VAL	A	24	6.215	3.527	3.332	1.00	96.94	C
ATOM	124	CB	VAL	A	24	6.770	1.178	2.613	1.00	96.94	C
ATOM	125	O	VAL	A	24	6.832	3.697	4.387	1.00	96.94	O
ATOM	126	CG1	VAL	A	24	5.352	0.752	2.990	1.00	96.94	C
ATOM	127	CG2	VAL	A	24	7.309	0.310	1.477	1.00	96.94	C
ATOM	128	N	LYS	A	25	5.039	4.113	3.000	1.00	96.62	N
ATOM	129	CA	LYS	A	25	4.297	4.922	3.961	1.00	96.62	C
ATOM	130	C	LYS	A	25	2.939	4.293	4.273	1.00	96.62	C
ATOM	131	CB	LYS	A	25	4.102	6.344	3.434	1.00	96.62	C
ATOM	132	O	LYS	A	25	2.252	3.811	3.373	1.00	96.62	O
ATOM	133	CG	LYS	A	25	5.406	7.094	3.189	1.00	96.62	C
ATOM	134	CD	LYS	A	25	5.148	8.508	2.672	1.00	96.62	C
ATOM	135	CE	LYS	A	25	6.449	9.234	2.359	1.00	96.62	C
ATOM	136	NZ	LYS	A	25	6.203	10.602	1.822	1.00	96.62	N
ATOM	137	N	ALA	A	26	2.650	4.242	5.590	1.00	96.12	N
ATOM	138	CA	ALA	A	26	1.337	3.748	5.988	1.00	96.12	C
ATOM	139	C	ALA	A	26	0.664	4.707	6.965	1.00	96.12	C
ATOM	140	CB	ALA	A	26	1.458	2.357	6.609	1.00	96.12	C
ATOM	141	O	ALA	A	26	1.302	5.199	7.898	1.00	96.12	O
ATOM	142	N	LYS	A	27	-0.594	5.023	6.656	1.00	96.44	N
ATOM	143	CA	LYS	A	27	-1.442	5.855	7.504	1.00	96.44	C
ATOM	144	C	LYS	A	27	-2.791	5.188	7.758	1.00	96.44	C
ATOM	145	CB	LYS	A	27	-1.650	7.230	6.871	1.00	96.44	C
ATOM	146	O	LYS	A	27	-3.549	4.930	6.820	1.00	96.44	O
ATOM	147	CG	LYS	A	27	-2.412	8.211	7.750	1.00	96.44	C
ATOM	148	CD	LYS	A	27	-2.590	9.555	7.062	1.00	96.44	C
ATOM	149	CE	LYS	A	27	-3.402	10.523	7.918	1.00	96.44	C
ATOM	150	NZ	LYS	A	27	-3.586	11.844	7.246	1.00	96.44	N
ATOM	151	N	PHE	A	28	-3.109	4.918	9.062	1.00	96.88	N
ATOM	152	CA	PHE	A	28	-4.359	4.250	9.398	1.00	96.88	C
ATOM	153	C	PHE	A	28	-5.145	5.055	10.422	1.00	96.88	C
ATOM	154	CB	PHE	A	28	-4.090	2.840	9.930	1.00	96.88	C
ATOM	155	O	PHE	A	28	-4.559	5.656	11.328	1.00	96.88	O

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ATOM	156	CG	PHE	A	28	-3.617	1.874	8.875	1.00	96.88	C
ATOM	157	CD1	PHE	A	28	-3.732	2.184	7.527	1.00	96.88	C
ATOM	158	CD2	PHE	A	28	-3.057	0.655	9.234	1.00	96.88	C
ATOM	159	CE1	PHE	A	28	-3.295	1.292	6.547	1.00	96.88	C
ATOM	160	CE2	PHE	A	28	-2.617	-0.241	8.266	1.00	96.88	C
ATOM	161	CZ	PHE	A	28	-2.738	0.079	6.922	1.00	96.88	C
ATOM	162	N	GLU	A	29	-6.438	5.059	10.203	1.00	96.56	N
ATOM	163	CA	GLU	A	29	-7.359	5.750	11.102	1.00	96.56	C
ATOM	164	C	GLU	A	29	-8.492	4.828	11.539	1.00	96.56	C
ATOM	165	CB	GLU	A	29	-7.926	7.004	10.438	1.00	96.56	C
ATOM	166	O	GLU	A	29	-9.008	4.043	10.742	1.00	96.56	O
ATOM	167	CG	GLU	A	29	-8.867	7.805	11.328	1.00	96.56	C
ATOM	168	CD	GLU	A	29	-9.445	9.031	10.641	1.00	96.56	C
ATOM	169	OE1	GLU	A	29	-10.352	9.672	11.211	1.00	96.56	O
ATOM	170	OE2	GLU	A	29	-8.992	9.344	9.516	1.00	96.56	O
ATOM	171	N	ALA	A	30	-8.797	4.930	12.836	1.00	95.81	N
ATOM	172	CA	ALA	A	30	-9.945	4.188	13.359	1.00	95.81	C
ATOM	173	C	ALA	A	30	-10.891	5.109	14.125	1.00	95.81	C
ATOM	174	CB	ALA	A	30	-9.477	3.045	14.250	1.00	95.81	C
ATOM	175	O	ALA	A	30	-10.445	5.887	14.977	1.00	95.81	O
ATOM	176	N	LYS	A	31	-12.164	4.973	13.789	1.00	96.38	N
ATOM	177	CA	LYS	A	31	-13.188	5.809	14.422	1.00	96.38	C
ATOM	178	C	LYS	A	31	-14.305	4.957	15.000	1.00	96.38	C
ATOM	179	CB	LYS	A	31	-13.750	6.809	13.414	1.00	96.38	C
ATOM	180	O	LYS	A	31	-14.727	3.973	14.391	1.00	96.38	O
ATOM	181	CG	LYS	A	31	-14.680	7.844	14.023	1.00	96.38	C
ATOM	182	CD	LYS	A	31	-15.164	8.844	12.984	1.00	96.38	C
ATOM	183	CE	LYS	A	31	-16.141	9.859	13.594	1.00	96.38	C
ATOM	184	NZ	LYS	A	31	-16.594	10.852	12.578	1.00	96.38	N
ATOM	185	N	VAL	A	32	-14.742	5.375	16.234	1.00	96.94	N
ATOM	186	CA	VAL	A	32	-15.883	4.695	16.844	1.00	96.94	C
ATOM	187	C	VAL	A	32	-16.953	5.719	17.234	1.00	96.94	C
ATOM	188	CB	VAL	A	32	-15.461	3.875	18.078	1.00	96.94	C
ATOM	189	O	VAL	A	32	-16.625	6.781	17.766	1.00	96.94	O
ATOM	190	CG1	VAL	A	32	-14.859	4.781	19.156	1.00	96.94	C
ATOM	191	CG2	VAL	A	32	-16.656	3.104	18.641	1.00	96.94	C
ATOM	192	N	LYS	A	33	-18.188	5.438	16.781	1.00	95.88	N
ATOM	193	CA	LYS	A	33	-19.375	6.199	17.156	1.00	95.88	C
ATOM	194	C	LYS	A	33	-20.391	5.312	17.859	1.00	95.88	C
ATOM	195	CB	LYS	A	33	-20.000	6.844	15.922	1.00	95.88	C
ATOM	196	O	LYS	A	33	-20.750	4.238	17.359	1.00	95.88	O
ATOM	197	CG	LYS	A	33	-21.109	7.840	16.234	1.00	95.88	C
ATOM	198	CD	LYS	A	33	-21.641	8.516	14.977	1.00	95.88	C
ATOM	199	CE	LYS	A	33	-22.781	9.461	15.289	1.00	95.88	C
ATOM	200	NZ	LYS	A	33	-23.297	10.125	14.055	1.00	95.88	N
ATOM	201	N	ALA	A	34	-20.766	5.773	19.062	1.00	95.38	N
ATOM	202	CA	ALA	A	34	-21.734	4.980	19.812	1.00	95.38	C
ATOM	203	C	ALA	A	34	-22.922	5.832	20.250	1.00	95.38	C
ATOM	204	CB	ALA	A	34	-21.062	4.340	21.031	1.00	95.38	C
ATOM	205	O	ALA	A	34	-22.750	7.008	20.594	1.00	95.38	O
ATOM	206	N	THR	A	35	-24.062	5.258	20.141	1.00	95.69	N
ATOM	207	CA	THR	A	35	-25.297	5.914	20.531	1.00	95.69	C
ATOM	208	C	THR	A	35	-26.078	5.047	21.516	1.00	95.69	C

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ATOM	209	CB	THR	A	35	-26.172	6.230	19.312	1.00	95.69	C
ATOM	210	O	THR	A	35	-26.219	3.838	21.312	1.00	95.69	O
ATOM	211	CG2	THR	A	35	-27.438	6.996	19.703	1.00	95.69	C
ATOM	212	OG1	THR	A	35	-25.422	7.027	18.375	1.00	95.69	O
ATOM	213	N	ALA	A	36	-26.516	5.688	22.609	1.00	94.25	N
ATOM	214	CA	ALA	A	36	-27.406	5.020	23.547	1.00	94.25	C
ATOM	215	C	ALA	A	36	-28.766	5.719	23.625	1.00	94.25	C
ATOM	216	CB	ALA	A	36	-26.766	4.961	24.938	1.00	94.25	C
ATOM	217	O	ALA	A	36	-28.828	6.934	23.828	1.00	94.25	O
ATOM	218	N	VAL	A	37	-29.797	4.949	23.391	1.00	93.25	N
ATOM	219	CA	VAL	A	37	-31.156	5.461	23.453	1.00	93.25	C
ATOM	220	C	VAL	A	37	-31.938	4.746	24.562	1.00	93.25	C
ATOM	221	CB	VAL	A	37	-31.891	5.301	22.109	1.00	93.25	C
ATOM	222	O	VAL	A	37	-32.031	3.516	24.562	1.00	93.25	O
ATOM	223	CG1	VAL	A	37	-33.312	5.875	22.188	1.00	93.25	C
ATOM	224	CG2	VAL	A	37	-31.109	5.980	20.984	1.00	93.25	C
ATOM	225	N	ARG	A	38	-32.375	5.562	25.484	1.00	92.81	N
ATOM	226	CA	ARG	A	38	-33.188	5.023	26.547	1.00	92.81	C
ATOM	227	C	ARG	A	38	-34.625	5.570	26.453	1.00	92.81	C
ATOM	228	CB	ARG	A	38	-32.594	5.340	27.922	1.00	92.81	C
ATOM	229	O	ARG	A	38	-34.812	6.785	26.500	1.00	92.81	O
ATOM	230	CG	ARG	A	38	-33.344	4.680	29.078	1.00	92.81	C
ATOM	231	CD	ARG	A	38	-32.688	4.996	30.406	1.00	92.81	C
ATOM	232	NE	ARG	A	38	-33.375	4.348	31.516	1.00	92.81	N
ATOM	233	NH1	ARG	A	38	-32.031	5.262	33.156	1.00	92.81	N
ATOM	234	NH2	ARG	A	38	-33.750	3.855	33.719	1.00	92.81	N
ATOM	235	CZ	ARG	A	38	-33.062	4.488	32.812	1.00	92.81	C
ATOM	236	N	ARG	A	39	-35.594	4.578	26.375	1.00	91.19	N
ATOM	237	CA	ARG	A	39	-37.031	4.934	26.312	1.00	91.19	C
ATOM	238	C	ARG	A	39	-37.781	4.387	27.516	1.00	91.19	C
ATOM	239	CB	ARG	A	39	-37.656	4.414	25.016	1.00	91.19	C
ATOM	240	O	ARG	A	39	-37.688	3.197	27.828	1.00	91.19	O
ATOM	241	CG	ARG	A	39	-37.125	5.098	23.750	1.00	91.19	C
ATOM	242	CD	ARG	A	39	-37.844	4.598	22.500	1.00	91.19	C
ATOM	243	NE	ARG	A	39	-37.188	5.078	21.281	1.00	91.19	N
ATOM	244	NH1	ARG	A	39	-37.375	3.080	20.141	1.00	91.19	N
ATOM	245	NH2	ARG	A	39	-36.375	4.883	19.141	1.00	91.19	N
ATOM	246	CZ	ARG	A	39	-37.000	4.348	20.203	1.00	91.19	C
ATOM	247	N	THR	A	40	-38.469	5.355	28.109	1.00	86.94	N
ATOM	248	CA	THR	A	40	-39.281	4.949	29.234	1.00	86.94	C
ATOM	249	C	THR	A	40	-40.750	5.301	28.984	1.00	86.94	C
ATOM	250	CB	THR	A	40	-38.812	5.613	30.547	1.00	86.94	C
ATOM	251	O	THR	A	40	-41.062	6.441	28.641	1.00	86.94	O
ATOM	252	CG2	THR	A	40	-39.562	5.031	31.750	1.00	86.94	C
ATOM	253	OG1	THR	A	40	-37.406	5.391	30.703	1.00	86.94	O
ATOM	254	N	THR	A	41	-41.625	4.270	29.062	1.00	85.00	N
ATOM	255	CA	THR	A	41	-43.062	4.500	28.953	1.00	85.00	C
ATOM	256	C	THR	A	41	-43.719	4.508	30.328	1.00	85.00	C
ATOM	257	CB	THR	A	41	-43.750	3.434	28.078	1.00	85.00	C
ATOM	258	O	THR	A	41	-43.656	3.514	31.062	1.00	85.00	O
ATOM	259	CG2	THR	A	41	-45.188	3.785	27.797	1.00	85.00	C
ATOM	260	OG1	THR	A	41	-43.031	3.342	26.828	1.00	85.00	O
ATOM	261	N	ALA	A	42	-44.188	5.695	30.641	1.00	81.19	N

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ATOM	262	CA	ALA	A	42	-44.875	5.816	31.922	1.00	81.19	C
ATOM	263	C	ALA	A	42	-46.219	5.059	31.891	1.00	81.19	C
ATOM	264	CB	ALA	A	42	-45.125	7.285	32.250	1.00	81.19	C
ATOM	265	O	ALA	A	42	-46.688	4.676	30.812	1.00	81.19	O
ATOM	266	N	PRO	A	43	-46.875	4.797	33.031	1.00	77.75	N
ATOM	267	CA	PRO	A	43	-48.188	4.160	33.094	1.00	77.75	C
ATOM	268	C	PRO	A	43	-49.250	4.934	32.344	1.00	77.75	C
ATOM	269	CB	PRO	A	43	-48.500	4.145	34.594	1.00	77.75	C
ATOM	270	O	PRO	A	43	-50.188	4.336	31.812	1.00	77.75	O
ATOM	271	CG	PRO	A	43	-47.156	4.203	35.281	1.00	77.75	C
ATOM	272	CD	PRO	A	43	-46.219	4.980	34.406	1.00	77.75	C
ATOM	273	N	ASP	A	44	-49.125	6.258	32.156	1.00	84.06	N
ATOM	274	CA	ASP	A	44	-50.125	7.090	31.500	1.00	84.06	C
ATOM	275	C	ASP	A	44	-49.938	7.074	29.984	1.00	84.06	C
ATOM	276	CB	ASP	A	44	-50.062	8.523	32.031	1.00	84.06	C
ATOM	277	O	ASP	A	44	-50.688	7.703	29.250	1.00	84.06	O
ATOM	278	CG	ASP	A	44	-48.750	9.203	31.750	1.00	84.06	C
ATOM	279	OD1	ASP	A	44	-47.812	8.539	31.234	1.00	84.06	O
ATOM	280	OD2	ASP	A	44	-48.625	10.406	32.062	1.00	84.06	O
ATOM	281	N	GLY	A	45	-48.906	6.305	29.469	1.00	81.12	N
ATOM	282	CA	GLY	A	45	-48.656	6.191	28.047	1.00	81.12	C
ATOM	283	C	GLY	A	45	-47.594	7.176	27.547	1.00	81.12	C
ATOM	284	O	GLY	A	45	-47.188	7.129	26.391	1.00	81.12	O
ATOM	285	N	THR	A	46	-47.125	8.172	28.438	1.00	86.88	N
ATOM	286	CA	THR	A	46	-46.094	9.125	28.031	1.00	86.88	C
ATOM	287	C	THR	A	46	-44.750	8.430	27.875	1.00	86.88	C
ATOM	288	CB	THR	A	46	-45.969	10.281	29.031	1.00	86.88	C
ATOM	289	O	THR	A	46	-44.375	7.559	28.688	1.00	86.88	O
ATOM	290	CG2	THR	A	46	-47.250	11.078	29.109	1.00	86.88	C
ATOM	291	OG1	THR	A	46	-45.656	9.750	30.328	1.00	86.88	O
ATOM	292	N	VAL	A	47	-44.000	8.727	26.734	1.00	87.06	N
ATOM	293	CA	VAL	A	47	-42.688	8.156	26.422	1.00	87.06	C
ATOM	294	C	VAL	A	47	-41.594	9.219	26.609	1.00	87.06	C
ATOM	295	CB	VAL	A	47	-42.625	7.605	24.969	1.00	87.06	C
ATOM	296	O	VAL	A	47	-41.688	10.320	26.062	1.00	87.06	O
ATOM	297	CG1	VAL	A	47	-41.250	7.062	24.641	1.00	87.06	C
ATOM	298	CG2	VAL	A	47	-43.688	6.520	24.781	1.00	87.06	C
ATOM	299	N	THR	A	48	-40.656	8.969	27.531	1.00	88.25	N
ATOM	300	CA	THR	A	48	-39.438	9.789	27.656	1.00	88.25	C
ATOM	301	C	THR	A	48	-38.250	9.094	27.031	1.00	88.25	C
ATOM	302	CB	THR	A	48	-39.156	10.109	29.141	1.00	88.25	C
ATOM	303	O	THR	A	48	-38.031	7.898	27.234	1.00	88.25	O
ATOM	304	CG2	THR	A	48	-40.188	11.070	29.719	1.00	88.25	C
ATOM	305	OG1	THR	A	48	-39.156	8.891	29.891	1.00	88.25	O
ATOM	306	N	GLU	A	49	-37.594	9.883	26.156	1.00	92.75	N
ATOM	307	CA	GLU	A	49	-36.438	9.367	25.438	1.00	92.75	C
ATOM	308	C	GLU	A	49	-35.156	10.156	25.781	1.00	92.75	C
ATOM	309	CB	GLU	A	49	-36.688	9.406	23.922	1.00	92.75	C
ATOM	310	O	GLU	A	49	-35.156	11.383	25.750	1.00	92.75	O
ATOM	311	CG	GLU	A	49	-35.500	8.891	23.094	1.00	92.75	C
ATOM	312	CD	GLU	A	49	-35.750	8.969	21.594	1.00	92.75	C
ATOM	313	OE1	GLU	A	49	-35.125	9.805	20.922	1.00	92.75	O
ATOM	314	OE2	GLU	A	49	-36.594	8.180	21.094	1.00	92.75	O

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ATOM	315	N	THR	A	50	-34.156	9.453	26.156	1.00	90.31	N
ATOM	316	CA	THR	A	50	-32.812	10.031	26.359	1.00	90.31	C
ATOM	317	C	THR	A	50	-31.812	9.438	25.391	1.00	90.31	C
ATOM	318	CB	THR	A	50	-32.344	9.812	27.812	1.00	90.31	C
ATOM	319	O	THR	A	50	-31.703	8.219	25.266	1.00	90.31	O
ATOM	320	CG2	THR	A	50	-31.031	10.539	28.062	1.00	90.31	C
ATOM	321	OG1	THR	A	50	-33.344	10.312	28.719	1.00	90.31	O
ATOM	322	N	VAL	A	51	-31.156	10.398	24.688	1.00	93.75	N
ATOM	323	CA	VAL	A	51	-30.156	9.984	23.703	1.00	93.75	C
ATOM	324	C	VAL	A	51	-28.781	10.492	24.125	1.00	93.75	C
ATOM	325	CB	VAL	A	51	-30.500	10.500	22.297	1.00	93.75	C
ATOM	326	O	VAL	A	51	-28.594	11.688	24.391	1.00	93.75	O
ATOM	327	CG1	VAL	A	51	-29.438	10.047	21.281	1.00	93.75	C
ATOM	328	CG2	VAL	A	51	-31.891	10.023	21.875	1.00	93.75	C
ATOM	329	N	VAL	A	52	-27.828	9.570	24.250	1.00	94.38	N
ATOM	330	CA	VAL	A	52	-26.438	9.906	24.516	1.00	94.38	C
ATOM	331	C	VAL	A	52	-25.547	9.438	23.375	1.00	94.38	C
ATOM	332	CB	VAL	A	52	-25.953	9.273	25.844	1.00	94.38	C
ATOM	333	O	VAL	A	52	-25.656	8.289	22.922	1.00	94.38	O
ATOM	334	CG1	VAL	A	52	-24.484	9.594	26.094	1.00	94.38	C
ATOM	335	CG2	VAL	A	52	-26.812	9.766	27.016	1.00	94.38	C
ATOM	336	N	GLU	A	53	-24.719	10.328	22.906	1.00	96.25	N
ATOM	337	CA	GLU	A	53	-23.781	10.039	21.844	1.00	96.25	C
ATOM	338	C	GLU	A	53	-22.344	10.234	22.312	1.00	96.25	C
ATOM	339	CB	GLU	A	53	-24.062	10.922	20.625	1.00	96.25	C
ATOM	340	O	GLU	A	53	-22.047	11.148	23.078	1.00	96.25	O
ATOM	341	CG	GLU	A	53	-25.422	10.672	19.984	1.00	96.25	C
ATOM	342	CD	GLU	A	53	-25.672	11.539	18.766	1.00	96.25	C
ATOM	343	OE1	GLU	A	53	-26.578	11.211	17.953	1.00	96.25	O
ATOM	344	OE2	GLU	A	53	-24.969	12.562	18.609	1.00	96.25	O
ATOM	345	N	ALA	A	54	-21.516	9.320	21.891	1.00	95.25	N
ATOM	346	CA	ALA	A	54	-20.078	9.414	22.156	1.00	95.25	C
ATOM	347	C	ALA	A	54	-19.250	9.000	20.953	1.00	95.25	C
ATOM	348	CB	ALA	A	54	-19.719	8.555	23.375	1.00	95.25	C
ATOM	349	O	ALA	A	54	-19.672	8.125	20.188	1.00	95.25	O
ATOM	350	N	GLU	A	55	-18.172	9.734	20.766	1.00	96.12	N
ATOM	351	CA	GLU	A	55	-17.281	9.461	19.641	1.00	96.12	C
ATOM	352	C	GLU	A	55	-15.812	9.531	20.047	1.00	96.12	C
ATOM	353	CB	GLU	A	55	-17.562	10.438	18.484	1.00	96.12	C
ATOM	354	O	GLU	A	55	-15.469	10.234	21.000	1.00	96.12	O
ATOM	355	CG	GLU	A	55	-17.188	11.883	18.812	1.00	96.12	C
ATOM	356	CD	GLU	A	55	-17.484	12.844	17.672	1.00	96.12	C
ATOM	357	OE1	GLU	A	55	-17.094	14.023	17.766	1.00	96.12	O
ATOM	358	OE2	GLU	A	55	-18.109	12.406	16.688	1.00	96.12	O
ATOM	359	N	GLY	A	56	-15.039	8.750	19.281	1.00	95.62	N
ATOM	360	CA	GLY	A	56	-13.594	8.750	19.453	1.00	95.62	C
ATOM	361	C	GLY	A	56	-12.844	8.320	18.219	1.00	95.62	C
ATOM	362	O	GLY	A	56	-13.422	7.707	17.312	1.00	95.62	O
ATOM	363	N	GLU	A	57	-11.547	8.836	18.203	1.00	95.88	N
ATOM	364	CA	GLU	A	57	-10.734	8.555	17.031	1.00	95.88	C
ATOM	365	C	GLU	A	57	-9.281	8.273	17.422	1.00	95.88	C
ATOM	366	CB	GLU	A	57	-10.789	9.727	16.047	1.00	95.88	C
ATOM	367	O	GLU	A	57	-8.781	8.820	18.391	1.00	95.88	O

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ATOM	368	CG	GLU	A	57	-9.961	9.516	14.781	1.00	95.88	C
ATOM	369	CD	GLU	A	57	-9.984	10.711	13.844	1.00	95.88	C
ATOM	370	OE1	GLU	A	57	-9.312	10.664	12.781	1.00	95.88	O
ATOM	371	OE2	GLU	A	57	-10.680	11.703	14.164	1.00	95.88	O
ATOM	372	N	ALA	A	58	-8.703	7.344	16.625	1.00	95.38	N
ATOM	373	CA	ALA	A	58	-7.273	7.047	16.734	1.00	95.38	C
ATOM	374	C	ALA	A	58	-6.605	7.062	15.359	1.00	95.38	C
ATOM	375	CB	ALA	A	58	-7.062	5.695	17.406	1.00	95.38	C
ATOM	376	O	ALA	A	58	-7.195	6.633	14.367	1.00	95.38	O
ATOM	377	N	LYS	A	59	-5.371	7.691	15.406	1.00	96.38	N
ATOM	378	CA	LYS	A	59	-4.602	7.785	14.164	1.00	96.38	C
ATOM	379	C	LYS	A	59	-3.156	7.348	14.383	1.00	96.38	C
ATOM	380	CB	LYS	A	59	-4.641	9.211	13.609	1.00	96.38	C
ATOM	381	O	LYS	A	59	-2.584	7.586	15.453	1.00	96.38	O
ATOM	382	CG	LYS	A	59	-6.023	9.664	13.172	1.00	96.38	C
ATOM	383	CD	LYS	A	59	-5.992	11.070	12.594	1.00	96.38	C
ATOM	384	CE	LYS	A	59	-7.383	11.547	12.195	1.00	96.38	C
ATOM	385	NZ	LYS	A	59	-7.359	12.930	11.641	1.00	96.38	N
ATOM	386	N	GLU	A	60	-2.625	6.676	13.297	1.00	97.44	N
ATOM	387	CA	GLU	A	60	-1.222	6.273	13.344	1.00	97.44	C
ATOM	388	C	GLU	A	60	-0.599	6.285	11.953	1.00	97.44	C
ATOM	389	CB	GLU	A	60	-1.078	4.887	13.977	1.00	97.44	C
ATOM	390	O	GLU	A	60	-1.299	6.109	10.953	1.00	97.44	O
ATOM	391	CG	GLU	A	60	0.343	4.551	14.406	1.00	97.44	C
ATOM	392	CD	GLU	A	60	0.943	5.574	15.352	1.00	97.44	C
ATOM	393	OE1	GLU	A	60	2.182	5.758	15.344	1.00	97.44	O
ATOM	394	OE2	GLU	A	60	0.168	6.203	16.109	1.00	97.44	O
ATOM	395	N	GLU	A	61	0.768	6.609	12.000	1.00	96.25	N
ATOM	396	CA	GLU	A	61	1.501	6.656	10.734	1.00	96.25	C
ATOM	397	C	GLU	A	61	2.949	6.215	10.922	1.00	96.25	C
ATOM	398	CB	GLU	A	61	1.453	8.062	10.141	1.00	96.25	C
ATOM	399	O	GLU	A	61	3.520	6.383	12.000	1.00	96.25	O
ATOM	400	CG	GLU	A	61	2.174	9.109	10.969	1.00	96.25	C
ATOM	401	CD	GLU	A	61	2.109	10.508	10.367	1.00	96.25	C
ATOM	402	OE1	GLU	A	61	2.680	11.453	10.961	1.00	96.25	O
ATOM	403	OE2	GLU	A	61	1.485	10.656	9.297	1.00	96.25	O
ATOM	404	N	ALA	A	62	3.496	5.629	9.945	1.00	94.50	N
ATOM	405	CA	ALA	A	62	4.902	5.242	9.938	1.00	94.50	C
ATOM	406	C	ALA	A	62	5.461	5.234	8.516	1.00	94.50	C
ATOM	407	CB	ALA	A	62	5.082	3.867	10.578	1.00	94.50	C
ATOM	408	O	ALA	A	62	4.703	5.168	7.547	1.00	94.50	O
ATOM	409	N	GLU	A	63	6.773	5.398	8.484	1.00	95.69	N
ATOM	410	CA	GLU	A	63	7.500	5.398	7.219	1.00	95.69	C
ATOM	411	C	GLU	A	63	8.852	4.699	7.359	1.00	95.69	C
ATOM	412	CB	GLU	A	63	7.703	6.832	6.715	1.00	95.69	C
ATOM	413	O	GLU	A	63	9.570	4.914	8.336	1.00	95.69	O
ATOM	414	CG	GLU	A	63	8.492	6.922	5.422	1.00	95.69	C
ATOM	415	CD	GLU	A	63	8.742	8.352	4.965	1.00	95.69	C
ATOM	416	OE1	GLU	A	63	9.539	8.562	4.023	1.00	95.69	O
ATOM	417	OE2	GLU	A	63	8.125	9.266	5.551	1.00	95.69	O
ATOM	418	N	LEU	A	64	9.078	3.871	6.355	1.00	95.88	N
ATOM	419	CA	LEU	A	64	10.383	3.213	6.309	1.00	95.88	C
ATOM	420	C	LEU	A	64	11.008	3.340	4.926	1.00	95.88	C

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ATOM	421	CB	LEU A 64	10.250	1.735	6.691	1.00	95.88	C
ATOM	422	O	LEU A 64	10.297	3.363	3.918	1.00	95.88	O
ATOM	423	CG	LEU A 64	9.969	1.436	8.164	1.00	95.88	C
ATOM	424	CD1	LEU A 64	9.734	-0.058	8.367	1.00	95.88	C
ATOM	425	CD2	LEU A 64	11.117	1.927	9.039	1.00	95.88	C
ATOM	426	N	GLU A 65	12.320	3.473	4.988	1.00	96.31	N
ATOM	427	CA	GLU A 65	13.070	3.631	3.746	1.00	96.31	C
ATOM	428	C	GLU A 65	14.258	2.666	3.691	1.00	96.31	C
ATOM	429	CB	GLU A 65	13.562	5.074	3.596	1.00	96.31	C
ATOM	430	O	GLU A 65	14.859	2.359	4.719	1.00	96.31	O
ATOM	431	CG	GLU A 65	14.250	5.352	2.268	1.00	96.31	C
ATOM	432	CD	GLU A 65	14.664	6.809	2.098	1.00	96.31	C
ATOM	433	OE1	GLU A 65	15.680	7.078	1.415	1.00	96.31	O
ATOM	434	OE2	GLU A 65	13.961	7.684	2.654	1.00	96.31	O
ATOM	435	N	LYS A 66	14.461	2.170	2.439	1.00	96.00	N
ATOM	436	CA	LYS A 66	15.617	1.314	2.191	1.00	96.00	C
ATOM	437	C	LYS A 66	16.312	1.685	0.881	1.00	96.00	C
ATOM	438	CB	LYS A 66	15.203	-0.158	2.168	1.00	96.00	C
ATOM	439	O	LYS A 66	15.641	2.012	-0.104	1.00	96.00	O
ATOM	440	CG	LYS A 66	16.375	-1.131	2.205	1.00	96.00	C
ATOM	441	CD	LYS A 66	15.898	-2.572	2.324	1.00	96.00	C
ATOM	442	CE	LYS A 66	17.062	-3.545	2.387	1.00	96.00	C
ATOM	443	NZ	LYS A 66	16.609	-4.961	2.512	1.00	96.00	N
ATOM	444	N	GLU A 67	17.641	1.749	0.938	1.00	96.50	N
ATOM	445	CA	GLU A 67	18.422	2.141	-0.234	1.00	96.50	C
ATOM	446	C	GLU A 67	19.578	1.168	-0.483	1.00	96.50	C
ATOM	447	CB	GLU A 67	18.969	3.562	-0.069	1.00	96.50	C
ATOM	448	O	GLU A 67	20.156	0.639	0.461	1.00	96.50	O
ATOM	449	CG	GLU A 67	19.797	4.047	-1.252	1.00	96.50	C
ATOM	450	CD	GLU A 67	20.375	5.434	-1.044	1.00	96.50	C
ATOM	451	OE1	GLU A 67	21.062	5.949	-1.961	1.00	96.50	O
ATOM	452	OE2	GLU A 67	20.156	6.012	0.044	1.00	96.50	O
ATOM	453	N	GLU A 68	19.844	0.936	-1.777	1.00	95.81	N
ATOM	454	CA	GLU A 68	20.984	0.119	-2.199	1.00	95.81	C
ATOM	455	C	GLU A 68	21.750	0.791	-3.332	1.00	95.81	C
ATOM	456	CB	GLU A 68	20.516	-1.271	-2.635	1.00	95.81	C
ATOM	457	O	GLU A 68	21.156	1.252	-4.309	1.00	95.81	O
ATOM	458	CG	GLU A 68	21.641	-2.260	-2.861	1.00	95.81	C
ATOM	459	CD	GLU A 68	21.156	-3.680	-3.117	1.00	95.81	C
ATOM	460	OE1	GLU A 68	21.969	-4.523	-3.566	1.00	95.81	O
ATOM	461	OE2	GLU A 68	19.969	-3.947	-2.867	1.00	95.81	O
ATOM	462	N	LYS A 69	23.078	0.834	-3.127	1.00	95.88	N
ATOM	463	CA	LYS A 69	23.969	1.442	-4.109	1.00	95.88	C
ATOM	464	C	LYS A 69	24.922	0.408	-4.703	1.00	95.88	C
ATOM	465	CB	LYS A 69	24.766	2.584	-3.475	1.00	95.88	C
ATOM	466	O	LYS A 69	25.422	-0.466	-3.988	1.00	95.88	O
ATOM	467	CG	LYS A 69	23.906	3.758	-3.020	1.00	95.88	C
ATOM	468	CD	LYS A 69	24.766	4.879	-2.441	1.00	95.88	C
ATOM	469	CE	LYS A 69	23.906	6.047	-1.965	1.00	95.88	C
ATOM	470	NZ	LYS A 69	24.734	7.141	-1.384	1.00	95.88	N
ATOM	471	N	GLU A 70	25.094	0.443	-5.961	1.00	95.25	N
ATOM	472	CA	GLU A 70	26.000	-0.462	-6.660	1.00	95.25	C
ATOM	473	C	GLU A 70	26.797	0.278	-7.723	1.00	95.25	C

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ATOM	474	CB	GLU	A	70	25.219	-1.613	-7.301	1.00	95.25	C
ATOM	475	O	GLU	A	70	26.281	1.164	-8.398	1.00	95.25	O
ATOM	476	CG	GLU	A	70	26.094	-2.656	-7.973	1.00	95.25	C
ATOM	477	CD	GLU	A	70	25.312	-3.760	-8.656	1.00	95.25	C
ATOM	478	OE1	GLU	A	70	25.938	-4.664	-9.258	1.00	95.25	O
ATOM	479	OE2	GLU	A	70	24.062	-3.721	-8.594	1.00	95.25	O
ATOM	480	N	THR	A	71	28.125	-0.028	-7.758	1.00	95.06	N
ATOM	481	CA	THR	A	71	29.000	0.539	-8.781	1.00	95.06	C
ATOM	482	C	THR	A	71	29.656	-0.566	-9.594	1.00	95.06	C
ATOM	483	CB	THR	A	71	30.078	1.442	-8.156	1.00	95.06	C
ATOM	484	O	THR	A	71	30.203	-1.518	-9.031	1.00	95.06	O
ATOM	485	CG2	THR	A	71	30.969	2.055	-9.227	1.00	95.06	C
ATOM	486	OG1	THR	A	71	29.438	2.494	-7.418	1.00	95.06	O
ATOM	487	N	LYS	A	72	29.547	-0.401	-10.953	1.00	94.12	N
ATOM	488	CA	LYS	A	72	30.219	-1.317	-11.875	1.00	94.12	C
ATOM	489	C	LYS	A	72	31.156	-0.565	-12.812	1.00	94.12	C
ATOM	490	CB	LYS	A	72	29.188	-2.105	-12.695	1.00	94.12	C
ATOM	491	O	LYS	A	72	30.844	0.530	-13.273	1.00	94.12	O
ATOM	492	CG	LYS	A	72	28.312	-3.020	-11.859	1.00	94.12	C
ATOM	493	CD	LYS	A	72	27.297	-3.770	-12.727	1.00	94.12	C
ATOM	494	CE	LYS	A	72	26.359	-4.613	-11.883	1.00	94.12	C
ATOM	495	NZ	LYS	A	72	25.344	-5.316	-12.727	1.00	94.12	N
ATOM	496	N	GLU	A	73	32.344	-1.172	-12.922	1.00	94.06	N
ATOM	497	CA	GLU	A	73	33.344	-0.554	-13.797	1.00	94.06	C
ATOM	498	C	GLU	A	73	33.781	-1.527	-14.883	1.00	94.06	C
ATOM	499	CB	GLU	A	73	34.531	-0.056	-12.992	1.00	94.06	C
ATOM	500	O	GLU	A	73	34.031	-2.703	-14.602	1.00	94.06	O
ATOM	501	CG	GLU	A	73	34.188	1.055	-12.008	1.00	94.06	C
ATOM	502	CD	GLU	A	73	35.406	1.559	-11.234	1.00	94.06	C
ATOM	503	OE1	GLU	A	73	35.281	2.549	-10.477	1.00	94.06	O
ATOM	504	OE2	GLU	A	73	36.500	0.961	-11.383	1.00	94.06	O
ATOM	505	N	GLU	A	74	33.844	-1.040	-16.156	1.00	93.44	N
ATOM	506	CA	GLU	A	74	34.344	-1.808	-17.297	1.00	93.44	C
ATOM	507	C	GLU	A	74	35.375	-1.007	-18.078	1.00	93.44	C
ATOM	508	CB	GLU	A	74	33.188	-2.240	-18.203	1.00	93.44	C
ATOM	509	O	GLU	A	74	35.156	0.177	-18.359	1.00	93.44	O
ATOM	510	CG	GLU	A	74	33.625	-3.229	-19.281	1.00	93.44	C
ATOM	511	CD	GLU	A	74	32.438	-3.703	-20.141	1.00	93.44	C
ATOM	512	OE1	GLU	A	74	32.688	-4.406	-21.156	1.00	93.44	O
ATOM	513	OE2	GLU	A	74	31.281	-3.369	-19.797	1.00	93.44	O
ATOM	514	N	LYS	A	75	36.500	-1.641	-18.266	1.00	94.62	N
ATOM	515	CA	LYS	A	75	37.594	-1.005	-19.031	1.00	94.62	C
ATOM	516	C	LYS	A	75	37.938	-1.807	-20.281	1.00	94.62	C
ATOM	517	CB	LYS	A	75	38.844	-0.844	-18.156	1.00	94.62	C
ATOM	518	O	LYS	A	75	37.938	-3.039	-20.250	1.00	94.62	O
ATOM	519	CG	LYS	A	75	38.625	0.069	-16.953	1.00	94.62	C
ATOM	520	CD	LYS	A	75	39.906	0.211	-16.141	1.00	94.62	C
ATOM	521	CE	LYS	A	75	39.719	1.115	-14.938	1.00	94.62	C
ATOM	522	NZ	LYS	A	75	40.969	1.272	-14.148	1.00	94.62	N
ATOM	523	N	GLU	A	76	38.094	-1.104	-21.375	1.00	94.06	N
ATOM	524	CA	GLU	A	76	38.469	-1.727	-22.656	1.00	94.06	C
ATOM	525	C	GLU	A	76	39.469	-0.884	-23.406	1.00	94.06	C
ATOM	526	CB	GLU	A	76	37.219	-1.944	-23.516	1.00	94.06	C

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ATOM	527	O	GLU A 76	39.469	0.345	-23.312	1.00	94.06	O
ATOM	528	CG	GLU A 76	37.469	-2.828	-24.734	1.00	94.06	C
ATOM	529	CD	GLU A 76	36.188	-3.143	-25.500	1.00	94.06	C
ATOM	530	OE1	GLU A 76	36.250	-3.877	-26.516	1.00	94.06	O
ATOM	531	OE2	GLU A 76	35.094	-2.652	-25.094	1.00	94.06	O
ATOM	532	N	GLU A 77	40.375	-1.510	-24.109	1.00	93.00	N
ATOM	533	CA	GLU A 77	41.375	-0.851	-24.922	1.00	93.00	C
ATOM	534	C	GLU A 77	41.344	-1.375	-26.359	1.00	93.00	C
ATOM	535	CB	GLU A 77	42.781	-1.042	-24.328	1.00	93.00	C
ATOM	536	O	GLU A 77	41.406	-2.586	-26.578	1.00	93.00	O
ATOM	537	CG	GLU A 77	43.875	-0.239	-25.016	1.00	93.00	C
ATOM	538	CD	GLU A 77	45.219	-0.328	-24.328	1.00	93.00	C
ATOM	539	OE1	GLU A 77	46.250	-0.162	-25.000	1.00	93.00	O
ATOM	540	OE2	GLU A 77	45.219	-0.568	-23.094	1.00	93.00	O
ATOM	541	N	ILE A 78	41.250	-0.464	-27.328	1.00	92.62	N
ATOM	542	CA	ILE A 78	41.125	-0.847	-28.734	1.00	92.62	C
ATOM	543	C	ILE A 78	42.156	-0.091	-29.562	1.00	92.62	C
ATOM	544	CB	ILE A 78	39.688	-0.576	-29.250	1.00	92.62	C
ATOM	545	O	ILE A 78	42.281	1.130	-29.453	1.00	92.62	O
ATOM	546	CG1	ILE A 78	38.656	-1.294	-28.391	1.00	92.62	C
ATOM	547	CG2	ILE A 78	39.562	-1.005	-30.719	1.00	92.62	C
ATOM	548	CD1	ILE A 78	37.219	-0.875	-28.656	1.00	92.62	C
ATOM	549	N	GLU A 79	42.906	-0.813	-30.406	1.00	90.44	N
ATOM	550	CA	GLU A 79	43.812	-0.161	-31.359	1.00	90.44	C
ATOM	551	C	GLU A 79	43.031	0.330	-32.594	1.00	90.44	C
ATOM	552	CB	GLU A 79	44.938	-1.114	-31.797	1.00	90.44	C
ATOM	553	O	GLU A 79	42.250	-0.421	-33.188	1.00	90.44	O
ATOM	554	CG	GLU A 79	45.938	-1.397	-30.703	1.00	90.44	C
ATOM	555	CD	GLU A 79	47.094	-2.301	-31.156	1.00	90.44	C
ATOM	556	OE1	GLU A 79	47.969	-2.633	-30.344	1.00	90.44	O
ATOM	557	OE2	GLU A 79	47.094	-2.676	-32.344	1.00	90.44	O
ATOM	558	N	VAL A 80	43.188	1.597	-32.906	1.00	90.44	N
ATOM	559	CA	VAL A 80	42.438	2.240	-34.000	1.00	90.44	C
ATOM	560	C	VAL A 80	43.406	2.691	-35.094	1.00	90.44	C
ATOM	561	CB	VAL A 80	41.625	3.443	-33.500	1.00	90.44	C
ATOM	562	O	VAL A 80	44.469	3.246	-34.781	1.00	90.44	O
ATOM	563	CG1	VAL A 80	40.750	4.023	-34.594	1.00	90.44	C
ATOM	564	CG2	VAL A 80	40.750	3.031	-32.281	1.00	90.44	C
ATOM	565	N	GLU A 81	43.062	2.430	-36.344	1.00	87.25	N
ATOM	566	CA	GLU A 81	44.000	2.662	-37.438	1.00	87.25	C
ATOM	567	C	GLU A 81	43.750	4.012	-38.125	1.00	87.25	C
ATOM	568	CB	GLU A 81	43.906	1.538	-38.500	1.00	87.25	C
ATOM	569	O	GLU A 81	44.688	4.652	-38.625	1.00	87.25	O
ATOM	570	CG	GLU A 81	44.375	0.186	-37.969	1.00	87.25	C
ATOM	571	CD	GLU A 81	44.281	-0.918	-39.000	1.00	87.25	C
ATOM	572	OE1	GLU A 81	44.656	-2.070	-38.719	1.00	87.25	O
ATOM	573	OE2	GLU A 81	43.812	-0.629	-40.125	1.00	87.25	O
ATOM	574	N	THR A 82	42.438	4.406	-38.062	1.00	89.00	N
ATOM	575	CA	THR A 82	42.094	5.652	-38.750	1.00	89.00	C
ATOM	576	C	THR A 82	41.219	6.527	-37.844	1.00	89.00	C
ATOM	577	CB	THR A 82	41.375	5.375	-40.062	1.00	89.00	C
ATOM	578	O	THR A 82	40.594	6.035	-36.906	1.00	89.00	O
ATOM	579	CG2	THR A 82	42.188	4.465	-40.969	1.00	89.00	C

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ATOM	580	OG1 THR A 82	40.094	4.750	-39.812	1.00	89.00	O
ATOM	581	N GLU A 83	41.250	7.805	-38.062	1.00	87.75	N
ATOM	582	CA GLU A 83	40.406	8.758	-37.375	1.00	87.75	C
ATOM	583	C GLU A 83	38.938	8.445	-37.625	1.00	87.75	C
ATOM	584	CB GLU A 83	40.719	10.188	-37.812	1.00	87.75	C
ATOM	585	O GLU A 83	38.094	8.586	-36.719	1.00	87.75	O
ATOM	586	CG GLU A 83	42.000	10.750	-37.250	1.00	87.75	C
ATOM	587	CD GLU A 83	42.281	12.188	-37.656	1.00	87.75	C
ATOM	588	OE1 GLU A 83	43.344	12.734	-37.281	1.00	87.75	O
ATOM	589	OE2 GLU A 83	41.406	12.773	-38.344	1.00	87.75	O
ATOM	590	N GLU A 84	38.531	8.031	-38.812	1.00	90.25	N
ATOM	591	CA GLU A 84	37.156	7.648	-39.156	1.00	90.25	C
ATOM	592	C GLU A 84	36.688	6.492	-38.281	1.00	90.25	C
ATOM	593	CB GLU A 84	37.031	7.270	-40.656	1.00	90.25	C
ATOM	594	O GLU A 84	35.562	6.508	-37.781	1.00	90.25	O
ATOM	595	CG GLU A 84	37.125	8.453	-41.594	1.00	90.25	C
ATOM	596	CD GLU A 84	37.094	8.062	-43.062	1.00	90.25	C
ATOM	597	OE1 GLU A 84	37.250	8.945	-43.938	1.00	90.25	O
ATOM	598	OE2 GLU A 84	36.906	6.852	-43.344	1.00	90.25	O
ATOM	599	N GLU A 85	37.594	5.480	-38.094	1.00	90.88	N
ATOM	600	CA GLU A 85	37.281	4.344	-37.250	1.00	90.88	C
ATOM	601	C GLU A 85	37.062	4.789	-35.781	1.00	90.88	C
ATOM	602	CB GLU A 85	38.375	3.291	-37.312	1.00	90.88	C
ATOM	603	O GLU A 85	36.188	4.293	-35.094	1.00	90.88	O
ATOM	604	CG GLU A 85	38.031	1.982	-36.625	1.00	90.88	C
ATOM	605	CD GLU A 85	39.156	0.936	-36.719	1.00	90.88	C
ATOM	606	OE1 GLU A 85	39.000	-0.155	-36.125	1.00	90.88	O
ATOM	607	OE2 GLU A 85	40.156	1.210	-37.406	1.00	90.88	O
ATOM	608	N LEU A 86	37.938	5.746	-35.344	1.00	89.94	N
ATOM	609	CA LEU A 86	37.844	6.285	-33.969	1.00	89.94	C
ATOM	610	C LEU A 86	36.469	6.922	-33.750	1.00	89.94	C
ATOM	611	CB LEU A 86	38.938	7.316	-33.719	1.00	89.94	C
ATOM	612	O LEU A 86	35.812	6.629	-32.750	1.00	89.94	O
ATOM	613	CG LEU A 86	38.938	8.000	-32.344	1.00	89.94	C
ATOM	614	CD1 LEU A 86	39.219	6.984	-31.250	1.00	89.94	C
ATOM	615	CD2 LEU A 86	39.938	9.141	-32.312	1.00	89.94	C
ATOM	616	N GLU A 87	36.000	7.781	-34.719	1.00	91.50	N
ATOM	617	CA GLU A 87	34.688	8.469	-34.594	1.00	91.50	C
ATOM	618	C GLU A 87	33.531	7.473	-34.594	1.00	91.50	C
ATOM	619	CB GLU A 87	34.531	9.469	-35.750	1.00	91.50	C
ATOM	620	O GLU A 87	32.594	7.641	-33.844	1.00	91.50	O
ATOM	621	CG GLU A 87	35.375	10.719	-35.594	1.00	91.50	C
ATOM	622	CD GLU A 87	35.219	11.688	-36.781	1.00	91.50	C
ATOM	623	OE1 GLU A 87	35.906	12.734	-36.781	1.00	91.50	O
ATOM	624	OE2 GLU A 87	34.406	11.391	-37.688	1.00	91.50	O
ATOM	625	N LYS A 88	33.656	6.441	-35.469	1.00	93.31	N
ATOM	626	CA LYS A 88	32.625	5.402	-35.500	1.00	93.31	C
ATOM	627	C LYS A 88	32.531	4.668	-34.156	1.00	93.31	C
ATOM	628	CB LYS A 88	32.938	4.410	-36.625	1.00	93.31	C
ATOM	629	O LYS A 88	31.438	4.406	-33.688	1.00	93.31	O
ATOM	630	CG LYS A 88	31.797	3.430	-36.906	1.00	93.31	C
ATOM	631	CD LYS A 88	32.125	2.506	-38.062	1.00	93.31	C
ATOM	632	CE LYS A 88	31.031	1.469	-38.281	1.00	93.31	C

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ATOM	633	NZ	LYS	A	88	31.375	0.512	-39.375	1.00	93.31	N
ATOM	634	N	LEU	A	89	33.656	4.375	-33.531	1.00	92.19	N
ATOM	635	CA	LEU	A	89	33.688	3.662	-32.250	1.00	92.19	C
ATOM	636	C	LEU	A	89	33.125	4.520	-31.141	1.00	92.19	C
ATOM	637	CB	LEU	A	89	35.125	3.248	-31.906	1.00	92.19	C
ATOM	638	O	LEU	A	89	32.375	4.020	-30.281	1.00	92.19	O
ATOM	639	CG	LEU	A	89	35.688	2.045	-32.656	1.00	92.19	C
ATOM	640	CD1	LEU	A	89	37.188	1.905	-32.406	1.00	92.19	C
ATOM	641	CD2	LEU	A	89	34.938	0.771	-32.281	1.00	92.19	C
ATOM	642	N	ILE	A	90	33.469	5.793	-31.156	1.00	91.75	N
ATOM	643	CA	ILE	A	90	32.969	6.711	-30.141	1.00	91.75	C
ATOM	644	C	ILE	A	90	31.438	6.781	-30.219	1.00	91.75	C
ATOM	645	CB	ILE	A	90	33.562	8.117	-30.297	1.00	91.75	C
ATOM	646	O	ILE	A	90	30.750	6.719	-29.203	1.00	91.75	O
ATOM	647	CG1	ILE	A	90	35.062	8.094	-29.953	1.00	91.75	C
ATOM	648	CG2	ILE	A	90	32.812	9.133	-29.422	1.00	91.75	C
ATOM	649	CD1	ILE	A	90	35.781	9.406	-30.234	1.00	91.75	C
ATOM	650	N	LYS	A	91	30.906	6.891	-31.469	1.00	93.75	N
ATOM	651	CA	LYS	A	91	29.469	6.926	-31.688	1.00	93.75	C
ATOM	652	C	LYS	A	91	28.812	5.633	-31.203	1.00	93.75	C
ATOM	653	CB	LYS	A	91	29.141	7.164	-33.156	1.00	93.75	C
ATOM	654	O	LYS	A	91	27.750	5.660	-30.578	1.00	93.75	O
ATOM	655	CG	LYS	A	91	27.672	7.465	-33.438	1.00	93.75	C
ATOM	656	CD	LYS	A	91	27.438	7.777	-34.906	1.00	93.75	C
ATOM	657	CE	LYS	A	91	25.953	7.996	-35.188	1.00	93.75	C
ATOM	658	NZ	LYS	A	91	25.719	8.289	-36.625	1.00	93.75	N
ATOM	659	N	GLU	A	92	29.391	4.516	-31.484	1.00	93.62	N
ATOM	660	CA	GLU	A	92	28.891	3.209	-31.078	1.00	93.62	C
ATOM	661	C	GLU	A	92	28.828	3.096	-29.547	1.00	93.62	C
ATOM	662	CB	GLU	A	92	29.766	2.092	-31.656	1.00	93.62	C
ATOM	663	O	GLU	A	92	27.844	2.623	-29.000	1.00	93.62	O
ATOM	664	CG	GLU	A	92	29.578	1.872	-33.156	1.00	93.62	C
ATOM	665	CD	GLU	A	92	30.438	0.756	-33.688	1.00	93.62	C
ATOM	666	OE1	GLU	A	92	30.391	0.499	-34.938	1.00	93.62	O
ATOM	667	OE2	GLU	A	92	31.188	0.134	-32.906	1.00	93.62	O
ATOM	668	N	TYR	A	93	29.781	3.580	-28.859	1.00	92.56	N
ATOM	669	CA	TYR	A	93	29.859	3.455	-27.422	1.00	92.56	C
ATOM	670	C	TYR	A	93	28.922	4.438	-26.734	1.00	92.56	C
ATOM	671	CB	TYR	A	93	31.297	3.689	-26.922	1.00	92.56	C
ATOM	672	O	TYR	A	93	28.406	4.164	-25.641	1.00	92.56	O
ATOM	673	CG	TYR	A	93	32.156	2.441	-26.922	1.00	92.56	C
ATOM	674	CD1	TYR	A	93	32.062	1.531	-25.875	1.00	92.56	C
ATOM	675	CD2	TYR	A	93	33.031	2.172	-27.969	1.00	92.56	C
ATOM	676	CE1	TYR	A	93	32.844	0.382	-25.859	1.00	92.56	C
ATOM	677	CE2	TYR	A	93	33.812	1.026	-27.969	1.00	92.56	C
ATOM	678	OH	TYR	A	93	34.500	-0.998	-26.906	1.00	92.56	O
ATOM	679	CZ	TYR	A	93	33.719	0.138	-26.906	1.00	92.56	C
ATOM	680	N	LYS	A	94	28.703	5.566	-27.375	1.00	91.88	N
ATOM	681	CA	LYS	A	94	27.688	6.484	-26.875	1.00	91.88	C
ATOM	682	C	LYS	A	94	26.312	5.848	-26.922	1.00	91.88	C
ATOM	683	CB	LYS	A	94	27.703	7.785	-27.672	1.00	91.88	C
ATOM	684	O	LYS	A	94	25.531	5.965	-25.969	1.00	91.88	O
ATOM	685	CG	LYS	A	94	28.844	8.727	-27.328	1.00	91.88	C

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ATOM	686	CD	LYS	A	94	28.719	10.047	-28.078	1.00	91.88	C
ATOM	687	CE	LYS	A	94	29.875	10.992	-27.719	1.00	91.88	C
ATOM	688	NZ	LYS	A	94	29.750	12.289	-28.453	1.00	91.88	N
ATOM	689	N	GLU	A	95	26.031	5.184	-28.031	1.00	94.81	N
ATOM	690	CA	GLU	A	95	24.750	4.492	-28.172	1.00	94.81	C
ATOM	691	C	GLU	A	95	24.656	3.322	-27.203	1.00	94.81	C
ATOM	692	CB	GLU	A	95	24.562	3.996	-29.609	1.00	94.81	C
ATOM	693	O	GLU	A	95	23.594	3.100	-26.594	1.00	94.81	O
ATOM	694	CG	GLU	A	95	24.312	5.109	-30.609	1.00	94.81	C
ATOM	695	CD	GLU	A	95	23.078	5.941	-30.297	1.00	94.81	C
ATOM	696	OE1	GLU	A	95	23.156	7.191	-30.344	1.00	94.81	O
ATOM	697	OE2	GLU	A	95	22.031	5.340	-29.984	1.00	94.81	O
ATOM	698	N	LYS	A	96	25.734	2.607	-27.078	1.00	92.31	N
ATOM	699	CA	LYS	A	96	25.797	1.505	-26.125	1.00	92.31	C
ATOM	700	C	LYS	A	96	25.562	1.998	-24.703	1.00	92.31	C
ATOM	701	CB	LYS	A	96	27.141	0.791	-26.219	1.00	92.31	C
ATOM	702	O	LYS	A	96	24.891	1.332	-23.906	1.00	92.31	O
ATOM	703	CG	LYS	A	96	27.219	-0.506	-25.422	1.00	92.31	C
ATOM	704	CD	LYS	A	96	28.531	-1.233	-25.656	1.00	92.31	C
ATOM	705	CE	LYS	A	96	28.625	-2.498	-24.812	1.00	92.31	C
ATOM	706	NZ	LYS	A	96	29.906	-3.229	-25.062	1.00	92.31	N
ATOM	707	N	ALA	A	97	26.125	3.141	-24.391	1.00	92.44	N
ATOM	708	CA	ALA	A	97	25.969	3.727	-23.062	1.00	92.44	C
ATOM	709	C	ALA	A	97	24.500	4.066	-22.781	1.00	92.44	C
ATOM	710	CB	ALA	A	97	26.828	4.977	-22.922	1.00	92.44	C
ATOM	711	O	ALA	A	97	24.000	3.830	-21.688	1.00	92.44	O
ATOM	712	N	LYS	A	98	23.781	4.539	-23.781	1.00	93.81	N
ATOM	713	CA	LYS	A	98	22.359	4.863	-23.641	1.00	93.81	C
ATOM	714	C	LYS	A	98	21.531	3.607	-23.391	1.00	93.81	C
ATOM	715	CB	LYS	A	98	21.844	5.582	-24.891	1.00	93.81	C
ATOM	716	O	LYS	A	98	20.641	3.605	-22.531	1.00	93.81	O
ATOM	717	CG	LYS	A	98	22.328	7.023	-25.016	1.00	93.81	C
ATOM	718	CD	LYS	A	98	21.719	7.707	-26.234	1.00	93.81	C
ATOM	719	CE	LYS	A	98	22.266	9.125	-26.406	1.00	93.81	C
ATOM	720	NZ	LYS	A	98	21.688	9.797	-27.609	1.00	93.81	N
ATOM	721	N	LYS	A	99	21.812	2.588	-24.188	1.00	94.75	N
ATOM	722	CA	LYS	A	99	21.094	1.324	-24.000	1.00	94.75	C
ATOM	723	C	LYS	A	99	21.375	0.721	-22.625	1.00	94.75	C
ATOM	724	CB	LYS	A	99	21.484	0.333	-25.109	1.00	94.75	C
ATOM	725	O	LYS	A	99	20.469	0.220	-21.969	1.00	94.75	O
ATOM	726	CG	LYS	A	99	20.906	0.673	-26.469	1.00	94.75	C
ATOM	727	CD	LYS	A	99	21.281	-0.380	-27.516	1.00	94.75	C
ATOM	728	CE	LYS	A	99	20.766	-0.006	-28.891	1.00	94.75	C
ATOM	729	NZ	LYS	A	99	21.156	-1.021	-29.922	1.00	94.75	N
ATOM	730	N	LEU	A	100	22.641	0.743	-22.203	1.00	93.69	N
ATOM	731	CA	LEU	A	100	23.047	0.261	-20.891	1.00	93.69	C
ATOM	732	C	LEU	A	100	22.344	1.034	-19.781	1.00	93.69	C
ATOM	733	CB	LEU	A	100	24.578	0.383	-20.734	1.00	93.69	C
ATOM	734	O	LEU	A	100	21.906	0.445	-18.797	1.00	93.69	O
ATOM	735	CG	LEU	A	100	25.156	-0.135	-19.406	1.00	93.69	C
ATOM	736	CD1	LEU	A	100	24.844	-1.619	-19.250	1.00	93.69	C
ATOM	737	CD2	LEU	A	100	26.656	0.114	-19.359	1.00	93.69	C
ATOM	738	N	ALA	A	101	22.281	2.363	-19.922	1.00	93.75	N

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ATOM	739	CA	ALA A 101	21.594	3.219	-18.953	1.00	93.75	C
ATOM	740	C	ALA A 101	20.141	2.816	-18.797	1.00	93.75	C
ATOM	741	CB	ALA A 101	21.703	4.684	-19.375	1.00	93.75	C
ATOM	742	O	ALA A 101	19.641	2.709	-17.672	1.00	93.75	O
ATOM	743	N	GLU A 102	19.391	2.561	-19.891	1.00	94.44	N
ATOM	744	CA	GLU A 102	17.984	2.168	-19.875	1.00	94.44	C
ATOM	745	C	GLU A 102	17.812	0.810	-19.203	1.00	94.44	C
ATOM	746	CB	GLU A 102	17.422	2.133	-21.281	1.00	94.44	C
ATOM	747	O	GLU A 102	16.875	0.621	-18.406	1.00	94.44	O
ATOM	748	CG	GLU A 102	17.234	3.510	-21.906	1.00	94.44	C
ATOM	749	CD	GLU A 102	16.766	3.457	-23.359	1.00	94.44	C
ATOM	750	OE1	GLU A 102	16.562	4.531	-23.969	1.00	94.44	O
ATOM	751	OE2	GLU A 102	16.578	2.332	-23.875	1.00	94.44	O
ATOM	752	N	GLU A 103	18.703	-0.104	-19.500	1.00	95.94	N
ATOM	753	CA	GLU A 103	18.656	-1.431	-18.906	1.00	95.94	C
ATOM	754	C	GLU A 103	18.891	-1.357	-17.391	1.00	95.94	C
ATOM	755	CB	GLU A 103	19.688	-2.357	-19.547	1.00	95.94	C
ATOM	756	O	GLU A 103	18.188	-2.008	-16.625	1.00	95.94	O
ATOM	757	CG	GLU A 103	19.344	-2.764	-20.969	1.00	95.94	C
ATOM	758	CD	GLU A 103	20.375	-3.678	-21.609	1.00	95.94	C
ATOM	759	OE1	GLU A 103	20.125	-4.199	-22.719	1.00	95.94	O
ATOM	760	OE2	GLU A 103	21.438	-3.875	-20.984	1.00	95.94	O
ATOM	761	N	GLU A 104	19.891	-0.547	-17.031	1.00	95.88	N
ATOM	762	CA	GLU A 104	20.203	-0.392	-15.609	1.00	95.88	C
ATOM	763	C	GLU A 104	19.062	0.284	-14.859	1.00	95.88	C
ATOM	764	CB	GLU A 104	21.500	0.410	-15.430	1.00	95.88	C
ATOM	765	O	GLU A 104	18.797	-0.041	-13.695	1.00	95.88	O
ATOM	766	CG	GLU A 104	22.750	-0.345	-15.844	1.00	95.88	C
ATOM	767	CD	GLU A 104	22.953	-1.639	-15.070	1.00	95.88	C
ATOM	768	OE1	GLU A 104	23.297	-2.670	-15.688	1.00	95.88	O
ATOM	769	OE2	GLU A 104	22.766	-1.620	-13.828	1.00	95.88	O
ATOM	770	N	LEU A 105	18.453	1.266	-15.500	1.00	95.75	N
ATOM	771	CA	LEU A 105	17.297	1.910	-14.891	1.00	95.75	C
ATOM	772	C	LEU A 105	16.188	0.899	-14.633	1.00	95.75	C
ATOM	773	CB	LEU A 105	16.766	3.039	-15.789	1.00	95.75	C
ATOM	774	O	LEU A 105	15.586	0.884	-13.555	1.00	95.75	O
ATOM	775	CG	LEU A 105	15.539	3.789	-15.281	1.00	95.75	C
ATOM	776	CD1	LEU A 105	15.828	4.441	-13.938	1.00	95.75	C
ATOM	777	CD2	LEU A 105	15.094	4.828	-16.312	1.00	95.75	C
ATOM	778	N	LYS A 106	15.883	0.007	-15.617	1.00	95.69	N
ATOM	779	CA	LYS A 106	14.867	-1.026	-15.453	1.00	95.69	C
ATOM	780	C	LYS A 106	15.219	-1.964	-14.305	1.00	95.69	C
ATOM	781	CB	LYS A 106	14.695	-1.824	-16.750	1.00	95.69	C
ATOM	782	O	LYS A 106	14.352	-2.305	-13.484	1.00	95.69	O
ATOM	783	CG	LYS A 106	13.969	-1.067	-17.844	1.00	95.69	C
ATOM	784	CD	LYS A 106	13.781	-1.932	-19.094	1.00	95.69	C
ATOM	785	CE	LYS A 106	13.141	-1.149	-20.219	1.00	95.69	C
ATOM	786	NZ	LYS A 106	12.977	-1.985	-21.453	1.00	95.69	N
ATOM	787	N	LYS A 107	16.469	-2.357	-14.195	1.00	95.25	N
ATOM	788	CA	LYS A 107	16.922	-3.229	-13.117	1.00	95.25	C
ATOM	789	C	LYS A 107	16.812	-2.539	-11.766	1.00	95.25	C
ATOM	790	CB	LYS A 107	18.375	-3.660	-13.367	1.00	95.25	C
ATOM	791	O	LYS A 107	16.391	-3.154	-10.781	1.00	95.25	O

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ATOM	792	CG	LYS A 107	18.531	-4.672	-14.492	1.00	95.25	C
ATOM	793	CD	LYS A 107	19.984	-5.102	-14.648	1.00	95.25	C
ATOM	794	CE	LYS A 107	20.172	-6.055	-15.828	1.00	95.25	C
ATOM	795	NZ	LYS A 107	21.594	-6.422	-16.031	1.00	95.25	N
ATOM	796	N	ALA A 108	17.234	-1.258	-11.750	1.00	95.44	N
ATOM	797	CA	ALA A 108	17.172	-0.485	-10.516	1.00	95.44	C
ATOM	798	C	ALA A 108	15.727	-0.326	-10.031	1.00	95.44	C
ATOM	799	CB	ALA A 108	17.812	0.884	-10.711	1.00	95.44	C
ATOM	800	O	ALA A 108	15.445	-0.432	-8.836	1.00	95.44	O
ATOM	801	N	LEU A 109	14.797	-0.089	-10.922	1.00	95.38	N
ATOM	802	CA	LEU A 109	13.383	0.033	-10.578	1.00	95.38	C
ATOM	803	C	LEU A 109	12.836	-1.289	-10.055	1.00	95.38	C
ATOM	804	CB	LEU A 109	12.570	0.486	-11.797	1.00	95.38	C
ATOM	805	O	LEU A 109	12.070	-1.308	-9.086	1.00	95.38	O
ATOM	806	CG	LEU A 109	12.633	1.975	-12.141	1.00	95.38	C
ATOM	807	CD1	LEU A 109	11.961	2.240	-13.484	1.00	95.38	C
ATOM	808	CD2	LEU A 109	11.984	2.805	-11.039	1.00	95.38	C
ATOM	809	N	GLU A 110	13.211	-2.393	-10.703	1.00	95.75	N
ATOM	810	CA	GLU A 110	12.766	-3.703	-10.234	1.00	95.75	C
ATOM	811	C	GLU A 110	13.289	-4.000	-8.836	1.00	95.75	C
ATOM	812	CB	GLU A 110	13.203	-4.797	-11.211	1.00	95.75	C
ATOM	813	O	GLU A 110	12.570	-4.539	-7.996	1.00	95.75	O
ATOM	814	CG	GLU A 110	12.398	-4.840	-12.500	1.00	95.75	C
ATOM	815	CD	GLU A 110	10.906	-4.984	-12.266	1.00	95.75	C
ATOM	816	OE1	GLU A 110	10.117	-4.215	-12.859	1.00	95.75	O
ATOM	817	OE2	GLU A 110	10.516	-5.875	-11.477	1.00	95.75	O
ATOM	818	N	LYS A 111	14.516	-3.664	-8.625	1.00	95.81	N
ATOM	819	CA	LYS A 111	15.102	-3.836	-7.301	1.00	95.81	C
ATOM	820	C	LYS A 111	14.367	-2.988	-6.266	1.00	95.81	C
ATOM	821	CB	LYS A 111	16.578	-3.477	-7.312	1.00	95.81	C
ATOM	822	O	LYS A 111	14.094	-3.451	-5.152	1.00	95.81	O
ATOM	823	CG	LYS A 111	17.328	-3.857	-6.039	1.00	95.81	C
ATOM	824	CD	LYS A 111	18.828	-3.691	-6.195	1.00	95.81	C
ATOM	825	CE	LYS A 111	19.578	-4.117	-4.934	1.00	95.81	C
ATOM	826	NZ	LYS A 111	21.047	-4.000	-5.102	1.00	95.81	N
ATOM	827	N	ALA A 112	14.117	-1.725	-6.578	1.00	95.25	N
ATOM	828	CA	ALA A 112	13.367	-0.841	-5.691	1.00	95.25	C
ATOM	829	C	ALA A 112	11.984	-1.413	-5.391	1.00	95.25	C
ATOM	830	CB	ALA A 112	13.234	0.550	-6.309	1.00	95.25	C
ATOM	831	O	ALA A 112	11.508	-1.347	-4.254	1.00	95.25	O
ATOM	832	N	LYS A 113	11.344	-2.037	-6.359	1.00	94.75	N
ATOM	833	CA	LYS A 113	10.047	-2.680	-6.180	1.00	94.75	C
ATOM	834	C	LYS A 113	10.141	-3.842	-5.195	1.00	94.75	C
ATOM	835	CB	LYS A 113	9.500	-3.172	-7.520	1.00	94.75	C
ATOM	836	O	LYS A 113	9.273	-4.000	-4.332	1.00	94.75	O
ATOM	837	CG	LYS A 113	8.984	-2.061	-8.422	1.00	94.75	C
ATOM	838	CD	LYS A 113	8.422	-2.615	-9.727	1.00	94.75	C
ATOM	839	CE	LYS A 113	7.980	-1.501	-10.664	1.00	94.75	C
ATOM	840	NZ	LYS A 113	7.477	-2.039	-11.969	1.00	94.75	N
ATOM	841	N	GLU A 114	11.133	-4.621	-5.332	1.00	95.81	N
ATOM	842	CA	GLU A 114	11.328	-5.762	-4.441	1.00	95.81	C
ATOM	843	C	GLU A 114	11.555	-5.305	-3.004	1.00	95.81	C
ATOM	844	CB	GLU A 114	12.500	-6.621	-4.914	1.00	95.81	C

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ATOM	845	O	GLU A 114	11.031	-5.910	-2.064	1.00	95.81	O
ATOM	846	CG	GLU A 114	12.219	-7.402	-6.188	1.00	95.81	C
ATOM	847	CD	GLU A 114	11.016	-8.328	-6.070	1.00	95.81	C
ATOM	848	OE1	GLU A 114	10.148	-8.320	-6.973	1.00	95.81	O
ATOM	849	OE2	GLU A 114	10.938	-9.062	-5.062	1.00	95.81	O
ATOM	850	N	MET A 115	12.320	-4.266	-2.926	1.00	95.75	N
ATOM	851	CA	MET A 115	12.555	-3.709	-1.597	1.00	95.75	C
ATOM	852	C	MET A 115	11.250	-3.207	-0.978	1.00	95.75	C
ATOM	853	CB	MET A 115	13.570	-2.568	-1.662	1.00	95.75	C
ATOM	854	O	MET A 115	11.008	-3.412	0.212	1.00	95.75	O
ATOM	855	CG	MET A 115	14.992	-3.035	-1.930	1.00	95.75	C
ATOM	856	SD	MET A 115	16.219	-1.672	-1.795	1.00	95.75	S
ATOM	857	CE	MET A 115	15.891	-0.792	-3.348	1.00	95.75	C
ATOM	858	N	ALA A 116	10.500	-2.518	-1.736	1.00	94.62	N
ATOM	859	CA	ALA A 116	9.211	-2.037	-1.260	1.00	94.62	C
ATOM	860	C	ALA A 116	8.328	-3.197	-0.794	1.00	94.62	C
ATOM	861	CB	ALA A 116	8.500	-1.245	-2.355	1.00	94.62	C
ATOM	862	O	ALA A 116	7.656	-3.098	0.233	1.00	94.62	O
ATOM	863	N	LYS A 117	8.367	-4.316	-1.461	1.00	93.94	N
ATOM	864	CA	LYS A 117	7.598	-5.504	-1.104	1.00	93.94	C
ATOM	865	C	LYS A 117	8.062	-6.078	0.232	1.00	93.94	C
ATOM	866	CB	LYS A 117	7.711	-6.566	-2.199	1.00	93.94	C
ATOM	867	O	LYS A 117	7.254	-6.602	1.002	1.00	93.94	O
ATOM	868	CG	LYS A 117	6.879	-6.266	-3.438	1.00	93.94	C
ATOM	869	CD	LYS A 117	6.980	-7.391	-4.461	1.00	93.94	C
ATOM	870	CE	LYS A 117	6.191	-7.070	-5.727	1.00	93.94	C
ATOM	871	NZ	LYS A 117	6.336	-8.141	-6.754	1.00	93.94	N
ATOM	872	N	GLU A 118	9.234	-5.938	0.385	1.00	95.31	N
ATOM	873	CA	GLU A 118	9.805	-6.426	1.636	1.00	95.31	C
ATOM	874	C	GLU A 118	9.438	-5.520	2.805	1.00	95.31	C
ATOM	875	CB	GLU A 118	11.328	-6.547	1.523	1.00	95.31	C
ATOM	876	O	GLU A 118	9.117	-5.996	3.895	1.00	95.31	O
ATOM	877	CG	GLU A 118	11.992	-7.137	2.760	1.00	95.31	C
ATOM	878	CD	GLU A 118	13.508	-7.168	2.668	1.00	95.31	C
ATOM	879	OE1	GLU A 118	14.172	-7.418	3.699	1.00	95.31	O
ATOM	880	OE2	GLU A 118	14.039	-6.941	1.557	1.00	95.31	O
ATOM	881	N	LEU A 119	9.422	-4.203	2.576	1.00	95.62	N
ATOM	882	CA	LEU A 119	9.211	-3.209	3.621	1.00	95.62	C
ATOM	883	C	LEU A 119	7.727	-3.088	3.961	1.00	95.62	C
ATOM	884	CB	LEU A 119	9.758	-1.848	3.182	1.00	95.62	C
ATOM	885	O	LEU A 119	7.371	-2.855	5.117	1.00	95.62	O
ATOM	886	CG	LEU A 119	11.281	-1.710	3.143	1.00	95.62	C
ATOM	887	CD1	LEU A 119	11.672	-0.347	2.584	1.00	95.62	C
ATOM	888	CD2	LEU A 119	11.867	-1.914	4.535	1.00	95.62	C
ATOM	889	N	ALA A 120	6.871	-3.316	2.980	1.00	94.62	N
ATOM	890	CA	ALA A 120	5.445	-3.018	3.092	1.00	94.62	C
ATOM	891	C	ALA A 120	4.812	-3.783	4.254	1.00	94.62	C
ATOM	892	CB	ALA A 120	4.727	-3.352	1.787	1.00	94.62	C
ATOM	893	O	ALA A 120	4.164	-3.189	5.117	1.00	94.62	O
ATOM	894	N	PRO A 121	4.969	-5.027	4.398	1.00	94.75	N
ATOM	895	CA	PRO A 121	4.344	-5.766	5.496	1.00	94.75	C
ATOM	896	C	PRO A 121	4.832	-5.309	6.867	1.00	94.75	C
ATOM	897	CB	PRO A 121	4.746	-7.215	5.223	1.00	94.75	C

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ATOM	898	O	PRO A 121	4.059	-5.285	7.828	1.00	94.75	O
ATOM	899	CG	PRO A 121	5.008	-7.270	3.752	1.00	94.75	C
ATOM	900	CD	PRO A 121	5.574	-5.945	3.320	1.00	94.75	C
ATOM	901	N	LYS A 122	6.062	-4.910	6.957	1.00	95.19	N
ATOM	902	CA	LYS A 122	6.625	-4.477	8.234	1.00	95.19	C
ATOM	903	C	LYS A 122	6.008	-3.154	8.688	1.00	95.19	C
ATOM	904	CB	LYS A 122	8.148	-4.336	8.133	1.00	95.19	C
ATOM	905	O	LYS A 122	5.617	-3.010	9.844	1.00	95.19	O
ATOM	906	CG	LYS A 122	8.875	-5.656	7.938	1.00	95.19	C
ATOM	907	CD	LYS A 122	10.383	-5.461	7.906	1.00	95.19	C
ATOM	908	CE	LYS A 122	11.117	-6.773	7.656	1.00	95.19	C
ATOM	909	NZ	LYS A 122	12.594	-6.578	7.570	1.00	95.19	N
ATOM	910	N	VAL A 123	5.938	-2.271	7.703	1.00	94.81	N
ATOM	911	CA	VAL A 123	5.402	-0.952	8.023	1.00	94.81	C
ATOM	912	C	VAL A 123	3.918	-1.062	8.359	1.00	94.81	C
ATOM	913	CB	VAL A 123	5.613	0.042	6.859	1.00	94.81	C
ATOM	914	O	VAL A 123	3.455	-0.490	9.352	1.00	94.81	O
ATOM	915	CG1	VAL A 123	4.895	1.359	7.141	1.00	94.81	C
ATOM	916	CG2	VAL A 123	7.105	0.283	6.629	1.00	94.81	C
ATOM	917	N	VAL A 124	3.154	-1.812	7.559	1.00	93.44	N
ATOM	918	CA	VAL A 124	1.722	-1.989	7.777	1.00	93.44	C
ATOM	919	C	VAL A 124	1.484	-2.678	9.117	1.00	93.44	C
ATOM	920	CB	VAL A 124	1.071	-2.803	6.637	1.00	93.44	C
ATOM	921	O	VAL A 124	0.591	-2.289	9.875	1.00	93.44	O
ATOM	922	CG1	VAL A 124	-0.360	-3.195	7.000	1.00	93.44	C
ATOM	923	CG2	VAL A 124	1.095	-2.008	5.332	1.00	93.44	C
ATOM	924	N	ALA A 125	2.271	-3.643	9.461	1.00	91.75	N
ATOM	925	CA	ALA A 125	2.139	-4.359	10.727	1.00	91.75	C
ATOM	926	C	ALA A 125	2.438	-3.439	11.906	1.00	91.75	C
ATOM	927	CB	ALA A 125	3.066	-5.570	10.750	1.00	91.75	C
ATOM	928	O	ALA A 125	1.730	-3.469	12.914	1.00	91.75	O
ATOM	929	N	GLU A 126	3.457	-2.699	11.797	1.00	93.94	N
ATOM	930	CA	GLU A 126	3.846	-1.784	12.867	1.00	93.94	C
ATOM	931	C	GLU A 126	2.760	-0.741	13.117	1.00	93.94	C
ATOM	932	CB	GLU A 126	5.168	-1.094	12.523	1.00	93.94	C
ATOM	933	O	GLU A 126	2.377	-0.501	14.266	1.00	93.94	O
ATOM	934	CG	GLU A 126	5.652	-0.134	13.602	1.00	93.94	C
ATOM	935	CD	GLU A 126	6.988	0.516	13.273	1.00	93.94	C
ATOM	936	OE1	GLU A 126	7.379	1.484	13.961	1.00	93.94	O
ATOM	937	OE2	GLU A 126	7.648	0.053	12.312	1.00	93.94	O
ATOM	938	N	VAL A 127	2.246	-0.131	12.094	1.00	93.75	N
ATOM	939	CA	VAL A 127	1.232	0.910	12.219	1.00	93.75	C
ATOM	940	C	VAL A 127	-0.062	0.305	12.758	1.00	93.75	C
ATOM	941	CB	VAL A 127	0.968	1.616	10.875	1.00	93.75	C
ATOM	942	O	VAL A 127	-0.695	0.874	13.656	1.00	93.75	O
ATOM	943	CG1	VAL A 127	-0.211	2.580	10.992	1.00	93.75	C
ATOM	944	CG2	VAL A 127	2.221	2.354	10.398	1.00	93.75	C
ATOM	945	N	SER A 128	-0.389	-0.819	12.234	1.00	91.88	N
ATOM	946	CA	SER A 128	-1.611	-1.489	12.672	1.00	91.88	C
ATOM	947	C	SER A 128	-1.559	-1.836	14.156	1.00	91.88	C
ATOM	948	CB	SER A 128	-1.846	-2.758	11.852	1.00	91.88	C
ATOM	949	O	SER A 128	-2.529	-1.622	14.883	1.00	91.88	O
ATOM	950	OG	SER A 128	-2.211	-2.436	10.516	1.00	91.88	O

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ATOM	951	N	ALA A 129	-0.508	-2.324	14.688	1.00	91.56	N
ATOM	952	CA	ALA A 129	-0.357	-2.695	16.094	1.00	91.56	C
ATOM	953	C	ALA A 129	-0.510	-1.479	17.000	1.00	91.56	C
ATOM	954	CB	ALA A 129	0.996	-3.363	16.328	1.00	91.56	C
ATOM	955	O	ALA A 129	-1.236	-1.527	18.000	1.00	91.56	O
ATOM	956	N	LYS A 130	0.119	-0.415	16.609	1.00	93.94	N
ATOM	957	CA	LYS A 130	0.048	0.805	17.406	1.00	93.94	C
ATOM	958	C	LYS A 130	-1.352	1.410	17.359	1.00	93.94	C
ATOM	959	CB	LYS A 130	1.076	1.826	16.922	1.00	93.94	C
ATOM	960	O	LYS A 130	-1.844	1.922	18.375	1.00	93.94	O
ATOM	961	CG	LYS A 130	2.514	1.473	17.266	1.00	93.94	C
ATOM	962	CD	LYS A 130	3.484	2.553	16.797	1.00	93.94	C
ATOM	963	CE	LYS A 130	4.930	2.176	17.109	1.00	93.94	C
ATOM	964	NZ	LYS A 130	5.887	3.203	16.594	1.00	93.94	N
ATOM	965	N	LEU A 131	-1.970	1.284	16.188	1.00	94.38	N
ATOM	966	CA	LEU A 131	-3.311	1.834	16.016	1.00	94.38	C
ATOM	967	C	LEU A 131	-4.305	1.127	16.938	1.00	94.38	C
ATOM	968	CB	LEU A 131	-3.768	1.710	14.562	1.00	94.38	C
ATOM	969	O	LEU A 131	-5.094	1.778	17.625	1.00	94.38	O
ATOM	970	CG	LEU A 131	-5.180	2.211	14.250	1.00	94.38	C
ATOM	971	CD1	LEU A 131	-5.246	3.729	14.398	1.00	94.38	C
ATOM	972	CD2	LEU A 131	-5.602	1.784	12.852	1.00	94.38	C
ATOM	973	N	TRP A 132	-4.230	-0.095	16.984	1.00	92.75	N
ATOM	974	CA	TRP A 132	-5.215	-0.858	17.734	1.00	92.75	C
ATOM	975	C	TRP A 132	-5.012	-0.672	19.234	1.00	92.75	C
ATOM	976	CB	TRP A 132	-5.137	-2.344	17.375	1.00	92.75	C
ATOM	977	O	TRP A 132	-5.969	-0.706	20.016	1.00	92.75	O
ATOM	978	CG	TRP A 132	-5.723	-2.680	16.047	1.00	92.75	C
ATOM	979	CD1	TRP A 132	-5.062	-3.188	14.961	1.00	92.75	C
ATOM	980	CD2	TRP A 132	-7.090	-2.523	15.648	1.00	92.75	C
ATOM	981	CE2	TRP A 132	-7.188	-2.959	14.305	1.00	92.75	C
ATOM	982	CE3	TRP A 132	-8.242	-2.059	16.297	1.00	92.75	C
ATOM	983	NE1	TRP A 132	-5.938	-3.359	13.906	1.00	92.75	N
ATOM	984	CH2	TRP A 132	-9.508	-2.484	14.258	1.00	92.75	C
ATOM	985	CZ2	TRP A 132	-8.391	-2.943	13.602	1.00	92.75	C
ATOM	986	CZ3	TRP A 132	-9.438	-2.045	15.594	1.00	92.75	C
ATOM	987	N	GLU A 133	-3.814	-0.478	19.703	1.00	92.88	N
ATOM	988	CA	GLU A 133	-3.582	-0.153	21.109	1.00	92.88	C
ATOM	989	C	GLU A 133	-4.273	1.150	21.500	1.00	92.88	C
ATOM	990	CB	GLU A 133	-2.082	-0.059	21.406	1.00	92.88	C
ATOM	991	O	GLU A 133	-4.930	1.227	22.547	1.00	92.88	O
ATOM	992	CG	GLU A 133	-1.363	-1.400	21.375	1.00	92.88	C
ATOM	993	CD	GLU A 133	0.132	-1.286	21.625	1.00	92.88	C
ATOM	994	OE1	GLU A 133	0.824	-2.330	21.656	1.00	92.88	O
ATOM	995	OE2	GLU A 133	0.614	-0.145	21.797	1.00	92.88	O
ATOM	996	N	LYS A 134	-4.215	2.084	20.594	1.00	93.81	N
ATOM	997	CA	LYS A 134	-4.836	3.383	20.844	1.00	93.81	C
ATOM	998	C	LYS A 134	-6.355	3.299	20.719	1.00	93.81	C
ATOM	999	CB	LYS A 134	-4.289	4.430	19.875	1.00	93.81	C
ATOM	1000	O	LYS A 134	-7.078	3.887	21.531	1.00	93.81	O
ATOM	1001	CG	LYS A 134	-2.840	4.816	20.125	1.00	93.81	C
ATOM	1002	CD	LYS A 134	-2.371	5.898	19.172	1.00	93.81	C
ATOM	1003	CE	LYS A 134	-0.897	6.227	19.375	1.00	93.81	C

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ATOM	1004	NZ	LYS	A 134	-0.432	7.285	18.422	1.00	93.81	N
ATOM	1005	N	PHE	A 135	-6.750	2.527	19.750	1.00	93.06	N
ATOM	1006	CA	PHE	A 135	-8.180	2.416	19.484	1.00	93.06	C
ATOM	1007	C	PHE	A 135	-8.891	1.729	20.656	1.00	93.06	C
ATOM	1008	CB	PHE	A 135	-8.438	1.646	18.188	1.00	93.06	C
ATOM	1009	O	PHE	A 135	-10.016	2.098	21.000	1.00	93.06	O
ATOM	1010	CG	PHE	A 135	-9.891	1.564	17.812	1.00	93.06	C
ATOM	1011	CD1	PHE	A 135	-10.547	0.340	17.766	1.00	93.06	C
ATOM	1012	CD2	PHE	A 135	-10.602	2.715	17.484	1.00	93.06	C
ATOM	1013	CE1	PHE	A 135	-11.891	0.262	17.406	1.00	93.06	C
ATOM	1014	CE2	PHE	A 135	-11.945	2.645	17.141	1.00	93.06	C
ATOM	1015	CZ	PHE	A 135	-12.586	1.418	17.094	1.00	93.06	C
ATOM	1016	N	GLU	A 136	-8.305	0.759	21.250	1.00	92.25	N
ATOM	1017	CA	GLU	A 136	-8.898	0.071	22.391	1.00	92.25	C
ATOM	1018	C	GLU	A 136	-9.133	1.032	23.547	1.00	92.25	C
ATOM	1019	CB	GLU	A 136	-8.008	-1.092	22.844	1.00	92.25	C
ATOM	1020	O	GLU	A 136	-10.141	0.934	24.250	1.00	92.25	O
ATOM	1021	CG	GLU	A 136	-8.039	-2.285	21.891	1.00	92.25	C
ATOM	1022	CD	GLU	A 136	-7.145	-3.428	22.344	1.00	92.25	C
ATOM	1023	OE1	GLU	A 136	-7.109	-4.480	21.672	1.00	92.25	O
ATOM	1024	OE2	GLU	A 136	-6.473	-3.273	23.391	1.00	92.25	O
ATOM	1025	N	THR	A 137	-8.211	1.926	23.734	1.00	93.44	N
ATOM	1026	CA	THR	A 137	-8.367	2.934	24.781	1.00	93.44	C
ATOM	1027	C	THR	A 137	-9.523	3.877	24.453	1.00	93.44	C
ATOM	1028	CB	THR	A 137	-7.070	3.748	24.953	1.00	93.44	C
ATOM	1029	O	THR	A 137	-10.328	4.195	25.328	1.00	93.44	O
ATOM	1030	CG2	THR	A 137	-7.215	4.770	26.078	1.00	93.44	C
ATOM	1031	OG1	THR	A 137	-5.992	2.857	25.266	1.00	93.44	O
ATOM	1032	N	VAL	A 138	-9.594	4.223	23.234	1.00	93.38	N
ATOM	1033	CA	VAL	A 138	-10.656	5.117	22.781	1.00	93.38	C
ATOM	1034	C	VAL	A 138	-12.008	4.418	22.906	1.00	93.38	C
ATOM	1035	CB	VAL	A 138	-10.430	5.594	21.328	1.00	93.38	C
ATOM	1036	O	VAL	A 138	-12.977	5.000	23.406	1.00	93.38	O
ATOM	1037	CG1	VAL	A 138	-11.656	6.324	20.812	1.00	93.38	C
ATOM	1038	CG2	VAL	A 138	-9.195	6.496	21.266	1.00	93.38	C
ATOM	1039	N	LEU	A 139	-12.031	3.213	22.453	1.00	92.56	N
ATOM	1040	CA	LEU	A 139	-13.266	2.438	22.516	1.00	92.56	C
ATOM	1041	C	LEU	A 139	-13.734	2.287	23.969	1.00	92.56	C
ATOM	1042	CB	LEU	A 139	-13.070	1.058	21.891	1.00	92.56	C
ATOM	1043	O	LEU	A 139	-14.922	2.430	24.250	1.00	92.56	O
ATOM	1044	CG	LEU	A 139	-14.297	0.139	21.875	1.00	92.56	C
ATOM	1045	CD1	LEU	A 139	-15.422	0.771	21.062	1.00	92.56	C
ATOM	1046	CD2	LEU	A 139	-13.930	-1.230	21.312	1.00	92.56	C
ATOM	1047	N	ALA	A 140	-12.828	2.010	24.844	1.00	91.88	N
ATOM	1048	CA	ALA	A 140	-13.164	1.871	26.266	1.00	91.88	C
ATOM	1049	C	ALA	A 140	-13.773	3.158	26.812	1.00	91.88	C
ATOM	1050	CB	ALA	A 140	-11.922	1.489	27.062	1.00	91.88	C
ATOM	1051	O	ALA	A 140	-14.742	3.117	27.562	1.00	91.88	O
ATOM	1052	N	ALA	A 141	-13.219	4.281	26.469	1.00	93.81	N
ATOM	1053	CA	ALA	A 141	-13.719	5.582	26.922	1.00	93.81	C
ATOM	1054	C	ALA	A 141	-15.117	5.848	26.375	1.00	93.81	C
ATOM	1055	CB	ALA	A 141	-12.766	6.691	26.484	1.00	93.81	C
ATOM	1056	O	ALA	A 141	-16.000	6.309	27.094	1.00	93.81	O

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ATOM	1057	N	VAL A 142	-15.344	5.527	25.062	1.00	93.56	N
ATOM	1058	CA	VAL A 142	-16.641	5.715	24.438	1.00	93.56	C
ATOM	1059	C	VAL A 142	-17.672	4.797	25.078	1.00	93.56	C
ATOM	1060	CB	VAL A 142	-16.578	5.445	22.906	1.00	93.56	C
ATOM	1061	O	VAL A 142	-18.797	5.227	25.391	1.00	93.56	O
ATOM	1062	CG1	VAL A 142	-17.969	5.379	22.312	1.00	93.56	C
ATOM	1063	CG2	VAL A 142	-15.742	6.523	22.219	1.00	93.56	C
ATOM	1064	N	LEU A 143	-17.281	3.623	25.328	1.00	93.69	N
ATOM	1065	CA	LEU A 143	-18.172	2.637	25.922	1.00	93.69	C
ATOM	1066	C	LEU A 143	-18.578	3.053	27.344	1.00	93.69	C
ATOM	1067	CB	LEU A 143	-17.500	1.260	25.953	1.00	93.69	C
ATOM	1068	O	LEU A 143	-19.719	2.869	27.750	1.00	93.69	O
ATOM	1069	CG	LEU A 143	-17.500	0.481	24.641	1.00	93.69	C
ATOM	1070	CD1	LEU A 143	-16.656	-0.780	24.781	1.00	93.69	C
ATOM	1071	CD2	LEU A 143	-18.922	0.133	24.219	1.00	93.69	C
ATOM	1072	N	ALA A 144	-17.656	3.547	28.125	1.00	93.12	N
ATOM	1073	CA	ALA A 144	-17.938	4.008	29.484	1.00	93.12	C
ATOM	1074	C	ALA A 144	-19.031	5.066	29.484	1.00	93.12	C
ATOM	1075	CB	ALA A 144	-16.672	4.559	30.141	1.00	93.12	C
ATOM	1076	O	ALA A 144	-19.938	5.039	30.328	1.00	93.12	O
ATOM	1077	N	LYS A 145	-19.047	5.934	28.484	1.00	93.75	N
ATOM	1078	CA	LYS A 145	-20.047	6.992	28.375	1.00	93.75	C
ATOM	1079	C	LYS A 145	-21.422	6.422	28.031	1.00	93.75	C
ATOM	1080	CB	LYS A 145	-19.625	8.023	27.312	1.00	93.75	C
ATOM	1081	O	LYS A 145	-22.438	6.836	28.594	1.00	93.75	O
ATOM	1082	CG	LYS A 145	-18.484	8.922	27.750	1.00	93.75	C
ATOM	1083	CD	LYS A 145	-18.156	9.961	26.688	1.00	93.75	C
ATOM	1084	CE	LYS A 145	-16.938	10.797	27.078	1.00	93.75	C
ATOM	1085	NZ	LYS A 145	-16.578	11.789	26.016	1.00	93.75	N
ATOM	1086	N	ILE A 146	-21.406	5.391	27.188	1.00	92.94	N
ATOM	1087	CA	ILE A 146	-22.672	4.812	26.750	1.00	92.94	C
ATOM	1088	C	ILE A 146	-23.266	3.951	27.859	1.00	92.94	C
ATOM	1089	CB	ILE A 146	-22.500	3.980	25.453	1.00	92.94	C
ATOM	1090	O	ILE A 146	-24.469	3.998	28.125	1.00	92.94	O
ATOM	1091	CG1	ILE A 146	-22.062	4.879	24.297	1.00	92.94	C
ATOM	1092	CG2	ILE A 146	-23.797	3.238	25.109	1.00	92.94	C
ATOM	1093	CD1	ILE A 146	-23.031	6.016	23.984	1.00	92.94	C
ATOM	1094	N	LEU A 147	-22.438	3.311	28.516	1.00	93.25	N
ATOM	1095	CA	LEU A 147	-22.906	2.438	29.578	1.00	93.25	C
ATOM	1096	C	LEU A 147	-23.500	3.252	30.734	1.00	93.25	C
ATOM	1097	CB	LEU A 147	-21.766	1.562	30.094	1.00	93.25	C
ATOM	1098	O	LEU A 147	-24.469	2.824	31.359	1.00	93.25	O
ATOM	1099	CG	LEU A 147	-21.297	0.433	29.172	1.00	93.25	C
ATOM	1100	CD1	LEU A 147	-20.078	-0.260	29.766	1.00	93.25	C
ATOM	1101	CD2	LEU A 147	-22.422	-0.567	28.953	1.00	93.25	C
ATOM	1102	N	ALA A 148	-22.969	4.418	31.016	1.00	92.25	N
ATOM	1103	CA	ALA A 148	-23.469	5.297	32.062	1.00	92.25	C
ATOM	1104	C	ALA A 148	-24.891	5.758	31.781	1.00	92.25	C
ATOM	1105	CB	ALA A 148	-22.547	6.500	32.250	1.00	92.25	C
ATOM	1106	O	ALA A 148	-25.641	6.102	32.688	1.00	92.25	O
ATOM	1107	N	ALA A 149	-25.266	5.668	30.500	1.00	91.00	N
ATOM	1108	CA	ALA A 149	-26.578	6.160	30.094	1.00	91.00	C
ATOM	1109	C	ALA A 149	-27.625	5.051	30.141	1.00	91.00	C

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ATOM	1110	CB	ALA A 149	-26.500	6.746	28.688	1.00	91.00	C
ATOM	1111	O	ALA A 149	-28.812	5.312	30.031	1.00	91.00	O
ATOM	1112	N	LEU A 150	-27.234	3.844	30.297	1.00	89.00	N
ATOM	1113	CA	LEU A 150	-28.141	2.689	30.281	1.00	89.00	C
ATOM	1114	C	LEU A 150	-28.234	2.062	31.656	1.00	89.00	C
ATOM	1115	CB	LEU A 150	-27.641	1.646	29.266	1.00	89.00	C
ATOM	1116	O	LEU A 150	-27.484	2.426	32.562	1.00	89.00	O
ATOM	1117	CG	LEU A 150	-27.578	2.090	27.812	1.00	89.00	C
ATOM	1118	CD1	LEU A 150	-26.828	1.059	26.969	1.00	89.00	C
ATOM	1119	CD2	LEU A 150	-28.984	2.314	27.250	1.00	89.00	C
ATOM	1120	N	SER A 151	-29.234	1.177	31.797	1.00	86.38	N
ATOM	1121	CA	SER A 151	-29.359	0.426	33.031	1.00	86.38	C
ATOM	1122	C	SER A 151	-28.219	-0.581	33.188	1.00	86.38	C
ATOM	1123	CB	SER A 151	-30.703	-0.297	33.094	1.00	86.38	C
ATOM	1124	O	SER A 151	-27.641	-1.021	32.188	1.00	86.38	O
ATOM	1125	OG	SER A 151	-30.766	-1.328	32.125	1.00	86.38	O
ATOM	1126	N	GLU A 152	-27.859	-0.880	34.406	1.00	88.06	N
ATOM	1127	CA	GLU A 152	-26.797	-1.846	34.688	1.00	88.06	C
ATOM	1128	C	GLU A 152	-27.094	-3.191	34.031	1.00	88.06	C
ATOM	1129	CB	GLU A 152	-26.609	-2.023	36.188	1.00	88.06	C
ATOM	1130	O	GLU A 152	-26.188	-3.928	33.656	1.00	88.06	O
ATOM	1131	CG	GLU A 152	-25.953	-0.833	36.875	1.00	88.06	C
ATOM	1132	CD	GLU A 152	-25.703	-1.049	38.375	1.00	88.06	C
ATOM	1133	OE1	GLU A 152	-25.188	-0.130	39.031	1.00	88.06	O
ATOM	1134	OE2	GLU A 152	-26.047	-2.146	38.844	1.00	88.06	O
ATOM	1135	N	ALA A 153	-28.406	-3.504	33.938	1.00	85.25	N
ATOM	1136	CA	ALA A 153	-28.828	-4.762	33.312	1.00	85.25	C
ATOM	1137	C	ALA A 153	-28.438	-4.812	31.844	1.00	85.25	C
ATOM	1138	CB	ALA A 153	-30.344	-4.957	33.469	1.00	85.25	C
ATOM	1139	O	ALA A 153	-28.250	-5.895	31.281	1.00	85.25	O
ATOM	1140	N	ALA A 154	-28.266	-3.637	31.234	1.00	85.38	N
ATOM	1141	CA	ALA A 154	-27.969	-3.541	29.797	1.00	85.38	C
ATOM	1142	C	ALA A 154	-26.484	-3.727	29.531	1.00	85.38	C
ATOM	1143	CB	ALA A 154	-28.453	-2.199	29.250	1.00	85.38	C
ATOM	1144	O	ALA A 154	-26.078	-4.023	28.406	1.00	85.38	O
ATOM	1145	N	HIS A 155	-25.609	-3.652	30.547	1.00	89.81	N
ATOM	1146	CA	HIS A 155	-24.172	-3.553	30.375	1.00	89.81	C
ATOM	1147	C	HIS A 155	-23.609	-4.801	29.719	1.00	89.81	C
ATOM	1148	CB	HIS A 155	-23.484	-3.324	31.734	1.00	89.81	C
ATOM	1149	O	HIS A 155	-22.828	-4.707	28.750	1.00	89.81	O
ATOM	1150	CG	HIS A 155	-23.641	-1.931	32.250	1.00	89.81	C
ATOM	1151	CD2	HIS A 155	-24.531	-0.963	31.953	1.00	89.81	C
ATOM	1152	ND1	HIS A 155	-22.781	-1.393	33.188	1.00	89.81	N
ATOM	1153	CE1	HIS A 155	-23.156	-0.151	33.469	1.00	89.81	C
ATOM	1154	NE2	HIS A 155	-24.219	0.134	32.719	1.00	89.81	N
ATOM	1155	N	PRO A 156	-24.000	-5.918	30.156	1.00	91.50	N
ATOM	1156	CA	PRO A 156	-23.406	-7.121	29.578	1.00	91.50	C
ATOM	1157	C	PRO A 156	-23.672	-7.258	28.078	1.00	91.50	C
ATOM	1158	CB	PRO A 156	-24.062	-8.258	30.359	1.00	91.50	C
ATOM	1159	O	PRO A 156	-22.781	-7.676	27.328	1.00	91.50	O
ATOM	1160	CG	PRO A 156	-24.391	-7.664	31.688	1.00	91.50	C
ATOM	1161	CD	PRO A 156	-24.797	-6.230	31.484	1.00	91.50	C
ATOM	1162	N	LEU A 157	-24.906	-6.910	27.609	1.00	91.81	N

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ATOM	1163	CA	LEU A 157	-25.250	-7.027	26.203	1.00	91.81	C
ATOM	1164	C	LEU A 157	-24.453	-6.031	25.359	1.00	91.81	C
ATOM	1165	CB	LEU A 157	-26.750	-6.801	25.984	1.00	91.81	C
ATOM	1166	O	LEU A 157	-23.953	-6.375	24.297	1.00	91.81	O
ATOM	1167	CG	LEU A 157	-27.312	-7.184	24.625	1.00	91.81	C
ATOM	1168	CD1	LEU A 157	-27.188	-8.688	24.391	1.00	91.81	C
ATOM	1169	CD2	LEU A 157	-28.766	-6.742	24.484	1.00	91.81	C
ATOM	1170	N	VAL A 158	-24.328	-4.789	25.891	1.00	93.44	N
ATOM	1171	CA	VAL A 158	-23.594	-3.742	25.203	1.00	93.44	C
ATOM	1172	C	VAL A 158	-22.109	-4.109	25.141	1.00	93.44	C
ATOM	1173	CB	VAL A 158	-23.766	-2.369	25.891	1.00	93.44	C
ATOM	1174	O	VAL A 158	-21.469	-3.982	24.094	1.00	93.44	O
ATOM	1175	CG1	VAL A 158	-22.891	-1.312	25.219	1.00	93.44	C
ATOM	1176	CG2	VAL A 158	-25.234	-1.945	25.844	1.00	93.44	C
ATOM	1177	N	GLU A 159	-21.516	-4.539	26.156	1.00	94.56	N
ATOM	1178	CA	GLU A 159	-20.109	-4.930	26.203	1.00	94.56	C
ATOM	1179	C	GLU A 159	-19.844	-6.090	25.250	1.00	94.56	C
ATOM	1180	CB	GLU A 159	-19.703	-5.305	27.625	1.00	94.56	C
ATOM	1181	O	GLU A 159	-18.797	-6.113	24.578	1.00	94.56	O
ATOM	1182	CG	GLU A 159	-19.594	-4.117	28.562	1.00	94.56	C
ATOM	1183	CD	GLU A 159	-19.281	-4.516	30.000	1.00	94.56	C
ATOM	1184	OE1	GLU A 159	-18.953	-3.627	30.812	1.00	94.56	O
ATOM	1185	OE2	GLU A 159	-19.375	-5.723	30.312	1.00	94.56	O
ATOM	1186	N	ALA A 160	-20.719	-7.094	25.266	1.00	93.56	N
ATOM	1187	CA	ALA A 160	-20.562	-8.219	24.359	1.00	93.56	C
ATOM	1188	C	ALA A 160	-20.609	-7.762	22.906	1.00	93.56	C
ATOM	1189	CB	ALA A 160	-21.641	-9.266	24.609	1.00	93.56	C
ATOM	1190	O	ALA A 160	-19.812	-8.211	22.078	1.00	93.56	O
ATOM	1191	N	ALA A 161	-21.578	-6.840	22.594	1.00	93.62	N
ATOM	1192	CA	ALA A 161	-21.688	-6.305	21.234	1.00	93.62	C
ATOM	1193	C	ALA A 161	-20.438	-5.512	20.859	1.00	93.62	C
ATOM	1194	CB	ALA A 161	-22.938	-5.422	21.109	1.00	93.62	C
ATOM	1195	O	ALA A 161	-19.938	-5.629	19.734	1.00	93.62	O
ATOM	1196	N	ALA A 162	-19.953	-4.730	21.750	1.00	93.62	N
ATOM	1197	CA	ALA A 162	-18.734	-3.951	21.516	1.00	93.62	C
ATOM	1198	C	ALA A 162	-17.547	-4.863	21.266	1.00	93.62	C
ATOM	1199	CB	ALA A 162	-18.453	-3.035	22.703	1.00	93.62	C
ATOM	1200	O	ALA A 162	-16.734	-4.598	20.359	1.00	93.62	O
ATOM	1201	N	ALA A 163	-17.391	-5.906	22.094	1.00	94.06	N
ATOM	1202	CA	ALA A 163	-16.297	-6.867	21.891	1.00	94.06	C
ATOM	1203	C	ALA A 163	-16.391	-7.539	20.531	1.00	94.06	C
ATOM	1204	CB	ALA A 163	-16.328	-7.922	23.000	1.00	94.06	C
ATOM	1205	O	ALA A 163	-15.383	-7.719	19.844	1.00	94.06	O
ATOM	1206	N	GLU A 164	-17.594	-7.895	20.125	1.00	94.88	N
ATOM	1207	CA	GLU A 164	-17.812	-8.492	18.812	1.00	94.88	C
ATOM	1208	C	GLU A 164	-17.453	-7.516	17.688	1.00	94.88	C
ATOM	1209	CB	GLU A 164	-19.266	-8.945	18.656	1.00	94.88	C
ATOM	1210	O	GLU A 164	-16.828	-7.902	16.703	1.00	94.88	O
ATOM	1211	CG	GLU A 164	-19.547	-9.734	17.391	1.00	94.88	C
ATOM	1212	CD	GLU A 164	-20.969	-10.250	17.297	1.00	94.88	C
ATOM	1213	OE1	GLU A 164	-21.344	-10.805	16.250	1.00	94.88	O
ATOM	1214	OE2	GLU A 164	-21.703	-10.102	18.297	1.00	94.88	O
ATOM	1215	N	ALA A 165	-17.953	-6.258	17.828	1.00	94.25	N

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ATOM	1216	CA	ALA A 165	-17.641	-5.234	16.828	1.00	94.25	C
ATOM	1217	C	ALA A 165	-16.141	-5.047	16.688	1.00	94.25	C
ATOM	1218	CB	ALA A 165	-18.312	-3.912	17.203	1.00	94.25	C
ATOM	1219	O	ALA A 165	-15.625	-4.949	15.562	1.00	94.25	O
ATOM	1220	N	LEU A 166	-15.438	-4.980	17.844	1.00	94.62	N
ATOM	1221	CA	LEU A 166	-13.992	-4.816	17.828	1.00	94.62	C
ATOM	1222	C	LEU A 166	-13.320	-6.000	17.141	1.00	94.62	C
ATOM	1223	CB	LEU A 166	-13.453	-4.668	19.250	1.00	94.62	C
ATOM	1224	O	LEU A 166	-12.422	-5.816	16.312	1.00	94.62	O
ATOM	1225	CG	LEU A 166	-11.938	-4.484	19.391	1.00	94.62	C
ATOM	1226	CD1	LEU A 166	-11.492	-3.232	18.641	1.00	94.62	C
ATOM	1227	CD2	LEU A 166	-11.539	-4.414	20.859	1.00	94.62	C
ATOM	1228	N	ALA A 167	-13.656	-7.242	17.500	1.00	94.75	N
ATOM	1229	CA	ALA A 167	-13.094	-8.430	16.859	1.00	94.75	C
ATOM	1230	C	ALA A 167	-13.344	-8.430	15.359	1.00	94.75	C
ATOM	1231	CB	ALA A 167	-13.664	-9.695	17.500	1.00	94.75	C
ATOM	1232	O	ALA A 167	-12.445	-8.750	14.578	1.00	94.75	O
ATOM	1233	N	THR A 168	-14.547	-8.078	14.984	1.00	95.62	N
ATOM	1234	CA	THR A 168	-14.914	-8.016	13.570	1.00	95.62	C
ATOM	1235	C	THR A 168	-14.102	-6.938	12.852	1.00	95.62	C
ATOM	1236	CB	THR A 168	-16.422	-7.738	13.391	1.00	95.62	C
ATOM	1237	O	THR A 168	-13.648	-7.145	11.727	1.00	95.62	O
ATOM	1238	CG2	THR A 168	-16.797	-7.676	11.914	1.00	95.62	C
ATOM	1239	OG1	THR A 168	-17.172	-8.781	14.023	1.00	95.62	O
ATOM	1240	N	ALA A 169	-13.961	-5.781	13.461	1.00	94.75	N
ATOM	1241	CA	ALA A 169	-13.172	-4.695	12.891	1.00	94.75	C
ATOM	1242	C	ALA A 169	-11.734	-5.141	12.625	1.00	94.75	C
ATOM	1243	CB	ALA A 169	-13.188	-3.482	13.812	1.00	94.75	C
ATOM	1244	O	ALA A 169	-11.188	-4.887	11.547	1.00	94.75	O
ATOM	1245	N	ARG A 170	-11.156	-5.859	13.547	1.00	95.44	N
ATOM	1246	CA	ARG A 170	-9.789	-6.348	13.398	1.00	95.44	C
ATOM	1247	C	ARG A 170	-9.688	-7.336	12.242	1.00	95.44	C
ATOM	1248	CB	ARG A 170	-9.312	-7.008	14.695	1.00	95.44	C
ATOM	1249	O	ARG A 170	-8.734	-7.277	11.461	1.00	95.44	O
ATOM	1250	CG	ARG A 170	-8.961	-6.020	15.797	1.00	95.44	C
ATOM	1251	CD	ARG A 170	-8.391	-6.719	17.016	1.00	95.44	C
ATOM	1252	NE	ARG A 170	-7.910	-5.762	18.016	1.00	95.44	N
ATOM	1253	NH1	ARG A 170	-7.324	-7.363	19.578	1.00	95.44	N
ATOM	1254	NH2	ARG A 170	-7.000	-5.141	20.031	1.00	95.44	N
ATOM	1255	CZ	ARG A 170	-7.414	-6.090	19.203	1.00	95.44	C
ATOM	1256	N	GLU A 171	-10.602	-8.172	12.242	1.00	96.19	N
ATOM	1257	CA	GLU A 171	-10.602	-9.188	11.195	1.00	96.19	C
ATOM	1258	C	GLU A 171	-10.727	-8.547	9.812	1.00	96.19	C
ATOM	1259	CB	GLU A 171	-11.734	-10.195	11.414	1.00	96.19	C
ATOM	1260	O	GLU A 171	-9.977	-8.898	8.898	1.00	96.19	O
ATOM	1261	CG	GLU A 171	-11.734	-11.344	10.422	1.00	96.19	C
ATOM	1262	CD	GLU A 171	-12.891	-12.305	10.625	1.00	96.19	C
ATOM	1263	OE1	GLU A 171	-13.070	-13.227	9.789	1.00	96.19	O
ATOM	1264	OE2	GLU A 171	-13.625	-12.148	11.625	1.00	96.19	O
ATOM	1265	N	LEU A 172	-11.672	-7.652	9.680	1.00	95.88	N
ATOM	1266	CA	LEU A 172	-11.891	-6.988	8.398	1.00	95.88	C
ATOM	1267	C	LEU A 172	-10.672	-6.156	8.008	1.00	95.88	C
ATOM	1268	CB	LEU A 172	-13.133	-6.094	8.469	1.00	95.88	C

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ATOM	1269	O	LEU A 172	-10.281	-6.137	6.840	1.00	95.88	O
ATOM	1270	CG	LEU A 172	-14.484	-6.812	8.523	1.00	95.88	C
ATOM	1271	CD1	LEU A 172	-15.617	-5.801	8.578	1.00	95.88	C
ATOM	1272	CD2	LEU A 172	-14.641	-7.742	7.328	1.00	95.88	C
ATOM	1273	N	ALA A 173	-10.109	-5.438	8.984	1.00	94.56	N
ATOM	1274	CA	ALA A 173	-8.914	-4.629	8.734	1.00	94.56	C
ATOM	1275	C	ALA A 173	-7.758	-5.492	8.242	1.00	94.56	C
ATOM	1276	CB	ALA A 173	-8.508	-3.875	10.000	1.00	94.56	C
ATOM	1277	O	ALA A 173	-7.031	-5.102	7.328	1.00	94.56	O
ATOM	1278	N	LYS A 174	-7.605	-6.598	8.875	1.00	95.06	N
ATOM	1279	CA	LYS A 174	-6.566	-7.523	8.422	1.00	95.06	C
ATOM	1280	C	LYS A 174	-6.824	-7.984	6.992	1.00	95.06	C
ATOM	1281	CB	LYS A 174	-6.488	-8.734	9.359	1.00	95.06	C
ATOM	1282	O	LYS A 174	-5.898	-8.047	6.180	1.00	95.06	O
ATOM	1283	CG	LYS A 174	-5.355	-9.695	9.031	1.00	95.06	C
ATOM	1284	CD	LYS A 174	-5.297	-10.852	10.016	1.00	95.06	C
ATOM	1285	CE	LYS A 174	-4.184	-11.828	9.672	1.00	95.06	C
ATOM	1286	NZ	LYS A 174	-4.168	-13.000	10.594	1.00	95.06	N
ATOM	1287	N	LYS A 175	-7.996	-8.359	6.668	1.00	94.81	N
ATOM	1288	CA	LYS A 175	-8.352	-8.797	5.320	1.00	94.81	C
ATOM	1289	C	LYS A 175	-8.055	-7.703	4.293	1.00	94.81	C
ATOM	1290	CB	LYS A 175	-9.828	-9.195	5.254	1.00	94.81	C
ATOM	1291	O	LYS A 175	-7.484	-7.977	3.236	1.00	94.81	O
ATOM	1292	CG	LYS A 175	-10.133	-10.531	5.902	1.00	94.81	C
ATOM	1293	CD	LYS A 175	-11.602	-10.914	5.727	1.00	94.81	C
ATOM	1294	CE	LYS A 175	-11.930	-12.227	6.434	1.00	94.81	C
ATOM	1295	NZ	LYS A 175	-13.375	-12.570	6.316	1.00	94.81	N
ATOM	1296	N	VAL A 176	-8.492	-6.496	4.633	1.00	94.44	N
ATOM	1297	CA	VAL A 176	-8.281	-5.367	3.734	1.00	94.44	C
ATOM	1298	C	VAL A 176	-6.789	-5.117	3.561	1.00	94.44	C
ATOM	1299	CB	VAL A 176	-8.977	-4.090	4.254	1.00	94.44	C
ATOM	1300	O	VAL A 176	-6.309	-4.934	2.439	1.00	94.44	O
ATOM	1301	CG1	VAL A 176	-8.500	-2.861	3.482	1.00	94.44	C
ATOM	1302	CG2	VAL A 176	-10.500	-4.230	4.152	1.00	94.44	C
ATOM	1303	N	SER A 177	-6.035	-5.137	4.625	1.00	93.81	N
ATOM	1304	CA	SER A 177	-4.590	-4.934	4.555	1.00	93.81	C
ATOM	1305	C	SER A 177	-3.918	-6.023	3.727	1.00	93.81	C
ATOM	1306	CB	SER A 177	-3.986	-4.906	5.961	1.00	93.81	C
ATOM	1307	O	SER A 177	-3.051	-5.734	2.898	1.00	93.81	O
ATOM	1308	OG	SER A 177	-4.457	-3.785	6.688	1.00	93.81	O
ATOM	1309	N	ASP A 178	-4.312	-7.250	3.949	1.00	94.56	N
ATOM	1310	CA	ASP A 178	-3.750	-8.359	3.186	1.00	94.56	C
ATOM	1311	C	ASP A 178	-4.035	-8.203	1.694	1.00	94.56	C
ATOM	1312	CB	ASP A 178	-4.309	-9.695	3.688	1.00	94.56	C
ATOM	1313	O	ASP A 178	-3.160	-8.453	0.861	1.00	94.56	O
ATOM	1314	CG	ASP A 178	-3.762	-10.094	5.047	1.00	94.56	C
ATOM	1315	OD1	ASP A 178	-2.752	-9.508	5.492	1.00	94.56	O
ATOM	1316	OD2	ASP A 178	-4.340	-11.008	5.676	1.00	94.56	O
ATOM	1317	N	GLU A 179	-5.184	-7.812	1.410	1.00	95.50	N
ATOM	1318	CA	GLU A 179	-5.555	-7.605	0.014	1.00	95.50	C
ATOM	1319	C	GLU A 179	-4.727	-6.492	-0.619	1.00	95.50	C
ATOM	1320	CB	GLU A 179	-7.047	-7.281	-0.101	1.00	95.50	C
ATOM	1321	O	GLU A 179	-4.270	-6.621	-1.756	1.00	95.50	O

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ATOM	1322	CG	GLU A 179	-7.559	-7.242	-1.533	1.00	95.50	C
ATOM	1323	CD	GLU A 179	-9.078	-7.184	-1.627	1.00	95.50	C
ATOM	1324	OE1	GLU A 179	-9.609	-6.891	-2.723	1.00	95.50	O
ATOM	1325	OE2	GLU A 179	-9.742	-7.430	-0.596	1.00	95.50	O
ATOM	1326	N	LEU A 180	-4.566	-5.379	0.125	1.00	94.69	N
ATOM	1327	CA	LEU A 180	-3.770	-4.270	-0.385	1.00	94.69	C
ATOM	1328	C	LEU A 180	-2.324	-4.695	-0.618	1.00	94.69	C
ATOM	1329	CB	LEU A 180	-3.814	-3.086	0.587	1.00	94.69	C
ATOM	1330	O	LEU A 180	-1.732	-4.363	-1.647	1.00	94.69	O
ATOM	1331	CG	LEU A 180	-5.156	-2.361	0.711	1.00	94.69	C
ATOM	1332	CD1	LEU A 180	-5.070	-1.270	1.773	1.00	94.69	C
ATOM	1333	CD2	LEU A 180	-5.574	-1.774	-0.633	1.00	94.69	C
ATOM	1334	N	LEU A 181	-1.818	-5.449	0.267	1.00	93.56	N
ATOM	1335	CA	LEU A 181	-0.444	-5.926	0.161	1.00	93.56	C
ATOM	1336	C	LEU A 181	-0.287	-6.875	-1.021	1.00	93.56	C
ATOM	1337	CB	LEU A 181	-0.017	-6.625	1.455	1.00	93.56	C
ATOM	1338	O	LEU A 181	0.749	-6.875	-1.689	1.00	93.56	O
ATOM	1339	CG	LEU A 181	0.228	-5.723	2.664	1.00	93.56	C
ATOM	1340	CD1	LEU A 181	0.442	-6.562	3.918	1.00	93.56	C
ATOM	1341	CD2	LEU A 181	1.424	-4.809	2.416	1.00	93.56	C
ATOM	1342	N	ALA A 182	-1.252	-7.715	-1.274	1.00	92.31	N
ATOM	1343	CA	ALA A 182	-1.201	-8.656	-2.389	1.00	92.31	C
ATOM	1344	C	ALA A 182	-1.217	-7.926	-3.729	1.00	92.31	C
ATOM	1345	CB	ALA A 182	-2.369	-9.641	-2.309	1.00	92.31	C
ATOM	1346	O	ALA A 182	-0.750	-8.461	-4.738	1.00	92.31	O
ATOM	1347	N	LYS A 183	-1.717	-6.746	-3.699	1.00	92.00	N
ATOM	1348	CA	LYS A 183	-1.858	-5.980	-4.934	1.00	92.00	C
ATOM	1349	C	LYS A 183	-0.865	-4.820	-4.977	1.00	92.00	C
ATOM	1350	CB	LYS A 183	-3.287	-5.449	-5.074	1.00	92.00	C
ATOM	1351	O	LYS A 183	-1.128	-3.793	-5.605	1.00	92.00	O
ATOM	1352	CG	LYS A 183	-4.328	-6.535	-5.293	1.00	92.00	C
ATOM	1353	CD	LYS A 183	-5.727	-5.945	-5.449	1.00	92.00	C
ATOM	1354	CE	LYS A 183	-6.770	-7.027	-5.688	1.00	92.00	C
ATOM	1355	NZ	LYS A 183	-8.148	-6.461	-5.789	1.00	92.00	N
ATOM	1356	N	ILE A 184	0.315	-4.969	-4.289	1.00	88.25	N
ATOM	1357	CA	ILE A 184	1.283	-3.889	-4.129	1.00	88.25	C
ATOM	1358	C	ILE A 184	1.868	-3.514	-5.488	1.00	88.25	C
ATOM	1359	CB	ILE A 184	2.412	-4.281	-3.150	1.00	88.25	C
ATOM	1360	O	ILE A 184	2.328	-2.387	-5.684	1.00	88.25	O
ATOM	1361	CG1	ILE A 184	3.242	-3.051	-2.768	1.00	88.25	C
ATOM	1362	CG2	ILE A 184	3.299	-5.371	-3.760	1.00	88.25	C
ATOM	1363	CD1	ILE A 184	4.133	-3.260	-1.552	1.00	88.25	C
ATOM	1364	N	ASP A 185	1.723	-4.438	-6.453	1.00	87.69	N
ATOM	1365	CA	ASP A 185	2.277	-4.180	-7.777	1.00	87.69	C
ATOM	1366	C	ASP A 185	1.294	-3.391	-8.641	1.00	87.69	C
ATOM	1367	CB	ASP A 185	2.650	-5.488	-8.469	1.00	87.69	C
ATOM	1368	O	ASP A 185	1.661	-2.875	-9.695	1.00	87.69	O
ATOM	1369	CG	ASP A 185	3.836	-6.188	-7.824	1.00	87.69	C
ATOM	1370	OD1	ASP A 185	4.750	-5.496	-7.324	1.00	87.69	O
ATOM	1371	OD2	ASP A 185	3.855	-7.438	-7.820	1.00	87.69	O
ATOM	1372	N	GLU A 186	0.111	-3.283	-8.180	1.00	89.50	N
ATOM	1373	CA	GLU A 186	-0.919	-2.561	-8.922	1.00	89.50	C
ATOM	1374	C	GLU A 186	-0.955	-1.088	-8.523	1.00	89.50	C

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ATOM	1375	CB	GLU A 186	-2.291	-3.199	-8.695	1.00	89.50	C
ATOM	1376	O	GLU A 186	-0.646	-0.740	-7.383	1.00	89.50	O
ATOM	1377	CG	GLU A 186	-2.385	-4.641	-9.180	1.00	89.50	C
ATOM	1378	CD	GLU A 186	-3.762	-5.254	-8.977	1.00	89.50	C
ATOM	1379	OE1	GLU A 186	-3.883	-6.500	-9.016	1.00	89.50	O
ATOM	1380	OE2	GLU A 186	-4.727	-4.480	-8.773	1.00	89.50	O
ATOM	1381	N	LYS A 187	-1.175	-0.261	-9.555	1.00	88.00	N
ATOM	1382	CA	LYS A 187	-1.287	1.172	-9.297	1.00	88.00	C
ATOM	1383	C	LYS A 187	-2.682	1.532	-8.789	1.00	88.00	C
ATOM	1384	CB	LYS A 187	-0.963	1.971	-10.555	1.00	88.00	C
ATOM	1385	O	LYS A 187	-3.684	1.070	-9.344	1.00	88.00	O
ATOM	1386	CG	LYS A 187	-0.792	3.463	-10.320	1.00	88.00	C
ATOM	1387	CD	LYS A 187	-0.405	4.195	-11.602	1.00	88.00	C
ATOM	1388	CE	LYS A 187	-0.306	5.699	-11.375	1.00	88.00	C
ATOM	1389	NZ	LYS A 187	0.057	6.418	-12.633	1.00	88.00	N
ATOM	1390	N	ASP A 188	-2.742	2.211	-7.684	1.00	90.81	N
ATOM	1391	CA	ASP A 188	-3.982	2.795	-7.188	1.00	90.81	C
ATOM	1392	C	ASP A 188	-5.035	1.718	-6.934	1.00	90.81	C
ATOM	1393	CB	ASP A 188	-4.520	3.834	-8.172	1.00	90.81	C
ATOM	1394	O	ASP A 188	-5.918	1.498	-7.766	1.00	90.81	O
ATOM	1395	CG	ASP A 188	-3.570	5.000	-8.383	1.00	90.81	C
ATOM	1396	OD1	ASP A 188	-3.111	5.602	-7.387	1.00	90.81	O
ATOM	1397	OD2	ASP A 188	-3.281	5.324	-9.555	1.00	90.81	O
ATOM	1398	N	VAL A 189	-5.035	1.133	-5.836	1.00	93.69	N
ATOM	1399	CA	VAL A 189	-5.949	0.070	-5.430	1.00	93.69	C
ATOM	1400	C	VAL A 189	-6.793	0.539	-4.246	1.00	93.69	C
ATOM	1401	CB	VAL A 189	-5.188	-1.224	-5.062	1.00	93.69	C
ATOM	1402	O	VAL A 189	-6.277	1.171	-3.320	1.00	93.69	O
ATOM	1403	CG1	VAL A 189	-6.156	-2.303	-4.582	1.00	93.69	C
ATOM	1404	CG2	VAL A 189	-4.379	-1.722	-6.258	1.00	93.69	C
ATOM	1405	N	GLU A 190	-8.055	0.201	-4.348	1.00	95.50	N
ATOM	1406	CA	GLU A 190	-8.984	0.483	-3.256	1.00	95.50	C
ATOM	1407	C	GLU A 190	-9.789	-0.758	-2.881	1.00	95.50	C
ATOM	1408	CB	GLU A 190	-9.930	1.625	-3.637	1.00	95.50	C
ATOM	1409	O	GLU A 190	-10.305	-1.456	-3.754	1.00	95.50	O
ATOM	1410	CG	GLU A 190	-9.242	2.980	-3.746	1.00	95.50	C
ATOM	1411	CD	GLU A 190	-10.211	4.117	-4.043	1.00	95.50	C
ATOM	1412	OE1	GLU A 190	-9.758	5.273	-4.199	1.00	95.50	O
ATOM	1413	OE2	GLU A 190	-11.430	3.850	-4.121	1.00	95.50	O
ATOM	1414	N	VAL A 191	-9.906	-0.985	-1.557	1.00	95.12	N
ATOM	1415	CA	VAL A 191	-10.641	-2.148	-1.063	1.00	95.12	C
ATOM	1416	C	VAL A 191	-11.555	-1.733	0.086	1.00	95.12	C
ATOM	1417	CB	VAL A 191	-9.680	-3.270	-0.604	1.00	95.12	C
ATOM	1418	O	VAL A 191	-11.211	-0.853	0.877	1.00	95.12	O
ATOM	1419	CG1	VAL A 191	-10.469	-4.484	-0.116	1.00	95.12	C
ATOM	1420	CG2	VAL A 191	-8.734	-3.660	-1.739	1.00	95.12	C
ATOM	1421	N	GLU A 192	-12.672	-2.312	0.113	1.00	95.88	N
ATOM	1422	CA	GLU A 192	-13.633	-2.016	1.167	1.00	95.88	C
ATOM	1423	C	GLU A 192	-14.297	-3.289	1.687	1.00	95.88	C
ATOM	1424	CB	GLU A 192	-14.703	-1.041	0.659	1.00	95.88	C
ATOM	1425	O	GLU A 192	-14.547	-4.223	0.921	1.00	95.88	O
ATOM	1426	CG	GLU A 192	-15.742	-0.664	1.707	1.00	95.88	C
ATOM	1427	CD	GLU A 192	-16.797	0.284	1.182	1.00	95.88	C

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ATOM	1428	OE1 GLU A 192	-17.781	0.563	1.912	1.00	95.88	O
ATOM	1429	OE2 GLU A 192	-16.656	0.752	0.029	1.00	95.88	O
ATOM	1430	N ALA A 193	-14.578	-3.316	3.062	1.00	96.00	N
ATOM	1431	CA ALA A 193	-15.297	-4.410	3.709	1.00	96.00	C
ATOM	1432	C ALA A 193	-16.234	-3.887	4.793	1.00	96.00	C
ATOM	1433	CB ALA A 193	-14.312	-5.414	4.301	1.00	96.00	C
ATOM	1434	O ALA A 193	-15.938	-2.885	5.449	1.00	96.00	O
ATOM	1435	N LYS A 194	-17.391	-4.605	4.840	1.00	96.69	N
ATOM	1436	CA LYS A 194	-18.406	-4.188	5.801	1.00	96.69	C
ATOM	1437	C LYS A 194	-18.984	-5.387	6.539	1.00	96.69	C
ATOM	1438	CB LYS A 194	-19.531	-3.414	5.098	1.00	96.69	C
ATOM	1439	O LYS A 194	-19.047	-6.492	5.996	1.00	96.69	O
ATOM	1440	CG LYS A 194	-19.078	-2.105	4.469	1.00	96.69	C
ATOM	1441	CD LYS A 194	-20.234	-1.371	3.809	1.00	96.69	C
ATOM	1442	CE LYS A 194	-19.766	-0.077	3.148	1.00	96.69	C
ATOM	1443	NZ LYS A 194	-20.906	0.638	2.486	1.00	96.69	N
ATOM	1444	N ALA A 195	-19.359	-5.191	7.828	1.00	96.62	N
ATOM	1445	CA ALA A 195	-20.047	-6.195	8.633	1.00	96.62	C
ATOM	1446	C ALA A 195	-20.938	-5.535	9.672	1.00	96.62	C
ATOM	1447	CB ALA A 195	-19.031	-7.117	9.312	1.00	96.62	C
ATOM	1448	O ALA A 195	-20.719	-4.383	10.055	1.00	96.62	O
ATOM	1449	N SER A 196	-21.984	-6.320	9.922	1.00	97.00	N
ATOM	1450	CA SER A 196	-22.906	-5.805	10.930	1.00	97.00	C
ATOM	1451	C SER A 196	-23.453	-6.930	11.789	1.00	97.00	C
ATOM	1452	CB SER A 196	-24.047	-5.039	10.266	1.00	97.00	C
ATOM	1453	O SER A 196	-23.344	-8.109	11.445	1.00	97.00	O
ATOM	1454	OG SER A 196	-24.797	-5.891	9.422	1.00	97.00	O
ATOM	1455	N GLY A 197	-23.938	-6.555	12.945	1.00	95.31	N
ATOM	1456	CA GLY A 197	-24.531	-7.500	13.875	1.00	95.31	C
ATOM	1457	C GLY A 197	-25.547	-6.863	14.820	1.00	95.31	C
ATOM	1458	O GLY A 197	-25.656	-5.637	14.875	1.00	95.31	O
ATOM	1459	N GLU A 198	-26.359	-7.734	15.391	1.00	95.19	N
ATOM	1460	CA GLU A 198	-27.375	-7.266	16.312	1.00	95.19	C
ATOM	1461	C GLU A 198	-27.578	-8.250	17.469	1.00	95.19	C
ATOM	1462	CB GLU A 198	-28.703	-7.031	15.586	1.00	95.19	C
ATOM	1463	O GLU A 198	-27.453	-9.461	17.281	1.00	95.19	O
ATOM	1464	CG GLU A 198	-29.812	-6.492	16.469	1.00	95.19	C
ATOM	1465	CD GLU A 198	-31.125	-6.258	15.734	1.00	95.19	C
ATOM	1466	OE1 GLU A 198	-32.094	-5.754	16.344	1.00	95.19	O
ATOM	1467	OE2 GLU A 198	-31.172	-6.578	14.523	1.00	95.19	O
ATOM	1468	N ARG A 199	-27.844	-7.605	18.641	1.00	91.25	N
ATOM	1469	CA ARG A 199	-28.219	-8.391	19.812	1.00	91.25	C
ATOM	1470	C ARG A 199	-29.453	-7.820	20.484	1.00	91.25	C
ATOM	1471	CB ARG A 199	-27.062	-8.438	20.812	1.00	91.25	C
ATOM	1472	O ARG A 199	-29.641	-6.602	20.516	1.00	91.25	O
ATOM	1473	CG ARG A 199	-25.844	-9.219	20.328	1.00	91.25	C
ATOM	1474	CD ARG A 199	-24.875	-9.516	21.469	1.00	91.25	C
ATOM	1475	NE ARG A 199	-23.734	-10.297	21.000	1.00	91.25	N
ATOM	1476	NH1 ARG A 199	-24.250	-12.172	22.250	1.00	91.25	N
ATOM	1477	NH2 ARG A 199	-22.391	-12.164	20.891	1.00	91.25	N
ATOM	1478	CZ ARG A 199	-23.453	-11.547	21.375	1.00	91.25	C
ATOM	1479	N GLU A 200	-30.281	-8.805	20.906	1.00	92.88	N
ATOM	1480	CA GLU A 200	-31.516	-8.375	21.578	1.00	92.88	C

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ATOM	1481	C	GLU A 200	-31.781	-9.211	22.828	1.00	92.88	C
ATOM	1482	CB	GLU A 200	-32.688	-8.445	20.625	1.00	92.88	C
ATOM	1483	O	GLU A 200	-31.484	-10.406	22.844	1.00	92.88	O
ATOM	1484	CG	GLU A 200	-33.969	-7.824	21.172	1.00	92.88	C
ATOM	1485	CD	GLU A 200	-35.094	-7.781	20.156	1.00	92.88	C
ATOM	1486	OE1	GLU A 200	-36.219	-7.289	20.500	1.00	92.88	O
ATOM	1487	OE2	GLU A 200	-34.906	-8.242	19.016	1.00	92.88	O
ATOM	1488	N	ALA A 201	-32.250	-8.492	23.891	1.00	90.25	N
ATOM	1489	CA	ALA A 201	-32.625	-9.195	25.125	1.00	90.25	C
ATOM	1490	C	ALA A 201	-33.875	-8.578	25.734	1.00	90.25	C
ATOM	1491	CB	ALA A 201	-31.484	-9.180	26.125	1.00	90.25	C
ATOM	1492	O	ALA A 201	-34.125	-7.375	25.609	1.00	90.25	O
ATOM	1493	N	GLU A 202	-34.688	-9.500	26.266	1.00	88.31	N
ATOM	1494	CA	GLU A 202	-35.844	-9.102	27.078	1.00	88.31	C
ATOM	1495	C	GLU A 202	-35.625	-9.508	28.531	1.00	88.31	C
ATOM	1496	CB	GLU A 202	-37.125	-9.727	26.531	1.00	88.31	C
ATOM	1497	O	GLU A 202	-35.219	-10.633	28.828	1.00	88.31	O
ATOM	1498	CG	GLU A 202	-38.375	-9.172	27.172	1.00	88.31	C
ATOM	1499	CD	GLU A 202	-39.656	-9.719	26.531	1.00	88.31	C
ATOM	1500	OE1	GLU A 202	-40.750	-9.453	27.078	1.00	88.31	O
ATOM	1501	OE2	GLU A 202	-39.562	-10.414	25.500	1.00	88.31	O
ATOM	1502	N	PHE A 203	-35.906	-8.547	29.359	1.00	84.81	N
ATOM	1503	CA	PHE A 203	-35.719	-8.781	30.781	1.00	84.81	C
ATOM	1504	C	PHE A 203	-37.031	-9.055	31.469	1.00	84.81	C
ATOM	1505	CB	PHE A 203	-35.000	-7.586	31.438	1.00	84.81	C
ATOM	1506	O	PHE A 203	-38.094	-8.719	30.938	1.00	84.81	O
ATOM	1507	CG	PHE A 203	-33.656	-7.297	30.875	1.00	84.81	C
ATOM	1508	CD1	PHE A 203	-32.531	-7.992	31.312	1.00	84.81	C
ATOM	1509	CD2	PHE A 203	-33.500	-6.328	29.891	1.00	84.81	C
ATOM	1510	CE1	PHE A 203	-31.266	-7.723	30.797	1.00	84.81	C
ATOM	1511	CE2	PHE A 203	-32.219	-6.055	29.359	1.00	84.81	C
ATOM	1512	CZ	PHE A 203	-31.125	-6.754	29.812	1.00	84.81	C
ATOM	1513	N	PRO A 204	-37.062	-9.828	32.625	1.00	80.88	N
ATOM	1514	CA	PRO A 204	-38.281	-10.195	33.312	1.00	80.88	C
ATOM	1515	C	PRO A 204	-39.156	-8.992	33.656	1.00	80.88	C
ATOM	1516	CB	PRO A 204	-37.750	-10.852	34.594	1.00	80.88	C
ATOM	1517	O	PRO A 204	-40.375	-9.125	33.719	1.00	80.88	O
ATOM	1518	CG	PRO A 204	-36.406	-11.367	34.250	1.00	80.88	C
ATOM	1519	CD	PRO A 204	-35.781	-10.438	33.250	1.00	80.88	C
ATOM	1520	N	ASP A 205	-38.594	-7.832	33.750	1.00	82.19	N
ATOM	1521	CA	ASP A 205	-39.375	-6.652	34.094	1.00	82.19	C
ATOM	1522	C	ASP A 205	-40.031	-6.047	32.844	1.00	82.19	C
ATOM	1523	CB	ASP A 205	-38.500	-5.605	34.781	1.00	82.19	C
ATOM	1524	O	ASP A 205	-40.719	-5.031	32.938	1.00	82.19	O
ATOM	1525	CG	ASP A 205	-37.375	-5.121	33.906	1.00	82.19	C
ATOM	1526	OD1	ASP A 205	-37.156	-5.656	32.812	1.00	82.19	O
ATOM	1527	OD2	ASP A 205	-36.656	-4.195	34.344	1.00	82.19	O
ATOM	1528	N	GLY A 206	-39.938	-6.738	31.656	1.00	82.94	N
ATOM	1529	CA	GLY A 206	-40.531	-6.242	30.422	1.00	82.94	C
ATOM	1530	C	GLY A 206	-39.594	-5.328	29.641	1.00	82.94	C
ATOM	1531	O	GLY A 206	-39.906	-4.926	28.516	1.00	82.94	O
ATOM	1532	N	THR A 207	-38.438	-4.938	30.203	1.00	84.44	N
ATOM	1533	CA	THR A 207	-37.438	-4.125	29.531	1.00	84.44	C

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ATOM	1534	C	THR A 207	-36.812	-4.879	28.344	1.00	84.44	C
ATOM	1535	CB	THR A 207	-36.312	-3.697	30.500	1.00	84.44	C
ATOM	1536	O	THR A 207	-36.531	-6.074	28.453	1.00	84.44	O
ATOM	1537	CG2	THR A 207	-35.281	-2.789	29.797	1.00	84.44	C
ATOM	1538	OG1	THR A 207	-36.875	-2.996	31.609	1.00	84.44	O
ATOM	1539	N	THR A 208	-36.812	-4.125	27.188	1.00	90.19	N
ATOM	1540	CA	THR A 208	-36.156	-4.684	26.000	1.00	90.19	C
ATOM	1541	C	THR A 208	-34.906	-3.896	25.641	1.00	90.19	C
ATOM	1542	CB	THR A 208	-37.125	-4.699	24.797	1.00	90.19	C
ATOM	1543	O	THR A 208	-34.875	-2.670	25.781	1.00	90.19	O
ATOM	1544	CG2	THR A 208	-38.344	-5.574	25.078	1.00	90.19	C
ATOM	1545	OG1	THR A 208	-37.562	-3.361	24.531	1.00	90.19	O
ATOM	1546	N	LEU A 209	-33.844	-4.676	25.344	1.00	92.25	N
ATOM	1547	CA	LEU A 209	-32.562	-4.082	24.922	1.00	92.25	C
ATOM	1548	C	LEU A 209	-32.156	-4.609	23.547	1.00	92.25	C
ATOM	1549	CB	LEU A 209	-31.484	-4.371	25.953	1.00	92.25	C
ATOM	1550	O	LEU A 209	-32.219	-5.812	23.297	1.00	92.25	O
ATOM	1551	CG	LEU A 209	-30.078	-3.826	25.625	1.00	92.25	C
ATOM	1552	CD1	LEU A 209	-30.062	-2.307	25.766	1.00	92.25	C
ATOM	1553	CD2	LEU A 209	-29.047	-4.457	26.547	1.00	92.25	C
ATOM	1554	N	SER A 210	-31.812	-3.623	22.656	1.00	93.56	N
ATOM	1555	CA	SER A 210	-31.281	-3.957	21.328	1.00	93.56	C
ATOM	1556	C	SER A 210	-29.969	-3.221	21.078	1.00	93.56	C
ATOM	1557	CB	SER A 210	-32.281	-3.625	20.234	1.00	93.56	C
ATOM	1558	O	SER A 210	-29.875	-2.008	21.266	1.00	93.56	O
ATOM	1559	OG	SER A 210	-31.734	-3.863	18.953	1.00	93.56	O
ATOM	1560	N	VAL A 211	-28.969	-3.996	20.766	1.00	95.00	N
ATOM	1561	CA	VAL A 211	-27.688	-3.393	20.422	1.00	95.00	C
ATOM	1562	C	VAL A 211	-27.297	-3.768	18.984	1.00	95.00	C
ATOM	1563	CB	VAL A 211	-26.578	-3.830	21.406	1.00	95.00	C
ATOM	1564	O	VAL A 211	-27.219	-4.953	18.656	1.00	95.00	O
ATOM	1565	CG1	VAL A 211	-25.266	-3.100	21.094	1.00	95.00	C
ATOM	1566	CG2	VAL A 211	-27.000	-3.582	22.844	1.00	95.00	C
ATOM	1567	N	LYS A 212	-27.109	-2.766	18.156	1.00	96.19	N
ATOM	1568	CA	LYS A 212	-26.688	-2.941	16.781	1.00	96.19	C
ATOM	1569	C	LYS A 212	-25.297	-2.367	16.547	1.00	96.19	C
ATOM	1570	CB	LYS A 212	-27.688	-2.283	15.820	1.00	96.19	C
ATOM	1571	O	LYS A 212	-24.938	-1.338	17.125	1.00	96.19	O
ATOM	1572	CG	LYS A 212	-29.078	-2.895	15.859	1.00	96.19	C
ATOM	1573	CD	LYS A 212	-30.016	-2.209	14.875	1.00	96.19	C
ATOM	1574	CE	LYS A 212	-31.438	-2.773	14.961	1.00	96.19	C
ATOM	1575	NZ	LYS A 212	-32.375	-2.084	14.023	1.00	96.19	N
ATOM	1576	N	TRP A 213	-24.547	-3.133	15.844	1.00	97.19	N
ATOM	1577	CA	TRP A 213	-23.234	-2.596	15.508	1.00	97.19	C
ATOM	1578	C	TRP A 213	-22.953	-2.762	14.016	1.00	97.19	C
ATOM	1579	CB	TRP A 213	-22.141	-3.283	16.328	1.00	97.19	C
ATOM	1580	O	TRP A 213	-23.484	-3.664	13.367	1.00	97.19	O
ATOM	1581	CG	TRP A 213	-22.141	-4.781	16.219	1.00	97.19	C
ATOM	1582	CD1	TRP A 213	-22.734	-5.668	17.078	1.00	97.19	C
ATOM	1583	CD2	TRP A 213	-21.531	-5.562	15.188	1.00	97.19	C
ATOM	1584	CE2	TRP A 213	-21.781	-6.918	15.492	1.00	97.19	C
ATOM	1585	CE3	TRP A 213	-20.781	-5.250	14.047	1.00	97.19	C
ATOM	1586	NE1	TRP A 213	-22.516	-6.953	16.641	1.00	97.19	N

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ATOM	1587	CH2 TRP A 213	-20.594	-7.629	13.570	1.00	97.19	C
ATOM	1588	CZ2 TRP A 213	-21.312	-7.961	14.688	1.00	97.19	C
ATOM	1589	CZ3 TRP A 213	-20.328	-6.289	13.242	1.00	97.19	C
ATOM	1590	N GLU A 214	-22.172	-1.851	13.492	1.00	97.25	N
ATOM	1591	CA GLU A 214	-21.719	-1.820	12.109	1.00	97.25	C
ATOM	1592	C GLU A 214	-20.234	-1.469	12.023	1.00	97.25	C
ATOM	1593	CB GLU A 214	-22.547	-0.823	11.289	1.00	97.25	C
ATOM	1594	O GLU A 214	-19.766	-0.541	12.688	1.00	97.25	O
ATOM	1595	CG GLU A 214	-22.203	-0.819	9.805	1.00	97.25	C
ATOM	1596	CD GLU A 214	-23.031	0.180	9.008	1.00	97.25	C
ATOM	1597	OE1 GLU A 214	-22.797	0.308	7.781	1.00	97.25	O
ATOM	1598	OE2 GLU A 214	-23.906	0.840	9.609	1.00	97.25	O
ATOM	1599	N VAL A 215	-19.516	-2.221	11.180	1.00	97.31	N
ATOM	1600	CA VAL A 215	-18.094	-1.964	10.961	1.00	97.31	C
ATOM	1601	C VAL A 215	-17.828	-1.776	9.469	1.00	97.31	C
ATOM	1602	CB VAL A 215	-17.219	-3.107	11.516	1.00	97.31	C
ATOM	1603	O VAL A 215	-18.297	-2.566	8.648	1.00	97.31	O
ATOM	1604	CG1 VAL A 215	-15.750	-2.887	11.156	1.00	97.31	C
ATOM	1605	CG2 VAL A 215	-17.391	-3.221	13.031	1.00	97.31	C
ATOM	1606	N LYS A 216	-17.156	-0.718	9.180	1.00	97.38	N
ATOM	1607	CA LYS A 216	-16.734	-0.427	7.812	1.00	97.38	C
ATOM	1608	C LYS A 216	-15.234	-0.172	7.750	1.00	97.38	C
ATOM	1609	CB LYS A 216	-17.500	0.779	7.262	1.00	97.38	C
ATOM	1610	O LYS A 216	-14.703	0.652	8.500	1.00	97.38	O
ATOM	1611	CG LYS A 216	-17.219	1.068	5.793	1.00	97.38	C
ATOM	1612	CD LYS A 216	-18.000	2.279	5.301	1.00	97.38	C
ATOM	1613	CE LYS A 216	-17.672	2.607	3.852	1.00	97.38	C
ATOM	1614	NZ LYS A 216	-18.438	3.795	3.363	1.00	97.38	N
ATOM	1615	N VAL A 217	-14.539	-0.945	6.871	1.00	96.88	N
ATOM	1616	CA VAL A 217	-13.102	-0.782	6.695	1.00	96.88	C
ATOM	1617	C VAL A 217	-12.797	-0.443	5.238	1.00	96.88	C
ATOM	1618	CB VAL A 217	-12.328	-2.051	7.121	1.00	96.88	C
ATOM	1619	O VAL A 217	-13.242	-1.141	4.324	1.00	96.88	O
ATOM	1620	CG1 VAL A 217	-10.828	-1.851	6.953	1.00	96.88	C
ATOM	1621	CG2 VAL A 217	-12.664	-2.420	8.562	1.00	96.88	C
ATOM	1622	N LYS A 218	-12.109	0.667	5.070	1.00	96.44	N
ATOM	1623	CA LYS A 218	-11.672	1.093	3.748	1.00	96.44	C
ATOM	1624	C LYS A 218	-10.148	1.200	3.686	1.00	96.44	C
ATOM	1625	CB LYS A 218	-12.305	2.432	3.373	1.00	96.44	C
ATOM	1626	O LYS A 218	-9.516	1.644	4.645	1.00	96.44	O
ATOM	1627	CG LYS A 218	-13.812	2.369	3.182	1.00	96.44	C
ATOM	1628	CD LYS A 218	-14.375	3.709	2.727	1.00	96.44	C
ATOM	1629	CE LYS A 218	-15.891	3.656	2.562	1.00	96.44	C
ATOM	1630	NZ LYS A 218	-16.438	4.969	2.119	1.00	96.44	N
ATOM	1631	N GLY A 219	-9.625	0.718	2.580	1.00	96.25	N
ATOM	1632	CA GLY A 219	-8.188	0.833	2.365	1.00	96.25	C
ATOM	1633	C GLY A 219	-7.828	1.273	0.959	1.00	96.25	C
ATOM	1634	O GLY A 219	-8.562	0.997	0.009	1.00	96.25	O
ATOM	1635	N LYS A 220	-6.742	2.027	0.965	1.00	95.56	N
ATOM	1636	CA LYS A 220	-6.223	2.531	-0.303	1.00	95.56	C
ATOM	1637	C LYS A 220	-4.707	2.371	-0.381	1.00	95.56	C
ATOM	1638	CB LYS A 220	-6.605	4.000	-0.492	1.00	95.56	C
ATOM	1639	O LYS A 220	-4.004	2.598	0.604	1.00	95.56	O

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ATOM	1640	CG	LYS A 220	-6.211	4.574	-1.847	1.00	95.56	C
ATOM	1641	CD	LYS A 220	-6.598	6.043	-1.966	1.00	95.56	C
ATOM	1642	CE	LYS A 220	-6.145	6.633	-3.295	1.00	95.56	C
ATOM	1643	NZ	LYS A 220	-6.488	8.086	-3.400	1.00	95.56	N
ATOM	1644	N	ALA A 221	-4.246	1.858	-1.571	1.00	94.62	N
ATOM	1645	CA	ALA A 221	-2.811	1.747	-1.821	1.00	94.62	C
ATOM	1646	C	ALA A 221	-2.418	2.482	-3.100	1.00	94.62	C
ATOM	1647	CB	ALA A 221	-2.396	0.280	-1.905	1.00	94.62	C
ATOM	1648	O	ALA A 221	-3.133	2.420	-4.102	1.00	94.62	O
ATOM	1649	N	GLU A 222	-1.370	3.230	-2.996	1.00	94.06	N
ATOM	1650	CA	GLU A 222	-0.823	3.977	-4.125	1.00	94.06	C
ATOM	1651	C	GLU A 222	0.672	3.717	-4.285	1.00	94.06	C
ATOM	1652	CB	GLU A 222	-1.080	5.477	-3.953	1.00	94.06	C
ATOM	1653	O	GLU A 222	1.396	3.594	-3.293	1.00	94.06	O
ATOM	1654	CG	GLU A 222	-0.713	6.305	-5.176	1.00	94.06	C
ATOM	1655	CD	GLU A 222	-0.968	7.793	-4.988	1.00	94.06	C
ATOM	1656	OE1	GLU A 222	-0.679	8.578	-5.918	1.00	94.06	O
ATOM	1657	OE2	GLU A 222	-1.460	8.172	-3.902	1.00	94.06	O
ATOM	1658	N	ARG A 223	1.027	3.670	-5.578	1.00	92.88	N
ATOM	1659	CA	ARG A 223	2.447	3.479	-5.859	1.00	92.88	C
ATOM	1660	C	ARG A 223	2.953	4.516	-6.859	1.00	92.88	C
ATOM	1661	CB	ARG A 223	2.705	2.066	-6.391	1.00	92.88	C
ATOM	1662	O	ARG A 223	2.312	4.762	-7.883	1.00	92.88	O
ATOM	1663	CG	ARG A 223	4.172	1.766	-6.648	1.00	92.88	C
ATOM	1664	CD	ARG A 223	4.363	0.388	-7.270	1.00	92.88	C
ATOM	1665	NE	ARG A 223	3.916	0.353	-8.656	1.00	92.88	N
ATOM	1666	NH1	ARG A 223	4.520	-1.849	-9.016	1.00	92.88	N
ATOM	1667	NH2	ARG A 223	3.561	-0.631	-10.703	1.00	92.88	N
ATOM	1668	CZ	ARG A 223	4.000	-0.709	-9.453	1.00	92.88	C
ATOM	1669	N	LYS A 224	4.047	5.004	-6.516	1.00	93.75	N
ATOM	1670	CA	LYS A 224	4.707	5.973	-7.387	1.00	93.75	C
ATOM	1671	C	LYS A 224	6.141	5.551	-7.688	1.00	93.75	C
ATOM	1672	CB	LYS A 224	4.688	7.363	-6.758	1.00	93.75	C
ATOM	1673	O	LYS A 224	6.879	5.160	-6.781	1.00	93.75	O
ATOM	1674	CG	LYS A 224	5.117	8.477	-7.699	1.00	93.75	C
ATOM	1675	CD	LYS A 224	5.020	9.844	-7.035	1.00	93.75	C
ATOM	1676	CE	LYS A 224	5.500	10.953	-7.961	1.00	93.75	C
ATOM	1677	NZ	LYS A 224	5.406	12.297	-7.312	1.00	93.75	N
ATOM	1678	N	GLU A 225	6.492	5.645	-9.000	1.00	94.56	N
ATOM	1679	CA	GLU A 225	7.844	5.285	-9.422	1.00	94.56	C
ATOM	1680	C	GLU A 225	8.555	6.469	-10.070	1.00	94.56	C
ATOM	1681	CB	GLU A 225	7.805	4.098	-10.391	1.00	94.56	C
ATOM	1682	O	GLU A 225	7.961	7.184	-10.883	1.00	94.56	O
ATOM	1683	CG	GLU A 225	7.156	2.850	-9.805	1.00	94.56	C
ATOM	1684	CD	GLU A 225	7.008	1.725	-10.820	1.00	94.56	C
ATOM	1685	OE1	GLU A 225	6.492	0.644	-10.453	1.00	94.56	O
ATOM	1686	OE2	GLU A 225	7.410	1.925	-11.984	1.00	94.56	O
ATOM	1687	N	GLU A 226	9.727	6.707	-9.688	1.00	94.94	N
ATOM	1688	CA	GLU A 226	10.586	7.738	-10.258	1.00	94.94	C
ATOM	1689	C	GLU A 226	11.930	7.164	-10.695	1.00	94.94	C
ATOM	1690	CB	GLU A 226	10.797	8.875	-9.258	1.00	94.94	C
ATOM	1691	O	GLU A 226	12.516	6.344	-9.984	1.00	94.94	O
ATOM	1692	CG	GLU A 226	9.508	9.570	-8.836	1.00	94.94	C

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ATOM	1693	CD	GLU A 226	9.719	10.633	-7.762	1.00	94.94	C
ATOM	1694	OE1	GLU A 226	8.734	11.273	-7.344	1.00	94.94	O
ATOM	1695	OE2	GLU A 226	10.883	10.812	-7.340	1.00	94.94	O
ATOM	1696	N	GLY A 227	12.258	7.500	-11.992	1.00	95.00	N
ATOM	1697	CA	GLY A 227	13.562	7.082	-12.484	1.00	95.00	C
ATOM	1698	C	GLY A 227	14.305	8.180	-13.219	1.00	95.00	C
ATOM	1699	O	GLY A 227	13.688	8.984	-13.930	1.00	95.00	O
ATOM	1700	N	LYS A 228	15.570	8.297	-12.906	1.00	95.19	N
ATOM	1701	CA	LYS A 228	16.406	9.297	-13.555	1.00	95.19	C
ATOM	1702	C	LYS A 228	17.750	8.688	-14.000	1.00	95.19	C
ATOM	1703	CB	LYS A 228	16.656	10.484	-12.625	1.00	95.19	C
ATOM	1704	O	LYS A 228	18.359	7.918	-13.258	1.00	95.19	O
ATOM	1705	CG	LYS A 228	17.422	11.633	-13.273	1.00	95.19	C
ATOM	1706	CD	LYS A 228	17.641	12.773	-12.289	1.00	95.19	C
ATOM	1707	CE	LYS A 228	18.453	13.906	-12.922	1.00	95.19	C
ATOM	1708	NZ	LYS A 228	18.703	15.016	-11.953	1.00	95.19	N
ATOM	1709	N	VAL A 229	18.094	9.047	-15.281	1.00	95.69	N
ATOM	1710	CA	VAL A 229	19.375	8.602	-15.805	1.00	95.69	C
ATOM	1711	C	VAL A 229	20.203	9.812	-16.250	1.00	95.69	C
ATOM	1712	CB	VAL A 229	19.203	7.621	-16.984	1.00	95.69	C
ATOM	1713	O	VAL A 229	19.703	10.695	-16.938	1.00	95.69	O
ATOM	1714	CG1	VAL A 229	20.547	7.273	-17.609	1.00	95.69	C
ATOM	1715	CG2	VAL A 229	18.469	6.359	-16.531	1.00	95.69	C
ATOM	1716	N	GLU A 230	21.422	9.844	-15.805	1.00	96.06	N
ATOM	1717	CA	GLU A 230	22.375	10.859	-16.234	1.00	96.06	C
ATOM	1718	C	GLU A 230	23.609	10.234	-16.859	1.00	96.06	C
ATOM	1719	CB	GLU A 230	22.766	11.766	-15.070	1.00	96.06	C
ATOM	1720	O	GLU A 230	24.281	9.398	-16.234	1.00	96.06	O
ATOM	1721	CG	GLU A 230	21.625	12.617	-14.531	1.00	96.06	C
ATOM	1722	CD	GLU A 230	22.047	13.523	-13.391	1.00	96.06	C
ATOM	1723	OE1	GLU A 230	21.219	14.328	-12.914	1.00	96.06	O
ATOM	1724	OE2	GLU A 230	23.219	13.438	-12.961	1.00	96.06	O
ATOM	1725	N	ILE A 231	23.859	10.656	-18.094	1.00	95.50	N
ATOM	1726	CA	ILE A 231	25.016	10.117	-18.797	1.00	95.50	C
ATOM	1727	C	ILE A 231	26.047	11.227	-19.031	1.00	95.50	C
ATOM	1728	CB	ILE A 231	24.609	9.469	-20.141	1.00	95.50	C
ATOM	1729	O	ILE A 231	25.719	12.258	-19.609	1.00	95.50	O
ATOM	1730	CG1	ILE A 231	23.547	8.383	-19.906	1.00	95.50	C
ATOM	1731	CG2	ILE A 231	25.828	8.898	-20.859	1.00	95.50	C
ATOM	1732	CD1	ILE A 231	22.938	7.828	-21.188	1.00	95.50	C
ATOM	1733	N	LYS A 232	27.219	11.055	-18.516	1.00	95.50	N
ATOM	1734	CA	LYS A 232	28.328	11.977	-18.766	1.00	95.50	C
ATOM	1735	C	LYS A 232	29.438	11.297	-19.562	1.00	95.50	C
ATOM	1736	CB	LYS A 232	28.875	12.516	-17.453	1.00	95.50	C
ATOM	1737	O	LYS A 232	30.000	10.289	-19.125	1.00	95.50	O
ATOM	1738	CG	LYS A 232	29.828	13.695	-17.609	1.00	95.50	C
ATOM	1739	CD	LYS A 232	30.266	14.242	-16.266	1.00	95.50	C
ATOM	1740	CE	LYS A 232	31.266	15.391	-16.422	1.00	95.50	C
ATOM	1741	NZ	LYS A 232	31.688	15.945	-15.102	1.00	95.50	N
ATOM	1742	N	ILE A 233	29.703	11.875	-20.719	1.00	94.19	N
ATOM	1743	CA	ILE A 233	30.719	11.312	-21.609	1.00	94.19	C
ATOM	1744	C	ILE A 233	31.875	12.305	-21.766	1.00	94.19	C
ATOM	1745	CB	ILE A 233	30.141	10.945	-22.984	1.00	94.19	C

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ATOM	1746	O	ILE A 233	31.656	13.461	-22.141	1.00	94.19	O
ATOM	1747	CG1	ILE A 233	29.000	9.930	-22.828	1.00	94.19	C
ATOM	1748	CG2	ILE A 233	31.234	10.398	-23.906	1.00	94.19	C
ATOM	1749	CD1	ILE A 233	28.234	9.641	-24.109	1.00	94.19	C
ATOM	1750	N	GLU A 234	33.094	11.906	-21.516	1.00	94.19	N
ATOM	1751	CA	GLU A 234	34.281	12.742	-21.625	1.00	94.19	C
ATOM	1752	C	GLU A 234	35.375	12.055	-22.469	1.00	94.19	C
ATOM	1753	CB	GLU A 234	34.844	13.086	-20.234	1.00	94.19	C
ATOM	1754	O	GLU A 234	35.656	10.875	-22.266	1.00	94.19	O
ATOM	1755	CG	GLU A 234	33.906	13.953	-19.406	1.00	94.19	C
ATOM	1756	CD	GLU A 234	34.438	14.234	-18.016	1.00	94.19	C
ATOM	1757	OE1	GLU A 234	33.812	15.023	-17.266	1.00	94.19	O
ATOM	1758	OE2	GLU A 234	35.500	13.664	-17.656	1.00	94.19	O
ATOM	1759	N	LEU A 235	35.875	12.758	-23.391	1.00	92.69	N
ATOM	1760	CA	LEU A 235	36.969	12.273	-24.219	1.00	92.69	C
ATOM	1761	C	LEU A 235	38.250	13.000	-23.906	1.00	92.69	C
ATOM	1762	CB	LEU A 235	36.625	12.445	-25.703	1.00	92.69	C
ATOM	1763	O	LEU A 235	38.312	14.234	-23.953	1.00	92.69	O
ATOM	1764	CG	LEU A 235	37.688	11.969	-26.703	1.00	92.69	C
ATOM	1765	CD1	LEU A 235	37.844	10.453	-26.641	1.00	92.69	C
ATOM	1766	CD2	LEU A 235	37.312	12.414	-28.109	1.00	92.69	C
ATOM	1767	N	GLU A 236	39.250	12.336	-23.500	1.00	93.44	N
ATOM	1768	CA	GLU A 236	40.562	12.883	-23.219	1.00	93.44	C
ATOM	1769	C	GLU A 236	41.594	12.359	-24.219	1.00	93.44	C
ATOM	1770	CB	GLU A 236	41.000	12.539	-21.797	1.00	93.44	C
ATOM	1771	O	GLU A 236	41.562	11.195	-24.609	1.00	93.44	O
ATOM	1772	CG	GLU A 236	40.094	13.117	-20.719	1.00	93.44	C
ATOM	1773	CD	GLU A 236	40.500	12.719	-19.312	1.00	93.44	C
ATOM	1774	OE1	GLU A 236	39.875	13.195	-18.344	1.00	93.44	O
ATOM	1775	OE2	GLU A 236	41.438	11.914	-19.172	1.00	93.44	O
ATOM	1776	N	GLU A 237	42.406	13.281	-24.578	1.00	93.00	N
ATOM	1777	CA	GLU A 237	43.469	12.945	-25.531	1.00	93.00	C
ATOM	1778	C	GLU A 237	44.844	13.094	-24.922	1.00	93.00	C
ATOM	1779	CB	GLU A 237	43.344	13.828	-26.781	1.00	93.00	C
ATOM	1780	O	GLU A 237	45.125	14.055	-24.188	1.00	93.00	O
ATOM	1781	CG	GLU A 237	44.406	13.516	-27.844	1.00	93.00	C
ATOM	1782	CD	GLU A 237	44.312	14.445	-29.047	1.00	93.00	C
ATOM	1783	OE1	GLU A 237	45.281	14.469	-29.859	1.00	93.00	O
ATOM	1784	OE2	GLU A 237	43.312	15.164	-29.172	1.00	93.00	O
ATOM	1785	N	SER A 238	45.688	12.070	-25.172	1.00	91.06	N
ATOM	1786	CA	SER A 238	47.062	12.148	-24.750	1.00	91.06	C
ATOM	1787	C	SER A 238	48.000	11.547	-25.797	1.00	91.06	C
ATOM	1788	CB	SER A 238	47.281	11.430	-23.406	1.00	91.06	C
ATOM	1789	O	SER A 238	47.562	10.805	-26.672	1.00	91.06	O
ATOM	1790	OG	SER A 238	47.031	10.039	-23.547	1.00	91.06	O
ATOM	1791	N	ILE A 239	49.219	12.078	-25.844	1.00	88.75	N
ATOM	1792	CA	ILE A 239	50.219	11.586	-26.797	1.00	88.75	C
ATOM	1793	C	ILE A 239	51.375	10.945	-26.031	1.00	88.75	C
ATOM	1794	CB	ILE A 239	50.750	12.719	-27.703	1.00	88.75	C
ATOM	1795	O	ILE A 239	51.938	11.562	-25.125	1.00	88.75	O
ATOM	1796	CG1	ILE A 239	49.594	13.352	-28.484	1.00	88.75	C
ATOM	1797	CG2	ILE A 239	51.812	12.195	-28.656	1.00	88.75	C
ATOM	1798	CD1	ILE A 239	49.969	14.594	-29.266	1.00	88.75	C

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ATOM	1799	N	LEU A 240	51.719	9.695	-26.359	1.00	86.62	N
ATOM	1800	CA	LEU A 240	52.812	8.984	-25.734	1.00	86.62	C
ATOM	1801	C	LEU A 240	54.156	9.500	-26.266	1.00	86.62	C
ATOM	1802	CB	LEU A 240	52.719	7.480	-25.984	1.00	86.62	C
ATOM	1803	O	LEU A 240	54.188	10.242	-27.250	1.00	86.62	O
ATOM	1804	CG	LEU A 240	51.469	6.789	-25.391	1.00	86.62	C
ATOM	1805	CD1	LEU A 240	51.406	5.332	-25.844	1.00	86.62	C
ATOM	1806	CD2	LEU A 240	51.500	6.879	-23.875	1.00	86.62	C
ATOM	1807	N	GLU A 241	55.312	9.141	-25.625	1.00	84.62	N
ATOM	1808	CA	GLU A 241	56.688	9.562	-25.984	1.00	84.62	C
ATOM	1809	C	GLU A 241	57.031	9.133	-27.406	1.00	84.62	C
ATOM	1810	CB	GLU A 241	57.688	8.992	-24.984	1.00	84.62	C
ATOM	1811	O	GLU A 241	57.750	9.852	-28.109	1.00	84.62	O
ATOM	1812	CG	GLU A 241	57.656	9.656	-23.625	1.00	84.62	C
ATOM	1813	CD	GLU A 241	58.750	9.148	-22.688	1.00	84.62	C
ATOM	1814	OE1	GLU A 241	58.875	9.695	-21.562	1.00	84.62	O
ATOM	1815	OE2	GLU A 241	59.438	8.188	-23.062	1.00	84.62	O
ATOM	1816	N	ASP A 242	56.375	7.984	-27.812	1.00	86.88	N
ATOM	1817	CA	ASP A 242	56.719	7.445	-29.125	1.00	86.88	C
ATOM	1818	C	ASP A 242	55.812	8.055	-30.219	1.00	86.88	C
ATOM	1819	CB	ASP A 242	56.562	5.918	-29.141	1.00	86.88	C
ATOM	1820	O	ASP A 242	55.938	7.695	-31.391	1.00	86.88	O
ATOM	1821	CG	ASP A 242	55.156	5.449	-28.844	1.00	86.88	C
ATOM	1822	OD1	ASP A 242	54.281	6.293	-28.641	1.00	86.88	O
ATOM	1823	OD2	ASP A 242	54.938	4.219	-28.828	1.00	86.88	O
ATOM	1824	N	GLY A 243	55.000	9.086	-30.016	1.00	84.12	N
ATOM	1825	CA	GLY A 243	54.156	9.773	-30.969	1.00	84.12	C
ATOM	1826	C	GLY A 243	52.781	9.141	-31.109	1.00	84.12	C
ATOM	1827	O	GLY A 243	51.906	9.656	-31.828	1.00	84.12	O
ATOM	1828	N	THR A 244	52.406	8.016	-30.375	1.00	86.44	N
ATOM	1829	CA	THR A 244	51.125	7.336	-30.391	1.00	86.44	C
ATOM	1830	C	THR A 244	50.062	8.180	-29.703	1.00	86.44	C
ATOM	1831	CB	THR A 244	51.188	5.953	-29.734	1.00	86.44	C
ATOM	1832	O	THR A 244	50.250	8.641	-28.578	1.00	86.44	O
ATOM	1833	CG2	THR A 244	49.875	5.215	-29.828	1.00	86.44	C
ATOM	1834	OG1	THR A 244	52.219	5.172	-30.391	1.00	86.44	O
ATOM	1835	N	LYS A 245	48.906	8.469	-30.344	1.00	90.44	N
ATOM	1836	CA	LYS A 245	47.781	9.195	-29.797	1.00	90.44	C
ATOM	1837	C	LYS A 245	46.875	8.258	-28.984	1.00	90.44	C
ATOM	1838	CB	LYS A 245	46.969	9.867	-30.906	1.00	90.44	C
ATOM	1839	O	LYS A 245	46.438	7.215	-29.484	1.00	90.44	O
ATOM	1840	CG	LYS A 245	47.688	11.031	-31.562	1.00	90.44	C
ATOM	1841	CD	LYS A 245	46.812	11.711	-32.625	1.00	90.44	C
ATOM	1842	CE	LYS A 245	47.562	12.828	-33.312	1.00	90.44	C
ATOM	1843	NZ	LYS A 245	46.719	13.477	-34.375	1.00	90.44	N
ATOM	1844	N	VAL A 246	46.656	8.523	-27.734	1.00	91.06	N
ATOM	1845	CA	VAL A 246	45.750	7.773	-26.859	1.00	91.06	C
ATOM	1846	C	VAL A 246	44.500	8.594	-26.578	1.00	91.06	C
ATOM	1847	CB	VAL A 246	46.469	7.383	-25.531	1.00	91.06	C
ATOM	1848	O	VAL A 246	44.594	9.719	-26.078	1.00	91.06	O
ATOM	1849	CG1	VAL A 246	45.500	6.594	-24.641	1.00	91.06	C
ATOM	1850	CG2	VAL A 246	47.719	6.574	-25.812	1.00	91.06	C
ATOM	1851	N	TYR A 247	43.406	8.094	-26.984	1.00	92.44	N

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ATOM	1852	CA	TYR A 247	42.094	8.672	-26.672	1.00	92.44	C
ATOM	1853	C	TYR A 247	41.406	7.898	-25.562	1.00	92.44	C
ATOM	1854	CB	TYR A 247	41.188	8.688	-27.922	1.00	92.44	C
ATOM	1855	O	TYR A 247	41.250	6.684	-25.641	1.00	92.44	O
ATOM	1856	CG	TYR A 247	41.719	9.570	-29.031	1.00	92.44	C
ATOM	1857	CD1	TYR A 247	41.344	10.914	-29.094	1.00	92.44	C
ATOM	1858	CD2	TYR A 247	42.562	9.070	-30.016	1.00	92.44	C
ATOM	1859	CE1	TYR A 247	41.812	11.742	-30.109	1.00	92.44	C
ATOM	1860	CE2	TYR A 247	43.031	9.883	-31.031	1.00	92.44	C
ATOM	1861	OH	TYR A 247	43.125	12.023	-32.094	1.00	92.44	O
ATOM	1862	CZ	TYR A 247	42.656	11.219	-31.078	1.00	92.44	C
ATOM	1863	N	THR A 248	41.125	8.586	-24.484	1.00	94.19	N
ATOM	1864	CA	THR A 248	40.406	7.961	-23.375	1.00	94.19	C
ATOM	1865	C	THR A 248	38.938	8.438	-23.344	1.00	94.19	C
ATOM	1866	CB	THR A 248	41.094	8.266	-22.031	1.00	94.19	C
ATOM	1867	O	THR A 248	38.688	9.625	-23.109	1.00	94.19	O
ATOM	1868	CG2	THR A 248	40.375	7.559	-20.891	1.00	94.19	C
ATOM	1869	OG1	THR A 248	42.438	7.820	-22.078	1.00	94.19	O
ATOM	1870	N	LEU A 249	38.062	7.543	-23.625	1.00	94.31	N
ATOM	1871	CA	LEU A 249	36.625	7.797	-23.547	1.00	94.31	C
ATOM	1872	C	LEU A 249	36.094	7.367	-22.188	1.00	94.31	C
ATOM	1873	CB	LEU A 249	35.906	7.059	-24.672	1.00	94.31	C
ATOM	1874	O	LEU A 249	36.062	6.176	-21.875	1.00	94.31	O
ATOM	1875	CG	LEU A 249	34.406	7.309	-24.781	1.00	94.31	C
ATOM	1876	CD1	LEU A 249	34.125	8.773	-25.109	1.00	94.31	C
ATOM	1877	CD2	LEU A 249	33.781	6.391	-25.828	1.00	94.31	C
ATOM	1878	N	ASN A 250	35.719	8.375	-21.312	1.00	95.94	N
ATOM	1879	CA	ASN A 250	35.125	8.133	-20.000	1.00	95.94	C
ATOM	1880	C	ASN A 250	33.594	8.273	-20.031	1.00	95.94	C
ATOM	1881	CB	ASN A 250	35.719	9.070	-18.953	1.00	95.94	C
ATOM	1882	O	ASN A 250	33.094	9.367	-20.297	1.00	95.94	O
ATOM	1883	CG	ASN A 250	37.188	8.836	-18.734	1.00	95.94	C
ATOM	1884	ND2	ASN A 250	38.000	9.812	-19.109	1.00	95.94	N
ATOM	1885	OD1	ASN A 250	37.594	7.777	-18.234	1.00	95.94	O
ATOM	1886	N	ILE A 251	32.938	7.184	-19.812	1.00	95.69	N
ATOM	1887	CA	ILE A 251	31.469	7.176	-19.797	1.00	95.69	C
ATOM	1888	C	ILE A 251	30.969	6.902	-18.375	1.00	95.69	C
ATOM	1889	CB	ILE A 251	30.906	6.125	-20.781	1.00	95.69	C
ATOM	1890	O	ILE A 251	31.250	5.840	-17.812	1.00	95.69	O
ATOM	1891	CG1	ILE A 251	31.422	6.383	-22.188	1.00	95.69	C
ATOM	1892	CG2	ILE A 251	29.375	6.129	-20.734	1.00	95.69	C
ATOM	1893	CD1	ILE A 251	31.062	5.285	-23.188	1.00	95.69	C
ATOM	1894	N	ASN A 252	30.359	7.902	-17.766	1.00	96.50	N
ATOM	1895	CA	ASN A 252	29.750	7.773	-16.438	1.00	96.50	C
ATOM	1896	C	ASN A 252	28.234	7.762	-16.516	1.00	96.50	C
ATOM	1897	CB	ASN A 252	30.234	8.898	-15.516	1.00	96.50	C
ATOM	1898	O	ASN A 252	27.625	8.727	-16.969	1.00	96.50	O
ATOM	1899	CG	ASN A 252	31.719	8.820	-15.227	1.00	96.50	C
ATOM	1900	ND2	ASN A 252	32.469	9.828	-15.648	1.00	96.50	N
ATOM	1901	OD1	ASN A 252	32.188	7.852	-14.625	1.00	96.50	O
ATOM	1902	N	ILE A 253	27.672	6.648	-16.047	1.00	96.69	N
ATOM	1903	CA	ILE A 253	26.234	6.484	-16.062	1.00	96.69	C
ATOM	1904	C	ILE A 253	25.703	6.465	-14.625	1.00	96.69	C

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ATOM	1905	CB	ILE A 253	25.812	5.199	-16.797	1.00	96.69	C
ATOM	1906	O	ILE A 253	26.078	5.594	-13.836	1.00	96.69	O
ATOM	1907	CG1	ILE A 253	26.375	5.199	-18.234	1.00	96.69	C
ATOM	1908	CG2	ILE A 253	24.281	5.055	-16.812	1.00	96.69	C
ATOM	1909	CD1	ILE A 253	26.203	3.875	-18.969	1.00	96.69	C
ATOM	1910	N	ASP A 254	24.938	7.445	-14.258	1.00	96.88	N
ATOM	1911	CA	ASP A 254	24.281	7.504	-12.961	1.00	96.88	C
ATOM	1912	C	ASP A 254	22.797	7.168	-13.078	1.00	96.88	C
ATOM	1913	CB	ASP A 254	24.469	8.883	-12.328	1.00	96.88	C
ATOM	1914	O	ASP A 254	22.047	7.863	-13.773	1.00	96.88	O
ATOM	1915	CG	ASP A 254	25.906	9.203	-11.992	1.00	96.88	C
ATOM	1916	OD1	ASP A 254	26.609	8.328	-11.422	1.00	96.88	O
ATOM	1917	OD2	ASP A 254	26.359	10.328	-12.297	1.00	96.88	O
ATOM	1918	N	VAL A 255	22.422	6.078	-12.461	1.00	96.56	N
ATOM	1919	CA	VAL A 255	21.047	5.617	-12.477	1.00	96.56	C
ATOM	1920	C	VAL A 255	20.438	5.734	-11.086	1.00	96.56	C
ATOM	1921	CB	VAL A 255	20.938	4.164	-12.992	1.00	96.56	C
ATOM	1922	O	VAL A 255	21.000	5.234	-10.109	1.00	96.56	O
ATOM	1923	CG1	VAL A 255	19.484	3.689	-12.969	1.00	96.56	C
ATOM	1924	CG2	VAL A 255	21.516	4.047	-14.398	1.00	96.56	C
ATOM	1925	N	THR A 256	19.328	6.500	-11.000	1.00	95.06	N
ATOM	1926	CA	THR A 256	18.578	6.617	-9.758	1.00	95.06	C
ATOM	1927	C	THR A 256	17.141	6.156	-9.945	1.00	95.06	C
ATOM	1928	CB	THR A 256	18.594	8.062	-9.227	1.00	95.06	C
ATOM	1929	O	THR A 256	16.469	6.590	-10.883	1.00	95.06	O
ATOM	1930	CG2	THR A 256	17.891	8.164	-7.879	1.00	95.06	C
ATOM	1931	OG1	THR A 256	19.953	8.492	-9.070	1.00	95.06	O
ATOM	1932	N	ALA A 257	16.781	5.164	-9.102	1.00	96.62	N
ATOM	1933	CA	ALA A 257	15.398	4.676	-9.109	1.00	96.62	C
ATOM	1934	C	ALA A 257	14.781	4.734	-7.711	1.00	96.62	C
ATOM	1935	CB	ALA A 257	15.344	3.250	-9.648	1.00	96.62	C
ATOM	1936	O	ALA A 257	15.445	4.410	-6.723	1.00	96.62	O
ATOM	1937	N	LYS A 258	13.547	5.211	-7.660	1.00	96.44	N
ATOM	1938	CA	LYS A 258	12.820	5.293	-6.395	1.00	96.44	C
ATOM	1939	C	LYS A 258	11.391	4.801	-6.555	1.00	96.44	C
ATOM	1940	CB	LYS A 258	12.828	6.727	-5.863	1.00	96.44	C
ATOM	1941	O	LYS A 258	10.688	5.203	-7.488	1.00	96.44	O
ATOM	1942	CG	LYS A 258	12.148	6.887	-4.512	1.00	96.44	C
ATOM	1943	CD	LYS A 258	12.188	8.336	-4.035	1.00	96.44	C
ATOM	1944	CE	LYS A 258	11.461	8.500	-2.705	1.00	96.44	C
ATOM	1945	NZ	LYS A 258	11.508	9.914	-2.227	1.00	96.44	N
ATOM	1946	N	VAL A 259	10.992	3.879	-5.688	1.00	96.38	N
ATOM	1947	CA	VAL A 259	9.609	3.416	-5.609	1.00	96.38	C
ATOM	1948	C	VAL A 259	9.023	3.779	-4.246	1.00	96.38	C
ATOM	1949	CB	VAL A 259	9.508	1.893	-5.844	1.00	96.38	C
ATOM	1950	O	VAL A 259	9.633	3.523	-3.211	1.00	96.38	O
ATOM	1951	CG1	VAL A 259	8.094	1.393	-5.535	1.00	96.38	C
ATOM	1952	CG2	VAL A 259	9.891	1.549	-7.281	1.00	96.38	C
ATOM	1953	N	THR A 260	7.887	4.504	-4.297	1.00	95.44	N
ATOM	1954	CA	THR A 260	7.156	4.855	-3.086	1.00	95.44	C
ATOM	1955	C	THR A 260	5.797	4.164	-3.057	1.00	95.44	C
ATOM	1956	CB	THR A 260	6.961	6.379	-2.973	1.00	95.44	C
ATOM	1957	O	THR A 260	5.004	4.301	-3.990	1.00	95.44	O

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ATOM	1958	CG2 THR A 260	6.273	6.750	-1.662	1.00	95.44	C
ATOM	1959	OG1 THR A 260	8.242	7.023	-3.025	1.00	95.44	O
ATOM	1960	N ALA A 261	5.586	3.352	-1.992	1.00	95.25	N
ATOM	1961	CA ALA A 261	4.289	2.723	-1.758	1.00	95.25	C
ATOM	1962	C ALA A 261	3.586	3.348	-0.558	1.00	95.25	C
ATOM	1963	CB ALA A 261	4.457	1.219	-1.549	1.00	95.25	C
ATOM	1964	O ALA A 261	4.172	3.473	0.519	1.00	95.25	O
ATOM	1965	N THR A 262	2.367	3.812	-0.764	1.00	95.56	N
ATOM	1966	CA THR A 262	1.572	4.426	0.294	1.00	95.56	C
ATOM	1967	C THR A 262	0.322	3.598	0.581	1.00	95.56	C
ATOM	1968	CB THR A 262	1.165	5.863	-0.075	1.00	95.56	C
ATOM	1969	O THR A 262	-0.412	3.234	-0.340	1.00	95.56	O
ATOM	1970	CG2 THR A 262	0.421	6.539	1.073	1.00	95.56	C
ATOM	1971	OG1 THR A 262	2.342	6.625	-0.379	1.00	95.56	O
ATOM	1972	N PHE A 263	0.105	3.297	1.899	1.00	96.38	N
ATOM	1973	CA PHE A 263	-1.081	2.582	2.355	1.00	96.38	C
ATOM	1974	C PHE A 263	-1.898	3.445	3.311	1.00	96.38	C
ATOM	1975	CB PHE A 263	-0.689	1.270	3.039	1.00	96.38	C
ATOM	1976	O PHE A 263	-1.362	3.988	4.277	1.00	96.38	O
ATOM	1977	CG PHE A 263	0.015	0.298	2.131	1.00	96.38	C
ATOM	1978	CD1 PHE A 263	-0.699	-0.676	1.443	1.00	96.38	C
ATOM	1979	CD2 PHE A 263	1.393	0.360	1.963	1.00	96.38	C
ATOM	1980	CE1 PHE A 263	-0.049	-1.575	0.602	1.00	96.38	C
ATOM	1981	CE2 PHE A 263	2.049	-0.536	1.123	1.00	96.38	C
ATOM	1982	CZ PHE A 263	1.326	-1.503	0.444	1.00	96.38	C
ATOM	1983	N GLU A 264	-3.143	3.574	2.967	1.00	95.94	N
ATOM	1984	CA GLU A 264	-4.082	4.281	3.832	1.00	95.94	C
ATOM	1985	C GLU A 264	-5.254	3.385	4.223	1.00	95.94	C
ATOM	1986	CB GLU A 264	-4.598	5.551	3.146	1.00	95.94	C
ATOM	1987	O GLU A 264	-5.766	2.627	3.395	1.00	95.94	O
ATOM	1988	CG GLU A 264	-3.510	6.578	2.863	1.00	95.94	C
ATOM	1989	CD GLU A 264	-4.031	7.824	2.166	1.00	95.94	C
ATOM	1990	OE1 GLU A 264	-3.238	8.758	1.923	1.00	95.94	O
ATOM	1991	OE2 GLU A 264	-5.246	7.863	1.859	1.00	95.94	O
ATOM	1992	N GLY A 265	-5.574	3.422	5.484	1.00	94.69	N
ATOM	1993	CA GLY A 265	-6.703	2.639	5.961	1.00	94.69	C
ATOM	1994	C GLY A 265	-7.594	3.396	6.926	1.00	94.69	C
ATOM	1995	O GLY A 265	-7.121	4.258	7.672	1.00	94.69	O
ATOM	1996	N LYS A 266	-8.898	3.170	6.762	1.00	96.81	N
ATOM	1997	CA LYS A 266	-9.883	3.773	7.656	1.00	96.81	C
ATOM	1998	C LYS A 266	-10.867	2.729	8.180	1.00	96.81	C
ATOM	1999	CB LYS A 266	-10.641	4.895	6.945	1.00	96.81	C
ATOM	2000	O LYS A 266	-11.469	1.994	7.398	1.00	96.81	O
ATOM	2001	CG LYS A 266	-11.531	5.719	7.863	1.00	96.81	C
ATOM	2002	CD LYS A 266	-12.188	6.875	7.117	1.00	96.81	C
ATOM	2003	CE LYS A 266	-13.094	7.688	8.031	1.00	96.81	C
ATOM	2004	NZ LYS A 266	-13.727	8.836	7.305	1.00	96.81	N
ATOM	2005	N VAL A 267	-10.953	2.678	9.547	1.00	96.50	N
ATOM	2006	CA VAL A 267	-11.898	1.778	10.195	1.00	96.50	C
ATOM	2007	C VAL A 267	-12.977	2.592	10.914	1.00	96.50	C
ATOM	2008	CB VAL A 267	-11.188	0.835	11.195	1.00	96.50	C
ATOM	2009	O VAL A 267	-12.656	3.484	11.711	1.00	96.50	O
ATOM	2010	CG1 VAL A 267	-12.195	-0.080	11.883	1.00	96.50	C

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ATOM	2011	CG2 VAL A 267	-10.117	0.013	10.477	1.00	96.50	C
ATOM	2012	N GLU A 268	-14.227	2.256	10.594	1.00	97.19	N
ATOM	2013	CA GLU A 268	-15.344	2.912	11.258	1.00	97.19	C
ATOM	2014	C GLU A 268	-16.234	1.899	11.984	1.00	97.19	C
ATOM	2015	CB GLU A 268	-16.172	3.707	10.250	1.00	97.19	C
ATOM	2016	O GLU A 268	-16.703	0.937	11.383	1.00	97.19	O
ATOM	2017	CG GLU A 268	-15.438	4.879	9.625	1.00	97.19	C
ATOM	2018	CD GLU A 268	-16.281	5.664	8.633	1.00	97.19	C
ATOM	2019	OE1 GLU A 268	-15.766	6.645	8.047	1.00	97.19	O
ATOM	2020	OE2 GLU A 268	-17.453	5.293	8.438	1.00	97.19	O
ATOM	2021	N VAL A 269	-16.391	2.188	13.266	1.00	96.50	N
ATOM	2022	CA VAL A 269	-17.250	1.337	14.078	1.00	96.50	C
ATOM	2023	C VAL A 269	-18.422	2.150	14.609	1.00	96.50	C
ATOM	2024	CB VAL A 269	-16.469	0.701	15.250	1.00	96.50	C
ATOM	2025	O VAL A 269	-18.234	3.207	15.211	1.00	96.50	O
ATOM	2026	CG1 VAL A 269	-17.391	-0.169	16.109	1.00	96.50	C
ATOM	2027	CG2 VAL A 269	-15.289	-0.118	14.727	1.00	96.50	C
ATOM	2028	N LYS A 270	-19.625	1.656	14.344	1.00	96.81	N
ATOM	2029	CA LYS A 270	-20.844	2.273	14.852	1.00	96.81	C
ATOM	2030	C LYS A 270	-21.609	1.316	15.766	1.00	96.81	C
ATOM	2031	CB LYS A 270	-21.750	2.719	13.703	1.00	96.81	C
ATOM	2032	O LYS A 270	-21.891	0.178	15.391	1.00	96.81	O
ATOM	2033	CG LYS A 270	-22.938	3.557	14.133	1.00	96.81	C
ATOM	2034	CD LYS A 270	-23.750	4.031	12.938	1.00	96.81	C
ATOM	2035	CE LYS A 270	-25.000	4.801	13.375	1.00	96.81	C
ATOM	2036	NZ LYS A 270	-25.781	5.285	12.203	1.00	96.81	N
ATOM	2037	N LEU A 271	-21.891	1.814	16.969	1.00	96.19	N
ATOM	2038	CA LEU A 271	-22.641	1.041	17.953	1.00	96.19	C
ATOM	2039	C LEU A 271	-23.891	1.793	18.391	1.00	96.19	C
ATOM	2040	CB LEU A 271	-21.766	0.722	19.172	1.00	96.19	C
ATOM	2041	O LEU A 271	-23.828	2.967	18.766	1.00	96.19	O
ATOM	2042	CG LEU A 271	-22.375	-0.219	20.203	1.00	96.19	C
ATOM	2043	CD1 LEU A 271	-21.547	-1.495	20.312	1.00	96.19	C
ATOM	2044	CD2 LEU A 271	-22.469	0.475	21.562	1.00	96.19	C
ATOM	2045	N THR A 272	-25.031	1.083	18.297	1.00	95.75	N
ATOM	2046	CA THR A 272	-26.281	1.675	18.750	1.00	95.75	C
ATOM	2047	C THR A 272	-26.984	0.761	19.766	1.00	95.75	C
ATOM	2048	CB THR A 272	-27.234	1.958	17.578	1.00	95.75	C
ATOM	2049	O THR A 272	-27.281	-0.392	19.453	1.00	95.75	O
ATOM	2050	CG2 THR A 272	-28.500	2.672	18.047	1.00	95.75	C
ATOM	2051	OG1 THR A 272	-26.562	2.783	16.609	1.00	95.75	O
ATOM	2052	N ALA A 273	-27.172	1.300	20.984	1.00	94.19	N
ATOM	2053	CA ALA A 273	-27.891	0.562	22.016	1.00	94.19	C
ATOM	2054	C ALA A 273	-29.219	1.239	22.359	1.00	94.19	C
ATOM	2055	CB ALA A 273	-27.031	0.432	23.281	1.00	94.19	C
ATOM	2056	O ALA A 273	-29.250	2.430	22.672	1.00	94.19	O
ATOM	2057	N GLU A 274	-30.250	0.440	22.281	1.00	93.50	N
ATOM	2058	CA GLU A 274	-31.578	0.963	22.594	1.00	93.50	C
ATOM	2059	C GLU A 274	-32.250	0.167	23.719	1.00	93.50	C
ATOM	2060	CB GLU A 274	-32.469	0.947	21.359	1.00	93.50	C
ATOM	2061	O GLU A 274	-32.344	-1.058	23.641	1.00	93.50	O
ATOM	2062	CG GLU A 274	-32.000	1.875	20.250	1.00	93.50	C
ATOM	2063	CD GLU A 274	-32.906	1.872	19.031	1.00	93.50	C

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ATOM	2064	OE1 GLU A 274	-32.594	2.561	18.031	1.00	93.50	O
ATOM	2065	OE2 GLU A 274	-33.938	1.176	19.078	1.00	93.50	O
ATOM	2066	N GLU A 275	-32.562	0.914	24.719	1.00	91.75	N
ATOM	2067	CA GLU A 275	-33.219	0.320	25.875	1.00	91.75	C
ATOM	2068	C GLU A 275	-34.625	0.877	26.062	1.00	91.75	C
ATOM	2069	CB GLU A 275	-32.375	0.556	27.141	1.00	91.75	C
ATOM	2070	O GLU A 275	-34.812	2.096	26.094	1.00	91.75	O
ATOM	2071	CG GLU A 275	-32.969	-0.117	28.391	1.00	91.75	C
ATOM	2072	CD GLU A 275	-32.125	0.133	29.641	1.00	91.75	C
ATOM	2073	OE1 GLU A 275	-32.094	-0.750	30.531	1.00	91.75	O
ATOM	2074	OE2 GLU A 275	-31.531	1.223	29.734	1.00	91.75	O
ATOM	2075	N THR A 276	-35.625	-0.035	26.125	1.00	89.31	N
ATOM	2076	CA THR A 276	-37.000	0.352	26.344	1.00	89.31	C
ATOM	2077	C THR A 276	-37.531	-0.249	27.656	1.00	89.31	C
ATOM	2078	CB THR A 276	-37.906	-0.086	25.172	1.00	89.31	C
ATOM	2079	O THR A 276	-37.531	-1.469	27.828	1.00	89.31	O
ATOM	2080	CG2 THR A 276	-39.344	0.410	25.359	1.00	89.31	C
ATOM	2081	OG1 THR A 276	-37.375	0.450	23.953	1.00	89.31	O
ATOM	2082	N ILE A 277	-38.062	0.644	28.500	1.00	85.56	N
ATOM	2083	CA ILE A 277	-38.656	0.237	29.781	1.00	85.56	C
ATOM	2084	C ILE A 277	-40.156	0.445	29.766	1.00	85.56	C
ATOM	2085	CB ILE A 277	-38.000	1.018	30.953	1.00	85.56	C
ATOM	2086	O ILE A 277	-40.625	1.554	29.516	1.00	85.56	O
ATOM	2087	CG1 ILE A 277	-36.469	0.871	30.922	1.00	85.56	C
ATOM	2088	CG2 ILE A 277	-38.594	0.542	32.281	1.00	85.56	C
ATOM	2089	CD1 ILE A 277	-35.750	1.835	31.844	1.00	85.56	C
ATOM	2090	N VAL A 278	-41.000	-0.656	30.016	1.00	80.25	N
ATOM	2091	CA VAL A 278	-42.438	-0.512	30.156	1.00	80.25	C
ATOM	2092	C VAL A 278	-42.812	-0.463	31.641	1.00	80.25	C
ATOM	2093	CB VAL A 278	-43.188	-1.662	29.453	1.00	80.25	C
ATOM	2094	O VAL A 278	-42.344	-1.273	32.438	1.00	80.25	O
ATOM	2095	CG1 VAL A 278	-44.719	-1.420	29.500	1.00	80.25	C
ATOM	2096	CG2 VAL A 278	-42.719	-1.815	28.016	1.00	80.25	C
ATOM	2097	N GLY A 279	-43.188	0.694	32.250	1.00	70.31	N
ATOM	2098	CA GLY A 279	-43.688	0.868	33.594	1.00	70.31	C
ATOM	2099	C GLY A 279	-44.625	-0.227	34.031	1.00	70.31	C
ATOM	2100	O GLY A 279	-45.531	-0.629	33.281	1.00	70.31	O
TER	2101	GLY A 279						
END								

A-series-data

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A_243_339	A339
A_1072_76	A76
A_243_45	A45
A_534_184	A184
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A_534_123	A123
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A_1346_209	A209
A_75_93	A93
A_1346_334	A334
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A_75_77	A77
A_534_200	A200
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A_534_319	A319
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A_1346_237	A237
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A_243_1	A1
A_1346_136	A136
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A_1769_63	A63
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A_75_378	A378
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A_534_247	A247

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A_534_196	A196
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A_534_55	A55
A_1769_363	A363
A_1769_297	A297
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A_534_32	A32
A_1243_367	A367
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A_534_187	A187
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A_78_268	A268
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A_1346_370	A370
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A_75_327	A327
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A_78_159	A159
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A_243_299	A299
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A_243_341	A341
A_534_73	A73
A_534_330	A330
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A_78_57	A57
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A-series-data

sequence

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A-series-data

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PKTSTYIFRIDIRHPDLKEKALAGLEEAFDFVISQSKDEEVKKYLKKLKEELMAKAPAWIDKVLKTGEKVTVVYEDKELGIKVT
ATITAEATLTSADAAKATEIAQLAAKLAETALKMLKEGKKELTEERDAPAAFADVETTLELTAVLEYEEEEQKAKVTVTWKDG
AKKSYYIRVDVSHPDRLREKALEGLKEGDFVIEQSKDEEVKKYLKELKEELMKKFPWLDHVLLETGEPVVKVIENKELGIK
AKGTATLTVYGDKKELAKEAFATLEKLLAKEGLKIDKKEETEDYVSVTLSTGADDLPKIEKVMKEAETLPEDIKALITTFDLAK
MKGATATLTVKGEKIELAKEAFKILKELLAKQGLKIDKIEETEEYVSVTLSTATAEDLPKIAKAVKEEAKKLPEEIKELITKFLDGLA
MKGATATLTVKGDKIELAKEAFELKELLAKEGLKIDKIEETEDYVSVTFTGTADDLPKIDAVMKEAESLPEEIRELILKFLNALKE
PKTATYVFEVDVRHPDLEATALEGLAEGDFVIAQSTDPVAKWLEKQKAELLAQAPAWIAHVLATGEPVTKVIENPELQVT
MKVKAKATVEYLDDEEAKLKLEVESDAPEEFLKELAKKLEEMGLEVKIENGKLLAEAKGKKEEMIAKAKEAVELVVKFAKEK
MKVKAKATVTDLDATRAKLLKLEVESDAPEEFLKELAKELEKMGLKVEIKDGKLLAEAGKREEILALAEKAVKLVVEMAKEH
AKTSKYIFKVDLSHPDLEKKAKEGLEKGFDFVISQSTDEKVKEYLKKLKEEIMKKFPEWLKEVLETGKKKVITYENEELGIKVT
MVRGVLTIKLDESVPVEEVKKKVRMVEELARRAREEMGLRVEIEEEDGVITVRAEGEREKVRAFFEIEIEGLKELAKENGLK
MKATVKITAKGEGTAEVKEKAETEGIPTVTITVDDPELFAKVEAAIKAKAAKLGIAVTVDGNKITLTVNKLETALEFAELAGK
KIAIGVGVSKEAATEETKKKLEEEKKLKEEVAKLKKETGLEITFEYKVFVDEEEAKAKAEAFKAVVDKGKAAGNDVAI
KTAKLSIKTRIGRTTVKLTIKLEFPDGRKVTNITVKVGGSLEEALKKVDEFIEIEKIKIEGDVEFNLELTVASLEDALEVAKY
AKTATYTYRVDMSHPDLEEKALAGLQAGDFVIAQATDAAVKARLAALKTELMAQFPWALRHVLETGEPVTRTYTDAALGI
MKVKAKATVEKLDEENAKLKLTVESDAPEEFLEELAKKLEEKGLKVEIEDGVLKAEAEAGPIEEMIKLAKELVDLVVKMAKEH
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MVKGVLTIITLSESVPVEEVKEQIREKVEELARRAREERGLKVEIEEEDGVITVRLEGEREDVRATVEEIIAALEEIAAENGLKVT
MVKGVLTIELDESVPVEEVKEAIKERVKELAEAAEKEMGLKVEIEEEDGVITVKLEGEKEKVKEAVERIIKAEELAKENGLKVE
MKAKVKITAKGKGSPEEVKEKVKTEKIEPIEVTIEVEDPELFFKKVKEAILKEAKKKGIEVKVEGNKIKLTVNELEDALEFAKLAGE
AKTSIYYIRIDIRHPDLKEKALEGLKKGFDFIIEQAKDEEVKKYLKELKEELLKKFPEWLEYVLKTGKKKVITYKNEELGIEVIVE
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MVTGVLTIELSESVPVEEVKKEIKKTVEELAERARKERGLKVEIEEKDGVITVRVEGEEADVKAQVQEIIEKAMQEIAKKNGLKVE
AYGTATLIVTGELIELAKEAFEILKLLAAEGLKIDKIEETEEKVSVLSGTAADMPKIEAVMKKVEELPEEIRELISKFLNLLKEA
PFTATYTFEIDISHPDLEKALEGLKEGDFVINEAKDEKVKEWLKEKKKELLAKAPEWIDHVLLETGEPVTITYENKELGIKLV
KIAIGVGVSSEADTPETRAELEAEKAKLKEEVEKLKKETGLEITFEYKVFVDEEAEAKAKAEAFAAAVVAEGKAAGADVAI
MKVRARATVERLDETRARLRVLESDAPEEFLEELAEELRELGLEVEIEDGVLRAEAEGEVEEMKALAEVVVELVERAE
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KIAIGIGVGSKEAYTEETKKKELEKFKEELEKEVAKLKAETGLEITYEYKVFVDEEEAAKKAEFAKKVVEEGKAAGADIAIG
MKYKLVKAVIEQLDENKVRAVITVEADEETIEKIVKLAEKKKSGKLKVEVEVKDGLVTITVEGEKEEVLKFIEEIAEIVKEDSPG
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KIAIGVGIGVSEADTPETREELRRFEEELREEVERLRAETGREITLRVKVFVDKLEEAACAKAKEFAAAVVAEGRAAGADEAV
AYGTATLTVKGELKELAKEAFKELEKLLAKEGLKIDKVEETEDSVTFSGTAADLPKIDKVLKEAEKLPEEKRLITTFNLAL
ATITATATLSSADAALATKIAQRAAQLAAETTLEMLKAGKRTLREEDAPAEFADVETTTLTAVLDHGKPHRATVTVTLKDG
MVEGTFTITLDESVPVEEVKEEKKKVKELAEKARKEMGLEVKIEEENGVTVMKGEREKVKKAVEEIIKALKEIAKKNGLKVE
AFTATYTYEIDLRHPDLARALAGLQAGDFVISQAKDEAVKAYLKEKKAELLAQAPAWIAHTLATGEAVVKTVNEELGITY
PKKAIYTFKVDLRHPNLKELALKGLEKGFDFIIEQAKDEEVKKYLKELKEEFLKQAPIEWEYTLKTGKTVTKVWKNEELGITY
KIAIGIGVGSSESAATEETKKKLKEYEEKLKKEVEELKKKTGLEIKYEFKVFVDKEEEAAKKAKEFAESVVKEGKAAGADIAIG
PATSTYTFRVDLSHPNLRELALAGLQAGDFVIAQAKDPAVKERLKLKELMAQFPWALDHVLATGETVTITYEDPELGITV
MVVGVLTIELDESVPVEEVKKEIRERVKKLAERARKELGLEVEIEEEDGVITVTLRGEREKVKKTVEEIVEEIKKIAEKHGLKVES
PFAKYVYSVDLDHPDLEALAAAGLEKAFDFVIEQSKDEEVKKYLKELKKELMAKFPWALASVLATGEPKVVVYENKELGIK
KTATLNTITNIGKTTVNLITAEFPDGGKVTNATIKVGGVSLEEALKKIDEFVEEIEKEIEKGDVTFDLNLTVKSMEDAKKAAE
ARGTATLTVRGERRELARRAFARLEALLAAEGLAIDERVETEDYVSVTLSTATAADLPKIDRVAARAEALPEEERAILRFLDL
AYGTATLTVKGEKKELAKKAFEILKLLAAEGLIEEIIETEDYVKVVLKATAEDLPKIEKVKKKAEELPEEIRELITFLDALEEA
PKTAVYTFRVDLSHPDLRETALAGLDEAFDFVISQAKDPEVKEYLKKLKEEFLAEFPALLDRVLETGEEVVRTVENPELGITV
MKYKLVNATVTELEDTEVAEIKVEADKKTLEKIKKLAKEKKESGKLEVEVEEKDGLVTIKVKGKKEDVLAFIKEIAEIVKKESPO
KTAKISIKTEIGRRKIKTTIKAEFPNGKKVTNITVKVGGSLEEALKKLEEKLEIEKKIEEGDVEFEIELEVESMEDARKVAEY

A-series-data

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KVAKLKIKTKIGKKTIKTEIKAEFPNGKKVKVLTITVKVGGISLEEALKKIDEEVKKIEKDIIKGNVEYEIELEVESLEDAKKAAY
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PKTATYTFRVDVDHPDLRELAAAGLDAGFDFVIAQSTDPAVKEYLKKLKEELLAKFPAWLDHVLETGEEVVVTYENPELGIT
KIAIGVGVGVSEKAWTPETKAKLEAAKKALEAABAALKAATKLDITFEYKVFVDKEEEAAKKAKEFAEKVVEEGKAAGADV
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MVEGELTIELSESVPEEVKKEIRERVEKLAKKAKEELGLEVKIEEKDGVITVKMKGEKEKVKKEAAEIEEELKKIAEKNGLKVK
ATIEAKATLTSKDAEKAKKIAQMAAEKAAKTTLKMLKEGKKELTTEEEDAPAEFADVETTLTITSTLKYEKEHKAKTTITLKGK
MVKGVVKIELSESVPEEVKKEIRKAVKEIAEKAKEKELGLKVKEENGVTITMEGEEEEKVIEAAEIEKIEKIEAKNGLKVET
PKVAKYVYRVDLRHPDLEEKALEGLKEAFDFVIEQSEDEEVKKYLKELKEEFLAKAPEYIKKVLETGEEVKIVEENEELGIKV
PKTSKYIFRVDIDHPDLEKLSLEGLKKAADFVISQSKDEEVKKYLKELKEELLKQFPEWLKHVLETGEKVEIVYENKELGIKV
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MTVKAKATVTALDEENAELKVTVESDAPEEFLKELAKELEALGLKVITIEDGVLKATATGKKEEMIKLAKVVALVAMAKKH
KRAIGVGVGVSEAAATPETRAALAARRAAEAEEAARRAATGEEITLEYRVFVGPAEAAAAAAAAFAAAVVERGRAAGADE
MKGIALAVVVDASAPEEVKAALKAEALAEAGKRIAEIEEGYRVVVSFIVYDPATGKAEVTTIDIETGKVTKETVTTDLTGQELAD
MKVKAKAVVKDLDETETAELTLTVESDGPKEFLEELAKKLEEMGLEVKIEDGVLKAKATGPKEEMKALGEEAVKLVVEMAKE
MVEGVLTIELDDSVPEEVKKEIREKVEELAKRAEEELGLEVKIEEKDGVITVTLEGEEEEKVLKAVEEIEKEEIEAKNGLKVET
MKGATATLTVYGDKKELAKEAFKILEKLLAKEGLKIEKIIETEDFVSVTLSGTAEDKPKIEKVLKEVEKLPAELKELITRFLNLLKE
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ARGTATFTVTGDKIELAKKAVEILKELLAEEGLEIDEVETEEVSVVLSATAADLPKIEAVMKKAETLPPEIRELIMKFLKALKE
MKVKALATVEKLNEKEAKLKLKVESDAPEEFLKELAKKLEEMGLKVEIKDGVLTAEAEGEIEEMIELAKEAVKLVVEMAKEH
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KIAEVEIEKKISKTKIEVKIKAKFPNGKEVEVNLTVKVGGISLEEALKKVDEFIKKIEEDIKNGNVKYDIELEVESLEDAKKAAY
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MVEGVLTIELSESVPEEVKKEEVKKVEELAKRAREEMGLEVEIEEENGVTITVRARGEREREKVKAFFEEVIKALEEIAKNGLKV
KTAKLTIKKEIGKNSIKVTITAEFPDGTQVTVNLTVKVGGESLEEALKKIDKEVVEEIKEIKIEGNVEFNIELEVKSMDAIAKV
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MKVVAKATVKKLDEKRAELELEVKSEAPEEFLEELKKELEKMGLKVEIKDGLLAKAEAGEIEEMKKLAEAEAVKLVVEMAKKH
KTAKIEIDTDIGRRTITVKITATFPNGKKVTVNLTIKVGGISLEEALKKLEEKVKIEKKKIEKGDVKFIEIELEVESMEDARKAAEY
AKTATYTYRIDLSHPDLEEKALEGLKEGFDFIISQASDEKVKHLKLLKEEILKKAPEWIKVLETGEKVKVITYEDKELGITVT
MQHRLRAVIYELDENRVRVIEVEADPETLERIEALAKERKESGKLEVKVERKDGVLTIEVEGEKEEVLAFIEEVAIVRADSF
ARTATYVYRVVDVDHPDLAEALAGLKEGFDFVIAQATDPAVKAYLKEKQKELLAQAPAWIAHTLATGETVVVTHENPELGIT
AKKAVYVFRVDLSHPNLKEKALEGLKKGDFVIEQAKDEKVKYLLKKEELLKKAPEWIEHVLKTGEKKVITYKNEELGIEV
AYGTATLTVTGKIELAKKAFAIEILKLLKKEGLKIDKIEETEEYVSVTLSGTKEDLPKIEKVMKEVEKLPEEIKELITRFLLELKEA
MKAKVKIIAKGEGSPEEVKKKVEEENIPIEVKIEVEDEELFEKVKAILEKAKKLGIEVKVEGKTIITLVNKLETAKEFAKLAGEI
SYGTATLTVKGELKELAKKAFAIEILKLLKKEEGLEIDEIITDDYVSVTLKGTAEDLPKIEKVMKAKELPEELRKLIFLNLKEA
MVKGKLVKLDESVPVEEVKKEIEEKVKELAEKAKKEMGLEVEIEKENGVTITVKVEGEKEKVKKFVEEIEEELKKIAEENGLKVE
MVEGVLTVKLDESVPVEEVKKEIKKKIEELAEEKARKELGLEVKIEEEDGVITVKMRGEKEKVKKAVEEIIKSLKEIAKNNLKV
MVEGVLTIKLSSESVPEEVKKEVKERVERLAEAEARKERGLEVEIEEEDGVITVRLRGEREKVLATVKEIEEMKKIAKENGKLV
MIKVNKVVTTRNGVTYVEVIESDDKEFTELLAELSKKYPVEVEGNTVKLNLVGVDPEKVIKDILEAIEEAQKKGKEYPVEL
AKITAEATVKSADAKLAEIATLAAKTAETTLEMLKEGKKELTKESDAPEKFKDVETTITLTATLEYKKEYKATVTIELKDGKI
MKVKAKATVTKLDEENAKLELKVESDAPEEFLKELAKKLEEMGFKVKIENGKLLAEAEAGKIEEMIKKAKEAVELVVKMAKEA
MKGKATLIVKGDKIELAKKAFAIEILKLLKKEGLEIKIEIETDDYVKVLEATKEDLPKIEKVKEEVLKLPEEIRELILKFLDLLEEA
MKYVLRVIEELDEDTV RATIEVRADPATIAKIVALAKKAKASGKLEVEVKVEDGVLTIEVVGKREEVEAFIEEIAAIVKADSPG

A-series-data

AKITAKAELKSKDAEKAKEIAQLAAEKAAEVTLKMLKEGKKKLTEESDAPAEFKDVETTIELTATLEYKKKKHKAKVTIEFKDGK
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MKGATLTVKGKELAKEAFKILKELLKKEGLEIDEIETEDYVEVVFSAEDLPKIEKVMKEVEKLPEEIKKLSTFLNALKEA
MVRGVLRIELDESVP EEVKEEVREKVEELAERARRELGLKVEIEEEDGVITVRVEGEREKVREFVEEIIIEAMKEIAEKNGLKV
AKITATATLSSADAAKATKIA TEAATLAAETTLEMLKEGKKELTIERDAPAEFKDVKTTLTATLDYKKKKHKATVTVTWEDGK
AKTSTYVFKVDLRHPNLREKALEGLKEAFDFIISQAKDEEVKKYLKELQKEFLEKAPEWIDHVLETGEKVVTVKNPELGIEV
AKTAIYVFKVDLRHPNLEEEESLKGLEEGFDFVIAQAKDPEVKAYLKKLKEELMKEFPEWLKKVLETGEEVVKTYENPELGITV
TKATVDITAVGEGSPEEVKEQVETKGIPITVKVTVEDPELFAKVEAAIKAKAAALGIEVKVEGNTITLTVNKLETAKFAKLAGE
MVKGVLTIELSESVP EEVKETVEELAERAREELGLKVEIEEEDGVITVRVEGEREKVIRFVEEVIEALKKIAEENGLKVE
KIAIGIGVGVSAAADTPETRAALAAEEAALKA EVAKLKAETGLEITLEYRVFVAEREEAAAKAEFAAAVVARGKAAGADRAE
KTAIGIGVGVSRAADTPETRARLEAERAALAEVARRRRAETGEEIDRLYKVFVDEPAAAAAAAKAFADAVVAEGRAAGADR
ARKATYVFRVDLRHPNLEELALEGLDEGFDFVIAQAKDPAVKAYLEKLKAEMMAKAPEWIAHTLATGEKVTVTYENPELGIT
TKAKVKITAKGEGSPEEVKKKVETEGIPITVEITVADPALFAKVKAIEALAAKKGIKVEVKGNTIILTVNKRDALEFAALAGAI
KTATITVKTEIGRTTVKTTIKA EFPDGT KVTVNLTVRVGGVSL EEALAKLDEEIEKIR EEEKG DVEFNIELTVASLEDALEVSKY
KTAKLTIKTEIGKNTIKTTIKA EFPNGKKVTVNLTVKVGGSLEEAKKKLDEKVKEIEKEIEKGNQNF EINLEVESMEKAKEASN
MQYKLNAVIRQLSEDEVEAVITVEADPAVL DQIEALAAAKASGKLEVEVERKDGVLTITVRGKKEDVLAFIEQVAAIVKAGS
KTAKINVKTEIGRRTIKTTITAEFPDGT KVTVNLTIKVGGSLEEAKKKLDEELKKIEKDIKKGDVKYDIELTVKSMEDAREAAE
MVEGVLRIELSESVP EEVKQVRETVRRLAEEAREELGLEVEIEEEDGVITVRLRGEREKVREAVERRIAAMEAIAAENGLKV
AKGTATLTVKGKELAKESFKILEELLKEEGLEIDKIEETEEYVSVTLSGTAEDLPKIEKVLEKAKELPEEKELITKFLNALKE
MRVEARAVVTALDERRARLELEVRSDAPEEFLEELAERLEELGLEVEIEDGVLRAEAEGEREEMLALAEAAVALVVELAAEF
AYTATYVYRVDSLHPRL EELALEGLEKGFDFVISQSKDEEVKAYL KELKKERLAQAPAWIAETLATGQEVTVVDENKELGIK
MIKVNINSTTKNGVTYVNV TIESDDEEFTKLLAEILSKKYPVKVEGNKVLLNLVNEET EKVLDIKEAIEKAQKKGKEYKVEIN
ITVNIKDTKINQANGAPIYQRTVTI EYTKDGKVTVT LSVTATEEDWEAKKAALEAQLAATLAAITAETGKT VTKVTTT KTTIE
AYEATYIFRVDLRHPDLEAAALAGLDAAFDFVIEQAKDPEVKAWL KELRDRLARFPALLARVLATGEPVTVVEENPELGITV
AKTATYTFRIDL SHPDLEAKAAEGLKEGFDFIIEESEDEEVKKYLKELQKELEAEFFPAWLAHV LATGEAVTKTIENEELGIKVT
AAKSTYTYRVDSLHPNLKEEALAGLQAGFDFVIAQAKDPEVKAYL KELKAEWMAQAPAWIAEVLETGETVTKTWENPELGI
AKTSVYVYRVDL DHPDLEAEALAGLKEAF AFVIAQATDAAVKARLKELEKELLAKAPAWIATVLATGEEVVITYEDPELGITV
PFEAVAIVRIDLSHPNLEEEALKGLDEAFDFVISQSKDEEVKKRLKELREELRAEFPAWLRYVLETGEPVVKTYEDKELGITV
KTAKLSITTKIGRTTVTTT IKA EFPDGT KVTVNLTVRVGGISLEEALKKIDEEAEKIKEDIKKGDVEYNIELEVESMEDALEVSKY
AATSTYVVEVDLRHPDLEEKALEGLKEGFDFVIAQAKDPEVKAYL KELQKEVLAKFPEWLKHVLETGEEVVETYKNEELGIE
MKGATLTVKGKIELAKKAVEILKKLLEEEGLEIDEIIEETEEYVKVLSATEEDLPKIEKVKEKVKSLPKEIRELILKFLDALEEA
PFEATYIFEVDIRHP ELMELALKGLEEAFDFVINEAKDEEVKKWLEELKEEALAEAPAWVAEV LATGKEVVKTWENKELGITV
PKKATYTFRVDLDHPDLREKALAGLKEGFDFVISQSKDPEVKEYLKKLKEELLAQAPAWIDHVLETGEEVVITKKNEELKIEV
KIAIGIGVGVS KAAATPETKAALEAEKKALEEAVAKLKKETGLEITLRYKVFVDEPAEAAA KAKAFADSVVAEGKAAGADVAIC
MVKGELTITLSESVP EEVKEEIKVKELAEKAKKELGLKVEIEEEDGVITVKVEGEEKVLKFFKEVIEAIEIAKKNGLKVET
MVEGVL TIRLSPSP EEVREEIRRTVEELAERARRELGLEVEIEERDGVITVRVRGEREKVRAFFEELIAALEAIAARHGLRVF
ATITSEATVEMEDAELAKEIAQEAAKLAAETITLMLKKGLKEKTETREAPEKFKDIKTTITLTSVLKYKKEYTATV TITYENGKIT
KTAKVNIKREIGENTIKLTIKA EFPNGKKITVNLTVKVGGSLEEALKKVDKEIEKIKKEIEKGDVEFNIELEVESMEDALKVAEY
MKVTATATVEALDEETARLTVTVKS DAPEEFLKELAKKLEELGLEVKIEDGVLTAEAEGP REEMLALAEVVALVVKMAAEK
KTATLNINTKIGKNTITTTITAKFPDGT KVTVNLTVKVGGSLEEALKKIDEEIEKIEKEIEKGDVEFNIELEVESMEDAKKASEYA
AKITAEATVTMKDKEKATEIATLAAKLAAETTLEMLKEGKK EKTVESDAPAEKFKDVETTIELTAVLDY EKKQTAKVTVTIKDGK
MKVEAKATVKKLNEEEAELELEVKS DAPKEFLEKLAKKLEELGLKV TIEDGKLTAKAKGKIEEIKKLAKAEVELVVKMAKEAG

A-series-data

AF2_plddt	ESMFold_plddt	1nm/ns SMD Force (pN)	0.1nm/ns SMD Force (pN)
92.32930435	91.46591304	1457.0304	1278.392533
94.93663934	93.64163934	1675.728	1175.177067
94.05508197	93.0852459	1838.816	1176.442667
94.64483607	92.35508197	1655.024	1370.622933
94.63729508	93.13295082	1509.7936	1134.222933
93.06930435	91.55869565	1559.6	1345.198707
92.77417476	91.65019417	1736.896	1260.8896
92.46276786	91.54285714	1458.9472	1300.0705
92.28233333	91.32588889	1450.215287	1194.144
92.445	91.85223214	1482.056	1135.121067
94.67303279	93.27631148	1530.8544	1238.717867
92.23788889	91.25222222	1441.659647	1228.827733
92.15385246	91.79106557	1389.1328	1127.4544
92.14211111	92.685	1456.808	1122.939733
92.34356522	91.15113043	1398.6624	1122.5168
93.79826087	91.72547826	1392.9536	1179.425067
92.16965217	91.8886087	1471.2624	1120.6432
92.70311475	92.76991803	1394.7152	1119.338667
91.28313043	92.40721739	1397.7904	1117.005333
94.32114754	93.80467213	1625.12	1114.815467
93.85893443	92.0747541	1387.3168	1106.8272
93.81606557	91.10459016	1399.712	1094.153067
95.40065574	93.575	1395.8176	1086.613333
93.66713115	93.71278689	1433.2784	1074.765333
92.4566087	91.46791304	1394.8816	1063.7152
92.37817391	91.42852174	1480.8	1060.9088
92.47217391	91.53365217	1402.3872	1058.484267
91.55133929	91.11553571	1399.184	1053.064
94.08563107	91.92194175	1395.9552	1049.888
94.90508197	93.2454918	1436.288	1036.180267
90.110625	91.11321429	1390.5056	1034.807467
94.97959016	92.98868852	1722.192	1027.337067
92.26313043	91.70730435	1408.9296	1026.260267
91.48704348	91.30617391	1392.9232	1024.0736
93.75016393	92.98901639	1391.4848	1019.634667
94.79713115	92.40581967	1388.9632	1007.397333
92.13776786	91.09651786	1390.3008	1003.9648
92.3653913	91.3073913	1469.0128	1001.0384
94.7262766	91.33095745	1389.9248	975.0026667
92.44713043	91.01991304	1437.8448	964.3776
93.87704918	93.20893443	1386.4512	
91.77678261	91.65226087	1385.552	
91.79679612	91.99466019	1385.0368	
92.68214286	91.00357143	1384.6096	
91.07511111	92.76711111	1384.3296	
91.8147	91.8974	1384.312	
92.46650485	91.55601942	1383.7616	
93.12934426	92.96229508	1383.4608	
91.99617391	92.78773913	1383.44	
91.33721311	93.51827869	1383.2944	
92.93223301	92.21145631	1382.7744	
94.9107377	93.16081967	1382.0576	

A-series-data

93.43531915	91.23744681	1381.7936
92.04651786	91.42035714	1381.0272
91.37383929	91.56330357	1380.4928
94.58418033	92.74819672	1380.1712
92.6254	91.2671	1380.168
92.67834783	91.324	1379.7152
94.74377049	92.98713115	1379.376
94.0893913	91.12408696	1378.792
94.94344262	93.22483607	1377.7296
93.7215534	92.33786408	1376.9728
90.95	91.18349515	1376.9024
93.53592233	91.64640777	1376.7696
95.7645082	93.51868852	1376.5904
93.545	91.48861702	1376.384
94.35670213	91.60478723	1376.2144
94.33647541	92.95598361	1375.6992
92.80535714	91.31892857	1373.4256
91.2643	91.6814	1372.8032
92.02811111	92.36544444	1372.4432
92.37286957	91.7586087	1371.8752
94.53459016	91.41565574	1371.1984
93.26723404	91.35191489	1371.088
90.30382609	91.14469565	1370.8704
91.85758929	91.64776786	1370.6736
91.32205357	91.07142857	1370.4656
91.3226	91.2651	1370.3936
93.02122951	92.49319672	1369.6384
90.8076	91.1421	1369.4464
91.30375	91.19955357	1369.3728
92.61601942	91.59291262	1368.8176
90.1845082	93.47754098	1368.0816
93.27822222	92.94222222	1367.9168
94.87670213	91.41010638	1367.736
94.86155738	92.44491803	1367.2352
91.61244444	92.49411111	1367.1984
93.68395833	91.48677083	1367.1392
95.63893443	93.87377049	1366.9024
95.448	92.04988889	1366.488
92.25466019	91.86349515	1365.3904
92.74347826	92.40278261	1364.9904
91.26803571	91.70401786	1364.68
94.78598361	91.22327869	1364.536
94.83836066	92.60737705	1364.3424
91.72344444	92.05166667	1364.024
94.75786885	93.2652459	1363.96
91.61133929	91.53794643	1363.9136
94.37155738	91.10172131	1363.4032
93.20591304	91.50269565	1362.9712
95.16825243	91.27145631	1362.3856
93.12941748	92.86116505	1362.2656
95.05745902	93.09483607	1362.1152
91.56260417	91.91041667	1361.8736
91.49591304	91.29913043	1361.4544

A-series-data

94.46844262	91.85688525	1361.368
93.09958333	91.19875	1361.2432
92.95347826	91.87104348	1361.2272
90.82208696	92.76843478	1360.6752
91.40178571	91.14732143	1360.4496
92.274	91.26695652	1360.1584
94.8857377	93.14893443	1359.76
93.00032967	91.62065934	1359.6016
91.82205357	91.611875	1359.5744
94.75081967	93.28704918	1359.4432
93.57288889	92.11288889	1358.4048
91.85262136	92.13941748	1358.0224
91.23883929	91.43866071	1357.8848
92.20495652	92.234	1357.5712
90.78455357	91.10991071	1357.4784
94.68491803	93.29459016	1357.472
91.60631148	93.31057377	1357.3936
91.38739583	91.66385417	1357.3296
93.78085106	92.81617021	1356.4192
94.95377778	91.396	1356.056
93.27727273	91.73990909	1355.6192
93.71712766	92.04244681	1355.2768
91.43223214	91.46214286	1354.5184
92.94223301	91.04417476	1353.704
93.84008197	92.17754098	1353.0368
91.0576	91.4975	1352.8464
93.49621359	91.15368932	1352.552
94.96811475	93.22385246	1352.264
91.81815534	91.71194175	1351.9072
95.15212766	92.33734043	1351.4368
91.69616071	91.4425	1351.4256
92.16556522	91.44391304	1350.7456
93.88138298	91.25638298	1350.3072
91.91285714	91.45580357	1349.0672
92.25573913	91.58043478	1349.0608
93.85747573	92.42417476	1348.5328
94.08106383	91.5943617	1348.3296
92.762	91.28808696	1347.7168
93.93606557	92.69	1346.792
93.695	91.339375	1346.1328
95.44336066	93.03409836	1345.48
94.10483607	93.12237705	1345.4016
93.14970874	91.22572816	1345.1328
91.9665	91.2092	1344.7536
93.67058252	92.20582524	1344.7488
90.67973214	91.06803571	1344.7104
91.77875	91.34875	1344.5456
91.55008929	91.485625	1344.5312
92.68340659	92.88274725	1343.904
90.64391304	91.06643478	1343.7392
93.7856383	91.68851064	1343.1376
93.26543689	91.3707767	1343.1232
92.84927083	91.39760417	1342.7168

A-series-data

91.04034783	92.37521739	1342.6656
92.99	91.41970874	1342.4496
92.51038835	92.33990291	1342.2832
91.54892857	91.14839286	1341.3504
91.3113913	93.07069565	1340.4672
94.73754098	93.47967213	1340.432
93.9997541	92.73696721	1340.2512
90.9245	91.1006	1340.0784
91.93321429	91.34848214	1339.4768
93.86111111	92.35088889	1338.2672
95.20877778	92.40033333	1338.2048
95.0604918	93.76565574	1337.8592
91.2048	91.3859	1337.768
91.83234783	91.30191304	1337.2992
92.20826087	91.02278261	1337.176
94.5884375	91.71145833	1336.9712
91.83782609	91.62191304	1336.92
92.97633929	91.41714286	1336.4048
92.60417476	92.4931068	1335.952
95.87755319	91.40638298	1335.3088
94.81139344	92.715	1335.1616
92.51461538	91.61	1335.1312
93.15892857	91.15928571	1334.5024
95.35704918	92.65663934	1334.3968
93.58016393	93.3654918	1334.3696
93.95786885	93.51352459	1334.2064
93.6754918	93.20090164	1332.536
95.05885246	93.17754098	1331.5328
92.32043478	91.15356522	1330.5712
93.77622951	93.50237705	1330.3408
92.35106796	92.21941748	1330.2224
94.78745902	93.11213115	1329.0224
95.18352459	93.18303279	1328.88
93.26966667	93.05888889	1328.656
92.306875	92.55553571	1328.1056
92.87857143	91.00758929	1328.0928
92.25513043	92.57704348	1327.736
92.59365217	91.40643478	1327.3376
93.95053191	92.17978723	1327.024
91.13869565	91.74113043	1327.0064
93.28026087	92.40556522	1304.4096
93.57968085	91.29297872	1301.0096

A-series-data

RMSD of Annealing simulation (nm)	RMSD TOP8	Final selection (0.1ns/ns SMD criteria)
0.1795319	◆◆	
0.1831966	◆◆	
0.1870205	◆◆	
0.1921551	◆◆	◆◆
0.1925858	◆◆	
0.2089907	◆◆	◆◆
0.2362085	◆◆	
0.4841124	◆◆	◆◆
0.5117415		
0.5312545		
0.5787089		
0.618798		
0.6544229		
0.7689629		
0.9308943		
0.9568339		

B-series-data

full_name (series_structure_sequence)	short_name
B_99_347	B347
B_99_42	B42
B_99_363	B363
B_757_13	B13
B_99_324	B324
B_99_94	B94
B_99_196	B196
B_501_23	B501
B_99_27	B27
B_99_30	B30
B_99_297	B297
B_99_22	B22
B_501_374	B374
B_501_173	B173
B_757_91	B91
B_99_377	B377
B_99_117	B117
B_501_207	B207
B_501_184	B184
B_757_136	B136
B_99_70	B70
B_99_321	B321
B_757_248	B248
B_757_398	B398
B_99_103	B103
B_501_177	B177
B_99_229	B229
B_757_43	B43
B_99_154	B154
B_757_342	B342
B_99_295	B295
B_99_311	B311
B_99_220	B220
B_757_225	B225
B_99_269	B269
B_757_302	B302
B_757_50	B50
B_99_308	B308
B_757_333	B333
B_99_246	B246
B_501_46	B46
B_99_261	B261
B_376_220	B220
B_99_36	B36
B_757_176	B176
B_99_233	B233
B_99_204	B204
B_757_283	B283
B_757_354	B354
B_757_79	B79
B_501_69	B69
B_749_266	B266

B-series-data

B_757_366	B366
B_501_195	B195
B_501_244	B244
B_501_327	B327
B_99_129	B129
B_99_17	B17
B_757_99	B99
B_501_321	B321
B_501_88	B88
B_501_268	B268
B_501_333	B333
B_501_382	B382
B_501_222	B222
B_757_74	B74
B_757_237	B237
B_501_387	B387
B_99_71	B71
B_99_352	B352
B_757_308	B308
B_501_377	B377
B_99_2	B2
B_757_247	B247
B_501_232	B232
B_501_164	B164
B_488_18	B18
B_501_89	B89
B_501_32	B32
B_488_296	B296
B_501_150	B150
B_99_284	B284
B_99_179	B179
B_501_390	B390
B_99_109	B109
B_99_167	B167
B_99_6	B6
B_749_100	B100
B_99_120	B120
B_99_125	B125
B_501_104	B104
B_501_349	B349
B_99_213	B213
B_99_228	B228
B_488_356	B356
B_501_51	B51
B_501_358	B358
B_99_50	B50
B_501_336	B336
B_99_325	B325
B_99_279	B279
B_99_168	B168
B_501_124	B124
B_501_360	B360
B_501_379	B379

B-series-data

B_501_163	B163
B_99_16	B16
B_99_114	B114
B_757_130	B130
B_99_240	B240
B_99_31	B31
B_501_210	B210
B_501_346	B346
B_99_394	B394
B_99_185	B185
B_501_5	B5
B_99_305	B305
B_501_285	B285
B_99_169	B169
B_501_65	B65
B_757_27	B27
B_757_155	B155
B_501_55	B55
B_501_83	B83
B_501_12	B12
B_757_2	B2
B_757_276	B276
B_501_140	B140
B_757_377	B377
B_743_351	B351
B_99_60	B60
B_757_199	B199
B_99_161	B161
B_99_64	B64
B_501_198	B198
B_99_88	B88
B_757_139	B139
B_501_365	B365
B_99_4	B4
B_757_189	B189
B_99_43	B43
B_501_209	B209
B_99_290	B290
B_501_254	B254
B_501_84	B84
B_757_175	B175
B_501_260	B260
B_99_362	B362
B_501_263	B263
B_501_216	B216
B_757_82	B82
B_501_45	B45
B_757_322	B322
B_99_182	B182
B_99_249	B249
B_501_73	B73
B_501_345	B345
B_99_180	B180

B-series-data

B_501_282	B282
B_743_85	B85
B_501_364	B364
B_99_256	B256
B_99_316	B316
B_501_266	B266
B_99_251	B251
B_749_200	B200
B_749_82	B82
B_757_400	B400
B_99_206	B206
B_501_8	B8
B_501_287	B287
B_501_187	B187
B_99_397	B397
B_99_334	B334
B_757_174	B174
B_757_8	B8
B_501_211	B211
B_501_247	B247
B_501_220	B220
B_757_201	B201
B_501_361	B361
B_501_238	B238
B_757_271	B271
B_501_324	B324
B_99_76	B76
B_757_141	B141
B_757_371	B371
B_757_196	B196
B_757_157	B157
B_757_269	B269
B_757_325	B325
B_99_141	B141
B_757_53	B53
B_757_181	B181
B_743_379	B379
B_99_33	B33
B_757_359	B359
B_757_143	B143
B_376_98	B98
B_757_40	B40

B-series-data

sequence

MKKIIVIEENEEITIELENATEEEIEKLFKEIIEKKIKEIEEEKGYELKKKEIKEEEKKEEENKIVYTKKVTLTFKSKKDPNLIYVLNLT
MKKIEVIEEEEEIEEVIELNASDEEIEKKLFEEKIKKLEIEIEKEKGYELVKKEIEEEEVEKKENEIITYTKKVTLTFRSKKDPNKIYVVKY
MMKIEVIEEEEEIEEVIEDATEEEIEKALFDKKVEELIKKYTEEEKGYELEKLEREESVEKLPNKIITYTLKVTLTFKSKKDKNKILKVN
MEKIEVIEEEEEIEVKEEDKEKTLKEIIEKYKKKVEEKGYEILEIKIEEEFLSEENGVTTYLITITIKAKDKETGKIVIFKKIKLSIYP
MLEIKVIEENISETIEVEDASDEEIEKLFEEERIEKLIKITEEEKGYELKEIKIEDKEEKKENKIYTRNVTLTFKSKKDKNLIYVVNL
MKKIKVIEENIEEEEIELTNASEEEIEALFEKRIEEKIKEIEEEKKGYELKELKIEESKEEKPDKIITYTKKVTLTFKSKKDPNLIYKVNLT
HMKIKVIKENIEEEEIELENASEEEIEKLFEEKIEKKIKEIEEEKKGYELVDIEIEKEKEEKPNTIITYTKVTLTFKSKKDPNLIYVVNL
MKVEVETVTKTVTVEAYEGETKNVTVTLDGKTYNFTIDTKNKTVDNNTGKVYPLTKVSDDTYQATVTETEEVAPGKKKVY
MEKIEVIEEKEEIEVIELENATEEEIEKKLFEEKTIKEKEEKIEKEKGYELVKKEIEEEEKEELPNEIVYTYKVTLTYKSKKDKNKIYKLN
MKEIKVIKENEEETIELENASEEEIEKKLFEEKINAKEKEITEEKGYELKNKKIEESKEELPDKIVYTKKVTLTYKSKKDPNLIYELN
HMKIEVIEEEEEIEEIELKNASKEEIEKLVEKKIEELIKEIEEEKKGYELVKKEIKKKEEKLPNKIITYTYEVTLTFKSKKDPNKILVVKLT
MKKIEIIKENKEIKIELENATDEEIEKLFKEIIEKEIKEIEEKYGYKLKEIKIEKEKEELPNEIITYTKVTLTFESLKDKNKIYVNLITIT
MEIKVTTTKTKTVTVSMYEGEVKNVTVTLDGKTYNFTIDTKNKTVDKNTGETYPLKQVSPDTLEATITHEEETAPGEKTVYVI
MKTEVTTVTKTVTVMEYEGETKNLTVTLTGKTYNFTIDTKNKTVDLNTGKTYPLKQVSPDTLQATVTYEEEVAPGKIKVYK
MEEIKIIEEEREITVKESEVKKLEELKEIKKEVEEEKGYEIEKIEISEEFLSEENGKKTYLITITVTAKDKKTGKKVIFKKNILLTVIP
MVKIEVIEEEEEIEETIELENASEEEIEKLFKEKIEKKIKEIEEEKKGYELKEIKIEKSKEEEKDTIITYTKVTLTFKSKKDKNKILKVNLT
EVKIKVIKEDIEETIEVENASEEEIEKLFKEKIEKLIKEYTEKYGYELKDIKIEKEKEEKENEIIITYTKVTLTFKSKKDPNVIYVNYT
MEVKVTTVTKEVTVSAYEGETKNVTVTLDGKTYNFTIDTKNKTVDNNTGKTYPLKQISPDTLQATVTYEEEVAPGKIKVYK
MEVKVTTVEKTVTVNAYEGETKNLTVTLNGKTYNFKIDTKNKTVDLNTGKTYPLEQISENTYKATIEEKEEIAKNEIKIYKINIL
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MLKITVIEEEEIKETIEVEEATEEEIEELFKKKIEELIKKYEELGYELEKKIEKEVKKEPKDKIITYTKVTLTFKSKKDPNKILKVN
AEKIEVIEEEEEITVKEKDVEKTLKKKLEEYIKKVKDKGYEILKIEVKKEFLSEENGKKTYLITIKITAKDPKTGKIVIHVYNIKLTVI
PEEIEVIEKKEKIEVKKEEVEETLKKKLEEIKKEVEEEKGYEILKIEVEEEFLKEENGVKTYLITITVTARDPKTGKLVHVKYKIELKV
MKKIEVIEENENITIEVNASEEEIEKLFEEETIEKKIKEITEKKGYELEKKEIKKEKEEENKIIITYTNVTLTFKSKKDPNKIYILNLT
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MLKIEVIEEENEEIEEVENASEEEIEKLFKEIIEKKIKEIEEEKKGYELVSKEIEKEKKEEKDKIITYTKVTLTFKSKKDKNKILKVNLT
APEIEVIEEEEEITVKESDVEKKLKEKIEEYKKKVKDKGYKIEKIEIEKEFLKEENGKKTYLITIKITAINPETGKKVIFKKNITLTVI
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MKKIEVIEENIEETIELENASEEIDKLFDERVNAKIKEITEKKGYELEKKEIEDSVEEKPDEIITYTRNVTLTFKSKKNPNLIYVNV
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MKKIIVIEEKKIEKTIELNATEEEIEKLFEEIINELIEKYEKEKGYELEKIEKEYKKEELPNKIVYTLNVTLTFKSKKDPNLIKVNLT
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HMMVKVIEKEKEITVKEEDVEKTLLEELKKEFLDEVKKKGYEILKVEIEKEFLKEENGKKTYSKVTITITAKDPKTGEIVHKLITILT
MKKIKVIKEEIEKEEIEVEEASEEEIEKKLVKEKIEKKIKEYEEEGYELVEKKIEEEEVEEKENEIIITYTKVTLTYKSKKDKENVILEVNI
PEEIEVIEETEKEITVKEEDVEKELEKLEELKKEVEAKGYEILEVKIEKEFISEENGKKTYLITITITARDPKTGKLVKFVHKVLLTV
MKKIIIEKENIEETIELENATEEEIEKLFKKKIEEKIKEIEEEKGYELVEKKEKEEKEEKPNTIITYTKNVTLTFKSKKDPNKIKIVNLK
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MKKIKVIEEKIEEEEIELTDASEEEIEKLFEEERIEKKEKEIEEEKKGYELKEKEIEEEEKEELPNEIITYTKKVTLTYKSKKDKENEILVNL
AAAATTYKATTTLTVSIRPGETVTTTLTVTWDDGKTYYTVTLTVTIEDGKVIINVTITNTATGETTTTTVEADLVDGKATTTITI
MLKIEVIEEEEEIEEVIELNASDEEIEELVKKKIEEKEKEIEEKGXYELVEKKIEKEKEELENKIVYTYKVTLTYKSKEDPNKILVVK
APIVEVIEEEREITVKEEDVEATLEKLLAEIKAKVEAKGYEILKVEVSKEFLSEENGVTTYLITITVTARDPKTGKIVKFLVNLVLS
MLEIEVEEEEEIEKTIIEVENATEEEIEKLFEEIEELIKKYEELGYELVEKKIEKEKEELPNEIVYTYKVTLTFKSKKDPNKILVVK
MKKIIVIEEEEEIEEVIIEEATEEEIEELFEKRIEELIKEIEEKYGYELVKKEVEEVERLDRIVYTRRVTLTFKSKKDPNLIYKVN
HMMIKVIEKEEEEIEVKEEDVEKTLKEKLEEIKKEVEDKGYEILEIKINKEFLKEENGVKTYLITIEVTAKDKETGEIVKFIYKIKLV
MMKIEIIEEEEEITVKEEDVEKTLLEKLEYIEEVKEKGYEILKIEIEKEFLKEENGVKTYKITITITAKDKKTGNIVIFKKIITLKVIP
MEEIKVIEEEEEIEVKESEVEKKLKELLERLKEKVKEGYEILKIEVEEEFLSEENGKKTYLITITITAKDKKTGKIVKYVHKVLLT
MEIKVTTTKTKTVTVKAYEGETKNLTVTLNGKTYNFTIDTAKKTVDLNTGKVYPLEKISENTLQATITYEKETAEGEIEVDKIIIN
MIEVADTINVTVTFKYEPKTKTIKTHPKTGKTITITFKPEELKPGDVITVTKIEIENGKKYIVNVTIIEP

B-series-data

MEEIEVIEKETEITVKESDVESTLKKILEELIAEVKAKGYEILEVKVTKFEFLSEENGKKTYLVTITITARDPKTGKLVKFVHKITLT
MKTKVTTTKTKEVTVEAYEGETKEVTVELDGKTYNFTIDTKNKTVDKNTGETYPLEKVSSENLLKAEITYEEETAEGEITVYKII
MPVKVTTTTTKTVTVMEYEGETKDVTVTVDGTTYNFTIDTAKKTVTDKNTGKTYPLEQISPDTLKATVTYETTTAPGEIKVTKIN
MEVEVTTVTKTVTVKAYEGETKNVTVTLDGKTYNFTIDTKAKTVTNLNTGKTYPLKQVSPNTLEATVTETEEIAEGKKKVYVI
MLEIEVIEEEEEIELEENATEEEEEIEKLFKEKIEALIKKYTEEEKGYELVDLKIEKEKEEKEDKIIYTYKVTLTFKSKEDPNKIYVVKL
MVKIEVIEEEEEIELEENASEEEEEIEELFEKKIEEKIKEIEEYGYELESKEIEKEKEEKEDKIIYTYKVTLTFKSKEDPNKILVVKL
MEKIEVIEEEEEIEITVKESEVEKKLKELLEFLKKVKDKGYEVLEVKIEKEFLSEENGVKTYKITITIKAKDPKTGKIVIFKLIVKLK
APTTVTTVTKTVTVSMYEGETKNVTVTLDGKTYTLTIDTKAKTVTDNNTGKTYPLKQVSPNTLEATITETEDTAPGTTKKVYVI
MTVTVTTVTKTVTVKAYEGETKNVTVTLDGKTYNFTIDTKNKTVDLNTGKTYPLTQVAPNLLKATVTYTEETAEGEKKVYN
METKVTTVTKTVTVNAYEGETKNVTVTLDGKTYKFKIDTAKKTVTNLNTGKTYPLTKISEDTLQATVTEEEVAEGEIKKYVIN
MKTKVTTVTKTVTVSMYKGEKKNVTVTLNGKTYNFTIDTKNKTVDLNTGETYPLEKVSSENTLKAVVTHEEETAPGEKTVYK
MKVEVETVTKTVTVSAYEGETKNVTVTLDGKTYNFTIDTAAKTVDLNTGETVALTQVSANTLQATVTHEEEVAPGKVKVYV
MPVKVTVVEKVTIEAYRGETRETVVELDGVTYRFLVDTAAGTVDLNTGETVPLERVAPDVLRAVVTREEEVAPGEVLVR
PEKIEVIEKEEEEITVKEKDKESTLKKILEELIEEVKSKGYEILKIEISEEFLEEKNGVKTYLITIKITAKNPETGKLVIFVHKIKLSIIK
MPKIEVIEKEREITVKESEVEETLEKILEEIKKEVEDKGYEILEIEIEKEFLSEENGVTYELITITIKARNPETGEIVIFKENIILKVIP
METKVTTTKTKTVTVMEYEGETKNVTVTLDGKTYNFKIDTKNKTVDLNTGKTYPLEKVSSEDYKATITYEEETAPGEITKYVIN
MKKIKVIEEEEEIEETIELEEASDEEIEKLFDEKIEKLEKEIEEKGYLEVSKEIEDEVEELEDKIVYTRKVTLYKSKKDPNLIYVVK
HMKVIEEEEEIEEIELEEEASEEEEEIKLFEETIEKKIKEIEEKLGYELEKLEIEKEEKEEKPNEIYTKKVTLTFKSKKDPNEILVVKLT
HMPIKIKTKEEITVKEEDVEKTLKEKLEELKEEVESKGYEILEIKIEEFLSEENGKKTYLITITITAKDKKTGEIVIFEHEITLTVIP
MEVKVTTVTKTVTVEAYEGETKKVTVTLNGKTYNFEIDTKNKTVKNLNTGEVLPLEKVSSENTLKATYTEKEETAEGEITVYVI
MMEIKVIEKEIEEVKVKDASEEEEEIKLFEKIEKLIKEIEEKEGYELVEKEIEEEVEKKENEIYTKKVTLTFRSKKDKNLILKVNY
MEEIEVIEKEEEEITVKEKDVEKTLKKLLEELKEVEDKGYEILKVEITKEFLKEENGKKTYLITIKVTAKNPETGKIVIFVHKITLTV
MEVEVETVEKTVTVNAYEGETKNVTVELDGKTYNLKIDTKNKTVDLNTGETVPLKQISENTLEAVITKEEEVAEGKKKIYKIT
MEVKVTTTKTKTVTIEAYEGETKNVTVTLDGKTYNFTVDTKKKTVDKNTGEVVPLTQVAPDLLQATVTYEEETAEGEKKVYN
GPVPVPLKKVDLEITVKVYNRDGIEVETESKTVVVKAGTTITLKITLTKDGPKEAKVEGVTKTVGDIKVETSLESKETNG
ATTKVTTHTKTVTVSAYEGETKNVTVTLNGKTYNFTIDTKNKTVDNNTGKTYPLKQIAPNTLEATVTYTTETAAGEIEVDNII
MEVKVTTTKTKTVTVSAYEGETKDVTVTLDGKTYEFTIDTKAKTVTDKNTGKTYPLKQVSPNTLEATVTETKTAEGELEVKY
APAAPPLPKVDLTITVTVKVKEGIEVKTESKTVNVPAGTTITLNLTKNDGEPKEAEVEGVKTVGDIKVKTELESJETNGN
MPVKVTTTKTKTVTVSMYEGETKNVTVTVDGKTYNFTIDTKNKTVDLNTGKTYPLKQVAPDVLEATVTEKKETAEGEIEVTV
MLKIKVIEEEEEIELEEDASEEEEEIKLFEERIEQEKIEEIEKKKGYLEKKEVKERKEEKENEIYTKKVTLTFKSKKDPNEKYVL
MKKIEVIEENIEKTIELEDATEEEIQKLFDEEINSLIKEITEEKGYLESKIEKDEKEELPDTIVYTRNVTLTFKSKKDPNKYVYN
ATVKVTTNTKTVTVMEYEGETKNLTVTLNGKTYNFTIDTKNKTVDLNTGETIPEKVSSEDTLKATVTKTTEVAPGELEVDNII
MTVITVEEEEEKITIELEENASEEEEEIKLFEKIEEKKIKEIEEKGYLEVEKKIEKEKELPNKIYTYKVTLTFKSKEDENKIKVNL
MEEIIVEEEEEISITIELEEASEEEEEIKLFEKIEEKKIKEIEEKGYLEKSKEIEDEEELEDKIVYTRKVTLYKSKKDKNLIKVVKL
HMEIKVIEEEEEIELEENASEEEEEIKLFEKIEEKKIKEIEEKGYLEVKKEEKEVEEKEDEIYTKKVTLVFKSKKDPNVIKVVK
AIEVAATYNVTVTVKYEPKELTIKITLPETGETVTLTFKPEELKPGDVITKTVTVEKNGKKYILNVTVIVLP
MLEIKVIEEEEEIEETIELTNATKEEIDALFDERINKKIEEITNEKGYELKELEIEDEVEELPNKIYTRKVTLTFKSKEDPNLIYKVNLT
MKKITVIEEEEEIELEENATEEEEEIKIEEELINKKIEEIEKKEGYELKSKEIEEKEELPDKIVYTYKVTLTFKSKKDENKIYKVNLT
MEVKVTTKEKTVTVSAYEGETKEVTVELDGKTYNFTIDTKAKTVTDNNTGKTYPLTKVSPDLEATVVEEETAEGEITVYKI
MKTKVTTVTKTVTVSAYEGETKNVTVTLDGKTYNFTIDTKAKTVTDKNTGKTYPLKKVSDNTLEATITEKETTAPGEITVYNI
MEKITVIEEDIEEEEEIELEENATPEEIEKLFKEKIEEKKIKEIEEKGYLEKEIEEKEVEELPNEIYTYNVKLTTFKSKKDPNLIYVYN
AVKITVIEKNIEKVIELEENASEEEEEIEELVEKEIEELKKEIEEKGYLEVSEEIEKEVEEEDKIIYTYKVTLTYKSKKDPNLLLKVNLT
GLVKPALEKVDLEITVNVYVNGEGIEVKTESKTVVVKAGTTIELKITLTKSGKAITATVEGVETKGDIKIKLSTETNGNT
MEVKVTTVTKEVTVSMYEGETKNVTVEVDGKTYEFTIDTKNKTVDKNTGETYPLKQVSENTLEATIVHEEEVAEGEKLVTK
MEVKVTTVTKTVTVDMEYEGEVKNVTVTVDGKTYNFEIDTKNKTVKDLNTGEVVPLEKVSSENTLKATVTYEEEVAPGEVKVT
MKKIKVIEEEEEIELEEEASEEEEEIKLFEERIEKKIKEITEKKGYLESKIEEVEEEDKIIYTKKVTLTFKSKKDENEILVVKLT
MKIKVTTVEKTVTVDAYEGETKELTVELDGKTYKFKIDTAKTVTDLNTGKVYPLKQVSPNTLEATVVEEEVAKGEIKKYVIN
PPIITVTKEKIEKEIELEENASKEEIEKLFKEEIEKKIKEIEEKGYLEKKEIEEKEEELPNKIVYTYKVTLTFKSKKDPNHILVVEL
HMKIEVEEEEEETIEVENATDEEIEKLFKEKIEEKKIKEIEEKGYLEKKEIEEKEEKENEIIYTKKVTLTFKSKKDPNKIKVYN
MEEIIVEEENIEETIELEENATEEEEEIKLFEKIEEKKIKEIEEKGYLEVSKEIEEKEEKENEIIYTKKVTLTFKSKKDPNKIKVYN
MEVKVTTITKTVTVMEYEGETKNVTVTLNGKTYNFTIDTKNKTVTNKNNTGETVPLEKVSSEDYKATVTEEEETAEGEITKYVIN
MEVKVTTVTKTVTVEAYEGETKNLTVTVNGKTYNFTIDTKNKTVDLNTGKTYPLEQVSPDTLKATITEEETVAEGEILVTKIT
MPVKVTTVTKTVTVSAYEGETKNVTVTLNGKTYNFTIDTAKKTVDLNTGKTYPLTQVSPDTLQATVTYSEKTAEGEIQNYV

B-series-data

MKTKVTTVTKTVTIEAYEGEKKEVTVTLDGKTYKFLVDTAAKTVTDLNTGETYPLTQVAPNTLQAVITEEEVAPGEIKRYVIN
MVKIKVIEEDIEETIELENASEEEEEELFEKRIEELKKKIEEELGYELVKVEKKEKVEEKPDITIVYTKVTLTYKSKKDPNLIYVVM
HMMIEVEEENEEIEIELENASKEEIEKLFEKIEAKIKEITEKEGYELVEKKIEYEEKKENEIYTKNVTLTFKSKKDKNLIKVLN
MEEIEVIEKEEEEITVKEEDVEKTLKELIEKLKKEVKEKGYEILEIEISKEFLKEENGVKTYKITIKITAKDKKTGKIVIFKHNVLLKVI
MKEIKVIEEEEEIEVENASEEEEEIEKLFEKIEELIKKYEEYGYELVKKEIEEEKEELPNEIYTKKVTLTFKSKKDKENEILVVKY
MLVITVIEENIEETIEVENASEEEEEIESLFDERINELIKKITEELGYELVDIKIEDEKEELPKDIVYTRKVTLTFKSKKDPNLIKVN
MEVEVTTETKTVTVEAYEGETKNLTVTLDGKTYNFTIDTAKKTVDNNTGKTYPLTQVSPDTLKATITYTEDVAEGKKKVYVI
METKVTVTVTVEAYEGETKNVTVTLDGKTYNFTIDTKNKTVDNNTGKTYPLEQISENTLKATVITYTEETAEGEKKVYVI
MKKIEVEKEDEEEVIEVEEASEEEEEIALFEKIEAKIKEIEEKEGYELKKKEIEKEKKEEEDKIITYYKVTLTFKSKKDKNLIKVLN
MEKIEVEEEEEIEETIEVENATEEEEEIEKLVEETIEAKIKEIEEKKGYELVEKEVEKKVEKLNEIVYTYNVTLTFKSKKDPNKIYVLK
METKVTVEKTVTVSAYEGETKDVTVTLNGKTYNFTIDTKKKTVDKNTGKTYPLKKVSENTYQAVVTEEEETAEGEITVYKI
MKEIIVIEEEEEIEVEEASEEEEEIEKLFEERIEKLIKYYEEKGYELKEKEIEEEKEEKENEIYTRKVTLTFKSKKDPNLIYKVY
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HMHIEVEEREIEEVIENATDEEIEKLVEKIEELIEKIEEEEGYELKKIEIEKEVEKLPNKIITYYKVTLTFKSKEDENKILVNL
MPVKVTTVTKTVTVSAYEGETKNVTVTNGKTYNFTIDTKNKTVDLNTGKTYPLTQVSSNTYQATIVEEEEEETAPGEKTVYV
MEEIEIEKEKEIEVKEEEVEEKLEEIEKELLKEVEEKGYEILEIKIEEEFISEEDGKETYLITITITARNKETGKIVIFKYNILLTIYK
MMKIKVIEKEEEEITVKEKDVEKTLKEKIEKIKKEVEDKGYEILEIKIEKEFIKEENGKKTYKITITVTAKDPKTGEIVHKYIINLTVIK
MEVEVTTVEKTVTVDAYEGETKDVTVTLDGKTYTFTIDTAAKTVDKNTGETVALTQVSPNTLQATVITYEEETAEGKIKKYVI
MEVKVTTVTKTVTVEAYEGETKNVTVTLDGKTYNFTIDTKNKTVDNNTGKTVPLTQVSPDTLKATVITYEETTAEGEKTVYV
MPIKVTTVTKTVTVSAYEGETKELTVTLDGKTFNFTIDTKNKTVDKNTGKVYPLEQVSPNTLKATVITYEEETAPGEIKKYVIN
EEEEIEVIEEEEEIEVKEEDVEKTLKELLEKLKKEVKDKGYEILKIEIEKEFLSEENGVKTYKITITITAKDPKTGKIVIFKHTILLKVY
MEEIEVIEKEEEEITVKEEDVEKTLKLEEKKEVEEKGYEILEVKIEEEEFLEEKDGKKTYKITITVTAKNKETGKIVHKYNITLTV
MPVKVTTNTKTVTVSMYEGETKTVTVTNGKTYTFTIDTAAKTVDNNTGKTVPLEQVSPTTLRAVVTEETETAEGEIEVDTI
MEEIEIEEEEEIEITVKEEDVEKTLKEILEKLKKEVKEKGYEILKIEIKKEFLKEENGKKTYKITITITAKDKKTGKIVIFKKIILTIIP
MVTEVIEEREERTVEALPEDVPALIAAELERVEAALPDAPTEVEVELRELDPGTIVLTIRVTRYPDGTVVIRTRVLRRIRVEVP
MEKIEVEEEEEIEETIELENASEEEEEIKKLVEEKIQELIDKYTKEKGYELVSKEIEEEKEEEDEIITYYKVTLTFKSKKDPNKILVVK
MEEIEVIEEEEEIEVEKKEEDVEATLAAKKEELRKEVEEKGYEILEEEVEEEFLSEEDGVKTYLITITITAKDKETGKIVIFKRKITLS
MEEIEVIEEEEEIEETIELEDATEEEEIEKLFEKRIEKKIKEITEEKGYLEVEKKIEYEEEELEDKIVYTKKVTLTFKSKEDPNKILVNL
MPEIEVIEEEEEIEVIEVEDASEEEEEIKALFDERVEKLKKKYTEEKGYLEVSEEEEEVEEKPDIVYTLKVTLTFRSKEDPNKILV
METKVTVTVTISAYEGETKEVTVTVNGKTYKFKVDTAAKTVTDLNTGETVPLKQVAPDVLEATVVHEEETAPGEITRTVI
MKKIVVIEEDIEIEVEEASEEEEEELFEKIINEKIKEIEEKKGYELVKKEIEEEKEEKENEIYTKKVTLTYKSKKDPNVKYVNL
MEEIEVIEEEEEIEITVKEEDVEKTLKKEIKIEKEVEKKGYKILEIKIEKEFLKEENGVKTYKITITITAKDPKTGKIVHKYIITLKVIP
MPIKTTTVTKTVTVSMYEGETKNVTVTVNGKTYTFTIDTKNKTVDNNTGKTYALEQVSANTLKATITHEETTAPGEILVTNIT
PKKIIVIEEEEEIEIELENASEEEEEIEKLFEKIEELEKEIEEKKGYTLVEKEIEKEKEEENKIITYYKVTLTYKSKKNPNLILKVNLT
MMEIKVIEKEKEITVKEEDVEKELEKILEEIKKEVEEKGYEILKIEIKKEFLKEENGKKTYKITITVTAKNKTGEIVIFKYNITLTVI
MLEIEVEEEEEIEIELENASEEEEEIEKLFEKIEKKIKEIEEKKGYELVEKKIEESKEELPKDIVYTKKVTLTFKSKKDKNLIKLVKL
ATTKTTTVTKTVTVEAYEGETKTVTVTVNGKTYTFTIDTAAKTVDNNTGKTVPLTQVSPDLLRATITETTETAAGEKLVNIV
MKEIKVIEENIEEVEVEDASEEEEEIEKLFEKIEKIEKIEKEKGYELESIEREYSKEELPKDIVYTLKVTLTFKSKKDPNLKYVNL
MEVKTTTNTKTVTVEAYEGETKNVTVTNGKTYNFTIDTAAKTVDLNTGKTYPLTQTSPTDLSATITETTETAAGEKTVDTIN
MEVKVTTKTKTVTVEAYEGETKNVTVTLDGKTYNFEIDTKNKTVDKNTGKTYPLKKISEDLEATVITYEEEAEGEKEVYV
PEEIEVIEKEEEEITVKEEDVEKTLLEELKRLEEEVKAKGYEIEKVEISKEFLSEENGKKTYLITIKITARDPKTGKTVIFEKNITLT
METKVTVTVTVSAYEGETKNLTVTVNGKTYNFTIDTKNKTVDKNTGKTYPLKKVSENTLEATVITYEEETAAGEILVTKI
HMKITVVEEIEKEIELENASEEEEEIEKLFEKIEELIKEIEEKKGYELEKIEEEEEIEEKENKIITYYTKKVTLTFKSKKDPNLKYVNY
MEVKVTTVTKTVTVSMYEGETKNVTVTNGKTYNFTIDTKNKTVDLNTGEVPLTQVSANTLQATVITYEEETAAGEITVYV
METKVTVTVTVEAYEGETKNVTVTNGKTYNFTIDTAKKTVDLNTGEVPLEQVSPDTLKATVTKETETAPGEIKKDV
MMKVKEIEKEKEITVKEEDKEKTLKEIEEIKKEVEEKGYEILKIEEKEEFLEEKDGVKTYLITITVTAKDPKTGEIVIFKYKITLV
METKVTVTVTVNAYEGETKNVTVTVNGKTYNFTIDTKNKTVDKNTGKTYPLTKVSDNTYKATITDTEKTAEGEELVTKI
APVVEVIEEEEEIEITVKEEDVEATLEERLAEIKAKVEAEGYEILDIEVEEEFLSEENGVKTYLITITVTAKDPKTGKTVIYRHNITLS
MKKIEIEEEDIEEIELENASKEEIEKLFKKKIDEKIKEIEEKKGYELKEIEEEEEKKPNEIITYYKVTLTFKSKKDKENKILKVN
MLKITVIEEKEITIEKENASEEEEEIEKEFEEIEKKIKEIEEKKGYELVSKEIEKEKEEKENEIIITYYKVTLTFKSKKDKNLIYKLNLT
MEIEVETVEKTVTVAYEGETKEVTVTLDGKTYKLKIDTKKKTVDLNTGKTYPLEKVSENLLKATIVYEEEAEGKIKKYVITY
METKVTTKKTVTVSAYGETKNVTVTLDGKTYNFTIDTAKKTVDLNTGKTYPLTQVSENTLQAVVTEEEETAAGEITKYNI
SIKIKIEKDIEEVIENASEEEEEIEKLFEERVEKLIKIEEKKGYELESIEKEKEKKELPNEIVYTYKVTLTFKSKKDPNEILKVN

B-series-data

MPIKVTTKTKTVTVNAYEGETKNLTVTLDGKTYNFTIDTAKKTVTDKNTGKTYPLTQVSPNTLQATVTYEREVAPGEIEIDVIN
MVKEIIHNEETRTVEALPEDIPAIIIEAFLKEVEDSLPDLPTKVEIKLETLPDGTIVLTVTVTEHPDGTVTITTRTLIIIPVKVPL
MTVKVTTNTKTVTVSAYEGETKNVTVTLNGKTYNFLIDTKNKTVDLNTGEVPLEKISENTYKATVTHETETAPGEIEKDVIN
MVKIEVEEEEEIEETIELEDASEEEEI EALFDEKVEK LIEEYEKEKGYELVSKEREKEVEEKEEDTIVYTYKVKLTFKSKKDPNKILVN
MKEIIVEEEEEIEETIELENATEEEEEIKLFEELKINELIKKYTEEKGYELKSKEIEEKKEEKEDEIITYKNVTLTFKSKEDENKILKVN
MPIKVTTNEKTVTVSMYEGETKNVTVTLNGKTYNFLIDTKKKTVDLNTGKTYPLVQVSPNTLRAVITEEKEVAEGEIEVDKIT
MEEIEVIEEDIEEVI ELENATEEEEEI EALFEARIEALIKKYEEEKGYELVSKIEEEEEELPDKIVYTKKVTLTFKSKKDPNKILVNV
MLEVAATYEVTVTFKYKPETLTIEITLPETGETVTLTFAPEELKPGSVITKTVEIEKDGLYVLKVTVINVL
AIKVAKTINVTVTYKPETLTINITVPETGETITLTFKPEELKPGDVITVTKEI IKDGKLYKVNITIKVLP
MEEIEVIEKEREITVKESEVEKKLKEIEELKKEVEEKGYEILEIKIEEEFLSEENGVKTYLITITIKAKNKKTGKIVYKLVKLVKVI
MEKIEIIERNIEETIELENASKEEIEKLFEERIEKLIKIEEKEGYELVDIEIEEEVEEEDPKIYKKNVTLTFKSKKDKNKILVNYTL
METKVTTVTKTVTVEAYEGETKNVTVTVDGKTYNFTIDTKAKTVTDLNTGKTYPLTQVSPD TLKATITEEETVAPGEIKKTVIN
MKTTVTNTKTVTVEAYEGETKNVTVTLNGKTYNFLIDTKNKTVDLNTGETYPLKKVSENTLQATVVKETETAPGEKTVDV
METKVTTNTKTVTIDAYEGETKNVTVTLNGKTYNFTVDTKNKTVDNNTGEVYPLEKVSEDYKATIVEETETAEGEIQKDV
MLEIEVEEEEEIEEIEVEDATEEEEEIEKLFEKIEK LKKEIEEEKGYELKEIEIEKEKEKLPNKIITYKVTLTYKSKKDPNKIKIVNLT
APKITVIEEEEEIEEVENASEEEEEIEKLFEKIEEIKIEITEEKG YELVDIKEEYKKEELPDKIVYTKKVTLTFKSKKDPNLIYVNV
MEEIEVIEKEREITVKEEDVEKTLKEIEEIEKEVKEKGYEILKIEISKEFLSEENGKKT YLITITVTAKDPKTGKIVHKYNIKLTVIP
MEEIEVIREEREIEVP EEEVEKKLEELLEIKAKVEAQGYEILEVEIEEEFLSEENGKKT YLIKITVTARDPKTGKLVHELLVKLT
APVKVTTKTKTVTVDAYEGETKNVTVTLDGKTYNFTIDTAAKTVTNLNTGETVPLTQVSP T TLEATVTTTEKTAENELLVRKIN
MEVKTTTVTKTVTV EAYEGETKNVTVTLNGKTYNLLIDTKNKTVDLNTGKTYPLEKVSEDVYKAVITYETETAPGEKLV DVI
MPVKVTTKTKKEVTVDAYEGEKKEVTVTLDGKEYKFLIDTKAKTVKDLNTGEVYPLEQVSPNTLKAVVEYKEETAPGEILVYK
PEVIEVIEEEEKEITVKKEEVKEELEK LKKEIKKVEEKGYEILEIEIEEEFLSYENG VETKLITIKITAKDPKTGKIVHVLKIKLSIK
MEIEVTTVTKTVTVEAYEGETKNLTVTLDGKTYNFKIDTKAKTVTDLNTGKTYPLKQIAPD TLQATITYEEEAEGKKKVYNI
MEVKVTTNTKTVTIDAYAGEKKEVTVTLNGKTYKFLVD TAAKTVTNLNTGETVPLEQVSPNTLKAVVTEKTETAPGEIQVD
MPEVKVIEEEEEITVKEEDVEATLEEIKARLLAKVEAQGYEILRVEVEEEFLSEENG VKTYLITITITARDPETGELVRHVLRLT
METKVTTVEKTVTV EAYEGETKNVTVTLNGKTYNFTIDTKNKTVDKNTGKTYPLEQVSEN TYKATIVEEEEEETAPGEKTVYK
MLKIIVEEEEEIEETIELENASEEEEEIEKLFEKKIEEKI EIEEEKGYELVEIEKEKEKEEKPNEIVYTYKVTLTFKSKKDPNKILKVN
MEKIEVIEEEEEITVKESDVEKKLKEIEEKFKEEVEKKGYEILEIKIEKEFLKEENGKKT YLITITIKAKDKKTGKIVFKNIKLTVIK
MEEIEVIEEEETITVKESDVAATLAAIKARLEAEVKAKGYEILKVETTEEFLSEEDGVET YLITITITAKDPKTGKT VIFVKKITLSV
MEEIEVIEKEESITVKEEDVEKTLKEIEEKLKKEVEDKGYEILEIKIEKEFLSEENG VKTYKITITITARDKKTGKIVKFVHKITLKIIP
MMEVKVIEEEEEITVKEEDVEKTLKKLEELKKEVEDKGYEILEVKVEKEFLSEENGKKT YLITITITAKDKETGEIVKFVHKITL
MEEIEVFRKKREITVKESEVEATLKKILEELKAEVEAKGYEILKVEVKEEFLSEENGKKT YLITITITARDPKTGKIVVHVYEITLT
MEEVEVIEERREVTVP EAEVEATLAILAEARAKVEAEGYEILEVRVEEEFLSEEDGV TTYLVTITITARDPETGKRVVYRLEV
MKKIKVIEEEEEIEEVENASKEEIEKLFEERIEEKI EIEEEKGYELKEIEIEEEVEKL PDKIVYTKKVTLTFKSKKDENEILVNV
MMKIKIEEEEEISVKEEDVEKTL EELLKEYKEKVESKGYKIEKIEVEKEFLSEENG VKTYLITITITAITDPKTGEKVIFKKKVKLKI
MEEIEVIETET EITVKESDVKATLEKIEELKKEVEEKGYEILEIKISKEFLKEENGKKT YLITIEITAKDKKTGKIVKFVHKITLTIIP
AVVKVVEEHEEEEEVEALPEDIPALIAARRAEVEAALPPYPT EVEERLETRPDGTIVLTITV TTRYPDGTVVIRTRTLVIRPVEVF
MKKIKVEEENIEETIEVENASEEEEEIEKLFEERIEKKI EIEEKEGYELVDKKIEKEKEEKEN EIIYTYKVTLTYKSKKDENLIKVVN
MEEIEVIEKEEEEITVKESDVEKTL EEEKKLIEEVKAKGYEILKVEISKEFLSEENGAKTYKV TITITAKDPETGKIVHKHIITLVIF
MEEIEVIEEEEEIEVKEEDVEKTL EEEKLEIEEVKEKGYEILEIK EEEKEFLKEENGKKT YKITITITAKDKKTGKIVFKKIIKLT VYF
AAAAATYTATTTLN VSIKPGETKTVDLTVTWNDGT KEDYTVTLKVKIENGKAIIDITITN KTTGKTIKKTVTADIKNNKAKTTLTIT
MEEVEVIEEEEEIEVKESEKEKKLE EIKEEALAKVEAKGYEVL DVEIEEEFLSEENG VETYLITITITARDPETGKIVKHVLKIKLS

B-series-data

AF2_plddt	ESMFold_plddt	1nm/ns SMD Force (pN)	0.1nm/ns SMD Force (pN)
94.21226804	92.51443299	1745.794333	1373.034693
94.59731959	91.5871134	1952.688	1390.512833
92.49319588	93.28556701	1960.336	1206.681067
92.75066667	92.88622222	1788.432	1151.598933
94.29917526	92.22175258	2050.976	1168.054933
93.67164948	92.09381443	1875.456	1150.124267
94.34886598	91.95659794	1764.896	1151.082667
92.77547368	91.31610526	1818.432	1409.075507
92.77917526	90.95340206	1736.768	1183.6576
93.20453608	90.36752577	1856.976	1158.166933
95.29041237	93.43783505	1816.192	1162.205867
93.24350515	91.4514433	1774.144	1160.686933
92.12431579	91.92915789	1729.696	1210.829867
93.05347368	92.93536842	1899.408	1170.449067
91.08122222	92.192	1763.696	1162.528533
91.93092784	91.61381443	1724.272	1152.2352
93.11597938	91.29113402	1869.952	1147.562133
92.16294737	91.72905263	1804.352	1146.117333
93.50642105	92.74336842	1774.848	1138.996267
91.10322222	92.16277778	1865.472	1125.907733
94.15680412	93.01917526	1753.584	1120.4784
93.07164948	92.42175258	1782.048	1119.793067
92.86766667	92.82577778	1748.88	1094.009067
92.51288889	90.76944444	2000.992	1091.846933
93.95412371	91.81824742	1766.144	1088.415467
91.972	91.05189474	1767.44	1086.034133
93.89268041	93.03329897	1763.872	1082.906667
92.15577778	92.99477778	1891.504	1080.089067
95.0585567	93.16360825	1818.544	1076.958933
91.551	92.51455556	1724.976	1066.724267
95.11659794	93.22340206	1738.912	1054.768
91.94391753	91.96391753	1737.376	1050.129067
94.38690722	93.17	1885.52	1037.341867
91.94588889	92.48055556	1824.272	1025.926933
95.08195876	92.86484536	1753.584	1024.7792
93.13566667	92.28955556	1775.296	1019.7552
92.36022222	92.72422222	1808.752	1018.382933
91.45948454	92.54505155	1890.16	1005.3328
91.22588889	92.49477778	1774.384	971.4192
93.66030928	92.34835052	1819.36	955.2912
90.96905263	91.27010526	1723.808	
94.76216495	90.91237113	1723.088	
90.0593578	90.09908257	1721.824	
93.63536082	92.40484536	1721.776	
91.599	92.295	1721.104	
92.31546392	92.43247423	1720.56	
94.72731959	90.44876289	1720.016	
91.27111111	92.24655556	1718.16	
94.12022222	92.59344444	1717.408	
91.51644444	91.316	1715.2	
92.11263158	91.88557895	1714.816	
93.05388889	90.24111111	1714.4	

B-series-data

92.72555556	92.71988889	1712.832
90.90284211	91.47221053	1712.608
90.53694737	92.66705263	1710.736
92.58389474	90.88010526	1710.096
92.30773196	90.04226804	1709.584
92.42257732	92.35824742	1708.624
92.71411111	92.62922222	1707.76
91.67463158	90.95526316	1707.728
91.77252632	90.20894737	1707.472
91.83115789	91.31157895	1707.408
91.92378947	91.87536842	1706.704
93.48747368	92.16	1706.56
94.40452632	90.69484211	1706.112
92.55177778	92.602	1705.888
92.79544444	92.32588889	1705.664
92.556	92.26684211	1705.248
94.51649485	91.27742268	1705.008
92.7156701	91.87360825	1702.848
92.73666667	93.39822222	1701.552
92.35021053	91.58705263	1701.168
92.49608247	92.16742268	1701.12
92.57277778	92.41277778	1700.096
91.47884211	90.58484211	1607.924693
91.86926316	91.76926316	1599.978273
90.85478261	91.21226087	1595.740847
92.65736842	91.90905263	1593.83406
91.73	90.41315789	1581.82894
90.65486957	92.1966087	1573.089593
94.60031579	91.08789474	1565.930013
94.22865979	90.72515464	1559.072553
94.29865979	93.00371134	1550.798007
93.52378947	92.81421053	1541.381933
90.37680412	92.48762887	1538.708227
91.03721649	92.73082474	1536.335533
95.31463918	93.38309278	1534.378393
91.47583333	90.98361111	1529.09572
93.90546392	91.86793814	1523.336627
92.95268041	91.69546392	1521.03642
91.80905263	91.69168421	1517.672707
92.81589474	90.46294737	1512.657847
94.66268041	92.73773196	1512.01266
93.58340206	92.67721649	1507.154947
90.33486957	90.41704348	1498.814
92.03389474	91.83147368	1493.316633
92.60968421	92.88105263	1490.382307
94.33195876	92.00020619	1486.221793
93.08347368	91.83115789	1481.086307
91.15938144	92.47835052	1475.32832
95.13340206	92.26082474	1472.03488
93.15639175	93.04969072	1470.097107
90.72221053	91.16368421	1462.53968
92.50010526	91.29610526	1461.005287
91.34852632	92.12484211	1459.567173

B-series-data

93.668	92.10715789	1455.60586
92.97865979	90.0328866	1455.329747
93.99412371	92.39175258	1454.62812
92.66588889	93.42388889	1452.6162
94.30010309	92.58175258	1445.25244
93.29309278	93.19309278	1443.673227
93.01168421	92.51947368	1441.576647
91.70915789	90.23673684	1439.93712
92.04092784	91.32010309	1438.12274
94.45824742	92.85896907	1437.912473
91.92	91.55378947	1436.386933
93.71989691	90.87639175	1435.618907
92.14978947	90.43884211	1431.785967
95.41268041	93.52175258	1431.26694
90.05778947	91.082	1428.719393
91.12233333	91.84855556	1428.48478
91.91244444	91.43833333	1426.836953
91.75789474	91.32315789	1425.73084
92.03357895	91.21063158	1424.188147
91.76315789	92.41115789	1423.509207
92.27533333	93.56655556	1421.736327
92.27411111	92.809	1419.583307
91.11884211	92.03978947	1419.38798
92.13322222	93.15188889	1417.14366
91.48651163	90.1105814	1414.956887
93.44237113	92.70298969	1413.96642
92.919	93.00666667	1413.224953
94.51175258	92.18298969	1410.923087
92.25762887	93.4014433	1409.705753
92.27042105	91.98010526	1407.639053
94.33226804	91.03237113	1404.971433
91.55855556	91.88411111	1404.486713
92.93705263	92.37	1403.889667
93.61762887	90.52371134	1402.924653
90.77311111	92.42733333	1400.319007
94.0971134	92.18226804	1397.602693
91.65884211	90.63768421	1397.45108
93.7885567	92.56824742	1396.955293
92.05515789	91.65315789	1394.913493
91.15284211	91.82378947	1390.434813
92.74066667	93.07166667	1390.15538
91.55936842	91.534	1387.93264
94.92587629	92.77917526	1383.54858
91.97263158	91.39210526	1382.95264
91.99957895	90.84221053	1379.714533
92.10133333	91.53188889	1379.344907
91.86842105	90.25673684	1375.52414
91.80433333	91.762	1373.111607
93.19134021	92.05608247	1372.506813
93.87154639	92.26865979	1371.986127
92.04821053	91.96842105	1370.455053
92.82631579	90.87031579	1369.465693
93.97298969	93.44257732	1366.344893

B-series-data

92.80526316	92.44484211	1362.52136
90.4427907	91.7094186	1362.051027
93.79694737	93.32357895	1360.4696
92.91134021	93.31958763	1359.693273
93.62309278	91.89680412	1356.789933
91.84105263	91.10305263	1355.313087
94.43195876	92.90195876	1352.637167
90.31083333	90.10416667	1350.39008
90.16541667	91.30694444	1349.847813
92.78322222	91.50488889	1348.41634
94.3857732	91.91340206	1343.402587
92.28842105	91.36284211	1338.528273
92.01884211	90.31578947	1338.08616
92.21926316	90.17621053	1337.091267
92.45216495	90.92494845	1336.13566
94.77216495	92.26762887	1335.891087
92.59122222	91.35433333	1333.15596
93.96766667	91.04333333	1333.128847
92.51126316	91.88147368	1329.922833
92.42242105	91.60905263	1329.310293
90.70421053	91.39652632	1325.910613
91.16066667	91.58855556	1321.177953
92.81378947	92.63884211	1314.010073
92.26494737	91.56010526	1311.08128
92.044	91.96511111	1309.440093
92.35926316	91.43694737	1304.733993
92.75041237	92.2642268	1304.52428
91.90255556	93.08988889	1302.21688
92.54122222	92.74822222	1292.123527
91.40777778	93.03766667	1286.326253
90.87966667	93.121	1282.978587
91.31877778	90.73877778	1280.849913
94.40411111	92.47877778	1275.287807
94.51989691	92.24556701	1274.364293
92.79366667	91.85766667	1270.558467
92.07744444	93.57866667	1268.0242
90.16872093	90.61034884	1266.910893
93.52412371	90.71268041	1263.614687
92.31755556	93.03222222	1257.78532
92.20688889	92.47111111	1255.042447
92.28100917	90.88568807	1183.18492
90.85044444	91.15811111	1182.13746

B-series-data

RMSD of Annealing simulation (nm)	RMSD TOP8	Final selection (0.1ns/ns SMD criteria)
0.2328106	??	??
0.239776	??	??
0.2923619	??	
0.2945912	??	
0.2974807	??	
0.2982198	??	
0.314256	??	
0.3559983	??	??
0.3647988		
0.3778183		
0.3810541		
0.3867578		
0.3998893		
0.4150144		
0.4864235		
0.571687		

C-series-data

full_name (series_structure_sequence)	short_name
C_328_92	C92
C_892_328	C328
C_892_352	C352
C_892_179	C179
C_892_232	C232
C_670_131	C131
C_892_335	C335
C_670_349	C349
C_1924_263	C263
C_892_290	C290
C_892_244	C244
C_892_42	C42
C_892_74	C74
C_670_72	C72
C_1924_117	C117
C_1924_109	C109
C_1924_339	C339
C_892_200	C200
C_892_174	C174
C_670_61	C61
C_892_3	C3
C_892_152	C152
C_892_301	C301
C_670_180	C180
C_1562_253	C253
C_1924_187	C187
C_892_141	C141
C_670_49	C49
C_1562_331	C331
C_1562_200	C200
C_670_15	C15
C_892_225	C225
C_1924_270	C270
C_892_390	C390
C_670_284	C284
C_1562_33	C33
C_670_115	C115
C_892_50	C50
C_1562_274	C274
C_1111_301	C301
C_892_299	C299
C_892_383	C383
C_670_73	C73
C_670_37	C37
C_892_40	C40
C_1562_6	C6
C_1924_349	C349
C_1236_187	C187
C_892_79	C79
C_1924_123	C123
C_670_290	C290
C_670_366	C366

C-series-data

C_1924_186	C186
C_1676_48	C48
C_670_139	C139
C_670_365	C365
C_670_86	C86
C_931_148	C148
C_670_221	C221
C_892_237	C237
C_1562_206	C206
C_670_331	C331
C_1111_311	C311
C_670_207	C207
C_1562_120	C120
C_670_190	C190
C_1236_330	C330
C_1562_288	C288
C_328_155	C155
C_670_128	C128
C_1924_85	C85
C_583_339	C339
C_1562_92	C92
C_670_275	C275
C_1562_251	C251
C_892_291	C291
C_670_70	C70
C_1562_135	C135
C_1562_11	C11
C_1562_123	C123
C_1562_291	C291
C_1924_131	C131
C_1924_341	C341
C_670_313	C313
C_1562_228	C228
C_1562_240	C240
C_670_371	C371
C_670_87	C87
C_1236_229	C229
C_931_119	C119
C_328_224	C224
C_670_248	C248
C_1676_232	C232
C_670_25	C25
C_1236_257	C257
C_175_132	C132
C_892_11	C11
C_670_253	C253
C_1562_257	C257
C_1111_41	C41
C_670_119	C119
C_670_210	C210
C_328_227	C227
C_670_358	C358
C_1111_369	C369

C-series-data

C_670_197	C197
C_670_383	C383
C_670_276	C276
C_670_309	C309
C_1111_398	C398
C_670_348	C348
C_1562_85	C85
C_1562_32	C32
C_1236_381	C381
C_670_321	C321
C_1111_399	C399
C_1236_228	C228
C_1111_227	C227
C_892_131	C131
C_670_298	C298
C_583_280	C280
C_892_295	C295
C_670_242	C242
C_1562_252	C252
C_1236_37	C37
C_670_112	C112
C_892_384	C384
C_670_327	C327
C_670_268	C268
C_1562_218	C218
C_670_240	C240
C_670_251	C251
C_1924_293	C293
C_328_32	C32
C_670_341	C341
C_1562_322	C322
C_670_192	C192
C_1562_47	C47
C_1562_329	C329
C_1562_279	C279
C_1924_271	C271
C_1111_362	C362
C_892_262	C262
C_670_376	C376
C_1562_147	C147
C_1562_333	C333
C_892_145	C145
C_1562_204	C204
C_670_52	C52
C_670_394	C394
C_670_392	C392
C_670_91	C91
C_670_244	C244
C_328_327	C327
C_931_288	C288
C_670_291	C291
C_1562_373	C373
C_670_332	C332

C-series-data

C_1111_17	C17
C_1562_281	C281
C_1562_41	C41
C_670_278	C278
C_1562_139	C139
C_1562_53	C53
C_670_109	C109
C_1562_100	C100
C_670_19	C19
C_1562_162	C162
C_1236_45	C45
C_328_1	C1
C_1562_299	C299
C_1161_127	C127
C_1236_305	C305
C_1236_396	C396
C_670_5	C5
C_27_118	C118
C_175_121	C121
C_892_222	C222
C_670_367	C367
C_1236_139	C139
C_931_260	C260
C_670_107	C107
C_670_204	C204
C_670_400	C400
C_1841_323	C323
C_1236_233	C233
C_328_270	C270
C_670_255	C255
C_670_21	C21
C_892_250	C250
C_1562_136	C136
C_670_46	C46
C_1236_90	C90
C_1562_194	C194
C_1236_103	C103
C_931_40	C40
C_1236_182	C182
C_670_124	C124
C_670_146	C146
C_328_43	C43

C-series-data

sequence

AKGTVTGTININYTVTWTKDGKKITLNFVTVTETLKEGDAAKEKETTEKTETEVTDSGDKYKVTINVKTKSKAELKDGLV
MKVIEEEKTTINFNITFKADLPEGQTATVKVQLIADGKLEKEETITLKNGETKTVKFSTEAKEKIEVKIEVTVPGQEPGTLTLTY
MTVIEENKTTVNFNITFKAELPEGATAKVTVKLIADGKLIDEKTITLKNGETKTVKFETDEKETITVEITVEVPGKKPGKLTLYN
ETVIKTETTTVNFNITFKADLPPGQVATVTVKLIKDGKLVKEETITLKNGETKTVNFTTNASDITIEVITVKVPGKEPGTIKLTYN
MIVKEEKKTTVNFNITFKADLPEGATATVTVKLIADGELVDEKTVTLKNGETKTVNFSTDAKPTIKVEIEVKVPGKEPGTLTLTY
MKVTITRTITAEINVTVTLPDGTEIEYKETVTVTKENASEEEVEKELKKKVEEKKKELLEKIKKETGAEELEIEEEVEELPEKVK
MKEIVEEKTTVNFNITFKADLPPGATATVTVKLIADGKLVDEKTVTLKNGETKTVNFSTEAKKTIKVEIEVKVEGQEPGTLTLTY
MKVTKTITKTAKIEIEVTLPDGTVKKYEEEVTVTGTNKTTEEVEKELEEKVKKKKEELLEKIKKETGAEKLEIEEEVEEKPEKTT
TIVIEEKTTIVNLTVEFVSEDGKTKIVYTQTYTSTSGKPLKVGDLKITVLENGKVVVEEVLPGKEIPLSDKSEEEVLKEEIEKTLK
KTVIKNDNTTVNFNITFRADLPPGQTATVTVELIADGKVEKTETLTLRNGETKTVNFTTKAKDTIEVKITVEVPGQPPGTITLT
EIVNVEVKTTVNFNITFKADLPEGQTATVTVELIKNGELVEKETLTLKNGETKTVKFETEADVIEVKITVKVPGQPDGTLKLT
EIVIEEEKTTVNFNITFKADLPEGQTATVTVKLIADGKLVKEETLTLKNGETKTVNFSIEEKETIKVNITVTVPGQEPGTITLT
KIVNKTETTTVNFNITFKADLPEGQTATVTVELIKDGKLVDKKTITLKNGETKTVNFSTEEKSKTIEVKITVKVPGQPDGTLTLTY
MKVTVTRTLTVEINVTVTLPDGTKKKYKETITVTGVNKSDEEIEKEAEKKVKEKIKELLEKIKKETGAEKLEIKKEVKKLPEKTE
TIVKKIETKIVNVNYTFTSKDGKKKIVYKQTYTATSGKALKVGDKITVYENGKVVKEETIPGKAIPLSDKSVEEVLKEELEKLE
TITNVEKTTIVNLTFTSEDGEEKIYKQTYTATSGKPLKVGDLKKTVLKNGEVVKEEVIPGEEIPLSDLPVEEVLKKKIEETIE
TIVNVTETTIVNLTFTSKDGKTKIVYKQTYTATSGKAIKVGDLKTVYVDGKEVKKETIPGKEVPLSDKSEKEVLEELIKEDL
MKINKTETTTVNFNITFKADLPEGKTATVTVELIADGKLVDTKTITLKNGETKTVNFSTEEKPTIKLNITVNVEGEEPGTITLT
MIVNETEETTIVNFNITFKADLPEGATATVTVKLIKDGELVDEKTITLKNGETKTVNFSTEEAETIEVKITVKVEGQPDGTITLT
MKVTVIRTKEAINTTVILPNGEVKEYKEKITVTKVNASKEEVEKELKEKVEKKKKELLEKIKKETGAEKLEIEEKIEELPTEVKV
MKVIEKEETTIVNFNIEFEALPEGKVAKVTVKLIENGELKKEETIELKNGEKKTVNFSTEAKDTIVVEIEVEVPGEKKGKIKLT
MKVNKEEKTTVKFNITFKADLPDGKTATVTVKLIADGELVDEKTVTLKNGETKTVNFEIEEKETIEVNITVKVEGEPTGTLKLT
MEVKKEEKTTVNFNVTYKADLPEGATATVTSDLIADGTLVDSKTVTLKNGETKTVNFSTEEKPTIELKITATVPGQAPGTITFT
MKVTKTIKLTAINIEVTLPDGTVKKYEEEEITVEKVNASEEEVEEELKKKVKKEIEELLEKIKKETGAKTLEIEEEVEELPEEVK
KTTTTIKIKIVKITDLTSEDGSIKYTITQTLTLTYNSKTKKVTVKLKTTVTSGDGTVTSEESETTEDFETAYEKNTKAALERS
TIVNVNKTITNLTFTFTSKDGKTKIVYNQFTATNGKAIKVGDLKKTIVYVDGKEVEKEVKPGKEIPKSDLSEEEVLKKLIEELE
MEVIEEKKTTVKFNITFKAELPEGATATVTVKLIANGKLVKEETITLKNGETKTVKFETEADTIVVEITVKVPGKEEGTIKFTYN
MKVTKIITKTIVIEIEVILPDGTVKEIEREITVTKENASKEEVDKELDEKVKKEIEELAEIKKKTGAKELKIEKEVEELPAKTETKE
KTTIEIKTTIVNITTELESEDGSVKYITITSTLTLTYNSKTKVTTITLNTKVEDGDGTVEKKEESKTTEDYETALKKNTEKALEED
ATTNTVKTLNVNITIKLESKDGSEKYTITQNLTLTYNSKTKTVTVTLNTKVEKGDGTVKESKKTSTTTDDFDATAYKTNTKAAKE
MKVTKTITITANINIEVTKPDGTVEKRKLTVTVTKENASEEEVKKELEKKVSEKIKEELEKIKKETGAEKLEIEEEVEEKPEKTE
TTTNTTTTTTVNFNITFKAELPKGEKATVTVKLIQDGKLVAKETVTLNNGETKTVNFTTAAAPTIVVDIKVKVEGKEDGTLKLT
TIVEVTETTTVNLNVTFTSEDGKKKIVYKQTYTATNGKPLKVGDLKKTIVYENGKKVKEETIPGKAIPSPKSVEEVLKEELEKT
AITNKTETTTVNFNITFKADLPKGEKATVTVKLIADGELVDEKTLLENGETKTVNFSTEEKETIKVEITVKVEGKEEGKLVITY
TKVTKIITKTAKIKVKVTTPEGKVEEREKEITVTKENASEEEVEAEELKKKVEKEKEKLLEEIKKETGAEELEIKEKVEEKEAKTT
AVTTTITTHIVNINSKLESEDGSVKYITITSTLTITYNSKTKVTITLNTIEKGDGKTSTSTSTTTDAYDTALTSTAAAEKTV
MTVTNTITLTAEINIEVELPNGKIEKIEETITVKVNASEEEVEKELKEKVKKEKELKKEIKKKTGAKELEVEEEVEELPEKET
TIVNKTETTTVNFNITFKADLPEGETAKVTVELIADGTLVDKKTIELKNGETKTVNFSTAAPTIEVNITVEVEGKEKGTGLKLT
KTTTTVKTHIVNINAKLESKDGKKKYTIKTTLTLTYNSKTKVTITNTTVEKGDGTKETKSTSTTTADFDATALATSTAAAKAE
VETVEVKKVTVNFNLFTATRPATVTVTKESNGKTTTETETLNLQPGEVKERSYSVTLNPGDKVTVTIETDDHKLTTLFEL
MKINVTKKTTVKFNITFKADLPEGATATVTVKLIKDGELVDEKTVTLKNGETKTVFETEASDTIVVEITVEVPGQPKGTITLT
TITNETETTTVNFNITFKADLPAGATATVTVELIEDGKLVDKKTITLKNGETKTVNFSTNAKETIEVNITVKVPGKPEGTIKLT
TTVTVIRTVKAIKIKVTKPDGTVEEKEREIVVTKENASEEEVEKELEEKVKKEKEKLLEEIKKETGAEELEIKEKVERLPKVK
TKVTTTTRTLTVKINIEVTLPDGTVIKRELITVTKTNATDAEVEAEAAAKVEAALKAELEKIKKETGAEELEIKEKVERLPDKTTT
ETTNVTKTTTINFNITFKADLPEGETATVKVDLIKDGKLVDSKTITLKNGETKTVNFTTKESETIEVKITVEVPGKPTGTLTITYN
MTTTTIKTKIVKINITLKSKDGSIKYKINVELTLYDSKTKKVTIKTKVTIEKGDGTKEEKEEEEEETEDFETALKKYTEKAKKEA
TIVVEEKTTIVNLTFTSEDGKTKIVYNQTYTATSGKPIKVGDLKKTIVYENGKKVKEETIPGEEIPLSDKSEEEVLKEEIEKRI
TKVKEVLKTEINIEKTTKADGTVTETETKITITVTEEDGVTTVKIEKETKTKTYKDGKLVDEKESKEKKESVVPGVKAEAALE
TIVNVTNTTTVNFNITFKADLPEGKTATVTVELIADGELVDKKTITLKNGETKTVNFSTEEKPVIKVNITVKVEGEKPGTLTLTY
TTVVNNVTIVNVNYTFTSKDGKKKIYKQTYTATSGKALEVGDLEKTVLENGKVVKETIPGKAIPLSDKSVEEVLAEELKKL
MKVTRTITLTANINIEVTKPDGTVEKIEEKVTVTEVNASEEEVKKKLEEEVKKKIEETLEKIKKKTGAKELKVEEEIEEKPAKTT
MKVTVIRTLTVEINVTVTLPDGTVKKKKKEEVTVTKENASEEEVEEEAAKKKVEEKIKELLEIKKETGAKELEVEEKVEELPTKT

C-series-data

TKTITNKTNTTNLTVTFTSKDGKTKIVYKQTYTATSGKALKVGDLLKTKVKENGKVVEETLPGKAIPSSKSEEEVLAEELKTR
MKLTVTNTTNLNFNLTLTDSSETGKKYKINFVTVTKENGKTTVSFEINSVEGDLTINTSMEVLDDGSIVIKIDITINETGKKINITI
TTVTNITLKAIEITVTLPDGTVKEKKEEITVTKENASEEEVEKELEKEVKKKIEELLKEIKEETGAELEEVEEEVEELPEKTTTT
TTVTNTTTLTANINIKVTLPDGTVKEIKRTVTVTKTNASDEEVEKELKEKVEKTIKETLEEIKKETGAEKLEIEEKVEELPEKTTT
TTVTKTITHTAEINTTVELPDGTVKEKRKDTVTVTKTNASEEEVEAELEKKEVEKKIKERLEEIKKETGAEELEVEVKVTKLPAKTH
KTAVGIGTKIININIKTNAETGEKTNINVTVTVTKTETYKDGKLTEKFEVKADASATKTVNGKTTTELDDVDVKLDVKITKNEDGT
MTVTVIRTKTAVINITVTKPDGTKKEYKSEITVTKENASEEEVEAELEKKKVEAEKKKLEEEIKKETGAKELKIKEKVTTELPTKVE
KTVNNTNTTTVNFTITFEADLPEGETATVTVKLIADGKLVKEETLTLKNGETKTVEFSTEAKKTIKVEITVEVPGKEKGTLTLY
KTTTTIKTKIVNITIELKSKDGKIKYTIKQELTITYNSKTKKVTIKLTKEIEKGDGEVKEEEEEETYPKFETAYKEYKEKALKKAE
TEVTTTTITLTAIINVTVTKPDGTVEEIEKEVTVTKNASLEEVEKELEKKVEETIKELLEEEIKKETGAEELEIEEEVEEKKEKVTT
VEVEVRKLVTVNFNITFTATKPATVTITLTRERDGVETETKTLELQPGKEKKEKYEVTLPGDKVTLTIETEDFKLTITWKLNI
TKVTKTITKTAEIKVEVTLPDGTVKRIEREITVTKNASEEEVNEELEKKVEEKKEEILEEIKETGAEELEIEEKIEELEKTEK
ATTNTVKTCTVNINITLESKDGSIKYNKITLTLTYNSKTKTVTNTTNTVESGDGTTKESSTSTTTDDFDLTNTNTAAAEKE
TKVTNLTCTAIINITVTLPSGEKKEYKETVTVTKENATKEEVDKELNEKVEAKLKELEKIKKETGAKELEIKKTVEELPEKTTT
TKVKEVLTKNIKIKTKTTKKGDTVTIKETEITITVTEEDGKTTVTIKTKTKTKTYKDGKLVKEEEKEEETEEVPGVKAEEALK
ATTTTIKNKIVNIIDTLESKDGKEKYVIKSTLTLTYNSKTKVETIKLKTIESGDGKVEESEEESTTTKPFDEAYKESTKKALELV
AKGTVTGTVNINYNVTWTKDGKKLTLNFTVTVTSTLKEGDKPKKKEEKTKTTTVDSDGTYDVTIETNVKSESLEDGKL
TKVTKTITITAKIKTTVTLPDGTVKEYEDEITVTKTNASLEEVEKELEKKVKEKIEELLKKIKEETGAEELEVEKEVEELPEKTTT
TITNTTKTIVNVTVTFTSKDGKKIVYTQTYTATSGKAIKVGDLKIEVYENGKLVKETIPGKEIPLSDLSEEEVLKKELEERE
MRAVGVGVEVDVTVTIKSDGKTVTIKDTLVAERRLELEDGELVREEVVLHETKIEKTVDVGDYEVTTITFETEIVAPGVVRAT
KVTTTTITIVNIKDTLTSADGKEYTINTTLTITYNSKTKVEKIKLKTITKGDGTTKEESEEESTTKEDYETALKKSTEKALEKS
MTTTTTTTITANINITVIKPDGTVKRNKTITVTKTNSDEEVEAELEKKKVEEELKKTALAEIKKETGAKELKIEKKVTELPETTTT
KTTTTIKIKIVKITITLESSEDSGSKYTIKVTLTITYNSKTKKVTVKTKTIEEGDGTTKEEEEEETTTDDFEKVYKEETEKALKKAE
TIVNETNNTTINFNITFKADLPEGAKATVTVKLIQDGLVDTKTLTANGETKTVNFTTNAKPTIKVEIAKVPQGEPGTITLTYN
TTVTKTITLTANINTTVELPDGTIKEYKETITVTGVNKEEEVKAEELEKKVKEKKEELLKKIKKETGAEKLEIEEEVEELPKTKT
ATTTTVKTTIVNITATLTSEDSGSIKYTITSTLTLTYNSKTKVETITLETKVTSGDGTTTTSKETSKTTDDYDEALKNTKAKKKV
PVTNEIKTHIVNIEAKLESKDGKIKYKINVTLTITYNSKTKVETITTKTIEKGDGKVEEEETSTTTEDFETAKEKSTKEAKEKA
ATTNTVKTIVTITITLTSKDGSVKYTITVTLTLTYDSKTKTVTDTTDTVAGDGTTSSETSTTTDDFDTLKTSTDAAKK
KTTTTVKTHVNITIELESEDSGSIKYTITQTLTLTYNSKTKTVTKLNTKVESGDGEVEEEESTTTDDFDTLKTNTAAALK
TIVEENKTTIVNLFTFTTSADKKTKIVYEQTLTVTSGKPIKVGDLKVTTVNGKVVEKEVIPGKEIPLTDKSEEEQTKYIAELEK
TIVIVNETTITNLNFTFTSKDKKKKINYKQTYTATNGKPLKVGDLIKTVTENGKVVEKKTIPGKEIPLSDLSEEEVLKKEIEEREK
TTVTTTTITKTVNINVTVTKPDGTVKERTKTITVTKTNATEAEVNAELAEKVAAEKALLEEIKKETGAKTLTITETVTEQAATTT
AVTNTITTKIVKIKATLESEDSGSEKYTITSELTLTYNSKTNVTVTLKLTIEDGDGKKEEEESTTTTDDFDTTYTTETKKAADK
MTVNKKKILIVEIEATLKSADGSEKYVIKSKLTLEYDSKTKEVTVTLKLTIAGDGTKEEEKKEKTKKDFEEAKKEYTKAAEE
MTVTNTTTITANINVTVELPDGTVKEREETVTVTGVNKTDEEVEKELEKKVKEKKEELLEEEIKKETGAEELEIEEEVEELPKT
TKVTNITLTAEINTTVTLPDGTTKKREEKITVTKENASKEEVEKELEKKVKEKKEKILEEIKKETGAEELEIEEKVEELPEEVTT
KKVIKTLTKNINVNLTTEKADGTVTVTNTNITITVKEEDGKTTLTKNNTNKTETYKDGKLVKKENKEKETKTYEGKDAKEVLD
KKAVGIGIKKINININELDKETGVKTNINVTITVTKTETYENGKTTTEFKVEAKASATKEENGKKTELDVEVKLDVEITELEDGK
MKGKVTGTININFTVTWTKDGKKLTLNFTVTVTETLNEGDAAKTTTTTTTTNTTVDDEDGTYDVTITTTTTSTASLEDGTLV
MKVKKTITLTVNINITVTLPDGTVKIEETVTVTGVDKTEEEVEKEAEKVEKKLKELEEEIKKKGAKELIEKEITEEAKTET
MKTTVKETTKINFKLTLTDKKTGKKYEINFELTVTKEDGKTTVDFIKSTKGNLEIKDLSVNSDGSITININIKDTGKKINITIT
MEVTKIITKTVDINTTVTLPDGTVKNYKDTITVTKENATEEEVNALNKKVNEKIEERLKEIKEETGAEKLEVEETVTELPEEVT
TKVIKELVKKINIKKTTTKADGTVTVTEKNITITVTEKDGETKVVINTKTKTKTYKDGKLVDEKESSESKEESTVKGKKAEEVLKE
KKIIEEKLVTNLNITIKSKDKEKVKETAEEIKKILESLEKPLAKSLEIEESYKEENGIYGTINAKLTVEEKDYEVKKELEKKLEEL
TTVNNTTTTTVNFNITFTADLPEGETATVTVKLIADGKLEKEETLTLKNGETKTVKFSTAEPVIEVEIEVTVPGKEPGTLKITY
TTVVEITRLTVEIKITVTKPDGTVKIERIVVERENASEEEVEAEAEKKVKEELEKTLEEIKKETGAEKLEVEEKVEELPPRVE
TTTNTIKIHVNITIELESEDSGSEKYVIKTKLTITYNSKTKVKITTETTVESGDGKKEEKEESTTTEDFETALKNTKALKEAB
VETEEIKNVTNVNLTFKASKEATVTITLTKESENGKTTTETETLKLPGEEKKKNYSVTLAPGDRVTLTIETDDHKITLTWELQ
TTVTTTTTTTTANINIEVELPDGTVKKIKREITVTKNASKEEVDKELEEKVKEKEEILEEIKKETGAEKLEIEEEVEEKPEEVKT
MKVTVTTTTLTVNIKTTVELPSGEVKEYEETVTVTKNASDEEVEKKEAEKKVKEKKEELLEKKIKEETGAKELEIEEKVTELPEKT
MKGTVTGTININFTVTWTINGKKLTLNFTVTVTETLNEGDAAKTTTTTTTTTETTTVDSNGTKYTVTITTTTNSAEIKDGKLVK
TKITNITKTVKINITVTLPDGTTKKYEYEITVTKENASEEEVEKELEEKVKEKIEKKLEEEIKKETGAEKLEIKKKVTEKEEKVTVE
TIVVEEKEVTNVFNLTAEKEATVTITLTKESENGKTTTETETLKLQPGEKKNKSVTLKPGDKVTLTIETEDHKITLTLYELKE

C-series-data

TKITKILTTTAKINITVTLPGDGVKKYEEEVTVTKENATEEEVEEELKKKVEEKKAEMLKKEETGAKELNIEEKVEEKEAKTT
MTITKITTVTAEIKVTVTLPGDGTKKKIEKTITVTKENASDEEVLKELEKKVKEEKEKILEEIKKETGAKELKIEKIEELPEKTTVT
MKVNTILTKTANINITVTPDGVKEKRNLTVTVTKENATDADVEAELAAKVAAEIAKALAEIKKETGAKELKVEVTVTELPETT
MEVTVTRTTTVNINTTVTLPGDGTKKNYNETITVTKVNASKEEVEKELDKKVKEKIKELLEKIKKETGAEKLEIKKTVTKEPTKV
VEVKKIKNVTVNFNITFTATKPATVTITVTKESNGKTTTTTETLTLQPGKEKTKTYSVTLKPGDKVTVTITTEDFKLTLTYELKE
TKVTKTTTTLAKINITVTKPDGTVKEIEEITVTKVNATDEEVEKELKEKVEKKKKELLEIEIKKKTGAKELKIEETVEELPAKTEV
MKHIEIKIKVKIIIELESKDGSKKYKIEVELTLTYNSETKEVTIELKTKVESGDGKIEEKEEKSVTKKPFEEALKEYTKKAKEYA
AKTTTIKTHIVNINITLKS KDGSKKYNIQTLTLTYNSATKVVTIKLDTTITAGDGTKEKSESTSTTAPFDALATSTAAAKARA
TKTIEILTKNINIKTTTTYADGTVVTEKNITVTVEEDGKTTVTIKTETKTKTYKNGKLVDEEESKSEETETVEGKKAQEVLD
MEKTEILTTTAINATVTLPSGEVREIRREITVTKENATEEEVNELAKKVAAEIERLLAEIREETGAELEVEEEVEELPTKTTT
VRVEERKEVKVFNLTFAKATKPATVKITLTKESNGKTTVETEELKLEPGEVKEKKYEVTLPEGDKVILTIEDDFKITFTYELKE
TKTIKNTKNININTTTKADGTVTITKNTTITVKEEDGETTLTIETKTETTTYKDGKEVEKKEEKKETKTYKGEKAEDVLKK
TKTVVNKNLTVNFNLTFKAEPATVTITLTKESNGKTTTETEKLELQPGEVKERSYSVTLKPGDKVILTIEDFKLTLTYELKE
EIIIEKEKTTVNFNVTFKADLPPGKTATVTVKLIADGELVDEKTLTLANGETKTVEFSIEEKKTIVLEITVKVEGEPDGTIKLTYS
MKVTIETTITAEINTTVTKPDGTVTNKKETVTVTGINKSEEEVEEELNKKVEETIKKLLAEIKKETGADTLDIKETVEELPEKVE
MKATGTGTVVVNVTVTLKSDGEEKTVKDLTATEKLTKVDGELSAREVTIEETKVEKTVELGNYEVKITLSTISITAPGVVEAT
KIEIETENTTVNFNITFKADLPEGATATVTVNLIADGELKASKTVTLKNGETKTVNFTTEEEKTIEVNITVKVPGQPDGTLKITY
MKITKTITKTAKINVKVTKPDGTVVEEREKTITVTKVNATEEEVNKELEKKVKEELEKLLKEIKKETGAKELEVKKVEEELPAKTT
ATTNTIKTHIVNIITLTSKDGSVKVTITTTLTITYNSKTKVVTIKTDTTITNGDGTKTESSEKTTTDDFETALKTETAAAEKKAL
TKVKKTLKKNIKIEKTIEYKDGTVVEEKTEITVEVKEEDGKTTVTKKKTEKKVYKNGKLVKEEKKESSEKSTLPGVKAEEALD
TITTKTITTTANINVTVTLPGDGTKNYNRTITVTGVNKTEEEVNELTEKVNAELAALLAEIKKQTGASTLTVTETVEELPAETK
TTVNNTTTTTTVNFNITFKALPEGETATVTVELIADGKLVDKKTITLKNGETKTVNFSTNAKPTIKLNTVTVKVEGKPEGTITLT
TTVTNTTTVTANIEITVTLPGDGTKEYKETVTVTKTNATDEEVNELKKKVEETLKKKLEEIKKETGAEKLEVKKVEEKEPAKT
MKVTVVTTITAINITVTLPGDGVKKIKKEITVTGVNKSEEEVKEELEKKVKEKIEEILKEIKKETGAKELKIEKKIEELPEKVVEE
KKTITIKTKIVNITITLTSKDGSIKYTINVTLTLYNSATKEVTIKKKTITKGDGTKEESEEESTTTADFDATAYATSTAAAKEEAL
TIVTRTIELTVEINIEVTLPSGEVKKYKEEVTVKRVNASEEEVEKEAEKKVKEKIEKLEIEIKKETGAKELKVEEVEEELPEEVE
TTVTVTRTWAEINVTVTLPGDGTVEIEKREVTVTKVNATEEEVKAELKKVKAEEKLLLEEIKKETGAELEIEETVEELPEEV
TIVNVNKTIVNLTFTSKDKKKKIYKKTYYTSGKPIKEGDLKKTVLENGKKVKEKTIPGKEIPLSDLSEEEVLEKRIKELEK
MKGTVTGTININYNITLTINGKKLTLNFTVTVTRTLKEGDEAKEENTTTTTTTTTVTDSDGKTWTVKITVNTNSKAEIKDGLVLM
TNVTVVRTVTAIINTEVTLPGDTIKKRKEEVTVTKENASEEEVLAELEEKVKKKIEELLEIEIKKETGAEKLEIEKEVEEKPAKTT
MVTTEIKTKIVNINIELESEDGSIKYKINAKLTLTYNSKTKVKINLNTIEDGDGKKEEKEESTTTEDFDEALKKNTAKAEKLA
MEITNITTITAEINITVTLPGDGVKERKLEVTVTKENATEEEVEKELKEKVEKKLKEELEIEIKKETGAEKLEVEKEEKLPTETE
MKTIKIKTLIVNIVANLESEDGSIKYKITSTLTITYNSETKEVTIELKTVIEKGDGTKEESEEKSTTKEDFEKAKEKSTKEAKEKVL
MNVNEIKVHEVIINTLTSKDGSIKYTINVTLTLYNSATKEVTINLNTTVKDGNGNEKSSSETSTTTDDFETALKKSTEAKEKA
MKTIEIKTHIVNITINLKS KDGSIKYTINVTLTLYNSATKEVTINLNTTVKDGNGNEKSSSETSTTTDDFETALKKSTEAKEKA
TIVIEEKTIVNVNFKFTSEDKKTVIEYKQTYVTSGKPIKEGDLVKTVYEDGKEVKKEVIPGKEIPLSDKSEEEVLKEKLEERE
VEVVEEKELTVNFNITFKAEKPAKVITITLTKISDGKTTTTTETLELQPGEVKQKTYTVTLKPGDKVILTIEDFKLITVELKPD
MIENVNEETTVKFEVTFKADLAAGETATVTVKLIADGELIDEKTVTLKNGETKTVKFETEAKDKIELEITVNVAGKAPGTIKLTY
MKVTKTITKTVNINITVTKPDGTEEKYKETVTVTKENATEEEVEKELEKKVKEEIAKKLAEIEKETGAKELKIEKEVKELPEKVK
KVTNVVKTLIVNINIKLESKDGSVKYTITVTLTLTYDSKTKTVTNTKVEKGDGTVETSSSTSTTTDPFEETKKKSTEAAL
KKTITITHTVTTITITLTSKDGSIKYTITVTLTLTYNSATKEVTITKDTTVTKGDGTVKSSSTSTTTADYDTALTESTAAALAE
TTTNTNTTTTVNFNITFKALPEGETATVTVELISDGTLVDKKTVTLKNGETKTVNFSTAAKETIEVNITVKVEGKEPGTLKLT
KKTITIKKEIVKITINLKS KDGKEKYTITITLTYNSETKKVTIKTKTKVKKGDGTVEEKEEESSETTDFEKAKEEKTKEALEKAL
MKVTKTRTLTVNINIKVTLPGDGTVEKIEEVTVTKVNASEEEVEAEAKEVVEEKIKELLEIEIKKETGAELEEVKKEVKELPTKTE
MKVTKTITKEAVINITVTKKDGTVKEKIERTITVTKENASEEEVDKELDEKVKEEKEKLLLEEIKKKTGAKELKVEEKVEELPEKTT
MKITKITTTLADINIEVTLPSGEVEKIKRTITVTKENASDEEVEKELKEKVEKEIKETLEEIKKKTGAEELKVEEKIEEKEEKTVE
MNVTKTTTITAKINITVTLPGDKVEKIEEVTVTKVNASDAEVEAELKKKVEEKIEKLEIEIKKKTGAEKLEIEKEVEEKPAKTD
AKGTVTGTVNINYNVTWTKNGKKLTLNFTVTVTETLKEGDPKAKTETTTTTTTTTVTDSDGKTYYTITINTKSESSLEDGKLV
KTATGIGTKVINININEKDKKTGEKTNINVTVTLTKTYSGGTTTTTFTITATASATKEVNGKKTELDVDVTIDATITENADGTY
TNVTVTRTTTVNINVKVTLPSGEVKEYKKTITVTKVNASEEEVEKELNELVKKEKEKLLLEEIKKETGAEKLEVKEKITKEPEKTI
MKTNEIKIKEVEIISKLESEDGSIKYEIKAKLTLTYNSKTKVTKLLEVISGDGTKEESEEESTTTKDFEEAYKENTKKALEKV
MKVTKTITTTAKINTTVILPDGTEKTYEREVTVTGVNKTEEEVEKELKEKVEEKEKLLLEEIKKETGAELEVEEEVKELPAKT

C-series-data

TEVVENKEVTNVNLTFFKASKPATVTITLTKESDGKTTTETETLELQPGEVKNKSYSVTLKPGDKVTLTIETEDFKLTLTWEL
PVTTTTVKTLIVKIIKLESKDGSIKYTITQTLTLTYNSKTKTVTIELKTEIEKGDGTKKTEKTTSTTKDDFEEAKKKNTEKAKKKAL
KITNTVTTKIVKIIKLESKDGGIKYTIKVELTITYDSKTKKVTIKLDTTIESGDGKEEKESESESETTEDFETALKKNTEKALKLAE
TTTTNTITKTVKINVTVTLPDGTVKNYEEITVTKTNATEEEVEAELEKKKVEEKKKELLEKIKKETGAKELIEEEVEELPAKTT
MKINTIKIDIVEITAKLESKDGVKYTIKATLTLTYDSKTKVETIKLKEIEDGDGKKEEKEEKEETTEDYEKAKEKYTKEAKELV
ATTTTIKTHIVKITATLESEDGSEKYVIKTTTLTLTYNSKTKKVTIKLDTTIESGDGKVEKESESESETDEDFEDALKKSTEAACKR
TKVTNITTLTVNINVKVTLPDGTVKEYNKEITVTKENASDEEVEKEANKKVEEKKKLEEEIKKETGAKELKVEEKVEELPAET
MKTIEIKTHITKITITLESKDGSVKYTITVTLTLTYNSETKKVTVKNTNKVEEGDGTVKESEEEKETYEDFEEAKKKYTEEAKKK
MKITKIITKTVNINIEVILPSGEKKEYNEEITITKENASEEEVNKELDKEVEKKIKELLEKIKKETGAKELKIEKEIEKPEEVKVEK
MVTNTVKIKTTEITSKLKSKDGGIEYTITTTTLTYDSKTKVETITTKTTVKAKDGTVEESEETSTTTEDFDTAYTKNTAAAEKK
TKVIEKLIKINIEETTEYADGTVVKTKEITIEVTEEDGETTLKVKTKTETETYKNGKLVSEEESETEESTVPGKKAEDVLKE
AKGTITGTVKINFKVTWTIDGKKLTLEFTVTVKETLKEGDKPKEKEEKKKEETTVDENGKKYKVEIEIETKSEAKIEDGKLILK
AVTNTIKTLTVNITITLTSKDGSIKYTIINITLTLTYDSKTKTVTVTKKTTITSGDGTKEEKEETSTTTDDFDTTKTESTKAALKEAE
PAGKYTVTKTLTVKSTYTKDGATITVTVTTTITVTVDEEDGTVTVVEVKTSETITADASAAAADIAAYTAETKAKADALAEELKE
TETVKTLTKNINVTKTKYKDGTVVVEKTNNTTITVVEKDGKTTVTIKTKTVKETYKDGKLVKKEESEKEEKSEKPGVAAEDAL
TKTVKTLTKNINIKKTTKKKDGTVTIKNTNITITVTEKDGVTTVTNTTKTKTKYKDGKLVKEESESSEKSTSEKKGVKAEALNE
ATTTTTTTLTVNINITVIKPDGTVKKINKTVTVTKTNATEAEVNAAEAKKKVDETLEKTLKEIKKETGAELKLVKKEVTELPATTT
MIEKKTGIVNVNFTITFTDKETGKKYTAKATKFTYTTGEEQSTSNLTLTEDVPEELKEIKKKKALELIDKWLEKNKEELEKKY
TTVITNEYVTLNKIVKSKDEEKVKATVAALVKIFESLKLAKSLKIETSFEEKDGIYGTINATLTVDKSDYETVKKKLDADLK
MTEIKNETTTVNFNITFKADLPPGATATVKVKLIADGELVDEKTLTLKNGETKTVNFSTAAPTIVVEITVEVPGQPKGLKLT
TTTTVTITETAIINIKVIRPDGTIEERKLEVTVTKTNASEEEVREELKKKVEEEIKKELEEIKKETGAKELKIEEKVEEKPAKTTTK
TKTIELTKNININTTTEKADGTVTETKTNITVTVVEEDGVTTTLVKTEKKTKVYKDGKLVKEEKEESEKSTSTVKGEAAKDVLE
KTATGIGTVIINININELDKETGVKTNINVTVTVTLTKYKDGKLTTTYEFEAEGSATKTENGVTTELDDVEIELDVEITEKPDGTY
MKVKKTITKTAKINTKVTLPDGTVVEREDEITVTKENATEEEVEKELKEKVEKRIKERLEEIKEETGAELKLVKKEVEEKPAKT
TTTTTITITAIINIKVTLPDGTVEEYEEYITVTKTNASLEEVEAELEKKKVEEKLKEKLEEIKEKTGAEELEVEKEVEELPTKTTT
TKTTKTITITANINITVTKPDGTVEKREETVTVGVNKSLEEVNNELNKKVEEKIKEMLEEIKKETGAELKLVKKTVEKLPAKTT
ASGTATVTLTINLLTFTTPDGYEYKVLLTETLTVTVKGGSTTVTKEFKKEDLTPLPEDEEVRKKIEEIEEKKKELEAKAKAKE
TETVKTLTKTINIDKTTTKADGTVTKTNNTTITITVTEEDGKTTVTVKTTTTTKYKDGKLVSESKSESTETSTVEGVAAEDALAB
TKGTVTGTINNVFNVTWTKNGKKLTNFTVTVTQTLNQGDAAKSTTTNTNETTTVTDSDGKWTNININTNSTASLTNGNL
TIEKNILTITANINITVTLPDGTVKKYEREVTVTGENKSEEEVRKELEEKVKKEIEEKLKEEIKKETGAKELKIEEVEKEEKTET
KTVTVTRTITAKINTTVTKPDGTKEKYEEEVTVTKVNASLEEVEAELEKVEKKIEELLEKIKKETGAKELIEKKEVEELPEKVE
EITIVNNNTTVNFNITFKADLPEGETATVDVDLIVDGKLVKSETLTLKNGETKTVKFSTKAAPTIEVKITVKVPGKPDGTITITYD
ATTTTIKTKIVKIEYNLESKDGSKKYKIKVTLTITYNSKTKVETVKLEVEVEDGDGNVEKSEKSTTTEDYDTTLEKSTKEAEEL
TKVTTTTTTLTVEINITVTPDGKKTEKKETITVTKVNASDEEVEKEAKKKVEEKKKELLEIEIKKETGAELKIEEVEELPEKTT
TETVETLTKNIKVEKETEKADGTVTITKTDTTITVVEKDGTVTVTIKTKTETKVYKDGKLVKEEKSESTETSTVEGVAAQALD
MVTNLIKTLIVKIIYKLESKDGSIKVTIKKTLTLTYNSKTKKVTVKLKTEVEYGDGKKEKKEEESVTNLPFDEAKKKYTEKAKKE
TKVVETLTKNIKINTVTTKSDGTVTKTNTDVTITVKSSEDGKTTTLVKTNNTTETETYKNGKLVDKKEEKEEKTAEYPGKAADVL
KKAVGTGTKIINIKLNKETGEKLTINVTITVTRTETYEDGELTVEWDISATGSATKEKDGGKTELNVDDVIDAEIKKNADGT
TETVEVLTKNIKVETTTKYSDGTVVVTNKNNTTITVTEKDGKTTLTKKTETETKTYKNGKLVSESKSEKSTETSTKEGKKAEDVL
TTVTKTLTLTAKINVTVTKPDGTKEKIEETVTVTKVNASEEEEVEAELEKKKVEEKIKELLEIEIKKKTGAKELKVEKKVEELPTKTE
MKVTKIITKTANINITVTLPDGTKEEINEKITVTKVNASEEEEVEKELEKKVSEKLEETLKKIKEKTGAELKIEIEVEELPEETKVT
AVGTVTGTNINFNVTWTKDGEKLTLLKFTVTVTETLKEGDAPKKETKTENKTTTVDSDGKWTNININIESEASLKDGLV

C-series-data

AF2_plddt	ESMFold_plddt	1nm/ns SMD Force (pN)	0.1nm/ns SMD Force (pN)
93.94832168	91.47832168	1882.432	1596.172447
93.37041667	90.89118056	2094.752	1627.346667
95.74048611	90.91520833	1865.44	1618.149333
95.65347222	90.72888889	2123.2	1569.857573
96.50659722	90.79805556	1904.768	1579.468973
91.4922807	90.64298246	2167.216	1579.829747
96.02701389	90.616875	2027.888	1586.610133
91.36894737	90.1227193	2087.36	1580.010687
91.71937931	91.97365517	2206.112	1554.25966
96.30201389	90.170625	1955.84	1525.744
93.36395833	90.45944444	2140.352	1571.08542
93.29798611	90.42708333	1946.896	1611.432
96.73819444	92.11951389	1883.584	1607.9744
90.70903509	90.30754386	2187.008	1603.55834
91.64082759	90.35986207	2183.712	1640.9183
90.87048276	91.68972414	2108.064	1557.836407
90.59082759	90.57503448	2130.128	1503.271653
96.46381944	91.08020833	2030.992	1487.832
96.65965278	90.62666667	1838.576	1483.621127
91.725	91.54552632	2208.768	1479.489387
92.13763889	90.02763889	2149.568	1476.119033
95.92458333	90.7725	2184.56	1463.788553
96.28826389	90.894375	2144.128	1460.827113
91.07	90.33140351	1842.608	1443.60738
94.20972028	91.90734266	2128.736	1440.3488
92.64358621	90.99068966	2085.776	1416.09288
92.50284722	90.40263889	2224.656	1387.322867
90.82131579	90.66350877	2170.192	1383.561307
93.36762238	90.49685315	2262.944	1379.315027
92.45083916	90.55993007	1843.552	1372.568
91.65614035	90.31201754	2071.072	1360.284787
96.37638889	91.54138889	2279.264	1340.165587
91.15041379	92.0422069	2168.368	1324.370133
93.69347222	90.3525	2109.76	1304.656527
91.12868421	90.31157895	2075.424	1294.140427
92.05657343	91.04965035	1851.856	1267.765333
91.52912281	90.26184211	1841.536	1239.398607
96.09861111	90.44444444	2068.848	1232.135553
91.77531469	90.63300699	2058.4	1224.300907
93.77958904	91.47089041	1838.704	1187.941927
96.24305556	90.76659722	1837.824	
96.00673611	91.70638889	1837.392	
91.26535088	90.52736842	1836.896	
91.9954386	91.54859649	1835.232	
95.36270833	91.57625	1834.24	
91.85566434	90.79174825	1832.72	
92.23544828	91.41937931	1832.528	
91.18675862	90.00510345	1831.168	
95.08270833	91.00576389	1830.944	
91.00682759	91.95641379	1829.776	
91.89912281	90.93192982	1829.568	
92.43807018	91.07359649	1828.512	

C-series-data

92.09875862	92.15565517	1828.144
92.1634507	90.48204225	1826.368
92.25315789	91.07798246	1826.032
91.67982456	90.47657895	1825.232
92.43359649	91.26517544	1825.152
92.04413793	90.454	1822.576
91.62333333	90.63	1816.768
95.76208333	90.17590278	1816.128
90.68321678	91.25146853	1815.728
91.44912281	90.80289474	1815.616
91.97376712	90.09746575	1815.024
91.67192982	90.47447368	1813.504
90.91713287	90.02	1812.784
92.27140351	90.93552632	1811.536
91.27158621	90.09944828	1810.88
91.99482517	90.27132867	1810.048
92.84300699	90.62398601	1808.304
91.4072807	90.31947368	1808.112
90.60931034	90.23406897	1807.824
93.32916084	90.0706993	1807.664
91.97748252	90.72622378	1806.576
91.47964912	90.58614035	1806.224
92.2506993	90.78566434	1805.056
94.8125	90.21416667	1803.2
91.69105263	91.28114035	1802.24
92.42440559	91.19741259	1800.112
91.11482517	90.04090909	1800.016
91.28188811	91.36398601	1797.776
91.33937063	92.08531469	1797.68
91.76062069	91.5362069	1792.72
92.1717931	90.36641379	1791.616
92.74219298	90.17491228	1790.848
91.30265734	90.2965035	1788.368
91.24811189	90.16601399	1787.952
91.48912281	90.11938596	1787.648
92.37850877	90.14157895	1787.456
92.36303448	90.71510345	1786.928
90.79013793	90.53310345	1786.688
92.66944056	90.23195804	1786.288
91.15754386	90.04991228	1786.192
92.46661972	90.6078169	1786.032
95.80719298	90.57991228	1783.856
91.74786207	90.22	1781.28
90.62630435	90.61652174	1780.304
94.36743056	91.79458333	1780.176
91.08157895	90.16061404	1779.648
92.48237762	90.01741259	1779.36
90.05315068	90.09020548	1778.944
90.50140351	90.88333333	1778.704
92.1754386	90.81929825	1778.416
93.84734266	90.14048951	1777.984
91.10929825	90.87324561	1777.568
93.26082192	91.70821918	1776.32

C-series-data

91.49087719	90.57991228	1772.448
90.58052632	90.28745614	1770.784
92.09631579	91.49640351	1769.136
92.20877193	90.63052632	1768.48
92.89089041	91.76349315	1768.112
91.43052632	90.69166667	1767.376
90.21776224	90.41475524	1764.592
92.02482517	92.46006993	1764.048
91.88482759	90.20496552	1762.096
93.13192982	90.26447368	1761.344
91.86616438	90.53390411	1761.216
91.99958621	90.09910345	1761.088
92.78054795	90.58013699	1759.968
95.68361111	90.034375	1758.56
92.34596491	90.48868421	1757.168
93.3365035	91.17258741	1756.4
96.72347222	90.45854167	1755.904
91.74719298	90.11973684	1755.312
92.26237762	91.23034965	1754.848
90.31986207	90.11517241	1753.328
92.64429825	90.58561404	1752.224
94.811875	90.33631944	1752.048
91.72210526	91.25122807	1751.712
90.79052632	91.27394737	1751.536
93.08398601	90.66951049	1751.2
91.35938596	90.48017544	1750.736
92.63491228	91.50973684	1749.344
91.24475862	90.18565517	1748.688
93.63090909	90.00496503	1748.064
90.82140351	91.29289474	1747.776
92.49055944	90.34986014	1747.632
91.80280702	90.53350877	1747.216
93.06188811	90.78629371	1747.104
91.62363636	90.34237762	1746.784
92.75972028	90.26552448	1746.72
92.98475862	92.19910345	1746.56
93.36130137	90.64068493	1746.208
95.27381944	90.49805556	1744.192
91.7572807	90.14087719	1744.176
92.13237762	90.7341958	1743.92
91.21818182	91.44566434	1743.104
95.42770833	91.66444444	1742.752
91.90034965	90.98433566	1741.92
91.55921053	90.6022807	1741.76
91.68517544	91.18973684	1736.992
91.94833333	90.21631579	1736.704
91.33824561	90.65552632	1736.432
90.75991228	90.26280702	1734.368
92.34545455	90.10783217	1732.752
92.60772414	91.742	1729.6
91.28	90.92473684	1728.544
92.66804196	90.4893007	1728.08
91.6295614	90.61517544	1727.632

C-series-data

92.5039726	91.24712329	1727.472
92.05111888	90.24034965	1726.288
91.38321678	90.09545455	1726.224
91.88763158	90.53394737	1725.664
91.41769231	90.21713287	1725.456
91.70657343	90.21741259	1724.176
91.77815789	90.41938596	1723.584
92.99426573	91.86601399	1723.2
91.035	90.56289474	1722.432
92.76118881	90.12531469	1721.888
91.20806897	90.58165517	1721.296
92.86251748	91.07328671	1720.272
92.73454545	90.56881119	1718.896
92.12008696	90.656	1718.656
93.07393103	90.90413793	1717.536
91.90075862	90.71875862	1717.248
92.71789474	90.20184211	1717.168
91.39770492	90.8002459	1716.656
90.725	91.44376812	1716.48
95.66145833	90.30402778	1715.856
90.68070175	91.305	1715.808
91.85531034	90.61062069	1712.704
92.88462069	92.08117241	1712.64
91.39964912	90.4227193	1712.56
90.94315789	90.32491228	1711.376
91.88973684	91.10122807	1710.832
92.04132231	90.01487603	1710.496
92.17441379	90.50689655	1710.352
93.91496503	90.22426573	1708.112
91.29061404	91.48342105	1708.112
91.67657895	90.55649123	1707.776
96.67659722	90.64	1706.816
92.2558042	90.90944056	1705.12
91.68578947	90.2472807	1705.056
93.40875862	90.28834483	1704.8
91.54027972	90.7241958	1704.496
93.0142069	91.31331034	1704.048
90.41317241	90.07275862	1703.232
92.93765517	90.99255172	1702.928
92.10815789	90.65657895	1701.904
91.78035088	91.65315789	1701.296
94.74727273	90.70286713	1700.576

C-series-data

RMSD of Annealing simulation (nm)	RMSD TOP8	Final selection (0.1ns/ns SMD criteria)
0.4859601	??	??
0.5701471	??	??
0.5811395	??	??
0.612675	??	
0.6147536	??	
0.6189743	??	
0.6264805	??	
0.6424118	??	
0.6564967		
0.6731559		
0.7736041		
0.783611		
0.9883149		
1.0107837		
1.0479245		
1.1457467		

E-series-data

full_name (series_structure_sequence)	short_name
E_766_57	E57
E_766_389	E389
E_766_97	E97
E_766_255	E255
E_766_203	E203
E_766_159	E159
E_766_254	E254
E_766_49	E49
E_766_41	E41
E_214_152	E152
E_766_369	E369
E_766_53	E53
E_214_65	E65
E_662_293	E293
E_214_120	E120
E_75_215	E215
E_766_391	E391
E_766_40	E40
E_214_89	E89
E_75_135	E135
E_766_119	E119
E_340_82	E82
E_75_284	E284
E_766_183	E183
E_214_230	E230
E_214_346	E346
E_214_305	E305
E_75_287	E287
E_954_260	E260
E_662_366	E366
E_214_324	E324
E_214_178	E178
E_766_37	E37
E_75_254	E254
E_766_144	E144
E_322_322	E322
E_954_378	E378
E_766_43	E43
E_75_349	E349
E_340_400	E400
E_214_244	E244
E_766_263	E263
E_766_79	E79
E_340_99	E99
E_214_359	E359
E_75_346	E346
E_827_321	E321
E_214_9	E9
E_214_395	E395
E_14_21	E21
E_214_90	E90
E_587_38	E38

E-series-data

E_214_321	E321
E_340_33	E33
E_954_328	E328
E_75_174	E174
E_214_372	E372
E_340_13	E13
E_340_127	E127
E_214_56	E56
E_766_194	E194
E_954_98	E98
E_214_141	E141
E_640_35	E35
E_214_181	E181
E_640_259	E259
E_84_7	E7
E_214_353	E353
E_14_153	E153
E_69_388	E388
E_340_349	E349
E_340_357	E357
E_75_286	E286
E_75_165	E165
E_827_182	E182
E_214_20	E20
E_340_201	E201
E_75_214	E214
E_340_110	E110
E_340_70	E70
E_14_35	E35
E_75_238	E238
E_214_251	E251
E_587_269	E269
E_901_1	E1
E_56_118	E118
E_664_301	E301
E_340_124	E124
E_827_252	E252
E_75_104	E104
E_340_158	E158
E_640_268	E268
E_827_145	E145
E_827_59	E59
E_75_124	E124
E_214_50	E50
E_75_61	E61
E_827_103	E103
E_75_301	E301
E_340_260	E260
E_640_79	E79
E_766_240	E240
E_340_290	E290
E_14_83	E83
E_523_354	E354

E-series-data

E_75_85	E85
E_75_241	E241
E_340_354	E354
E_587_320	E320
E_587_197	E197
E_340_168	E168
E_340_369	E369
E_14_398	E398
E_587_119	E119
E_827_311	E311
E_954_338	E338
E_340_246	E246
E_587_51	E51
E_75_128	E128
E_75_42	E42
E_75_18	E18
E_75_27	E27
E_340_163	E163
E_340_306	E306
E_84_393	E393
E_413_82	E82
E_340_128	E128
E_340_358	E358
E_815_220	E220
E_340_272	E272
E_901_391	E391
E_567_364	E364
E_69_63	E63
E_340_111	E111
E_413_259	E259
E_340_87	E87
E_121_155	E155
E_68_156	E156
E_587_329	E329
E_827_37	E37
E_587_155	E155
E_677_51	E51
E_523_76	E76
E_827_352	E352
E_75_306	E306
E_75_283	E283
E_75_162	E162
E_340_211	E211
E_75_400	E400
E_792_139	E139
E_965_154	E154
E_541_143	E143
E_601_328	E328
E_275_379	E379
E_340_154	E154
E_413_329	E329
E_340_233	E233
E_75_344	E344

E-series-data

E_523_258	E258
E_587_227	E227
E_75_258	E258
E_901_48	E48
E_664_50	E50
E_954_123	E123
E_75_186	E186
E_56_312	E312
E_301_297	E297
E_523_298	E298
E_98_66	E66
E_640_349	E349
E_716_96	E96
E_301_350	E350
E_340_47	E47
E_413_40	E40
E_14_367	E367
E_820_11	E11
E_413_252	E252
E_523_375	E375
E_340_68	E68
E_56_46	E46
E_664_363	E363
E_275_270	E270
E_413_126	E126
E_413_231	E231
E_275_268	E268
E_84_286	E286
E_413_99	E99
E_84_278	E278
E_84_274	E274
E_84_89	E89
E_84_296	E296
E_84_74	E74
E_413_170	E170
E_640_305	E305
E_413_214	E214
E_413_61	E61
E_84_159	E159
E_901_165	E165
E_84_97	E97
E_84_120	E120

E-series-data

sequence

AEVKEVTIKEDKTKVKINITVNTSASASWEEKSPTTTSSSSLELPSTKTTFEKEFEVGETVEIEIKEKEKFSTTVTVTTKTPTTT
AEVTEETEEENKEKVKNVTLNTNSSASWTKKSATTTETSSSLTFPATSTTFTKEMEYGETITITEESTETFTTTTVTTKTATK
ATVTTTTTTVDNEKVVKIKIKISMSASWSTKSPTTESSSHLEFPFEFEFEFEKEMEYGETIEIEIKREEEFDTTTVTVTTKTPTET
AEVKEEVENVENKKVKVNITIKTKASVSWEKKSKTKTTSSSELNFPETEETFTKEFKIGETIEINIEKEEFETTVMVTTKTPTET
MEVKEEVEEKKEETVVINITININASVSWEKKSPTEETESSSLEFPKTKNFKKEFKYGEEIEINENLEESFEATVKVTTKTPTET
AEVKEETEEKEEKTVVINVTINTSLSASWRKKSPTTTSSSSLNFPSTTTNITKEMKIGETVEINIENEEKFETTVMVTTKTPTTT
AEVTEEVTEEDKENVKVNVNTINTKASASKVKSETEESSHLEFPATTENFTKEFKVGETVNINVSKEEFATVEVTTKTPT
ATVTTETETTNNLVKINITINTNLSASWEKTSPTSTSTSSYNFPSTTETITKTMKIGETIEININKSESFSKVTVTPTTTTPTTTT
ATVTEETEEINEEKVKLNITVNIKASASWTKKSPTKTSSSSLDPEKFTTREVFEIGEVELEIELEEEFSTTVTVTTKTPTKT
SVVKETVEKEDIEEKRNFNTVNFNASSTASGTTTSGTALTQTTFAPTTKTETVTVPEGETKTLTWTDRSATYFTLNGK
AKVTKETTEINKEKVVLKITFKTEASASWKKKSPTKTSSSKLEFPKKEETVTKFNVGEEIEIEIEYKEEFETEVTVTTKPTKT
ATVTEETTTTNNTTYKLVNTVNTLSASWEEKSPTTESSSKLDFPKSTEFKEFKVGGEEIEIERKESFETEVEVTTKTPTK
SMVTKETKEIKETKTFNVTVNNTASSEAGYTKDGTKLTTITTNFPATTTTTVTIAPGETKTLTWTENWTQYTFTLTGKT
AEVKYEVKEEKKKIKVNITINNVNASATVTNADGTTSSSTSVSSSAESEETYEREKSDETLEVEYEEASFTLVSGVTNIN
ENVTYVTNKEEKHVTKYNVTLNFNSSSESEGWLKDGTPIEKKHLEFPATTRTETVTVPEGETKTLTWTDERAKFTFKVDG
ATVTEVTIENNNNTVENVNTINVTASFEGKFKGKKNLTLTAPELSDTKEYTQTLTGNEAAQKAADFADKLEKEKIELAKKLAL
AVVTEETTEEDKLKVKLIITVNISAEASWKKESETKTETSSLKFPETFTTEEKEFEIGEIEELKIEKEEFATVTVTTKPTKET
MEVEEEVEKEEKEKVKNVTFTNLSASWTKTSATTTSTSSLNFPSTTETREKEFEYGETVTNLNRSSESFTTTTVTTTTAT
SMVEENTEEINEEKKRNFNTVNFTQTSSSSGLADGTALTQTNTNPATTTTATVEVKPGETVTLTWTNTATNTFTFEVNGK
MEIEYETETENENILVENVTNNSKASYEGTWKGKDKDYKLTAPELSSTSSSETKTYKGNVEEEKAADFDELKEKKIKTAKDLL
MKVKEEVTEENELKVKINITVNTSLSYSETTKSATTTTTSSYTFPEKTETFEKEFKVGETVEINIERTEEFDATVTVTTKATTT
PEIKYEEEEYEEKKIVKINKKKNLKKEESVSYQKKGKEEKTESKEEESESEEESEFENLEEIKELLKKEFEKKKVKKEEFEE
AEVKTETTNNNNVEKLVNTIKNTASYKGTGKGDKEYEFTAPELSDEKSYEKTFTGNKEEKKKKFEELKKEARENALKLL
MEVKEEVEEKKKTKVNITVNTNSSVSFEKKSPTTTSSSSLNFPSTTETFTKTMKIGETLNLNISESFTTSVTVTTKPTT
MEVKEETIEEEKDNKTYTVNTNASASASGTTADGTALTQTTFNPAETTTTTTVTVAPGETVTLTWTSSRTATFTFTLNGQ
SSVTHETEEKKEKKVEFNTVNFNASSSFGTLDGTAVTTQTTFPATSTTTTVTVPEGETKTLTWTQSQSYTYTLTVNG
SNVTEVTEKEDIEKTEFNTVNFNASSSASGVDTSALTTTTTNFPSTTSTTTTVTVPEGETKTLTWTQNTATYFTKNGK
MTVTVETTEENNTIKKLNRNTINVKASFEGEFKGDYKFTAPELSDTFNEEKLTVGDDEEKKKKLDEELKKKAIEKAKKLL
MKITYETEKEEKLKIKKEKITKTKNVSETRDGETKEEPKDEVKEEEEEEKEEEMEVESELEAEKKLKEKKEELKEFEKEEF
AKVEYETKEENIKKIKLVNTINYTTASATVTSASGATASASTSSSSSSSEYEREESDETVKLSTNSSSTTLTVAGVTVIS
GSVTEETEEEDKNTENVTINFNASSSFGWLSSGTALTQTTFPATSTTTTETVTIEAGETKTLTWTDSRSATFTLTVNGA
MKVKVEVEVEEKKTTFNTVNFNSTSTSSGTTSGTALTTTTTTFAATTKTETVEVKEGETKELTWTQNTQTYFTSNGK
MKVTKNTTTTINNTKVKVNITININASVSWTKKSATTTSSSSLTLPSTSEFEKEMEIGEIEIEENFSEFTTTTVTTKTPTTT
ATVTHVTINNNNTKLVLNRTTRTRASWEGTYKGATADYFTAPELSDERSETQTLTGDIAEQKAALDARLTAEERARARALL
ATVTTTEVTNDNETVKVNVNINTNASVSWEKKSPTESRESSYNFPSTNKSFTKTMKYGETINLNINENTTFNAKVTVTTKTPT
KKVKKITIEIEEKEEKEIKFDVNTNANSSVSASKTSTSTTATANFNKTNLKGETKKEEKESEETLSDGTKIKKKEEKENKDE
MEIKEETEEINKLKLKINTKTITNTNFSVSFTSDGKTTVLPDIKETKESSEEEYEVSEEEAEKKLKEYREELKKEFEKEVEE
ATVTTNTTTNNNTKVTLNITIKYEASASWEKESKTTTSSSHYDFPEWEENFTKEFEVGETVELEIEKEEFEDTVTVTTKTPT
MEVKEETENVDEEKEKLNTTINVTANFSGTFKGDRLTLTAPSLSDTFSEEKFTGDKEKKKAEFKRLKKFAIEKAVNLAI
GEVEEEEIKNEKKIACLNTTNTNNSVLSVQFEGGPAVSVSASSSSSSSSSEFEFESLEEIHDKLNKDFEDQNKQKQANF
MDVKEETTTTNTTTTTFNVTNLFNASSTSESYLKDGTKLKTITKTFTTTTTTATVAAGETVTLTATKSYSATFTFEYNGKY
AEVTEETEEKEETVKKINITVVLKASLEWEKKGPTTTSSSSYEFPEKEFKETKEMKIGETIEIEIEEEEFETTVMVTTKTPTET
AEVTNTTTTNTTETVKLVNTVNTNASASWEKKSATTTTTSSSLTFPATSTSTKTFKYGETVTETKNLSTSFSTTVTVTTKTPT
MEKKEKVEEEEIKKAKLETTTNTNNSVLSYKKKGKKEVSISSSSSSSSSSSSEFEYESKEEIEKLLIDDFNKEKEELKKKFEF
MNVKEEVEEIEENKTVFNTINFNASSKAEGELADGTKLTTITDFPATTTTQTVEVEPGETKTLTWTQSQSATFTFTVDGKT
MTVTTTTINENKNILKIKVKTKVKASFSGTFKGDRLVLTAPELEDEFEEETLEGNIIEEDLEKLKKELEKKKIEKAKELLKS
ASVTYKTEEKNEEEIKFNITFEENEEEESESIGGAKLDYKLVKTEIEIEKEEDGKLTTITRTVTVETPGKTAECTSTDKLTISKD
SSVTYETNTVENDETTFNVTNLFNASSSSESYSYGDTGKIKTITTNFAATTKTETFTVAAGETVTLTWTQSYSQTFHTLNGK
MEVEEETEEIEEEKKTFNVTNFTATSSASGTTADGTALKSITTTFPATTKTETVEVKEGETKTLTWTDRSQTYFTLNGKT
MEIKEITEKEDIEETEINITENTTTSSSEETLPGADPALKADVTLTVTTSFEVVEKTPDKIVLKYTVTLTLTLNNGKTASASASA
SNVTTVTNNTKNNTKYNVTLNFTASSEAEGLDGTGKIKKETKDFPATTTTTTVTVAPGETKTLTETKTASDTFTFEVDGKT
MKVTYETEKKDIKETNVNVTINTNSSGEGKGNKVTVDGKEVELKVSATASVSASVTKIEIKETDNTITITLTLTVTANITVKHED

E-series-data

TTTTYETTNVNNNTTEFNNTTVNFNASAKSESYTKDGTKITTKETTFPATTTSTTSTVAAGETVTQTWTDNRTATFEHELDGK
AEVTEETETEEKHIAKLNTTTTKTKSVSLSVQKKGKKEKTISASSESSSSSSSEFEYDSDEEIKKKLLDDFEELKAKIRAEFAA
MKITEVVEEVDRLRLRIRTTTTNTTTSRSTVSDGVETVEDTATTTTATATAEEEREVASEEEEAEALLEAHEAAQQAFAAAV
MEITEKTETIEEKVEKINTTINSTASYKGYKGKDRDLTLTAPSKSSSTSSETKTLEGDKAEKKAADFDELTEKAINAKQLALD
MNVTEITENKENTNTVYNVTVTFFSSSSSAEGLVADGKLTINTTTFPETTETQTVTVKPGETKTLTWTKSNTQTYTFTVNGK
AEVTHNTTNNNLHNAKLEKTTKTEVSASLTVQKAGKAAVSVSASASGESSSSSTFSYSSLEEIKEKLKDFEEKKKLEEEF
MEIEEVVEEKIEHKAVFKETKKTENEVSYSYQKKGKKEVKVSAKTSSSSSSSESEFEYESKEEIKEKLIEEFKKLKEEVEEEFK
MEVKEETEKIEEEKTEFNVTNFTASSYSYSGTDTSGNAITTTTTTFAATTKTTTVEVEEGETKTLTWTDRSQFTFTQTVNGK
AEVTEKTINEEKETVKVNITFNINLSVSWEKKSETETTSASLNFPSTYNNVEKEFEYEGEEIEININYSSESFTTVTVTKTPTEE
MKITYKTNYIDKLNKINTTTNTKTTRSRLSDGRLVEEPVDDVVTSTSSSTEEMEVESLEEAEELKKKLEEQKAAFEAENE
EKVEKITEKEEKTEFTFNVTNLFNASSSSSGTLEDGTLPLTTQTVNFPATTKSTTVTVKPGETKTLTWTETRSATFTFTVNGK
MEIKEVVEEIEEFVNLNLTINTSSSSASATVTNPDSGPLTVSASTSLSYSYKIERLPDGTIKITLTITVTVSGTASYQENPNT
SSVTEETETINETKKVFNTVNTNASSSYSSTLASGTAITTTQTTTFASTTSSSTVEVEEGETKTLTWTDSRSQFTFTQTVDGK
MEIKEETEEINETNVKLNININLSTSTATATVTSASDGALTATTSTSASVSLKIEKNEDGTIEITLTTLTVTGATATATQNPSTT
MNLKKEVTEENIKENKLEEEEEEEEEEEEEKSNKSKEEILKEIEKEKEELLKKLKEEGFEEIEVEEKESEDGTKEIKIKATKPNK
SSVTTNTNEKDITETIEYVTLTSSASSSSSSTLADGTAVTTTTTTFPEKTKTEKVKVPGETKTLTWTDSQSATFTHTVNGK
ATITENTEEKENEELEINITYNNYKKEEEERLPGALPDLKVKVEVKIEISTELVEKTPDITYKFKIKIKVKLKMELNGKKAEEAE
SMVTEEEEVKNENYELNITYTTSTSGKGESIGDGPLKVNVTVSVSTSTTNTTEKTPDEKITVNITATATATATITLKIDGKT
MEVKIEVEEKKKNIKLNRLNTNTSDSVSVKFKGKKEVSVSSSSSSSSSSSEFEYDSLEEIHMLKADFEAEKAKIEAELD
MKVKYKEKKEEKKKVKLEKTTKTNNSVSVTVQFKGKAAVTASASSSSSSSSSSSEFEAEKKEEIKKLLKEDFEKENKKIEEF
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MEVKKETTTVNNTTTVENVTVNTTAEFKKGKWKGEEDLEFKAPKLSSTSTTKTYTANTAAQKAADTAALTAQEAQAKELA
MNIKYNVEEIDEEKIEFNVKFNKSKSEKSEGGAKLEYEIKTEYSIEKKEEDGTLTIKTRKVTVKTPGAEEKEESTDTIKINK
SSVEYETKEKNETKTTFNVTNFTASSTASGTLTDGTALTTITTTFPATTKTETVEIAPGETKTLTWTQNSQTYTFTVDGKT
MKVEYEEKKEEIKKVVLNKKTNNTNNSKSVSYKKEGKEEKSEKSSSSSSSESSEFEVESLEEIKELLKKEFEEMKKEAEEEF
ATVTTNTTNINNTITEINVTINVKASFEGKIHTKEKDYLTAPELEDKKSYYKTLTGDEEEKKAEFEKKLEEEKIERAKKLLDES
AKVEYEEEEENIKKAKLKTNTNLNASVSVSFKKKGKKEVSASASGSSSSSSSESEFEYETDEEIWKKLEDDFAAEKAAIDAFA
MKVTYETKEEETIAKFNTNTNTNNSVSVSYQKEGKAEVKTSSSSSSSSSSSEFEVETKEEWNKLENDFNNTINNTNAEF
MKIKKETEKEEKEEYKINITENTTESTSEERLPGADPALKATVTLTVTTSYSIVKKTDPSELKINTTVTLTLTLNGKTATATAS
ATVTHVTTNNNLNTNKNELNVTTNVKASTKGKWKGKDKDLEFTAPELEDSSSKTKTFTGDEEAQLAAFEKELKEERRKKAKEL
AEVKTETTTTNNENTTFNVTNFSASSSSSGTKTDGTALTTQNTTFPATTTQTTTVTVAPGETKTLTWTQNSQFTFTFLDGH
MEVKYEVIEEEIEKTNVNITINTTASGEGKGNDEVDGKKVTLEVNASVTASVKEIKIEKKDNILKITITLEINVTVTVSVKDY
SKITNKTNNINNENNVNNEKKVKGKGEGKAKGKNEDGKWTGKLDLKAEEAEINGKKIKVKYEAASFVTVKDEETGEITVE
ETVTNVTNNKNITENEENTTINLKTSGEGEKLPNSTKEAKAEVKDVEIEIEEEDGKVKVKVKTVTVTTTDGETKELTMEGEA
MEMKEETEEKNITENQNTITVHTGSATTSASYNEETGELTVTTSTSLSSSVSVTKDPKDLTVSTTTSSSSSSSSSEERET
GEVKEKVEEIEIKKAKLKTNTNTNNSVSVSVQRAGEATVTTSTSSSSSSSSSEEFYETDEEIEKKLEDKFNATNAATAAEF
ADVKEETTNDKIENNTFNVTNFSASSSSSESVGGATLEYTLTVNREIKKEEKDGTITINTTVTVTPGATAEKTSTDTLTIK
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AKVTEEVEEVKETEEVELNLTFTNTTSSSAEAKVTDASDGPLTVSASASISYSYIEKENEDGTITITITITVTVTGATDKEDADT
MDVKEETEEKDEENYKFNITFNTNTSSSSTSIGGAKLDYTLTTTTITKEETDGKLTITITTTVTVTAGATKTATGTDITIDK
MEIEEEVEEIEENEELEFNITFNESESESVGGATLEYTLTVERSIEKKFEDGELTITITEKVTLTAAGATKTERTNKLKIEE
MKVTNKTINKNNTTTVLNTTNTTASFGKYIGKDKDLELKAPSLSSSSSSSTQFTGTGNTADKAAATAAQTAARNTAFALAI
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AEVTEETTTNTNTIKKLEVTNNVKASFEGEFKGPEKDLKLTAPELEDTFEETKEFEDEEEQKKKFEELKKKEIEKAKELFLI
MEVKEEEEEEDIEELEFNVTYNYSESESSRSIGGALEYELEVEETKIETEEKDGTITITTTTVKVTPGAEEKEATGTDKITINK
MEITEETKKEEKITELNVTNTTASFGKTIKTEKDYLTAPELSTSSAKKTFVGDEAEKKAFAFEKELKKKTLDTAKNLLLE
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MEIKEKTINENITNIEININYNLNTSSASATVTSAADGALTVTSSASSSYSYIEKNEDGTIIKLTLTSTGTTTATYTETPSTTA
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MKVEIEVKEENKKIAKLNTNTNKSVSVSVKKKGKKEVTVSASSSSSSSSSEFEYDSLEEIKERLKEDFKKTEKEKKEEF
MTITENTTVNNNENYEINITINTNESKEEERLPGALPELKVEVKVEVNLSSVVEKTPDSLKLQINVNVKLTCLKNGKEAKAEAS
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MEIKKETKEEKKETLVNNTTINSTASWEGEWKGKDKDLTFTAPELSSSSSSTKTLEGDVAEKKAEDFKELKKTAIETARALL
ATTTTTTTTTNNTVKTVNTTTNVNASWKGWKGATKDLTFTAPKLSDTSTETLTGTNEEDLAKKEKELEKKKETAWKLL
MEVKEETINKNINIAKLNTTTNVNVSQVEGGEEVTTSTWSGSSSSSSTFEYKTKEEIKQKLLDQFKAKEAAVKAFA
MKVTHETKEIEKEETKVNISINTKSEGESEGEVEIDGEEKTLEVEAKLEVSASVDSVSIKKDNTINITITLSIKVKVTVSHKDY
MTVKKETKEIEKEETNVNITINTTSSGEGESNDVTVDGKKKTLEVDSTLSVSASVSSINITKENNTITITITLNLNITVSHKDY
MEVKEEVEKEDKHIANLNTTTNTNNSKSLTVKVEGGDAVSVSTSSSSSSSSSSSFEYSTLEEIKQKLLDDFNNLKAQLSAEF
AEVKEETEKEDKKIAKLNTTTNNNSVSVSVQVEGGPEVTVSASSSGSSSSSSSEFEVKTKEEIKELKKDFDELKAKLQKEF
MEIKEEVEEEDIEETNINITVNETTSESEERLPGANPDLKAEVTLLELSFSIVNQTPDTIELQINATLSLTLKNGKTASATASA
EKVEYETEEENKEEIEVNVNTINTTSSGTGNGNKVTVDGKEKLLKVNATASVSASVDNIEIKKENNTITITITLTINVNITISHTDY
ANITTKTNINKTNLKNITYEYESSSSESIGGAVLDYKLEVKRKIEKKTENGTLTITITTTVTVTTPGATKTKGTDTLTINSD
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MEVKLEVEEKNITTAVLNTTTNTNNSVSVSVQKKGKDTVTTSTSSSSSSSSSSTFEVETLEEIKEKLLKDFEELKAKVKAEFQ
MKVEYKTIEKEIEETKVNITITTNSGEGKGNEVEIDGKKVKLEVKAEASVSASVTSVEIEEEDNTLKITITLNLTVNITVSIVDK
ATVTNVTINTNNTITVENVTNTTANFKGEIKTKKKDYKLEAPLSSTSSATFTFTGDAAQKAKETAARTAAATATARDLLE
MEVTEKITNKNKEITELEVTTNSTASFSGTWIGPTKNYFTAPSLSTSEKKATFEGDIEEKKEELEKELTEEQINTAKNLLLES
MEIKYITENIENTVTTVNTTTNTRASFSGTFKGATKDLTFTAPELSSSTSTTQTLTGDAVAAQQAALDAAQTAAARATARELLA
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MEIEYEEEEEKHHIAKLNTTTNTNSVSVTVEVEGGAPVSASASSSSSSSSSSEFEYDSLEEIKNKLKEDFKKTKEELEKKFK
MEVKEETEEEDKHVKLNNTTNLNSASVSYQKEGKEPVTISTSTSGSSSSSSSEFEYESWEEIKQKLLDDFNAEKAQAA
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MEIKHEVEEIEEKEEKEEETVTEQTTTSKSESLEKENGKYKITATVTLPLKAEVGGKTAEVPVTKTVTKEISEDEDKEVEEE
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PEVEYEEIEKEEKIAKLNTTTNTNKSQVEGGKEGKEKVSASSSSSSSSSSEFEVESLEEIKELKKKEFEKKKKELKKEFE
MELTHETIEIEKEEKEEVKETVTENESEHKGESESSPDGTLKLSLKEVELTINGETLKIKEYVKELTYTKDGTVEKREKTITV
ASVTHEVTEKKENVNLTINYSLVSAEAVDEDGKPIEAKFEFKVEIETKTSSTEETDGTKTWTYKVEIKIELENVLEVDG
MEVKHETKEIEKEEKEINVKITTTSSGTGKSNKVTNNGEETLSVTATASISAAVEKIELKEEDNKLITITLTITTTITVSVTDY
MEVKEKTIEIEEEEFNVTFNETRSEERESVGGAVLDYELVKREIEKEETDGTLTITITRTTLRTPGATAEATSTDLTITK
MKIKNKTINKNIKETNINITINTTSSGEGESNDVTVDGKKVTLSTATASVSASVSNIEITEENNINIKITLNTVNVTVAHDKP
AKVTENTTEENNENKTENTTLNNTNNSYELSASIDPKNRTITVEVKGGGTVSYEKAPSGDSTVVELPTGEKRTYKLSEGL
STVTHRTTNVNINNEETEVEEKEEKEEKELEFKEPGKHTIKLEAEATLTYTDAATGKTYAKLKVKYKIEITYDKEKGEIEV
AEVTEETTEVDEEKYEFEITYNYSRSEERSVGGARLEYELEIERIEKEEEDGTLTITIKTKVRVRAPGAEEAEAGDTLTIN
AEVTEVTNTNNNNIKVENTTVNVTASWKGEGKPDKDLTFTAPELSDTFSETKTLTGDEEAEKAKLKEELEKKMIEKAKQLL
MEIKTETTNNENKTITKVNTTNSTASFSGEIKTPKDLTFTAPELSDTSTTATLTGDEAAQKAALDATTTEAITAKNLALAS
ATVTETTNTIDKTITKVNTTNSTASFSGEIKTPKDLTFTAPELSDTSTTATLTGDEAAQKAALDATTTEAITAKNLALAS
MEIEEVEIEKENKIAKLNTTNNTNNSVSVSVQFKGKKPVSVSASSSSSSSSSSEFEVENLEDIKNKLNDFEEKKKVEEEFK
ATVTEVTTTTNETKTVVNTTTNVTASFSGEYKGDYTLTFTAPELSDTSTTQTLTGDAQAKLEAELKKKERETAKKLL
MKVKKVTTEKDIEETKEITTLRTASGTGTATVGKTTTTTSTTTVTNTTEKTPGSESTSSSSSTTTTSTTVTASATKEGS
ATVTTKTVKENITENKLTETTNTSNSSSEDYFELSDEEKTFTLTVTVTIDGHTITATATVTLKLEGGKLVNVTKTDAAEAKKE
SSVTYETTVEDIEKEELNITFNAKEEGEGKSETSNKGTVEAKAEAKVNLDTTIKKLSENTYEITLVEFTFETDGKKKTEKVT
MKITTKTNKNINNETNVTTEKKATGEGKGKGKAGEKATAEAKATLEIDGKYTLTKVEVKLNPGSGEIEEKEISVEKESK
KKVTEKVEKEEIEENETETTTKTATGEGGTANEATGETGTATATATVTGKFTVTLTLTLKQEAGKVTISKATSVKVETPT
MEIKYEEEEKENKHHIAKLNTTKNTNNSVSVSVQFEGKEEVSASSSSSSSSSSEFEYKNKEEIEELLKKKFEEYAKIEEKF
MEITEKTIEEDKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEEKEE
AEMKEKTIEEKKIAKLNTTTNTNSLSYQKKGKPKVSVSISSSSSSSSSSSEFEFESKEEIKQKLLDEFEEQKKKVEEEFK
MEVKEETITKNETKLKVNVTNTNASFSGYKGPADYVLTAPSLSTSTSTKTFTGNIEEELAKFNEEQKKETRATAKALA

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ATTTYKTTEINEKKEEKNVKTENEEKEEELEVKEKGKITINLELEAEATLEYKDEETGKTTKVKLKVHKIKINYDNKNNTIEVE
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AVTHTTTTTVTNTNTVTETTNNENENSSLENLEVKDPGKITINLSLNASNTLEYTDAASGKTYKAKLEVEYNINITYDNETGTIEK
ATTINVTINENITENKTNETVNEKEGEGEGEGEGETDADGKTLELTVTLGDGTTIKVTLERDGGKITVKIEIEGKTLFEFEIEGEE
MEVKKEVTKENKTNTTVNVTVNTTSSSTASATVSDASDGALTATTSTSSSVSTTTTNPDGTITITLTITATTTATASYTQDA
AEVTYETTEIKKTENKLNVTVRFGFAVSFDKFKVCPDGTVTLKLTCKMTIYNPKTGKVIDTIDTTITIKKKDGKYTYTATDTY
SSVKTNTINKNITENKENVTLNTESSGEGEGKTVNGRTIVATATLSSSASYDASTKTLTVTNKIKVSVEDVNTGVKLPERTLE
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MKIEKKTIEKNEKEEKNETTTTETSESESKSLKEENGKYSVTATVSLPALATATVDGKTATQAAVTEEKTVEVDENEKEDVE
MEITLETEEKDIEERKINITENTNTSSSEETLPGADPELKVEVTTTNTSTEIVKETPDKLEIKITTSVSLTLTLNGKTASASAG
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AEVTYVENVENKNIACLNTTTKTNNNSVSVSVQFEGGEPVLSASSSSSSSSSEFEYDSDEEIKQKLKDEFDAEKAKIEAEF
MEIEEETIEKKIEKKKKETTINTTSSGSGSQLPGSTKTATATITTLNLTLTETGGTLTVTATVTVTVTLSDGTTKLTATGTATA
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MKITHKTNEINKTENTNTTTEKTEKESFSVSLEKENGKYKVEVEVELPPLTVTVDGKLTVPVAVKKKKKYEIDENEKEDKEE
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MNLTENTTTVNETKETTNTTVEEKEEKEKEIGNKSKEEIEKEIKKELEELKKLKEEGYKNIEFKEEKEEDGTIKYIKIAEAPDE
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MKVTYETTTNNNTNVNINTTYNTTSSSASATVSNPSDGAVTATASTSISYSSTSETNSNGTTVTTITITVTVGTASYTENPT
ATITEVTTNINNTENVNTTTTSTTESTSFSVSLEKENGKYKITATVSLPALATATVDGQTLTVPKTKTLTKTISESEKEDVEEEK
MEIEEEVEEEDIEKEETNETTTTTTTSFVSLEEDVGKYKVTNTVSLPALATATVGKKTATVPAKTYTETYTVDKSLTEDVEK
MNVTYNTTNINNTNNNVNNTNEKKKEKKEESNLSFEEIEEIEKKEIEEELKKLKEEGFEEIEFEEEEEPDGTGKKYKIEAKAEN
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TDLTVETTNVNNTNKEEKTTEEKESKSKEEGNKSKEEIEKELKEEIEKLLKELKEKGYEKIEVKEEESDGTGKKIEIAKAKD
MNLKTETTNEIDIKETKEIVEKNEEKSEEEKGNRTEEEILAELEEEIAKLLEELKKEGFETIEYKEEEDGTGKKIYIEAKAPDK

E-series-data

AF2_plddt	ESMFold_plddt	1nm/ns SMD Force (pN)	0.1nm/ns SMD Force (pN)
93.02214286	89.94897959	2294.213333	2044.778667
93.03637755	90.14336735	2280.117333	2037.557333
90.66770408	89.27556122	2229.109333	1955.059467
92.83117347	89.97760204	2486.096	1869.957333
92.70346939	90.25392857	2547.04	2017.050667
92.90127551	87.02494898	2230.293333	1896.88
93.26969388	90.05061224	2267.749333	1891.168
93.25632653	87.46377551	2270.384	1905.728
93.83270408	90.70959184	2337.152	1961.077333
93.45053476	89.96625668	2137.872	1879.674667
92.61168367	89.71959184	2471.946667	1953.066667
93.42872449	89.89566327	2190.821333	1914.005333
93.09074866	86.64417112	2136.362667	1892.741333
93.562	90.50383333	2377.341333	1897.792
93.31251337	90.02347594	2232.384	1926.64
92.70234375	87.818125	2418.165333	1946.626667
90.09178571	86.29438776	2239.578667	1823.382733
90.02637755	86.49321429	2230.138667	1801.1332
90.90791444	85.22893048	2219.274667	1815.12
92.15348958	89.49661458	2202.938667	1751.178667
91.94214286	87.53153061	2202.677333	1722.773333
92.10544041	86.12445596	2201.824	1514.2
92.175	90.66765625	2198.288	1629.568
90.28571429	86.43479592	2193.744	1797.591867
90.47481283	82.16016043	2179.461333	1812.096
92.8702139	90.1740107	2176.266667	1682.517333
92.51818182	88.24294118	2173.568	1622.386133
90.12598958	87.37317708	2154.576	1525.352533
91.07434783	91.79792271	2149.781333	1660.88
91.52127778	86.32238889	2139.264	1746.403
92.1457754	88.48625668	2133.418667	1718.661333
90.9784492	86.05010695	2127.904	1605.598933
92.25372449	90.90020408	2126.890667	1852.216933
90.74729167	89.42453125	2116.336	1706.606933
91.62244898	81.22831633	2108.592	1600.442667
90.27976415	80.28056604	2105.808	1763.866667
90.01985507	85.61169082	2105.552	1706.256
90.80989796	88.76739796	2101.685333	1806.026667
93.38302083	88.87723958	2099.626667	1820.021333
92.2484456	89.64968912	2098.112	1584.425067
91.60465241	89.06074866	2096.965333	
90.86	89.03653061	2094.549333	
92.51020408	87.49423469	2087.109333	
92.25020725	86.15839378	2086.608	
92.07657754	86.69272727	2085.994667	
90.54229167	88.46286458	2082.544	
90.78204819	88.66686747	2078.389333	
93.43315508	89.84219251	2077.685333	
91.96636364	86.42545455	2074.954667	
90.95505556	84.06105556	2074.853333	
91.03941176	89.04197861	2070.848	
90.94429293	89.04116162	2065.530667	

E-series-data

91.08914439	87.9331016	2059.162667
91.38673575	88.56626943	2057.264
90.14603865	85.39637681	2050.704
90.3640625	85.49494792	2048.848
91.91919786	88.55877005	2040.277333
92.20564767	87.60248705	2034.410667
90.67601036	87.20010363	2034.197333
92.0873262	88.44855615	2029.445333
92.51362245	89.49668367	2023.610667
90.167343	87.13111111	2023.221333
92.30010695	87.97449198	2021.434667
91.91737374	89.24550505	2018.346667
90.43106952	89.4313369	2017.530667
92.15186869	82.64454545	2009.184
91.70751515	87.79284848	2001.866667
91.13668449	87.84449198	1997.936
90.37277778	86.30727778	1976.741333
90.39774869	86.46670157	1976.437333
92.2484456	89.33409326	1972.117333
91.29958549	87.07782383	1969.066667
91.14739583	87.12364583	1968.090667
91.678125	87.02520833	1968.021333
91.04891566	83.70138554	1963.424
91.5915508	86.96588235	1963.104
91.19834197	87.61248705	1961.829333
90.36541667	89.9284375	1958.128
92.17378238	90.12632124	1954.784
91.71300518	87.11129534	1954.554667
91.05155556	86.37005556	1951.690667
91.71151042	87.0534375	1945.466667
91.34064171	85.50518717	1942.576
90.76146465	87.95277778	1941.226667
90.46320755	89.83646226	1939.424
90.18865285	80.61533679	1934.805333
91.85743719	90.51844221	1934.496
91.24839378	89.65487047	1930.826667
91.29108434	87.2503012	1928.282667
90.78291667	85.4415625	1927.141333
92.60253886	89.79590674	1926.570667
90.39378788	85.90646465	1926.485333
90.23391566	85.0260241	1925.04
90.94066265	88.13084337	1924.416
90.37713542	88.96046875	1923.712
91.11636364	90.4084492	1923.504
90.099375	86.78880208	1920.677333
90.99753012	88.54837349	1916.208
90.06588542	87.95432292	1909.568
92.35937824	86.11062176	1908.058667
90.62833333	83.14762626	1906.314667
90.93372449	86.21785714	1900.869333
91.21409326	88.68989637	1899.893333
90.2735	81.29194444	1895.829333
91.55944444	88.51572222	1888.901333

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91.51911458	85.55911458	1887.696
92.45880208	87.91098958	1886.645333
92.45414508	90.68139896	1886.538667
91.18247475	84.49585859	1886.197333
91.15924242	84.26742424	1881.562667
91.17217617	86.55331606	1880.597333
91.70523316	88.63559585	1879.792
90.50261111	86.28988889	1876.597333
91.14732323	88.27434343	1870.277333
90.38572289	88.945	1870.128
90.27922705	86.7621256	1868.874667
90.74632124	86.15523316	1867.653333
91.2269697	84.23722222	1867.322667
90.33276042	86.52390625	1865.184
90.04927083	85.7265625	1863.722667
90.73515625	86.75046875	1862.858667
90.46354167	86.94208333	1862.698667
90.49450777	87.98943005	1862.330667
91.36549223	87.3680829	1861.701333
90.62745455	88.30636364	1859.669333
91.39734043	85.81420213	1857.893333
91.97419689	88.12751295	1855.717333
92.39435233	88.55134715	1841.269333
90.99444444	87.8805314	1840.32
92.36839378	87.86487047	1828.805333
91.97287736	89.18971698	1828.106667
90.42444444	85.55378788	1827.781333
90.54958115	89.36324607	1823.882667
90.85492228	88.58093264	1823.482667
91.37829787	85.78638298	1820.762667
90.73502591	87.48948187	1819.109333
90.33123153	87.25743842	1818.821333
91.10230366	85.95460733	1816.906667
90.94833333	86.24727273	1814.597333
90.32656627	86.99837349	1814.462933
91.11525253	81.75606061	1812.437333
90.24284314	85.66401961	1808.821333
90.00794444	88.39433333	1807.722667
90.33560241	86.93331325	1805.050667
90.36880208	85.38895833	1798.741333
91.36354167	86.30838542	1788.4
91.47286458	87.02598958	1780.704
91.3192228	87.5807772	1778.309333
90.83583333	88.454375	1778.102933
90.57213904	81.94737968	1776.053333
90.73497006	90.10167665	1774.282667
90.73699422	82.56601156	1772.2464
90.83349112	87.03065089	1771.883733
91.5823494	83.55042169	1771.674667
91.06487047	88.43419689	1769.253333
90.61797872	83.25234043	1764.725333
91.92036269	88.56119171	1761.136
91.05453125	90.44473958	1753.114667

E-series-data

90.38755556	85.93661111	1748.602667
91.47686869	85.09065657	1747.482667
92.6684375	86.86984375	1744.117333
91.1575	87.94330189	1742.826667
92.19763819	90.21226131	1740.597333
90.39729469	84.64468599	1736.405333
91.51458333	88.5671875	1733.013333
90.66264249	84.89611399	1731.514667
90.46333333	87.42770115	1730.405333
91.70594444	87.87811111	1724.539733
92.27528409	88.763125	1723.92
91.87919192	87.88520202	1722.016
90.05402844	86.30445498	1716.039467
90.77235632	86.17310345	1713.072
90.23590674	90.36036269	1713.024
90.48026596	85.52867021	1712.853333
90.23633333	86.39194444	1707.029333
90.96701493	89.50950249	1697.306667
91.08968085	84.70180851	1696.4544
90.01972222	86.37288889	1694.390933
91.22533679	86.65212435	1676.6944
90.61145078	86.75310881	1662.128
91.60326633	88.33125628	1660.48
90.0153012	82.3589759	1648.680533
92.00021277	84.64154255	1644.668267
90.92664894	84.31446809	1633.479467
90.13957831	80.78259036	1627.533867
91.92333333	88.58024242	1624.682133
90.17595745	84.77170213	1612.144
90.15909091	87.90345455	1610.8048
91.26884848	88.16939394	1608.525333
90.14551515	88.95545455	1606.176
91.20072727	88.56690909	1574.838933
91.38084848	87.4289697	1556.1296
91.03101064	85.53037234	1545.634667
90.36040404	87.40242424	1523.866667
91.0862766	84.04095745	1523.554133
91.34473404	86.98670213	1506.1584
90.86290909	87.10272727	1479.1504
90.01938679	89.77764151	1464.758933
90.40654545	89.33478788	1432.925867
90.94381818	89.78151515	1396.583467

E-series-data

RMSD of Annealing simulation (nm)	RMSD TOP8	Final selection (0.1ns/ns SMD criteria)
1.1014134	◆◆	◆◆
1.1055161	◆◆	◆◆
1.1058463	◆◆	
1.1193695	◆◆	
1.1521372	◆◆	◆◆
1.1582613	◆◆	
1.1746048	◆◆	
1.2300329	◆◆	
1.2385156		
1.2916268		
1.3153194		
1.3247758		
1.3292748		
1.3788788		
1.72061		
1.9968942		

F-series-data

full_name (series_structurF_sequence)	short_name
F_69_85	F_85
F_349_422	F_422
F_444_600	F_600
F_257_401	F_401
F_289_553	F_553
F_245_186	F_186
F_257_466	F_466
F_245_268	F_268
F_415_66	F_66
F_164_85	F_85
F_164_498	F_498
F_363_300	F_300
F_289_416	F_416
F_59_130	F_130
F_58_14	F_14
F_289_348	F_348
F_444_391	F_391
F_257_542	F_542
F_245_232	F_232
F_58_591	F_591
F_447_50	F_50
F_69_167	F_167
F_450_336	F_336
F_467_364	F_364
F_257_308	F_308
F_257_6	F_6
F_450_434	F_434
F_257_22	F_22
F_69_142	F_142
F_257_215	F_215
F_245_211	F_211
F_136_348	F_348
F_257_230	F_230
F_245_188	F_188
F_280_408	F_408
F_257_3	F_3
F_257_49	F_49
F_123_427	F_427
F_280_136	F_136
F_280_126	F_126
F_280_427	F_427
F_280_8	F_8
F_299_163	F_163
F_59_475	F_475
F_257_140	F_140
F_257_17	F_17
F_280_323	F_323
F_245_339	F_339
F_450_13	F_13
F_412_216	F_216
F_59_172	F_172
F_196_562	F_562

F-series-data

F_59_368	F_368
F_280_522	F_522
F_245_559	F_559
F_134_47	F_47
F_163_125	F_125
F_289_367	F_367
F_299_104	F_104
F_386_182	F_182
F_257_70	F_70
F_245_265	F_265
F_69_600	F_600
F_349_198	F_198
F_66_17	F_17
F_349_458	F_458
F_257_146	F_146
F_467_9	F_9
F_245_162	F_162
F_245_585	F_585
F_280_55	F_55
F_289_277	F_277
F_257_258	F_258
F_280_455	F_455
F_349_404	F_404
F_245_297	F_297
F_467_429	F_429
F_280_498	F_498
F_172_447	F_447
F_69_514	F_514
F_212_137	F_137
F_275_396	F_396
F_280_380	F_380
F_444_383	F_383
F_136_520	F_520
F_280_549	F_549
F_136_415	F_415
F_450_143	F_143
F_239_122	F_122
F_280_396	F_396
F_245_214	F_214
F_450_79	F_79
F_131_419	F_419
F_280_501	F_501
F_104_142	F_142
F_245_387	F_387
F_265_462	F_462
F_450_91	F_91
F_69_564	F_564
F_450_507	F_507
F_257_424	F_424
F_450_491	F_491
F_289_303	F_303
F_134_162	F_162
F_257_500	F_500

F-series-data

F_69_1	F_1
F_280_579	F_579
F_450_366	F_366
F_172_481	F_481
F_69_269	F_269
F_289_207	F_207
F_280_569	F_569
F_280_177	F_177
F_58_558	F_558
F_467_121	F_121
F_245_147	F_147
F_280_45	F_45
F_280_18	F_18
F_280_139	F_139
F_257_278	F_278
F_280_66	F_66
F_69_317	F_317
F_280_212	F_212
F_257_68	F_68
F_316_493	F_493
F_257_158	F_158
F_316_369	F_369
F_0_179	F_179
F_316_38	F_38
F_299_396	F_396
F_59_257	F_257
F_136_266	F_266
F_265_452	F_452
F_280_524	F_524
F_257_274	F_274
F_467_392	F_392
F_467_162	F_162
F_450_565	F_565
F_239_562	F_562
F_164_528	F_528
F_147_146	F_146
F_450_418	F_418
F_289_114	F_114
F_467_195	F_195
F_69_473	F_473
F_257_141	F_141
F_257_518	F_518
F_257_290	F_290
F_257_544	F_544
F_299_379	F_379
F_257_148	F_148
F_495_361	F_361
F_482_431	F_431
F_239_515	F_515
F_69_100	F_100
F_69_37	F_37
F_280_214	F_214
F_187_338	F_338

F-series-data

F_280_137	F_137
F_280_100	F_100
F_59_245	F_245
F_280_186	F_186
F_58_464	F_464
F_444_199	F_199
F_316_141	F_141
F_467_330	F_330
F_450_225	F_225
F_450_414	F_414
F_69_48	F_48
F_299_62	F_62
F_450_14	F_14
F_164_272	F_272
F_265_253	F_253
F_131_117	F_117
F_196_139	F_139
F_265_7	F_7
F_467_521	F_521
F_177_310	F_310
F_280_438	F_438
F_97_472	F_472
F_467_220	F_220
F_299_306	F_306
F_316_26	F_26
F_97_154	F_154
F_447_484	F_484
F_280_292	F_292
F_280_147	F_147
F_467_321	F_321
F_97_374	F_374
F_245_37	F_37
F_239_250	F_250
F_444_277	F_277
F_280_300	F_300
F_265_212	F_212
F_280_120	F_120
F_450_598	F_598
F_280_518	F_518
F_239_312	F_312
F_3_486	F_486
F_196_36	F_36

F-series-data

sequence

AIININTTTNTT VTATAKVEVKFKVKVEVEVKITKPDGKTTTIVAEAEGEAKLKKEKTETTTSTETKNETITAAEEVPAVKAAIK
MIVNVKVKVELEAKATVNANLNANVNVNVTLTVTDASGTTTTLTATGSGSATASTTLEKEEKKLKEEKTIEVSEEEELPAVLE
MILKINVTVNTNSKATVKAKFEAKVKATAVRRTTAPDGTVTETVVEAEGEAKEEAELEKEEKEETKEEKEEIEVETEEELEKLIK
MILNVNTTNTTITATAEVKVEIELTLTVIEIVTSPSGEKTTKTFTAKAKVEEEEAKETTTTTSTTTKETIKIENEEELKKKIEELK
VKVKLVNTVNTKSKAKANVTNLNANANVTVTVTDTAADGTVTTTTGTGTGSGTASASEEAEKEETEKEKEEEREFETEEEAKE
MKIKLKTKVELEAKAKVNTNLNANANVTATETTTAADGKTTTTATGTGSATASRTVEVEKKEVEEKEKEIEVEEEEEELEEVK
MKLEINITVNTNTTATANVRVEIEAEITVTTEKIDKDGKTKTKTYKAKGRAEEEGEVTTTTTKTEKKEETKEVESEEEELKKLLEE
MKINVTNTVNLKAEAEVKRNLNVNVNVTLTETTTAADGTTTTTATGTASASASSSVKESKEETENENETITVPESELEKVLK
MVINLNTINLKAATVEVTSTAEVTVTATLTVTSPDGTVTTVTGTGTGTGTSATAEKEEKTENIKETYKTSEEELPEVLKK
MKLKLETTTTLTNATATVNYKINVKTDTVTKTTTTSPSGEKTTTAKGSGESEKEGTLTKSETETEKEEEEEKELPEEEKEKYVK
MKLKLKIEKKLAKAKVEAKIKAEGKVTVTKTTTTASGTTTTTAEGETEAEAEFTLEKEKEEKKKEEKEKELEEEVEKYVK
MIINVKVEVKLKAEEKVNANVNNKVTVTATLTGTNADGTTTTATGTGTGSASYSDTVLEEEEEEKIEEETYEVEETEEELKKKL
YILNLNVTVKTKSKATAEVTLKVKATVTVTVTYTSPDGTKTTVTGKGTGTGKSAKEEKEEEDTEKEEETEEFETEEELEKAK
SILKINVTNTKSTATVKVEVEAEVEVEAVRITVAPDGTVTTTVARGKGKVKEEAEATTTTSETKKEEEIEVKEEELKVKKE
MIINYNITVKNVTATVKVKVKVKVKVATLTYSPTSGTTTTVTAEGEGEGEAKATATDSATATETINETYIELTGSPEENKK
YKVKIKVEIKKSEAKAEVNLNVNANVTVTVTDTAADGTVTTTTGTGTGSGSASDTKEKKKEEEEEEEEEEFETEEEAKEFV
MILKINTTVKTNKAKVKAKFKFKVTVTAILNTTSASGTTTTTAKAEGEAEVEAEKEEKSKTENKEETIEVETEEELEKLKK
MKLNINTNINNNITATANVKVKIKVLTATTTTRVSPSGEETTTVFTAEGEAEVEATETTSKSSTKKKNETLEIETEEELKKKKEE
MKINLNLTVNLKAKAKVNLNLNANVNVTAKTTTTAPDGTKTTETATGSGSASASRTVEKEKTETEEKKEETIEVPEEKLEEVK
MIINYNITVKNVTATVNVNVNANVTVTATITYTDADGKTTKTATGTGSGSASASATDTATATKVKEITKEIKLEGSEEKKEE
TKIKLKITIELEAKAKAGELNVNVTVTATVTVTSASGATTATATGTGSSSKSEELEKEEKKVYEEAEFDGDEEKVEKLIKE
MKLVNKTTTTTTATANVEVNVKVEVEVKVTITKPDGKTTTVAKAEGEAKKEATETTTTTATTTTNETLEEEKDLPKKIEE
GIIKVNITVKAEEVEAKVEVNVNVNVNVTATLTETAADGTETTTATGSGSGSASATATDKAESTEEVELEFDEKDEEERKKV
KKIKLNLTTNTKSTATVNVKLEVKEVKAVTTVTDASGNKTTTTGKGKGEGKAEKTVTKEKTETKKEEEEFDESIDPAEIAK
MKLNTNINVTNVTNATTNVEVNININLTAIEKKIDESGKVKTEKKFEGKGSKEKATVTSSTSSTEKEEKEETEEISTEELEKKKK
MKLNINKTINTNVTAEETVTVTINVTLTATEIRTSPSGERTTRTFTAEGKVEEKATKTESESSTEKENEEKEVETEEELEKIIKE
GIINVNYTVNGTVTATVTAEVKVKVKTATLTETDASGKTTVTGEGEGEGKAEATATATSTVNVNMTYKEEDKEKFEK
MILKINTTVNTTTTATANVNVNINAKLEATEITTDKSGKTTKTKFKGEASASESATKTTTTSTENKKEEIKVKTEEELKKEIEK
MKLKINKTTTTTSTAKVEVEVKVEVTVEVTITDPDGTKKTYKAKAEGEAKKEEDEKTETTTTTTKKEEKELEVEEEELPKVKE
MILNINTTVNTTATATAEAKVKINIKIEVTEIVTDESGNVTTKTFKGEGEAEAEATVTETTSSTTVTKETKEVETEEELEALLKA
MKIKVNTTTTTTATATVNANLNANVNVNVTLTITTAPDGTKTTDTATGTASATASRTATVTETETKKEEEIEVEEEELKEEVKE
DKLNLNINTNINANAANANLTVNVTVTATITRTAPDGTVTTVTGTGKGSGTASDSKTASKEEKKNINETFDGSLPKEELEKK
MILNVNTTLNTTATARVEVEIKVKTAVTVETSPDGTETTTTTFEAEGEVREEAEVTTTTSTEEKNETKEIKTEEELEKELK
MEIKLNITTNITSTATVNANLNVKVKVELKVTITAPDGTKTTTEEAKGKAEAKASRTESVSSSTTTEKETIETPEEKLEEVKKE
MKLVNKTYNANVNATVKVKAKVKVEVTATITYTAADGTTTTVTGKGKGEGEDEAEAKASNSVTVKEEKTFFEGKPKEIKKE
MILKINLTVNTNVTATAKVNININATITVTETTTDAAGNTTTKTFTAKAEAKEEATETENKSSTEEKKEEIEVETEEELKKKIEE
MILNTNTTNTTNTTATTEVEVEIKVKTVEIITTPSGEKTEKVFEGEGKAKEKAKKTENTSSTEKKNETKEVATEEELKALKAK
MIVKFNLTVNTESKAEATRLLTVTVTVTLTKTDASGEKTTTTATGTGSGTATDTKEKEEKSTTNIEKTFFEGEDVESALNS
MVLKVKRTYNVKNATVNANVNVNVTATITYTSPSGTTTTVTGTGSGSGTASATAKAEKEVTVKKEEVFEGDEEEIKEKL
MVLNVNKTYYKVTVDTVNANVNVNVTATLTITDASGNTTTTVTGTGKGSGSSSATATAKNEKTVKHNTFFEGDEEEIKA
MVLNVNRTYNANNTATVKAKAKAEVKVTAIEKTDKDGKKTGKKGKKGKDEATATASNTKTVTENKTFFEGDEATIKAKI
MILNININNNFNKTDTVNAKAKVKVKVTAKITYTDKKGKKTKEGEGKGEGTDTATAKAENKKVNVNENKTIEGSEEEIKEEKK
YKLNINITYNINANSTVDVKAKVEVKVAVTTTTDAAGNETTEVATGEGSGEASATSTKSEETTKNYNETFESETLEELNEK
SIIKFNVTTNTNATATVNANVNVNINVKVEAIRRVDPGKVTVTRAVEEASVSSESATATSTTTETEKEEEIEVPEEEELKVIKE
MKVNINTNLNTNTTATANVKVEIEVTLTVTTITTSASGEVTTTTTAEAKAEAEATETSSSTSTTKKEETKEVKNEEELKKLEE
MILNINTTVTTTTATTNVKVEIEVTITLIEITESPSGKTTKTFKGKGKAEVEATVETTSTSTETKNETIEVETEEELEKKKKEL
MKLNLNINYNNSVNATVNVKANVNVTVTATITYTAADGTTTTVTGTGKGSGSDSAEASASKSETVKEEKTFFEGDEETIEEKV
MVIKVNITVNIKAKATVNANLNANVNVTVTITTAADGTTTTTETATGSASASASRTVEEVEKEKTKEEKEEIRVEEEELKVL
KKIIVNITVNGNVSATVTVNAKVEVKVATLTITDPSGNKTTVTGKGEGEGEASATATASASSTETSHMEFDESDAEKREKE
MIINIKIEVTKAKAKAEVTVNANVNVTLKVTITDASGKTTKTATGTGSATKSAAEEKEKEEKEEKEEIEKDPPFEEILKELE
SIIKINVTINKNATATVNVTVTAEVKVTAIREKIDESGEVTKTEAKGEASATDSATATSSVSTTTKTEETIEVEEKELEKVIKEK
MILKIKTKVEKKAKAEVKATVNANVNVTLTVTTTTDASGNVTTTTATGTGSATSELKLEKEKEEKEEKEEIEIEEEELPKKLEE

F-series-data

SILNINTTTNTNATATVNVNVNIKVEVTAIKITTAPDGTVTTTEAKGEGEVKESASATTTTTTETEKETIEVEEKELEEVKKKK
MVLNLNLTYKVKHTAEVKAkakVVKVVEAKITYTAPDGTKTTVTGKGEGKGKDKAEAKASNEETVEVKKTFKGDEESIKKEV
MKINVEVKTKLKAETVNNANLVNVNVTVKITTAADGKTETASGSGSSSSASRTEKVEKEKEKEKKTIEVKEEDLEKVL
YTLNLNVTVETKAKATLEMNLNVNVNVNATLTETDASGTTTTLTASGSGSASASSTKEKEEKEKEKKETLELETEEELEKK
MILKLNTTVNNTATATVNAKAKVVKVKAIGELTTPDGTKTVGEGEGEGEGEGEAETKTSTTTTTTKKEETYEVETEEEEAEI
VKLNLNVTVNTTATATAKAKLKAKVKVTVTVTDTSADGTTTTKTGEGKGEGKEEKELTSTTTSTTTTKEEKEFETEEEAKE
YKLNLNYTYNINATSTVKVKAKVVKVVEAITITVSPSGEKKIEKAVGEGEGEGEAETATKTETKTEKYEKTFESETKEELEKEK
MILKINVTVNTESTAKVEVEAKGKVKEVVLTTTAAADGKTTKVAKKEEGEAELKDKKEKKETKTEKKEEELPEEELPKVLE
MKLKINTTVNTNTTATANVKVEIKAKLTATEIVTSESGETTKTFEAEAKAKVEDTVTTTTSTTEEKKEELEVEETEEELKKIE
MKLKLEIKTNLKAKATVNANLVNVNVTLTVTTTAAADGTTTTTETATGSASASASKTVEKEEEEVKEEKEEIEFPPEEKLEEVKK
MILNVNTTTNTTVTATVKVEVKVEVKVTVTVTLTAPDGTKTVHTAEAGEAEAEKAEETKTTSTTEKENETLELEEKDLPKK
MIKVNNTTVKLKATAKVEANLVNVNVNATLTVTSPDGTKTTKTASGSGSGSASKSLEKEEEEETKEEKKTIEVDEEDLEKVL
MIVNLNLTVIEIAKATVKVEATATVTVTATLTYSASGTTTTVTGTGTGSGKASVTVEREKKEVKEEKETYKVVETLEEAKEIV
MIKVNNTTINLTATATVNANLVNVNANANLTVTDASGNKTTKTATGSGSSSASTTLEAKEEETINEEKEIEVSEELPKVLEE
MKVEINLTVNTNTTATAEVEVKIEVKITVTEIKTSKSGEVTTKTFEGKGGEVTEKATKTTSSSATEKKEEKEVETEEELKKLKE
KIINLNTTTNTNAKAEVEVKVKVEVEVEVKETTTAPDGTKTTTTGKGKGKGEAEKKESASSSSTNNENYTFDESIEKEEIEKLI
MKINLVTVKLEAKATLNTNLNANATVTLTTTTTAPDGTKTTTETATGTATATASKTVEEKKEEVEKKEETIEVEEKDLEKVLKE
MKINLNTTKLKAEEVNATLVNVNVTVTETTTAPDGTVTTSTATGTATATASRSVKKEKEETKEEKETITVEEKDLEKVLKE
MVLKLELKYEKKVKVEVKANVNVNVTVTAILTYTDAAGTKTTVTGTGTGTGTGDSAEAEAEENEEVVEVKEEFEGDEESIKEV
VIVNINVEVETEAETANVNLNANANVTVIATYTPSGTTTTVTGNGTGTGTASKTLEDEEEEEELEKEEETVELETEKEAEYV
MILKINTTVNTTVTATTTVTVNINVNKVEETTISPSGEVTTKVFEGEGSATVSDTETTSTTSTEKEEETLEVKTEELKKKIEE
MKLVNVRTYNVKNVTGNANVNVTVTVTATLTYTDAAGTVTTVTGTGKGEGSASNTATATNEVTVKEEKVFEGDEEEIEKQ
MKIKVNNTTTNTKATATVNANLVNVNANVTATLTDDASGTTTTKTASGSGSSSASVTKTAETETEKEEKEIEVKEEDVEKVL
MKIEVNIKVELEAKAKVNVNLNANVNVTLTETTTAPDGTKTTTTATGTASASASKTVEEKEKKEKKEEETIEVPPEEKLEEVKK
KIIKLNLTKTTAEAVVEAKLETNVTVTAISTTTSPSGTTTTTETGTGTGSGTAEKKEEAKATSTDTEEEYDESIEKEEIEKKVE
MILKLNTYNNVNVNVTVVEVKVKVKVVEATITYTDASGTTTTVTGEGEGEGEGEAETATASNSETVNVEETFEGDEEEIKKKLE
NILKLNTSNIKVESKYKANITINVTVTETTTAPDGTVTRTATGTASATQSVEVESKKEETIEKKEEFEDDEDIESKVKVLL
MILNFNLTVNTNVTATAKVEAESKVKVTVVEVITTKPDGTKETKVAEAGEAKEKDERTTSTTSTETKKETLKLDEKDVPAVIA
YILNLEVKIIIEAKATVNATLVNANVTVTVTYTSASGTTTTATGTGTGSDTASATAEKESKKEKIEKKTYELETLEELEKKKEE
MILNLNITTNIKSKLEIEAELEVNVTVTVIVETDDAAGNVTTKTGTGTGSATAEAKKEEETSTTTTTTETFEYSEEDKPAVDK
MVLNVNKTYNVTNTVTVDVTVANVTVTATITYTDASGNTTTTVTGTGTGTGKATATATNTETVEAKKTFKGSEEEIKKKL
MILNVKTTVTTTSTATVKATAKFNVTVTAILERTAPDGTTRTTVATAEGSAEVEAEKTTTTTSTEEKEEKEVETEEELKKLKE
ETINLNTTNVNAEAKVKAKLDVTVTVTATITTTDASGTTTTVTGTGTGNDTAEKELKKESKSTTTTNETIDGSLPEEEIKAKIQ
MKLKLKKTYNKNTATVKVDVKVKVTVTATITVTKPDGTVTTATGTGTGEGSASATATASNEVTVKEEKEFEGDEESIKKEV
EKINLNLTTNINSTATVNAKLKVEVTVTATIEVTAADGTVTTVTGTGTGEAEAEASETASSSKTENENETYDGSKPKKEIDKE
KIIKEKITVEAKVEATVKVTNVNVNVTVTATLTETAADGTTTTVTATGKSGGTASATATDTAEKKEETELEFEEDDEERKKTLL
KILIINYTYELEGKAKVEVNINTNVTVTATATTTAPDGTTTTQTATGTGSAKTEAEEEKETKSTLEFKKEFKEGENFEKELKEF
MVLNLNRTYNANNKVKVKATVNANVTVTATITYTDASGTTTTATGTGTGSGSDSAEAEAEENKETVNVKETFEDEETIKEV
MKINVNNTTKLEATAKVNVTLTANVNVTLTETTTAPDGTKTTETATGSGSASASRTAEKEEKEKTEKEEETITVKEEDLEKVLK
GIININITVNGTVKAEVKVKVTVTVTVTATLTETAADGTTTTVTGTGTGTGGEAEKKADEAKSKEEVKMTFEEDKDEKMKKEI
KILKLNVNTNNTNVTATLETTVKAKVTVTATLTRTAPDGTTTTTTATAEGEAEASSTETTETSTTEKEEKEEEDFEKILEKL
MIVKLNKTYNVNVEAKVKVKAKVDVTVTATITYTSPDGTETVATGTGTGSGEAEAEAEAEKKETVKEEKVFEGTPEEIKKEIA
IILNLNKTVEEKSKATVKATATVNVTVTLTVTTTDAAGTTTTTKTGTGSGTASAEAKDEVEEKEEKEEKEIEETEELEKEIE
MKIKVKTKTEIKAKATVNVSLNANVNVTLITTTTSPDGTKTTETATGTGTASASRTESVEKKEVKEEKEEIEVEEKEEKLKE
MKINLVNVNINAKATVNTTLTANANVTAKLTETDPAGNKTTYTGTGTGTGTASATKLEKEEKEEKEEITLPESMSLEESLKKI
GIIKINITVKAKVTATVNLKVKVKVVEAELTETDASGKTTVKGKGEGEGEGEAETATDSAEKEEKEYEGEFEESEEEKRRKEV
MKLNFNLTTNTKTTATAKVDVTFKVTVTVVTLTAPDGTVTHVARAEGEAKESATETKSEETKEEKSEIEVEEKDLPKVI
EIIKINITVEGKVTAEVVKVKAKVKVEATLTETDAAGTTTTVTAEKGKGKAEATATDTAESTKKYEGEFKKEEKEKREEEIK
MKLNINTTVNTTTTATTNANVKIEVKLTATETRSTASGATTTTTTFAEKGEAEASDTVTTSTSSTEKENEEKEIETEEELKEEIK
KIIKVNITVNSTVTATVTVKVKVKAKVKVLEETDKSGKTTVVGEGEGKGEATATATASATSTKKSELEFEEDKDEERKKKI
YKINLVNVKVKTKAEAKAKANLTVTVTVTVVTDTAADGTETTVTGTGSGSGSASAEKEKEEVEEKEEYEFETEEEAKEK
YILNYTVTTKLEAKAKLNMNLNANANVTATLTAAADGTTTTLTATGTGSATATQSLEKEEETKKEEKTEEYETEEELKKAV
MILNINTTTTTTTTATTEAKVEINVKITVIEITSPSGEKTTKTFEAEKGVEEEDKVTTTTTAVTEEKETIKVETEEELKKKKEEL

F-series-data

MILNINLTVNTTTTATVNVNVKVEVKVTVTVETTSPDGTVTTKTAKAEGKAEKSATTTTTTTSTEKKEETIKLEEKLEEKIKKI
MKLNLNLEANFKVEAKVNANANVNVTVTATITYTDASGTTTTVTGTGTGSGSASASAEANEVKEVKVTFEGDEESIKEEV
KIIKYNIKVNADVATVTVTVTVKVKVEATLTDDADGKTTVKKGKKGKATATATDKAEKTVEYKGEFKEEDEEERKKEI
KITKLIITDKINVVKYKAEKIFNATVTVTLTTAASGKTTTTATGEAEAEETEVEKKEESTKVTEEEFEDNEDLEKKIKEVLE
MKLNVNTTTTTTVTATANVNVKFEVKVTVETTTKPDGKTETVVAEAEKGAEKATKTSTTTSTTTKNETKELPEADLPALK
YILKFNLNTNTNAEATANVTLNVNVNVTVNYTYTDAAGTTTTTTGTGTGTGTASATKEKKEEEEKEEEEEYEFETEEELEKK
MVLNLNITYNAKYTATVEVKAEVKVTVTATITTTAADGTTTTATGSGTGSGSDSATATAEKEVTVKHEETFEGSEEEIKEQK
MVLKLNRTYNNYNATVNVNANANVTVTATITYTSPDGTVTATGTGTGSGSASATATAKKEVTVKKEATFEGSEEEIKAQV
MIEVNVNVNKNVTATVNANANVNVTVTAELTYTDEEDGEETVKVAEGTGTGSASATATDTATATTKKNKYKIELKGSEENK
KIIKLNLTNTNATATVKAKLKVEVKVEVETTTTDDKGDKKTEVGKKGKGKEEEEKVKSTSTTKTEETFDESVDAAAIAAR
MKINVNITTNLNATATVNTNLNVNANVTATVTTTAPDGTKTTEATGTASNNASRTVTKSETETEVENETIEVPEEELPKVLE
MVLKLNITYNVNNNVNVNVNANVNVNVTAVITYTDAAGTKTTATGTGSGSGSSASSEASNSVTVKKEKTFEGDEESIKEEL
MILKLNKTANFKNTDTVNVNVNVNVTVTAITYTDASGTTTTVTGTGTGTGTASNTATNKNEKTVKEKKEFKGSEEEIEKKIK
MILKLNKTYNVNNAKVNNVNVNVNVTATATITYTAADGTTTTATGTGTGSGSASATAEDKKTVTVESNEVFEGDEEEIKEV
MILKNTTTLNTNVEAKAKAEVEIKVTITITETVTVSPSGTVTTTTFTGEGKAEVKGEVTEKESTTTTNEEVEVETEEELKKLE
MILKINKTYNVKNEAKVEVEVNVNANVTATITKTASGTKTTKTGTGSGSGSDSASAEASNKETVKEKKVFEGSPEEIKKEV
MILNVNTTTKTTVTATVNVNVNVNVEVTVEVTITKPDGTETTYVAKAKGSASESATSTSTTETEEKTNETLELAEDLPKQA
MVLNLNRTYNNKNVTATVKAKVKVKVTVTATITYTAASGTTTTVTGTGKGEGEAEAEASASKKETVTFNATFEGTPEEIKAKV
MILKINTTVNTKVKAETEVEKVTINVTLTVTETTTSPSGTKTTKFTATGKAEVEAKEEEEEETEEKEEELEVETEEELKKKKE
MIVNINTTVNTTETYTLNANVNANAKTKSIKEETDESGETIEEEEEKEDSYSASTTTTTSTSTSTTEETKEKELEGVSLVEELEE
MILNINKTVTTTTTATANVKVEIEIEITVKETVTTSPSGEKTTKTFKGKGEVKEEATETSSTTATTTENETIEVENEEELKKKLEEL
MKFIINFITINNNTTYTLNATVTANATLKTIRIETDKEGKKTTEEEEEKESSTTKSTTVTSTESKTEKEEKEIKSEGVKFEEILKEVK
MILNLNITSNNNATSTLNQTLTVNVTVTATLTVTAPDGTKTTVTGTGTGTGTASKTFTASKSKTTNTNKTFFKGDEETIKKEEE
MKVKLNFTVNTKETYTVEAKVETVKVVTITETTSPSGEKTTEETEEKEAETGETTETTTKEKTEKEEEEKELEGVSLVEEVLK
IVINLNVTDNINATSTVNVDKVKVEVKAIVKTTSKDGKETVEEAKGEGEGEASASATNTVSKTYTKKETIESETEEEAKKKLE
NIININVTVNTNATATVKAKVEIKVKVIAEKIETAPDGTKTTTVAKGEAKAKEEAEATSSSSSTEVEKNEKLEVPEEELEKVIEEK
EIINLNINTNTNANATVNATLNAEVEVTAEVTVTAPDGTKTTVVGKKGKKGKAEKTEEASSNNKNENETIDGSLPKKEIEKK
MLIKLNITSKLKAKAKVNKTLNANVNVTVTATLTVTDAAGTTTTYTGSGSGSGTSSSTVELEKEEEEKKKEIVLPESLSEEEAKKII
MIVNLNIKYNYKNTVTVNATVNVNVNVTAETITYTSPSGEKTTVTGTGTGTGTATATATAENKVTVEEKKTFKGSEEEIKKKIE
MILNTTTTTLNTTTTATTKVKVEIKIEITITETTTSPSGEKTTKTFEGKGAEKEEAEKTTTTTATETKEETVEVETEEELKKLKE
MIIKLEIKTITKAKATVNATVTVNVTVTATTTTTAADGTTTTTETGTGTGSATASKTEELEKEEEEEKEEYEFDESIKEEEIKLIEE
KKIILEIKVNTAKAKVEAKLNANVTVTVTTTTTSASGTVTTETGTGTGSGTAEKTVESKEKEEIEKEEFDESIKEEEIKLIEK
AIINVNITVNSNVTVTKVDVTVKAKVTAELTEKSPDGKETKVVGEGKGEGSASASASASATKTVKVNLTFKEEEEERKKV
KILNINVTNLNLKGKAEVNVNINTNVTVTLVTTTTSPSGTTTTTTATGTGSATKSAKKEAEEEEETLKENETFEEDENFEERLKKF
MKLNNINTNLNANATVKYKIEKYNTTVTVTKTTTASGTTTTTTATGKGSSEAKGELSSESKEEKEEFEEEELEEEIEKVVEE
VKIELNVTVNINAKATVNVTVNVNVTVTATLTVTAPDGTKTTVTGTGSGSGTNSLTLEKEEKSVKKEEETIEVDEKEKEKVIN
GIINENITVNAVNTATVKVKVKVKVKEATLTETKADGKTTVTGKGEGEGKAEATATATATKTENSNTLTFKESEKEEREKTL
YIVNFNVTVKTKATATAKATLNANANATVTVTDDASGKTTKTGTGSGSATASAEKEKEEEEEKEKETKEFETEEEAKKY
KKIKLNITTKTKSTATVNANLNANVTVTVTTTTTSASGTTTTTETGTGTGSGSASKTETATKEKTENEKEEYDESIKEEEIEKKIA
MKLNINTTVNTTVTATAKVEVKFKVTVTVTTTTDASGAETTAVAEAKGEAKEKKERTKTTTKTEKKEEEEIEVEEEELEKVKE
MILNINTTLNTNVKATTEVEVEINVTITVKEITTSPSGEVTTKTFKGEGKAKVEKKKEKSTSTTTTTNETLKVETEEELKKLIEAC
MILNTNTTVNTNITSKTKVKVVIKATITVIEVTTTPAGEETTRTFTAEGEVEVEDEVTTSTSTTTTENKTVEVKTEELKKIEAK
MILNVNTTLNTTTTATAEAEVEIEVKLEAVEIKIDKDGKTTKTFTAEGRAEERATETTATTSTEKKEETIEVETEEELKKKLEE
MILNINTTLNTNTTSTTKVEVEIKATLTAKEITISPSGEKTEKFTAKAEVKESDEVTTSSSTTTTTSTTTVSTEAEELTLKNNL
YVLKLNITHNINATSTVNVTVTADVKTATVKTTSSESKEEKEVAKGKGKKGKATATATNSVSETKKYEEEFSEETLEEIEKKY
MILNINTTLNTTITATTEVEVEIEATLTVKTITTSASGEKKETTFTAKAKAKEEKTVTETTESTKEEKEEIEVETEEELEKILKEE
KKINVNITVNTNSNATVNGNANANVNVTVTATLTYTTADGTTTTVTGSGKSGSGSASKTLNSSSSSTTKVEKTYEIGENEEEDLK
MKLNINTTTNTTTTSTVKTEVEIKIKTKEKTITISPDGKTVEEKEKEEKEKKKEEETKTTSTTTTENKTIELAEEDLPVAKAAIA
SILKINVTYNLNGNANVNVNINTNVTVTVETTTDAAGTETTETATGSGSSSTSKTEKAETKKTNLNFNEEFEEGKDFEELKKK
MILNINTTTNTNVEAKAKVEVEFEVTVTVTTTTAADGTTTTVTATAKGKAKEKKEETKTTTSATTTKEETLELEEEKLPEAIEK
MKLNVNLTVNTNTTATANVEVKVKVTVTEVIITDKSGNKTTYVAEAEGEAKLSKTETKTTSATENKKEELELEEKDLEKKIE
MILNVNKTYNVKKDVTVTATATVTVTATITYTDASGKTTVTGTGTGTGTASATASAENKEEVKEEKTFFEGDEEEIKKKKE
YKLVNVTTLNTNTTTTTNTTNTTKKKKKITITTDASGEETVKEEEEESESSSSSSSSSSSTTEEKKEELEFETEEELKKKIE

F-series-data

MVLNLIRATANFTVEVKVKVKTATVTVTATITYTDASGKTTVTGTGTGTGEAEKEAKAKNKVTVKEERTFRGSPREEIEKQKA
MKLNLNYTYNVNVTGTVEATAKVVKVTATITYTSASGTVTTVTGTGTGTGTASATATATNSKTVNKNKTFEGKPEEIEKEKV
NIININTTTTTNATATVEVTVKVEVKVTATRTVTDPSGKTTTTTAEGKAEAEKEAEATKTTTTTNNENETIEVEEKNLEKVINEK
MILKLNLEYEAKNKANVNVNVTATITYTDASGKTTKTGTGSGSGSASASAEAEENEEKVKVEKTFEGDEEEIEKKEK
MKINVEITVNKEVTATVNVNANVTVTATLTYTDASGEKTTKTATGTGSGSASATATDTATATKEVKKTYEIELTGSEENK
MILNINTTTNTNSTATVNANIKYEITATAILITTSADGTETTTTSCAEGKAEESATKTSTTSSTEKKEETKEVETEEEELEKLKEK
MVVNTNINVTNTNTKYKVEAKVEAKVKVEGVVETSPSGEKTETETKVEEDEYKEEVKEESEKKSTEKTEKTEEVGVSFEEV
KIINLNINTNTNANAKVNANLTVTATVTVTTTTTAPDGTKTETGTGTGTGTASKTEEKSKSNNEENENETYDESIDPEKIEKI
MIININITVNANVTATVEAKVKVKVKAELTETDESGKETKVVGEGEGEGEAEATATASASVTKEEKMFTFKESEKEKMEKE
MIKVNITVKGTVNATVNVTVATVKVKVKAILETTDPDGTKTTVVAEGKGEGKASATATDTATSTEKYEGEFKEEDEEERKKEL
MKININTTVNTNVNAKVEVEAKFEVKVTVTITAPDGTKTTVTATAEGEAEKEAECSESTSTTNTTEETIEVKEEDVEKVIAD
PIINLNVTYNINATSTVNVNANVTATITTTSPSGEKTTEVGTGSGSGSASATAENTVKETKKYNETFESEKKEELEKEL
GTIKINYTVNGNVTATVNITVTVKVKVEAKLTETDADGTKTTVTAKGKGEGTATATATDSASKTVTVMEFDEKDAEKREE
MILNLNINTNLNANATVNYNINGNSKVTVELRTIAPDGTETTKVAEGEGSSSASGTLKSESKEKKENETFELKEEDVEAYVK
MKILLNITVNLNATATVTQTLTAKVKVKAVLTETDASGKTTVEGEGEGEGTASTTVTESSETEKKEIELPEDMSLEEAEEK
MIINLNLTTTTKVATLETKVAKVEVTATVTTTAPDGTTTTTTAKAEAAEWEDKETETTTSTEEKKETIETDEPFEEILKKIK
MIVKINTTVNTNATATVNANVNVNVTLTVTRTSASGATTTTTKTGSGSASSSLTEKTETKTEKKEEEKVKKEELPKLLK
MILKLNITTTNTANAENVKQTLTAKVEVEAELTVTDADGTKTTVKKGKGEGKGEASKTVSKSSSTTTTETFPESMSKEEAEEK
KKIILNINVNTKSKATVNVTLTVTATVTVTTTTDASGKTTETGTGTGTGTASTTVEKEEEKKKKEIEEYDESIKPEEIKELIEK
MIINLNIITNIKAKATVKATVTVTVTATLTVTDASGATTTVTATGTGTATKSATVELEEEKTEKEEETIEVSEDKEEIEKVKK
MILNLEKEYNVKKVKVNVNVTATITYTDASGTTTTVTGTGTGTGTASATATAENKETVKSCKTFEGDEESIKEEE
IKVKINTTLNTRTLTFNENKNENENKKNITTTTAPDGTKTTVVEEEKKEKKESSTTTESESSTEKNEELEVETLEAAEKIIE
KIIKLNITTETKAKATVNANLTVNVTVTVTTTTDASGKTTTTGTGTGTGTASKTVEKEKEETEKEEEEEYDESIKEEEIKKIE
PILNLNITYNINATSTVNVTAKEVEVTATVTTTASGTVTTTTAEGKGEGEAEASASNSSESATKNYNKTFESETEEELEKKY
MIFNTNTTVNTNNTYTLNVNVNANVKVTAVTTETAADGTVTTTTTEEREASHSVSATSTSSESETKKENETRKLEGVKLEDIL
MIVKINITLNTTRTFYNTNNTNTTTTTTTTTDASGTVTTTTTSTSSSKESSTETEKTEKTEEKKEEYEVETEEAAEKLEE
EKINLNITINNTATATVEAKLKAKVNVTVTTTAAADGTTTTATATGKGEDEKEAKAEKTETTTENYNAEFDGDEEKVKKLEIE
MVLNLNKTDIFKHKVTNVNATVNVTVTATITYTSPSGTTTTVTGTGTGTGTASATAEAENEETVKENETFEGDEEEIKAKVA
MILELNRTRYKFKNKVTNVNATVNVNVTATITYTDASGTVTTVTGTGTGTGTATATAEAENEETVEEKEVFEGEEEEIKKKVE
KIINLNITTNTNATATVEAKLETKIEVTATETTTAAADGKTVTTGKGKGKDKEEKTVEKEKTETKTENHTFDESIPEAEIKALIAA
MIVNLNVTTTKKKEKKYKKEKKEKLEKEEITITIDKEGNKKTEKKKEKEEKEKEEKESEKKEETKTENETYEVETEEAAEKLE
MKINVNTKVNLEANAKVNVTLNAKVKVTVEVTTTADGTVTTTETATGTATATASRTEEEKKKETEEEEIEVKEEDLEKVL
AILNINVITYKLKGKAEVEVNLTSTVTVTLVTTTADSGAVTTKTATGTGSATKSAKEEAEREKTLTFNETFEEDENFEERLKE
MILNVNTTVNSTSTATVNANFKYKIKVKATLTTTSPSGEETTEVAEAEGEAKESETLTSSTSTTTENKTIEVSTQEELEEKIK
MIVNLNITSNFNVKATVNVNVTATITYTDAAGTTTTATGTGTGSGSSSATATAEKKETVTENETFKGDEEEIEKIE
MRLILNINVNLATATVNQNLKADVTVTATLTETSADGTVTTVTGTGSGSGSASKTVTKTSTKTEKKEIEFPPEEMSEEEAKKQ
MILKVERTYEANYKATVNVTVNVNVTATITYTAADGKTTATGTGTGSGTASATAEAENKEKVKEEKFEGDEEEIEKKK
GIININITVNSNVTATVNINNVNVNVEAVLTETDPSGKVTVVAEGKGEGSSSASSSSSSSTENYNGTFKEEDEEERKKIE
MILKLNITYNVNVNDTVNVNATVTVTATLTYTAADGTVTTVTGTGTGTGSASASASAENKETVKENKEFEGSEEEIKKEK
AILNINVITYKLEGKAKVKVTLTNTVTVTAIANTTSASGEKTTKTATGTGSATTEAEAAEVEETLEFKKTFEEGEDFEEKLKKY
MIVNFNLTVKTKSEATLNMNLTVTVTAISTTTASGTTTTTETATGTGTGTASSTKTKEEKTEEEKETFGEEEDKEEIEKY
MVLNTNTTVNTTATATVEAKLKAKVKVVLVTKTAPDGTKTTEKTGKGEDEKKLTLATTTTTTTTTTETLEVEAEELAAKKA

F-series-data

AF2_plddt	ESMFold_plddt	1nm/ns SMD Force (pN)	0.1nm/ns SMD Force (pN)
94.45550562	92.22438202	2767.008	2485.772533
93.5091844	92.23280142	2759.957333	2507.374667
93.21297794	92.23290441	2680.373333	2507.241867
94.0230855	92.15371747	2665.968	2350.106267
94.58811594	92.75221014	2703.605333	2515.807467
94.56608541	92.32124555	2677.813333	2505.106
94.07412639	92.2594052	2663.018667	2491.947733
94.39427046	92.00701068	2688.538667	2506.2106
93.59	92.86146341	2678.437333	2464.707133
94.18293478	92.09702899	2655.637333	2401.311733
94.00152174	92.45905797	2903.877333	2491.538267
93.47041522	92.41394464	3062.453333	2584.581267
94.4498913	92.29442029	2924.821333	2463.965667
93.95262774	92.20810219	2754.165333	2389.924133
93.76466135	92.24183267	2746.453333	2404.183533
94.39057971	92.1565942	2926.117333	2503.689467
93.57753676	92.26180147	2724.938667	2347.815467
94.06843866	92.03750929	2835.333333	2335.5702
95.07131673	92.13437722	2659.285333	2335.465067
93.00071713	92.04446215	2684.981333	2334.701467
93.11850575	92.12812261	2672.757333	2317.005867
93.5629588	92.32827715	2689.066667	2296.515933
94.62206751	93.22219409	2657.904	2280.0598
93.72897872	92.27702128	2673.338667	2276.2418
93.68286245	92.03657993	2694.970667	2264.323
94.06163569	92.26156134	2658.629333	2256.908333
95.19324895	93.22054852	2651.952	2253.5164
93.70241636	92.0172119	2652.874667	2241.420533
93.72258427	92.13014981	2647.2	2224.305933
93.75758364	92.31535316	2671.226667	2223.879867
95.19231317	92.07291815	2664.624	2222.933667
94.03383399	92.0298419	2649.536	2218.0422
93.91832714	92.22267658	2665.146667	2209.050533
94.58558719	92.31313167	2691.562667	2201.054867
94.17755274	92.58599156	2667.946667	2195.936533
93.8897026	92.36732342	2670.224	2190.331267
94.0604461	92.65494424	2648.293333	2172.381133
95.9435865	92.01949367	2681.44	2138.467333
95.13890295	92.45443038	2694	2045.811667
95.44189873	92.32611814	2645.397333	2016.562467
94.35666667	92.012827	2645.141333	
93.92527426	92.05729958	2644.741333	
95.20666667	92.56637131	2644.581333	
94.17182482	92.13733577	2644.501333	
94.34866171	92.61933086	2642.949333	
93.11118959	92.4139777	2641.925333	
95.11324895	92.39075949	2641.44	
94.40338078	92.49647687	2640.826667	
95.23063291	92.07493671	2640.677333	
94.63475177	92.0512766	2636.501333	
94.45237226	92.51313869	2636	
93.33410448	92.15604478	2635.253333	

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94.1830292	92.2149635	2632.826667
93.05852321	92.07413502	2630.058667
95.16928826	92.03345196	2625.370667
94.82114983	92.09041812	2620.890667
94.01382353	92.32920168	2618.906667
94.25112319	92.27583333	2617.925333
93.99261603	92.03864979	2617.056
93.30363958	92.13773852	2613.221333
94.31442379	92.19249071	2612.394667
94.7316726	92.0258363	2612.330667
93.98988764	92.4888764	2611.04
94.31400709	92.68184397	2609.946667
93.67527197	92.38740586	2609.306667
94.54698582	92.20684397	2609.04
94.14650558	92.45650558	2607.477333
94.4626383	92.72693617	2607.226667
93.34540925	92.2211032	2606.538667
93.26807829	92.02786477	2605.322667
95.04852321	92.43907173	2604.725333
94.97235507	92.76413043	2603.344
94.19364312	93.1572119	2602.176
95.57535865	92.16632911	2602.08
95.20007092	92.23574468	2601.722667
94.74217082	92.53341637	2601.221333
94.72748936	92.60093617	2601.082667
94.78848101	92.1749789	2595.184
94.3165625	92.34861111	2593.797333
94.4688764	92.15265918	2593.669333
93.2953719	92.29231405	2590.816
93.79523077	93.66488462	2588.992
95.66451477	93.67843882	2586.186667
93.51492647	92.22448529	2584.693333
94.51774704	92.01268775	2584.005333
94.42607595	92.55485232	2582.704
93.11478261	92.15395257	2575.194667
94.26206751	92.23405063	2574.314667
94.1325	92.06958333	2573.050667
94.98852321	92.15113924	2572.826667
94.20491103	92.67398577	2571.258667
93.93565401	92.96624473	2569.664
93.49279851	92.04171642	2569.370667
95.21654008	92.66578059	2562.357333
93.68215094	92.31332075	2562.197333
94.90174377	92.09316726	2560.64
94.634375	92.23008333	2558.496
95.34978903	93.28987342	2557.029333
93.92205993	92.29194757	2554.554667
94.74367089	92.41088608	2552.464
93.13144981	92.36650558	2552.336
94.66198312	92.55037975	2549.376
95.00115942	92.72536232	2549.088
94.79766551	92.12714286	2548.544
94.45587361	92.756171	2546.341333

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93.75734082	92.20745318	2545.68
94.5221097	92.16949367	2544.389333
94.0364135	92.11864979	2543.525333
93.60625	92.10118056	2538.202667
93.09468165	92.52940075	2535.733333
95.04315217	92.41550725	2532.954667
94.29763713	92.50345992	2532.517333
95.60316456	92.27759494	2532.293333
94.23043825	92.09792829	2532.165333
93.81148936	92.01161702	2532.090667
95.26800712	92.64658363	2530.586667
95.25274262	92.70405063	2530.325333
93.16700422	92.52932489	2529.162667
95.19586498	92.41831224	2527.12
93.30330855	92.31345725	2523.424
95.56050633	92.34156118	2522.826667
94.09805243	92.20318352	2519.488
94.93582278	92.10881857	2514.730667
93.40375465	92.07330855	2510.378667
94.5442446	92.66028777	2508.981333
94.28319703	92.04449814	2505.744
94.27017986	92.11446043	2505.034667
93.71648536	92.04966527	2504.864
94.15169065	92.3905036	2504.224
94.41485232	92.43202532	2503.781333
93.51354015	92.14576642	2502.672
94.0626087	92.22944664	2501.813333
93.97054167	92.21045833	2500.762667
95.27177215	92.24991561	2500.186667
94.02174721	92.08732342	2500.117333
94.2407234	92.02919149	2497.285333
94.27748936	92.07097872	2494.821333
93.64675105	92.61447257	2493.312
93.77808333	92.04891667	2492.965333
93.01565217	92.04192029	2492.938667
93.12695473	92.22246914	2491.866667
94.78059072	92.92902954	2489.066667
95.21300725	92.09797101	2488.229333
94.61642553	92.76234043	2487.557333
93.58243446	92.19722846	2486.805333
94.54557621	92.55992565	2486.778667
94.92505576	92.7135316	2486.144
94.11167286	92.11817844	2483.050667
93.3470632	92.15546468	2477.562667
94.92016878	92.60455696	2468.266667
93.50249071	92.07843866	2468.117333
93.35004049	92.08202429	2467.792
93.3186	93.24432	2467.376
93.953375	92.39920833	2467.258667
93.99786517	92.30565543	2464.474667
94.14359551	92.01573034	2459.450667
95.3421519	92.67126582	2459.301333
93.20893382	92.15154412	2447.690667

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94.6935443	92.24864979	2444.682667
95.41029536	92.142827	2443.712
93.77010949	92.01576642	2442.485333
95.03303797	92.13012658	2441.738667
94.69394422	92.76996016	2438.218667
94.420625	92.09183824	2437.626667
94.52154676	92.19223022	2435.994667
94.15225532	92.24182979	2430.88
94.94603376	92.22451477	2430.362667
94.83265823	92.14464135	2426.608
93.80490637	92.39865169	2425.626667
94.94400844	92.38590717	2425.370667
95.0878903	92.69514768	2425.072
94.58463768	92.64884058	2421.344
94.47758333	92.00991667	2420.016
93.46552239	92.30850746	2416.837333
94.68559701	92.32746269	2413.584
93.51791667	92.14970833	2413.045333
94.24770213	92.1246383	2406.613333
94.06492	92.70012	2406.042667
95.25949367	92.70101266	2405.552
93.64956349	92.54472222	2404.618667
93.52102128	92.02731915	2396.101333
94.94362869	92.09886076	2390.954667
94.70107914	92.01165468	2389.898667
94.07269841	92.31575397	2389.466667
94.87555556	92.05812261	2388.949333
94.71126582	93.42751055	2381.152
94.54637131	92.04983122	2377.722667
93.98531915	92.05557447	2377.509333
93.63234127	92.3947619	2374.986667
93.95359431	92.05487544	2374.112
94.27108333	92.04291667	2368.693333
93.44444853	92.34878676	2363.898667
95.54337553	92.17527426	2362.208
94.30191667	92.25029167	2361.168
95.00902954	92.29042194	2359.093333
93.8964135	93.0035865	2357.253333
95.14248945	93.15611814	2352.170667
93.38545833	92.15241667	2351.136
93.20008584	92.47648069	2348.234667
93.00955224	93.82059701	2345.541333

F-series-data

RMSD of Annealing simulation (nm)	RMSD TOP8	Final selection (0.1 nm/ns SMD criteria)
0.4186968	??	
0.4239461	??	??
0.4390704	??	??
0.4665026	??	
0.4699495	??	??
0.4866721	??	
0.4876047	??	
0.4963016	??	
0.533536		
0.5447068		
0.576002		
0.5915297		
0.6094043		
0.6129432		
0.6635264		
0.8068631		