

Quantum-mechanical simulation of protein crystals and water-protein interactions: the case of crambin

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SUPPORTING INFORMATION

COMPUTATIONAL DETAILS

The development version of the CRYSTAL14 code¹ was adopted for all the *ab initio* calculations in its massively parallel implementation.² CRYSTAL14 permits the study of systems of all dimensionalities, from molecules to crystals. It employs a Gaussian type basis, paired with both Density Functional Theory (DFT) and Hartree Fock (HF) Hamiltonians.

Hamiltonian

All calculations were performed within the Density Functional Theory, adopting the Becke, 3 parameters, Lee-Yang-Parr (B3LYP) hybrid functional.³ Due to the use of a local basis set and suitable truncation of the exchange series, the present implementation of hybrid functionals in CRYSTAL14 is very efficient compared to other codes based on plane waves, being only about three times slower than pure GGAs.² The electron density and its gradient were integrated over a pruned grid consisting of 974 angular and 75 radial points per atom generated through the Gauss–Legendre quadrature and Lebedev schemes. The accuracy of this grid can be estimated from the integrated

number of electrons, that is 6760.0006 e for the largest studied system (6760 in the unit cell). Values of the tolerances that control the Coulomb and exchange series in periodical systems were kept at the default values (10^{-6} and 10^{-12} Ha).⁴ For the periodic cases, the Hamiltonian matrix was diagonalized only at the Γ point, due to the large volume of the unit cells.⁵ The eigenvalue level-shifting technique was used to initially lock the system in a non-conducting state, with the level shifter set to 0.6 Ha, which is then relaxed at the end of the self consistent field iterations.⁶ To further help convergence of the Self Consistent Field (SCF), the Fock/KS matrix at a given cycle was mixed with 30% of the one of the previous cycle. The dispersion contribution was added to the DFT energies and gradients, by means of the empirical dispersion correction originally proposed by Grimme and known as D2 correction,⁷ with the modified parameters proposed by Civalleri *et al.* for the treatment of molecular crystals using the B3LYP hybrid functional (hereafter referred as B3LYP-D*⁸).

Basis Set

A split valence double- ζ basis set (6-31G(d,p)) plus polarization functions was applied to C, N, S and O,⁹ while an Ahlrichs's pVDZ basis was used for H.¹⁰ For the sake of simplicity, the chosen combination of Hamiltonian and basis will be identified as B3LYP-D*/6-31G(d,p) in the following. As anticipated in the introduction, we modeled three crambin crystals differing for the amount of solvating water, namely with 0W, 84W and 172W water molecules investigated in the present work (*vide infra*) resulting in 12354, 14370 and 16482 Atomic Orbitals (AOs) in the unit cell, respectively. Both cell parameters and internal coordinates were optimized using the analytical gradient method.

Geometry optimizations

The Hessian is upgraded with the Broyden-Fletcher-Goldfarb-Shanno (BFGS) algorithm.¹¹ The initial Hessian for most calculations was generated by means of a classical model as proposed by Schlegel.¹² Due to memory constraints, for the largest studied system (172W, 1800 atoms/cell), the initial Hessian guess was changed to the identity matrix. Default convergence values were used for the maximum allowed gradient, the maximum atomic displacement and their maximum allowed root

mean square values for convergence (0.00045 Ha·bohr⁻¹, 0.00180 Bohr, 0.00030 Ha·bohr⁻¹ and 0.00120 Bohr, respectively).

Computation of crystal formation energies

The energetics of the protein crystal and of the protein-protein and protein-water interactions was decomposed in various contributions as in Ref. ¹³ and detailed below.

For a general crystal CRY with n proteins P and m water molecules W in the unit cell, the formation energy ΔE can be defined as:

$$\Delta E = E(CRY/CRY) - n \cdot E(P/P) - m \cdot E(W/W) \quad (1)$$

where $E(CRY/CRY)$, $E(P/P)$ and $E(W/W)$ are the energies of the optimized crystal, free protein and free water, respectively (the symbol after the / refers to the geometry at which the energy was evaluated). ΔE is determined by the balance between the energy gain due to the new interactions present in the crystal with respect to the isolated compounds and the energy loss due to the structural deformations occurring for P and W from the gas to the condensed phase. For a crystal to be thermochemically stable $\Delta E < 0$. A deformation-free formation energy ΔE^* is defined as:

$$\Delta E^* = E(CRY/CRY) - \sum_{i=1}^n E(P_i/CRY) - \sum_{i=1}^m E(W_i/CRY) \quad (2)$$

where $E(P_i/CRY)$ is the energy of the i -th isolated protein taken at the geometry of the optimized crystal, and $E(W_i/CRY)$ is the energy of the i -th water molecule taken in the geometry of the optimized crystal. Eq. 2 can be easily reformulated to include the Basis Set Superposition Error (BSSE) correction, using the same counterpoise method adopted for intermolecular complexes:¹⁴

$$\Delta E^{*C} = E(CRY/CRY) - \sum_{i=1}^n E(P_i + gh/CRY) - \sum_{i=1}^m E(W_i + gh/CRY) \quad (3)$$

where “+ *gh*” means that the energy is computed with the addition of the ghost functions of the surrounding molecules. In periodic systems, this is usually accomplished by including ghost functions within a chosen cutoff distance (here, 40 Å) around the molecule. The *BSSE* can then be defined as:

$$BSSE = \Delta E^* - \Delta E^{*C} \quad (4)$$

and the final, BSSE corrected, formation energy ΔE^C is defined as:

$$\Delta E^C = \Delta E - BSSE \quad (5)$$

Eqs. 1-5 were then adapted to the different systems considered in the present work. For protein-protein and protein-water interactions of Table 4, the energetics was studied deformation-free, that is with the structure of the components frozen at the geometry of the interacting system. For some processes of Table 3, a water box representing liquid water was taken as a reference. To study such processes, Eqs. 1-3 must be reformulated as follows:

$$\Delta E = E(CRY/CRY) - n \cdot E(P/P) - E(W_m/W_m) \quad (6)$$

$$\Delta E^* = E(CRY/CRY) - \sum_{i=1}^n E(P_i/CRY) - E(W_m/CRY) \quad (7)$$

$$\Delta E^{*C} = E(CRY/CRY) - \sum_{i=1}^n E(P_i + gh/CRY) - E(W_m + gh/CRY) \quad (8)$$

where $E(W_m/W_m)$ is the energy of an optimized liquid water box containing m molecules, while $E(W_m + gh/CRY)$ and $E(W_m/CRY)$ are the energies of the 3D framework of m water molecules as found in the crystal with and without the protein ghost functions, respectively. Eqs. 4-5 remain valid. To evaluate $E(W_m/W_m)$, a water box of 84 molecules (side: 13.4 Å) was generated through the PACKMOL utility,¹⁵ thermalized through a 10 ps by PBE-D2/TZVP *ab initio* molecular dynamics simulation at 300 K with the CP2K¹⁶ software and then B3LYP-D*/6-31G(d,p) fully optimized with CRYSTAL14. For the 172W case $E(W_{84}/W_{84})$ was scaled by a factor 172/84.

Computation of BSSE-corrected charge transfers

Consider the interaction between two components, A and B , so that:



These two systems have, when isolated, total electronic charges Q_A and Q_B , corresponding to their total number of electrons. These electrons are distributed among the different atoms composing the systems:

$$Q_A = \sum_{i=1}^{N_A} Q_i \quad (2)$$

where N_A is the total number of atoms in A and Q_i is the electronic charge on the i^{th} atom, that may be estimated through a Mulliken population analysis.

The interaction complex AB has a total electronic charge Q_{AB} :

$$Q_{AB} = Q_{A^*} + Q_{B^*} \quad (3)$$

where Q_{A^*} and Q_{B^*} are the electronic charges on A and B when involved in the interaction. Of course, due to the charge transfer associated to this interaction, $Q_{A^*} \neq Q_A$ and $Q_{B^*} \neq Q_B$.

This charge transfer (QT) can then be defined as:

$$QT_{B \rightarrow A} = Q_{A^*} - Q_A \quad (4)$$

If $QT_{B \rightarrow A} > 0$, a net flux of electronic charge from B to A has occurred, while B has obtained charge if $QT_{B \rightarrow A} < 0$. Of course, since the total electronic charge must be conserved:

$$QT_{B \rightarrow A} = -QT_{A \rightarrow B} \quad (5)$$

The Basis Set Superposition Error (BSSE) is known to affect any calculation based on atom-centered basis functions. This error is due to the superposition, in the AB complex, of the functions centered on both A and B atoms, so that AB is described by a richer basis set than the A and B components alone. This discrepancy causes inconsistencies when comparing total energies, such as when computing interaction energies. The same problem is present when dealing with equation (4), since

Q_{A^*} and Q_A come from calculations with a different number of basis functions, *i.e.* Q_A misses functions centered on B . When these functions are present (when computing Q_{A^*}), the effect of the BSSE is a net flux of electronic charge in order to partially occupy them.

This un-physical BSSE-caused charge transfer (QT^{BSSE}) can be evaluated by doing a calculation on A and B when the ghost functions of the other component are present:

$$QT_A^{BSSE} = Q_{A[B]} - Q_A$$

$$QT_B^{BSSE} = Q_{[A]B} - Q_B$$
(6)

where the square brackets mean that only the ghost functions of the component are included.

QT^{BSSE} is always a negative quantity.

The BSSE-corrected charge transfer due to the interaction (QT^C) is then computed by removing the spurious charge fluxes of equations (6) from the uncorrected charge transfer of equation (4):

$$QT_{B \rightarrow A}^C = QT_{B \rightarrow A} - QT_A^{BSSE} + QT_B^{BSSE}$$
(7)

where signs are conveniently put to account for charge fluxes directions.

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Supporting tables

Table S1. Energetics of the crambin crystal formation (HSE06-D*/6-31G(d,p)//B3LYP-D*/6-31G(d,p)).

Process	<i>n</i>	ΔE^C ^a	ΔE^{CD} ^b	disp ^c
2P + <i>n</i> W → CRY(<i>n</i> W)	0	+100 [+0.1]	-1350 [-1.1]	-1450 [-1.1]
	84	-4448 [-2.9]	-7380 [-4.8]	-2932 [-1.9]

CRY(0W) + <i>n</i> W → CRY(<i>n</i> W)	84	-4548 (-54)	-6029 (-72)	-1482 (-17)

^a Reaction energies as in Table 3, without including dispersion, but at the HSE06/6-31G(d,p)//B3LYP-D*/6-31G(d,p) level of theory (in the *x/y* notation *x* is the level at which the energy is computed, *y* is the level at which the geometry has been optimized). ^b As ^a, but obtained with dispersion (HSE06-D*/6-31G(d,p)//B3LYP-D*/6-31G(d,p)). In square brackets, the atom contribution to some formation energies. In parentheses, the contribution for each individual water molecule (when applicable) is reported. ^c Dispersion contribution evaluated as: $\Delta E^{CD} - \Delta E^C$. P: crambin molecule in gas phase. W: water molecule in gas phase. CRY: crambin crystal in the two 0W, 84W cases. All values are in kJ·mol⁻¹.

Table S2. Energetics of the crambin crystal formation (B3LYP-D*/6-31G//B3LYP-D*/6-31G(d,p)).

Process	<i>n</i>	ΔE^C ^a	ΔE^{CD} ^b	disp ^c
2P + <i>n</i> W → CRY(<i>n</i> W)	0	+353 [+0.3]	-1097 [-0.9]	-1450 [-1.1]
	84	-5416 [-3.5]	-8348 [-5.4]	-2932 [-1.9]

CRY(0W) + <i>n</i> W → CRY(<i>n</i> W)	84	-5769 (-69)	-7251 (-86)	-1482 (-17)

^a Reaction energies as in Table 3, without including dispersion, but at the B3LYP/6-31G//B3LYP-D*/6-31G(d,p) level of theory (in the *x/y* notation *x* is the level at which the energy is computed, *y* is the level at which the geometry has been optimized). ^b As ^a, but obtained with dispersion (B3LYP-D*/6-31G//B3LYP-D*/6-31G(d,p)). In square brackets, the atom contribution to some formation energies. In parentheses, the contribution for each individual water molecule (when applicable) is reported. ^c Dispersion contribution evaluated as: $\Delta E^{CD} - \Delta E^C$. P: crambin molecule in gas phase. W: water molecule in gas phase. CRY: crambin crystal in the two 0W, 84W cases. All values are in kJ·mol⁻¹.

Table S3. Energetics of the crambin crystal formation (B3LYP-D3/6-31G(d,p)//B3LYP-D*/6-31G(d,p)).

Process	<i>n</i>	ΔE^C ^a	ΔE^{CD} ^b	disp ^c
2P + <i>n</i> W → CRY(<i>n</i> W)	0	+442 [+0.3]	-1031 [-0.8]	-1473 [-1.1]
	84	-3400 [-2.2]	-6593 [-4.3]	-3193 [-2.1]

CRY(0W) + <i>n</i> W → CRY(<i>n</i> W)	84	-3842 (-46)	-5562 (-66)	-1719 (-20)

^a Reaction energies as in Table 3, without including dispersion, but at the B3LYP/6-31G//B3LYP-D*/6-31G(d,p) level of theory (in the *x/y* notation *x* is the level at which the energy is computed, *y* is the level at which the geometry has been optimized). ^b As ^a, but obtained with dispersion (B3LYP-D3/6-31G//B3LYP-D*/6-31G(d,p)). In square brackets, the atom contribution to some formation energies. In parentheses, the

contribution for each individual water molecule (when applicable) is reported. ^c Dispersion contribution evaluated as: $\Delta E^{CD} - \Delta E^C$. P: crambin molecule in gas phase. W: water molecule in gas phase. CRY: crambin crystal in the two 0W, 84W cases. All values are in $\text{kJ}\cdot\text{mol}^{-1}$.

OPTIMIZED GEOMETRIES (PDB files)

1) CRAMBIN – optimized gas phase molecule

COMPND	CRAMBIN OPTIMIZED GAS PHASE GEOMETRY										
AUTHOR	DELLE PIANE, CORNO, ORLANDO, DOVESI, UGLIENGO										
ATOM	1	N	THR	A	1	-2.493	-4.567	8.109	1.00	0.00	N
ATOM	2	CA	THR	A	1	-2.060	-3.222	7.634	1.00	0.00	C
ATOM	3	C	THR	A	1	-1.713	-3.328	6.152	1.00	0.00	C
ATOM	4	O	THR	A	1	-1.368	-4.430	5.706	1.00	0.00	O
ATOM	5	CB	THR	A	1	-0.845	-2.831	8.536	1.00	0.00	C
ATOM	6	OG1	THR	A	1	-1.235	-3.236	9.845	1.00	0.00	O
ATOM	7	CG2	THR	A	1	-0.504	-1.352	8.479	1.00	0.00	C
ATOM	8	H1	THR	A	1	-1.902	-5.349	7.727	1.00	0.00	H
ATOM	9	H2	THR	A	1	-3.471	-4.785	7.905	1.00	0.00	H
ATOM	10	H3	THR	A	1	-2.314	-4.520	9.139	1.00	0.00	H
ATOM	11	HA	THR	A	1	-2.888	-2.520	7.818	1.00	0.00	H
ATOM	12	HB	THR	A	1	0.022	-3.430	8.203	1.00	0.00	H
ATOM	13	HG1	THR	A	1	-0.454	-3.685	10.265	1.00	0.00	H
ATOM	14	HG21	THR	A	1	0.313	-1.153	9.186	1.00	0.00	H
ATOM	15	HG22	THR	A	1	-1.369	-0.741	8.785	1.00	0.00	H
ATOM	16	HG23	THR	A	1	-0.170	-1.043	7.478	1.00	0.00	H
ATOM	17	N	THR	A	2	-1.793	-2.206	5.427	1.00	0.00	N
ATOM	18	CA	THR	A	2	-1.137	-2.097	4.124	1.00	0.00	C
ATOM	19	C	THR	A	2	0.122	-1.250	4.368	1.00	0.00	C
ATOM	20	O	THR	A	2	0.075	-0.294	5.161	1.00	0.00	O
ATOM	21	CB	THR	A	2	-2.063	-1.552	3.023	1.00	0.00	C
ATOM	22	OG1	THR	A	2	-2.368	-0.190	3.328	1.00	0.00	O
ATOM	23	CG2	THR	A	2	-3.331	-2.392	2.887	1.00	0.00	C
ATOM	24	H	THR	A	2	-1.960	-1.315	5.892	1.00	0.00	H
ATOM	25	HA	THR	A	2	-0.839	-3.106	3.821	1.00	0.00	H
ATOM	26	HB	THR	A	2	-1.482	-1.607	2.083	1.00	0.00	H
ATOM	27	HG1	THR	A	2	-2.944	0.139	2.612	1.00	0.00	H
ATOM	28	HG21	THR	A	2	-3.077	-3.443	2.686	1.00	0.00	H
ATOM	29	HG22	THR	A	2	-3.976	-2.032	2.073	1.00	0.00	H
ATOM	30	HG23	THR	A	2	-3.919	-2.349	3.817	1.00	0.00	H
ATOM	31	N	CYS	A	3	1.213	-1.660	3.715	1.00	0.00	N
ATOM	32	CA	CYS	A	3	2.550	-1.144	3.967	1.00	0.00	C
ATOM	33	C	CYS	A	3	3.195	-0.865	2.610	1.00	0.00	C
ATOM	34	O	CYS	A	3	3.005	-1.676	1.688	1.00	0.00	O
ATOM	35	CB	CYS	A	3	3.420	-2.169	4.709	1.00	0.00	C
ATOM	36	SG	CYS	A	3	2.800	-2.673	6.361	1.00	0.00	S
ATOM	37	H	CYS	A	3	1.135	-2.464	3.081	1.00	0.00	H
ATOM	38	HA	CYS	A	3	2.476	-0.232	4.567	1.00	0.00	H
ATOM	39	HB1	CYS	A	3	3.478	-3.108	4.140	1.00	0.00	H
ATOM	40	HB2	CYS	A	3	4.429	-1.750	4.826	1.00	0.00	H
ATOM	41	N	CYS	A	4	3.971	0.214	2.486	1.00	0.00	N
ATOM	42	CA	CYS	A	4	4.538	0.541	1.190	1.00	0.00	C
ATOM	43	C	CYS	A	4	6.042	0.804	1.323	1.00	0.00	C
ATOM	44	O	CYS	A	4	6.498	1.386	2.314	1.00	0.00	O
ATOM	45	CB	CYS	A	4	3.831	1.760	0.576	1.00	0.00	C
ATOM	46	SG	CYS	A	4	2.031	1.514	0.294	1.00	0.00	S
ATOM	47	H	CYS	A	4	4.102	0.892	3.252	1.00	0.00	H
ATOM	48	HA	CYS	A	4	4.366	-0.328	0.549	1.00	0.00	H
ATOM	49	HB1	CYS	A	4	3.888	2.622	1.256	1.00	0.00	H
ATOM	50	HB2	CYS	A	4	4.289	2.055	-0.378	1.00	0.00	H
ATOM	51	N	PRO	A	5	6.817	0.438	0.277	1.00	0.00	N

ATOM	52	CA	PRO	A	5	8.281	0.590	0.341	1.00	0.00	C
ATOM	53	C	PRO	A	5	8.756	1.967	-0.134	1.00	0.00	C
ATOM	54	O	PRO	A	5	9.945	2.246	-0.209	1.00	0.00	O
ATOM	55	CB	PRO	A	5	8.778	-0.561	-0.543	1.00	0.00	C
ATOM	56	CG	PRO	A	5	7.709	-0.659	-1.641	1.00	0.00	C
ATOM	57	CD	PRO	A	5	6.392	-0.309	-0.930	1.00	0.00	C
ATOM	58	HA	PRO	A	5	8.647	0.480	1.372	1.00	0.00	H
ATOM	59	HB1	PRO	A	5	9.789	-0.365	-0.920	1.00	0.00	H
ATOM	60	HB2	PRO	A	5	8.812	-1.476	0.066	1.00	0.00	H
ATOM	61	HG1	PRO	A	5	7.912	0.067	-2.447	1.00	0.00	H
ATOM	62	HG2	PRO	A	5	7.653	-1.657	-2.096	1.00	0.00	H
ATOM	63	HD1	PRO	A	5	5.719	0.296	-1.556	1.00	0.00	H
ATOM	64	HD2	PRO	A	5	5.863	-1.220	-0.635	1.00	0.00	H
ATOM	65	N	SER	A	6	7.776	2.869	-0.478	1.00	0.00	N
ATOM	66	CA	SER	A	6	8.091	4.274	-0.631	1.00	0.00	C
ATOM	67	C	SER	A	6	6.809	5.094	-0.551	1.00	0.00	C
ATOM	68	O	SER	A	6	5.714	4.615	-0.869	1.00	0.00	O
ATOM	69	CB	SER	A	6	8.765	4.550	-1.995	1.00	0.00	C
ATOM	70	OG	SER	A	6	7.904	4.281	-3.102	1.00	0.00	O
ATOM	71	H	SER	A	6	6.806	2.633	-0.305	1.00	0.00	H
ATOM	72	HA	SER	A	6	8.790	4.596	0.158	1.00	0.00	H
ATOM	73	HB1	SER	A	6	9.045	5.611	-2.064	1.00	0.00	H
ATOM	74	HB2	SER	A	6	9.682	3.945	-2.047	1.00	0.00	H
ATOM	75	H	SER	A	6	7.762	3.319	-3.126	1.00	0.00	H
ATOM	76	N	ILE	A	7	7.009	6.405	-0.250	1.00	0.00	N
ATOM	77	CA	ILE	A	7	5.904	7.360	-0.292	1.00	0.00	C
ATOM	78	C	ILE	A	7	5.288	7.414	-1.690	1.00	0.00	C
ATOM	79	O	ILE	A	7	4.077	7.654	-1.816	1.00	0.00	O
ATOM	80	CB	ILE	A	7	6.385	8.770	0.169	1.00	0.00	C
ATOM	81	CG1	ILE	A	7	6.611	8.774	1.697	1.00	0.00	C
ATOM	82	CG2	ILE	A	7	5.429	9.888	-0.269	1.00	0.00	C
ATOM	83	CD1	ILE	A	7	7.327	10.014	2.236	1.00	0.00	C
ATOM	84	H	ILE	A	7	7.737	6.533	0.474	1.00	0.00	H
ATOM	85	HA	ILE	A	7	5.077	7.032	0.359	1.00	0.00	H
ATOM	86	HB	ILE	A	7	7.359	8.939	-0.327	1.00	0.00	H
ATOM	87	HG11	ILE	A	7	5.630	8.660	2.195	1.00	0.00	H
ATOM	88	HG12	ILE	A	7	7.204	7.895	1.981	1.00	0.00	H
ATOM	89	HG21	ILE	A	7	5.365	9.985	-1.362	1.00	0.00	H
ATOM	90	HG22	ILE	A	7	5.776	10.857	0.116	1.00	0.00	H
ATOM	91	HG23	ILE	A	7	4.409	9.719	0.110	1.00	0.00	H
ATOM	92	HD11	ILE	A	7	8.303	10.157	1.743	1.00	0.00	H
ATOM	93	HD12	ILE	A	7	7.518	9.906	3.315	1.00	0.00	H
ATOM	94	HD13	ILE	A	7	6.744	10.938	2.099	1.00	0.00	H
ATOM	95	N	VAL	A	8	6.093	7.247	-2.756	1.00	0.00	N
ATOM	96	CA	VAL	A	8	5.562	7.224	-4.121	1.00	0.00	C
ATOM	97	C	VAL	A	8	4.579	6.052	-4.308	1.00	0.00	C
ATOM	98	O	VAL	A	8	3.460	6.240	-4.797	1.00	0.00	O
ATOM	99	CB	VAL	A	8	6.704	7.195	-5.164	1.00	0.00	C
ATOM	100	CG1	VAL	A	8	6.142	6.973	-6.576	1.00	0.00	C
ATOM	101	CG2	VAL	A	8	7.545	8.477	-5.095	1.00	0.00	C
ATOM	102	H	VAL	A	8	7.058	6.982	-2.586	1.00	0.00	H
ATOM	103	HA	VAL	A	8	4.950	8.127	-4.266	1.00	0.00	H
ATOM	104	HB	VAL	A	8	7.352	6.334	-4.914	1.00	0.00	H
ATOM	105	HG11	VAL	A	8	5.634	6.003	-6.674	1.00	0.00	H
ATOM	106	HG12	VAL	A	8	6.955	7.002	-7.316	1.00	0.00	H
ATOM	107	HG13	VAL	A	8	5.410	7.753	-6.843	1.00	0.00	H
ATOM	108	HG21	VAL	A	8	8.394	8.421	-5.794	1.00	0.00	H
ATOM	109	HG22	VAL	A	8	7.958	8.659	-4.091	1.00	0.00	H
ATOM	110	HG23	VAL	A	8	6.942	9.359	-5.370	1.00	0.00	H
ATOM	111	N	ALA	A	9	5.025	4.839	-3.922	1.00	0.00	N
ATOM	112	CA	ALA	A	9	4.155	3.667	-3.958	1.00	0.00	C
ATOM	113	C	ALA	A	9	2.876	3.909	-3.135	1.00	0.00	C
ATOM	114	O	ALA	A	9	1.777	3.569	-3.590	1.00	0.00	O

ATOM	115	CB	ALA	A	9	4.915	2.420	-3.502	1.00	0.00	C
ATOM	116	H	ALA	A	9	5.948	4.753	-3.492	1.00	0.00	H
ATOM	117	HA	ALA	A	9	3.792	3.526	-4.986	1.00	0.00	H
ATOM	118	HB1	ALA	A	9	5.702	2.166	-4.228	1.00	0.00	H
ATOM	119	HB2	ALA	A	9	4.247	1.551	-3.454	1.00	0.00	H
ATOM	120	HB3	ALA	A	9	5.367	2.584	-2.513	1.00	0.00	H
ATOM	121	N	ARG	A	10	3.026	4.500	-1.933	1.00	0.00	N
ATOM	122	CA	ARG	A	10	1.881	4.824	-1.093	1.00	0.00	C
ATOM	123	C	ARG	A	10	0.913	5.790	-1.775	1.00	0.00	C
ATOM	124	O	ARG	A	10	-0.312	5.636	-1.644	1.00	0.00	O
ATOM	125	CB	ARG	A	10	2.345	5.423	0.244	1.00	0.00	C
ATOM	126	CG	ARG	A	10	1.194	5.798	1.187	1.00	0.00	C
ATOM	127	CD	ARG	A	10	0.304	4.642	1.649	1.00	0.00	C
ATOM	128	NE	ARG	A	10	1.041	3.785	2.569	1.00	0.00	N
ATOM	129	CZ	ARG	A	10	0.518	2.740	3.216	1.00	0.00	C
ATOM	130	NH1	ARG	A	10	-0.754	2.348	2.975	1.00	0.00	N
ATOM	131	NH2	ARG	A	10	1.246	2.115	4.138	1.00	0.00	N
ATOM	132	H	ARG	A	10	3.966	4.703	-1.584	1.00	0.00	H
ATOM	133	HA	ARG	A	10	1.310	3.905	-0.915	1.00	0.00	H
ATOM	134	HB1	ARG	A	10	3.028	4.721	0.740	1.00	0.00	H
ATOM	135	HB2	ARG	A	10	2.929	6.331	0.034	1.00	0.00	H
ATOM	136	HG1	ARG	A	10	1.628	6.287	2.074	1.00	0.00	H
ATOM	137	HG2	ARG	A	10	0.545	6.542	0.703	1.00	0.00	H
ATOM	138	HD1	ARG	A	10	-0.598	5.044	2.139	1.00	0.00	H
ATOM	139	HD2	ARG	A	10	-0.057	4.066	0.780	1.00	0.00	H
ATOM	140	HE	ARG	A	10	2.032	4.043	2.787	1.00	0.00	H
ATOM	141	HH11	ARG	A	10	-1.209	2.661	2.125	1.00	0.00	H
ATOM	142	HH12	ARG	A	10	-1.076	1.446	3.329	1.00	0.00	H
ATOM	143	HH21	ARG	A	10	2.255	2.356	4.230	1.00	0.00	H
ATOM	144	HH22	ARG	A	10	0.858	1.303	4.624	1.00	0.00	H
ATOM	145	N	SER	A	11	1.453	6.823	-2.436	1.00	0.00	N
ATOM	146	CA	SER	A	11	0.641	7.816	-3.122	1.00	0.00	C
ATOM	147	C	SER	A	11	-0.217	7.140	-4.201	1.00	0.00	C
ATOM	148	O	SER	A	11	-1.428	7.376	-4.300	1.00	0.00	O
ATOM	149	CB	SER	A	11	1.539	8.925	-3.706	1.00	0.00	C
ATOM	150	OG	SER	A	11	2.213	9.657	-2.706	1.00	0.00	O
ATOM	151	H	SER	A	11	2.469	6.912	-2.455	1.00	0.00	H
ATOM	152	HA	SER	A	11	-0.066	8.268	-2.411	1.00	0.00	H
ATOM	153	HB1	SER	A	11	2.235	8.480	-4.439	1.00	0.00	H
ATOM	154	HB2	SER	A	11	0.890	9.630	-4.247	1.00	0.00	H
ATOM	155	H	SER	A	11	2.930	9.096	-2.353	1.00	0.00	H
ATOM	156	N	ASN	A	12	0.445	6.281	-4.997	1.00	0.00	N
ATOM	157	CA	ASN	A	12	-0.229	5.506	-6.028	1.00	0.00	C
ATOM	158	C	ASN	A	12	-1.317	4.603	-5.412	1.00	0.00	C
ATOM	159	O	ASN	A	12	-2.441	4.518	-5.926	1.00	0.00	O
ATOM	160	CB	ASN	A	12	0.792	4.666	-6.797	1.00	0.00	C
ATOM	161	CG	ASN	A	12	1.784	5.505	-7.600	1.00	0.00	C
ATOM	162	OD1	ASN	A	12	1.639	6.698	-7.818	1.00	0.00	O
ATOM	163	ND2	ASN	A	12	2.870	4.800	-8.049	1.00	0.00	N
ATOM	164	H	ASN	A	12	1.454	6.166	-4.878	1.00	0.00	H
ATOM	165	HA	ASN	A	12	-0.750	6.182	-6.719	1.00	0.00	H
ATOM	166	HB1	ASN	A	12	1.339	4.010	-6.103	1.00	0.00	H
ATOM	167	HB2	ASN	A	12	0.253	4.016	-7.503	1.00	0.00	H
ATOM	168	HD21	ASN	A	12	2.881	3.786	-8.037	1.00	0.00	H
ATOM	169	HD22	ASN	A	12	3.479	5.267	-8.713	1.00	0.00	H
ATOM	170	N	PHE	A	13	-0.957	3.920	-4.310	1.00	0.00	N
ATOM	171	CA	PHE	A	13	-1.876	3.059	-3.577	1.00	0.00	C
ATOM	172	C	PHE	A	13	-3.116	3.848	-3.135	1.00	0.00	C
ATOM	173	O	PHE	A	13	-4.253	3.380	-3.296	1.00	0.00	O
ATOM	174	CB	PHE	A	13	-1.113	2.426	-2.384	1.00	0.00	C
ATOM	175	CG	PHE	A	13	-2.004	1.778	-1.352	1.00	0.00	C
ATOM	176	CD2	PHE	A	13	-2.581	2.556	-0.333	1.00	0.00	C
ATOM	177	CD1	PHE	A	13	-2.306	0.410	-1.406	1.00	0.00	C

ATOM	178	CE2	PHE	A	13	-3.475	1.985	0.574	1.00	0.00	C
ATOM	179	CE1	PHE	A	13	-3.205	-0.160	-0.501	1.00	0.00	C
ATOM	180	CZ	PHE	A	13	-3.809	0.629	0.485	1.00	0.00	C
ATOM	181	H	PHE	A	13	0.005	3.990	-3.962	1.00	0.00	H
ATOM	182	HA	PHE	A	13	-2.254	2.266	-4.240	1.00	0.00	H
ATOM	183	HB1	PHE	A	13	-0.396	1.699	-2.787	1.00	0.00	H
ATOM	184	HB2	PHE	A	13	-0.532	3.223	-1.906	1.00	0.00	H
ATOM	185	HD2	PHE	A	13	-2.368	3.623	-0.263	1.00	0.00	H
ATOM	186	HD1	PHE	A	13	-1.842	-0.203	-2.181	1.00	0.00	H
ATOM	187	HE2	PHE	A	13	-3.938	2.619	1.335	1.00	0.00	H
ATOM	188	HE1	PHE	A	13	-3.467	-1.218	-0.577	1.00	0.00	H
ATOM	189	HZ	PHE	A	13	-4.582	0.184	1.117	1.00	0.00	H
ATOM	190	N	ASN	A	14	-2.871	5.037	-2.564	1.00	0.00	N
ATOM	191	CA	ASN	A	14	-3.932	5.874	-2.037	1.00	0.00	C
ATOM	192	C	ASN	A	14	-4.902	6.327	-3.141	1.00	0.00	C
ATOM	193	O	ASN	A	14	-6.121	6.295	-2.947	1.00	0.00	O
ATOM	194	CB	ASN	A	14	-3.347	7.099	-1.332	1.00	0.00	C
ATOM	195	CG	ASN	A	14	-2.639	6.785	-0.015	1.00	0.00	C
ATOM	196	OD1	ASN	A	14	-2.770	5.726	0.590	1.00	0.00	O
ATOM	197	ND2	ASN	A	14	-1.902	7.818	0.481	1.00	0.00	N
ATOM	198	H	ASN	A	14	-1.899	5.323	-2.406	1.00	0.00	H
ATOM	199	HA	ASN	A	14	-4.539	5.296	-1.326	1.00	0.00	H
ATOM	200	HB1	ASN	A	14	-2.668	7.636	-2.014	1.00	0.00	H
ATOM	201	HB2	ASN	A	14	-4.177	7.786	-1.098	1.00	0.00	H
ATOM	202	HD21	ASN	A	14	-1.680	8.633	-0.078	1.00	0.00	H
ATOM	203	HD22	ASN	A	14	-1.384	7.670	1.339	1.00	0.00	H
ATOM	204	N	VAL	A	15	-4.338	6.764	-4.288	1.00	0.00	N
ATOM	205	CA	VAL	A	15	-5.155	7.132	-5.440	1.00	0.00	C
ATOM	206	C	VAL	A	15	-6.014	5.939	-5.895	1.00	0.00	C
ATOM	207	O	VAL	A	15	-7.222	6.056	-6.117	1.00	0.00	O
ATOM	208	CB	VAL	A	15	-4.269	7.692	-6.581	1.00	0.00	C
ATOM	209	CG1	VAL	A	15	-5.059	7.815	-7.889	1.00	0.00	C
ATOM	210	CG2	VAL	A	15	-3.650	9.038	-6.179	1.00	0.00	C
ATOM	211	H	VAL	A	15	-3.319	6.760	-4.383	1.00	0.00	H
ATOM	212	HA	VAL	A	15	-5.886	7.896	-5.139	1.00	0.00	H
ATOM	213	HB	VAL	A	15	-3.453	6.964	-6.740	1.00	0.00	H
ATOM	214	HG11	VAL	A	15	-4.427	8.257	-8.674	1.00	0.00	H
ATOM	215	HG12	VAL	A	15	-5.945	8.460	-7.766	1.00	0.00	H
ATOM	216	HG13	VAL	A	15	-5.410	6.840	-8.258	1.00	0.00	H
ATOM	217	HG21	VAL	A	15	-2.978	9.402	-6.972	1.00	0.00	H
ATOM	218	HG22	VAL	A	15	-3.056	8.963	-5.259	1.00	0.00	H
ATOM	219	HG23	VAL	A	15	-4.434	9.799	-6.028	1.00	0.00	H
ATOM	220	N	CYS	A	16	-5.354	4.765	-6.027	1.00	0.00	N
ATOM	221	CA	CYS	A	16	-6.041	3.529	-6.365	1.00	0.00	C
ATOM	222	C	CYS	A	16	-7.206	3.233	-5.407	1.00	0.00	C
ATOM	223	O	CYS	A	16	-8.273	2.763	-5.830	1.00	0.00	O
ATOM	224	CB	CYS	A	16	-4.980	2.415	-6.377	1.00	0.00	C
ATOM	225	SG	CYS	A	16	-5.593	0.707	-6.616	1.00	0.00	S
ATOM	226	H	CYS	A	16	-4.350	4.723	-5.832	1.00	0.00	H
ATOM	227	HA	CYS	A	16	-6.517	3.609	-7.354	1.00	0.00	H
ATOM	228	HB1	CYS	A	16	-4.296	2.582	-7.220	1.00	0.00	H
ATOM	229	HB2	CYS	A	16	-4.393	2.453	-5.451	1.00	0.00	H
ATOM	230	N	ARG	A	17	-7.018	3.513	-4.108	1.00	0.00	N
ATOM	231	CA	ARG	A	17	-8.056	3.221	-3.141	1.00	0.00	C
ATOM	232	C	ARG	A	17	-9.307	4.092	-3.278	1.00	0.00	C
ATOM	233	O	ARG	A	17	-10.370	3.648	-2.798	1.00	0.00	O
ATOM	234	CB	ARG	A	17	-7.530	3.340	-1.699	1.00	0.00	C
ATOM	235	CG	ARG	A	17	-6.622	2.187	-1.269	1.00	0.00	C
ATOM	236	CD	ARG	A	17	-7.306	0.824	-1.245	1.00	0.00	C
ATOM	237	NE	ARG	A	17	-8.323	0.670	-0.186	1.00	0.00	N
ATOM	238	CZ	ARG	A	17	-9.608	0.349	-0.396	1.00	0.00	C
ATOM	239	NH1	ARG	A	17	-10.359	0.895	-1.357	1.00	0.00	N
ATOM	240	NH2	ARG	A	17	-10.170	-0.566	0.423	1.00	0.00	N

ATOM	241	H	ARG	A	17	-6.087	3.784	-3.780	1.00	0.00	H
ATOM	242	HA	ARG	A	17	-8.429	2.204	-3.339	1.00	0.00	H
ATOM	243	HB1	ARG	A	17	-7.010	4.306	-1.603	1.00	0.00	H
ATOM	244	HB2	ARG	A	17	-8.402	3.387	-1.028	1.00	0.00	H
ATOM	245	HG1	ARG	A	17	-5.746	2.119	-1.932	1.00	0.00	H
ATOM	246	HG2	ARG	A	17	-6.220	2.404	-0.267	1.00	0.00	H
ATOM	247	HD1	ARG	A	17	-7.774	0.577	-2.207	1.00	0.00	H
ATOM	248	HD2	ARG	A	17	-6.548	0.051	-1.044	1.00	0.00	H
ATOM	249	HE	ARG	A	17	-7.967	0.284	0.705	1.00	0.00	H
ATOM	250	HH11	ARG	A	17	-10.081	1.728	-1.878	1.00	0.00	H
ATOM	251	HH12	ARG	A	17	-11.110	0.331	-1.759	1.00	0.00	H
ATOM	252	HH21	ARG	A	17	-9.554	-0.949	1.166	1.00	0.00	H
ATOM	253	HH22	ARG	A	17	-11.172	-0.517	0.572	1.00	0.00	H
ATOM	254	N	LEU	A	18	-9.185	5.300	-3.842	1.00	0.00	N
ATOM	255	CA	LEU	A	18	-10.252	6.301	-3.843	1.00	0.00	C
ATOM	256	C	LEU	A	18	-11.582	5.834	-4.466	1.00	0.00	C
ATOM	257	O	LEU	A	18	-12.628	6.095	-3.875	1.00	0.00	O
ATOM	258	CB	LEU	A	18	-9.782	7.614	-4.487	1.00	0.00	C
ATOM	259	CG	LEU	A	18	-8.632	8.346	-3.768	1.00	0.00	C
ATOM	260	CD1	LEU	A	18	-8.214	9.573	-4.588	1.00	0.00	C
ATOM	261	CD2	LEU	A	18	-8.979	8.729	-2.325	1.00	0.00	C
ATOM	262	H	LEU	A	18	-8.284	5.554	-4.246	1.00	0.00	H
ATOM	263	HA	LEU	A	18	-10.547	6.486	-2.800	1.00	0.00	H
ATOM	264	HB1	LEU	A	18	-9.470	7.416	-5.524	1.00	0.00	H
ATOM	265	HB2	LEU	A	18	-10.665	8.274	-4.536	1.00	0.00	H
ATOM	266	HG	LEU	A	18	-7.766	7.668	-3.724	1.00	0.00	H
ATOM	267	HD11	LEU	A	18	-7.938	9.289	-5.617	1.00	0.00	H
ATOM	268	HD12	LEU	A	18	-7.345	10.079	-4.136	1.00	0.00	H
ATOM	269	HD13	LEU	A	18	-9.029	10.314	-4.656	1.00	0.00	H
ATOM	270	HD21	LEU	A	18	-8.144	9.274	-1.854	1.00	0.00	H
ATOM	271	HD22	LEU	A	18	-9.173	7.844	-1.699	1.00	0.00	H
ATOM	272	HD23	LEU	A	18	-9.871	9.377	-2.277	1.00	0.00	H
ATOM	273	N	PRO	A	19	-11.575	5.129	-5.638	1.00	0.00	N
ATOM	274	CA	PRO	A	19	-12.855	4.637	-6.169	1.00	0.00	C
ATOM	275	C	PRO	A	19	-13.315	3.312	-5.533	1.00	0.00	C
ATOM	276	O	PRO	A	19	-14.281	2.706	-5.989	1.00	0.00	O
ATOM	277	CB	PRO	A	19	-12.592	4.483	-7.675	1.00	0.00	C
ATOM	278	CG	PRO	A	19	-11.099	4.142	-7.728	1.00	0.00	C
ATOM	279	CD	PRO	A	19	-10.490	5.030	-6.640	1.00	0.00	C
ATOM	280	HA	PRO	A	19	-13.654	5.359	-5.948	1.00	0.00	H
ATOM	281	HB1	PRO	A	19	-13.246	3.722	-8.118	1.00	0.00	H
ATOM	282	HB2	PRO	A	19	-12.789	5.442	-8.181	1.00	0.00	H
ATOM	283	HG1	PRO	A	19	-10.941	3.078	-7.488	1.00	0.00	H
ATOM	284	HG2	PRO	A	19	-10.641	4.325	-8.710	1.00	0.00	H
ATOM	285	HD1	PRO	A	19	-9.576	4.610	-6.217	1.00	0.00	H
ATOM	286	HD2	PRO	A	19	-10.254	6.031	-7.040	1.00	0.00	H
ATOM	287	N	GLY	A	20	-12.593	2.869	-4.464	1.00	0.00	N
ATOM	288	CA	GLY	A	20	-13.001	1.719	-3.703	1.00	0.00	C
ATOM	289	C	GLY	A	20	-12.147	0.471	-3.904	1.00	0.00	C
ATOM	290	O	GLY	A	20	-12.325	-0.534	-3.193	1.00	0.00	O
ATOM	291	H	GLY	A	20	-11.856	3.444	-4.053	1.00	0.00	H
ATOM	292	HA1	GLY	A	20	-13.007	1.947	-2.626	1.00	0.00	H
ATOM	293	HA2	GLY	A	20	-14.025	1.445	-3.999	1.00	0.00	H
ATOM	294	N	THR	A	21	-11.205	0.534	-4.861	1.00	0.00	N
ATOM	295	CA	THR	A	21	-10.501	-0.628	-5.359	1.00	0.00	C
ATOM	296	C	THR	A	21	-9.988	-1.505	-4.211	1.00	0.00	C
ATOM	297	O	THR	A	21	-9.243	-1.066	-3.334	1.00	0.00	O
ATOM	298	CB	THR	A	21	-9.294	-0.175	-6.218	1.00	0.00	C
ATOM	299	OG1	THR	A	21	-9.714	0.851	-7.101	1.00	0.00	O
ATOM	300	CG2	THR	A	21	-8.705	-1.351	-6.987	1.00	0.00	C
ATOM	301	H	THR	A	21	-11.133	1.370	-5.437	1.00	0.00	H
ATOM	302	HA	THR	A	21	-11.184	-1.200	-6.006	1.00	0.00	H
ATOM	303	HB	THR	A	21	-8.550	0.228	-5.518	1.00	0.00	H

ATOM	304	HG1	THR	A	21	-9.134	1.620	-6.909	1.00	0.00	H
ATOM	305	HG21	THR	A	21	-8.398	-2.157	-6.304	1.00	0.00	H
ATOM	306	HG22	THR	A	21	-7.823	-1.024	-7.554	1.00	0.00	H
ATOM	307	HG23	THR	A	21	-9.439	-1.749	-7.707	1.00	0.00	H
ATOM	308	N	PRO	A	22	-10.290	-2.834	-4.267	1.00	0.00	N
ATOM	309	CA	PRO	A	22	-9.824	-3.699	-3.195	1.00	0.00	C
ATOM	310	C	PRO	A	22	-8.313	-3.624	-2.964	1.00	0.00	C
ATOM	311	O	PRO	A	22	-7.493	-3.619	-3.888	1.00	0.00	O
ATOM	312	CB	PRO	A	22	-10.258	-5.098	-3.664	1.00	0.00	C
ATOM	313	CG	PRO	A	22	-11.583	-4.814	-4.379	1.00	0.00	C
ATOM	314	CD	PRO	A	22	-11.335	-3.475	-5.087	1.00	0.00	C
ATOM	315	HA	PRO	A	22	-10.336	-3.427	-2.252	1.00	0.00	H
ATOM	316	HB1	PRO	A	22	-9.509	-5.486	-4.375	1.00	0.00	H
ATOM	317	HB2	PRO	A	22	-10.347	-5.808	-2.830	1.00	0.00	H
ATOM	318	HG1	PRO	A	22	-11.875	-5.609	-5.079	1.00	0.00	H
ATOM	319	HG2	PRO	A	22	-12.393	-4.704	-3.640	1.00	0.00	H
ATOM	320	HD1	PRO	A	22	-10.977	-3.622	-6.118	1.00	0.00	H
ATOM	321	HD2	PRO	A	22	-12.240	-2.853	-5.112	1.00	0.00	H
ATOM	322	N	GLU	A	23	-7.972	-3.743	-1.655	1.00	0.00	N
ATOM	323	CA	GLU	A	23	-6.615	-3.615	-1.127	1.00	0.00	C
ATOM	324	C	GLU	A	23	-5.588	-4.395	-1.941	1.00	0.00	C
ATOM	325	O	GLU	A	23	-4.486	-3.904	-2.195	1.00	0.00	O
ATOM	326	CB	GLU	A	23	-6.558	-4.113	0.335	1.00	0.00	C
ATOM	327	CG	GLU	A	23	-7.444	-3.346	1.316	1.00	0.00	C
ATOM	328	CD	GLU	A	23	-7.094	-1.847	1.443	1.00	0.00	C
ATOM	329	OE1	GLU	A	23	-5.968	-1.484	1.029	1.00	0.00	O
ATOM	330	OE2	GLU	A	23	-7.991	-1.104	1.948	1.00	0.00	O
ATOM	331	H	GLU	A	23	-8.713	-3.546	-0.988	1.00	0.00	H
ATOM	332	HA	GLU	A	23	-6.286	-2.567	-1.155	1.00	0.00	H
ATOM	333	HB1	GLU	A	23	-6.812	-5.186	0.357	1.00	0.00	H
ATOM	334	HB2	GLU	A	23	-5.513	-4.013	0.655	1.00	0.00	H
ATOM	335	HG1	GLU	A	23	-8.519	-3.441	1.082	1.00	0.00	H
ATOM	336	HG2	GLU	A	23	-7.341	-3.798	2.317	1.00	0.00	H
ATOM	337	N	ALA	A	24	-5.903	-5.672	-2.278	1.00	0.00	N
ATOM	338	CA	ALA	A	24	-4.950	-6.544	-2.951	1.00	0.00	C
ATOM	339	C	ALA	A	24	-4.503	-5.993	-4.315	1.00	0.00	C
ATOM	340	O	ALA	A	24	-3.342	-6.176	-4.692	1.00	0.00	O
ATOM	341	CB	ALA	A	24	-5.529	-7.950	-3.107	1.00	0.00	C
ATOM	342	H	ALA	A	24	-6.833	-6.014	-2.060	1.00	0.00	H
ATOM	343	HA	ALA	A	24	-4.029	-6.590	-2.355	1.00	0.00	H
ATOM	344	HB1	ALA	A	24	-5.756	-8.390	-2.124	1.00	0.00	H
ATOM	345	HB2	ALA	A	24	-4.797	-8.596	-3.612	1.00	0.00	H
ATOM	346	HB3	ALA	A	24	-6.449	-7.938	-3.713	1.00	0.00	H
ATOM	347	N	LEU	A	25	-5.451	-5.391	-5.066	1.00	0.00	N
ATOM	348	CA	LEU	A	25	-5.115	-4.798	-6.357	1.00	0.00	C
ATOM	349	C	LEU	A	25	-4.272	-3.526	-6.201	1.00	0.00	C
ATOM	350	O	LEU	A	25	-3.357	-3.274	-6.984	1.00	0.00	O
ATOM	351	CB	LEU	A	25	-6.381	-4.497	-7.173	1.00	0.00	C
ATOM	352	CG	LEU	A	25	-7.313	-5.696	-7.430	1.00	0.00	C
ATOM	353	CD1	LEU	A	25	-8.547	-5.234	-8.216	1.00	0.00	C
ATOM	354	CD2	LEU	A	25	-6.600	-6.860	-8.128	1.00	0.00	C
ATOM	355	H	LEU	A	25	-6.307	-5.075	-4.606	1.00	0.00	H
ATOM	356	HA	LEU	A	25	-4.452	-5.494	-6.886	1.00	0.00	H
ATOM	357	HB1	LEU	A	25	-6.949	-3.703	-6.664	1.00	0.00	H
ATOM	358	HB2	LEU	A	25	-6.048	-4.069	-8.135	1.00	0.00	H
ATOM	359	HG	LEU	A	25	-7.668	-6.063	-6.448	1.00	0.00	H
ATOM	360	HD11	LEU	A	25	-9.067	-4.412	-7.699	1.00	0.00	H
ATOM	361	HD12	LEU	A	25	-9.267	-6.057	-8.353	1.00	0.00	H
ATOM	362	HD13	LEU	A	25	-8.269	-4.867	-9.218	1.00	0.00	H
ATOM	363	HD21	LEU	A	25	-7.299	-7.687	-8.333	1.00	0.00	H
ATOM	364	HD22	LEU	A	25	-5.782	-7.270	-7.516	1.00	0.00	H
ATOM	365	HD23	LEU	A	25	-6.170	-6.542	-9.093	1.00	0.00	H
ATOM	366	N	CYS	A	26	-4.586	-2.706	-5.167	1.00	0.00	N

ATOM	367	CA	CYS	A	26	-3.778	-1.525	-4.934	1.00	0.00	C
ATOM	368	C	CYS	A	26	-2.362	-1.879	-4.448	1.00	0.00	C
ATOM	369	O	CYS	A	26	-1.430	-1.101	-4.705	1.00	0.00	O
ATOM	370	CB	CYS	A	26	-4.476	-0.525	-4.018	1.00	0.00	C
ATOM	371	SG	CYS	A	26	-6.085	0.064	-4.693	1.00	0.00	S
ATOM	372	H	CYS	A	26	-5.403	-2.889	-4.588	1.00	0.00	H
ATOM	373	HA	CYS	A	26	-3.600	-1.034	-5.903	1.00	0.00	H
ATOM	374	HB1	CYS	A	26	-4.736	-0.972	-3.044	1.00	0.00	H
ATOM	375	HB2	CYS	A	26	-3.822	0.334	-3.824	1.00	0.00	H
ATOM	376	N	ALA	A	27	-2.219	-3.038	-3.789	1.00	0.00	N
ATOM	377	CA	ALA	A	27	-0.925	-3.611	-3.434	1.00	0.00	C
ATOM	378	C	ALA	A	27	-0.139	-4.032	-4.694	1.00	0.00	C
ATOM	379	O	ALA	A	27	0.999	-3.594	-4.890	1.00	0.00	O
ATOM	380	CB	ALA	A	27	-1.113	-4.769	-2.453	1.00	0.00	C
ATOM	381	H	ALA	A	27	-3.059	-3.550	-3.521	1.00	0.00	H
ATOM	382	HA	ALA	A	27	-0.298	-2.835	-2.978	1.00	0.00	H
ATOM	383	HB1	ALA	A	27	-1.612	-4.409	-1.541	1.00	0.00	H
ATOM	384	HB2	ALA	A	27	-0.127	-5.168	-2.185	1.00	0.00	H
ATOM	385	HB3	ALA	A	27	-1.726	-5.566	-2.898	1.00	0.00	H
ATOM	386	N	THR	A	28	-0.739	-4.891	-5.549	1.00	0.00	N
ATOM	387	CA	THR	A	28	-0.010	-5.367	-6.720	1.00	0.00	C
ATOM	388	C	THR	A	28	0.355	-4.256	-7.732	1.00	0.00	C
ATOM	389	O	THR	A	28	1.386	-4.351	-8.390	1.00	0.00	O
ATOM	390	CB	THR	A	28	-0.727	-6.523	-7.428	1.00	0.00	C
ATOM	391	OG1	THR	A	28	-1.977	-6.014	-7.900	1.00	0.00	O
ATOM	392	CG2	THR	A	28	-0.912	-7.765	-6.556	1.00	0.00	C
ATOM	393	H	THR	A	28	-1.704	-5.193	-5.399	1.00	0.00	H
ATOM	394	HA	THR	A	28	0.973	-5.738	-6.392	1.00	0.00	H
ATOM	395	HB	THR	A	28	-0.077	-6.775	-8.286	1.00	0.00	H
ATOM	396	HG1	THR	A	28	-2.363	-6.673	-8.498	1.00	0.00	H
ATOM	397	HG21	THR	A	28	0.058	-8.135	-6.188	1.00	0.00	H
ATOM	398	HG22	THR	A	28	-1.373	-8.574	-7.147	1.00	0.00	H
ATOM	399	HG23	THR	A	28	-1.567	-7.559	-5.698	1.00	0.00	H
ATOM	400	N	TYR	A	29	-0.495	-3.202	-7.803	1.00	0.00	N
ATOM	401	CA	TYR	A	29	-0.228	-2.054	-8.659	1.00	0.00	C
ATOM	402	C	TYR	A	29	1.059	-1.300	-8.268	1.00	0.00	C
ATOM	403	O	TYR	A	29	1.664	-0.629	-9.097	1.00	0.00	O
ATOM	404	CB	TYR	A	29	-1.479	-1.137	-8.574	1.00	0.00	C
ATOM	405	CG	TYR	A	29	-1.366	0.294	-9.052	1.00	0.00	C
ATOM	406	CD1	TYR	A	29	-0.742	0.664	-10.249	1.00	0.00	C
ATOM	407	CD2	TYR	A	29	-1.907	1.318	-8.262	1.00	0.00	C
ATOM	408	CE1	TYR	A	29	-0.629	2.003	-10.622	1.00	0.00	C
ATOM	409	CE2	TYR	A	29	-1.811	2.661	-8.619	1.00	0.00	C
ATOM	410	CZ	TYR	A	29	-1.148	3.008	-9.800	1.00	0.00	C
ATOM	411	OH	TYR	A	29	-1.019	4.343	-10.076	1.00	0.00	O
ATOM	412	H	TYR	A	29	-1.426	-3.295	-7.393	1.00	0.00	H
ATOM	413	HA	TYR	A	29	-0.054	-2.381	-9.696	1.00	0.00	H
ATOM	414	HB1	TYR	A	29	-2.293	-1.658	-9.106	1.00	0.00	H
ATOM	415	HB2	TYR	A	29	-1.788	-1.116	-7.520	1.00	0.00	H
ATOM	416	HD1	TYR	A	29	-0.295	-0.096	-10.889	1.00	0.00	H
ATOM	417	HD2	TYR	A	29	-2.399	1.058	-7.322	1.00	0.00	H
ATOM	418	HE1	TYR	A	29	-0.114	2.269	-11.551	1.00	0.00	H
ATOM	419	HE2	TYR	A	29	-2.211	3.448	-7.980	1.00	0.00	H
ATOM	420	HH	TYR	A	29	-0.521	4.451	-10.901	1.00	0.00	H
ATOM	421	N	THR	A	30	1.415	-1.371	-6.954	1.00	0.00	N
ATOM	422	CA	THR	A	30	2.351	-0.433	-6.371	1.00	0.00	C
ATOM	423	C	THR	A	30	3.598	-1.036	-5.723	1.00	0.00	C
ATOM	424	O	THR	A	30	4.501	-0.298	-5.324	1.00	0.00	O
ATOM	425	CB	THR	A	30	1.632	0.432	-5.308	1.00	0.00	C
ATOM	426	OG1	THR	A	30	1.204	-0.402	-4.224	1.00	0.00	O
ATOM	427	CG2	THR	A	30	0.476	1.211	-5.909	1.00	0.00	C
ATOM	428	H	THR	A	30	0.845	-1.936	-6.329	1.00	0.00	H
ATOM	429	HA	THR	A	30	2.706	0.211	-7.187	1.00	0.00	H

ATOM	430	HB	THR	A	30	2.373	1.123	-4.883	1.00	0.00	H
ATOM	431	HG1	THR	A	30	0.286	-0.712	-4.393	1.00	0.00	H
ATOM	432	HG21	THR	A	30	0.780	1.713	-6.837	1.00	0.00	H
ATOM	433	HG22	THR	A	30	0.119	1.966	-5.205	1.00	0.00	H
ATOM	434	HG23	THR	A	30	-0.356	0.544	-6.156	1.00	0.00	H
ATOM	435	N	GLY	A	31	3.605	-2.380	-5.539	1.00	0.00	N
ATOM	436	CA	GLY	A	31	4.569	-2.985	-4.655	1.00	0.00	C
ATOM	437	C	GLY	A	31	4.290	-2.809	-3.163	1.00	0.00	C
ATOM	438	O	GLY	A	31	5.093	-3.257	-2.329	1.00	0.00	O
ATOM	439	H	GLY	A	31	2.781	-2.919	-5.797	1.00	0.00	H
ATOM	440	HA1	GLY	A	31	4.612	-4.067	-4.840	1.00	0.00	H
ATOM	441	HA2	GLY	A	31	5.569	-2.569	-4.844	1.00	0.00	H
ATOM	442	N	CYS	A	32	3.163	-2.171	-2.801	1.00	0.00	N
ATOM	443	CA	CYS	A	32	2.723	-2.212	-1.424	1.00	0.00	C
ATOM	444	C	CYS	A	32	2.300	-3.669	-1.071	1.00	0.00	C
ATOM	445	O	CYS	A	32	1.984	-4.475	-1.943	1.00	0.00	O
ATOM	446	CB	CYS	A	32	1.567	-1.240	-1.157	1.00	0.00	C
ATOM	447	SG	CYS	A	32	1.910	0.538	-1.547	1.00	0.00	S
ATOM	448	H	CYS	A	32	2.478	-1.916	-3.514	1.00	0.00	H
ATOM	449	HA	CYS	A	32	3.562	-1.943	-0.773	1.00	0.00	H
ATOM	450	HB1	CYS	A	32	0.693	-1.494	-1.773	1.00	0.00	H
ATOM	451	HB2	CYS	A	32	1.274	-1.298	-0.102	1.00	0.00	H
ATOM	452	N	ILE	A	33	2.313	-3.957	0.252	1.00	0.00	N
ATOM	453	CA	ILE	A	33	1.980	-5.270	0.747	1.00	0.00	C
ATOM	454	C	ILE	A	33	0.868	-5.165	1.796	1.00	0.00	C
ATOM	455	O	ILE	A	33	0.483	-4.087	2.269	1.00	0.00	O
ATOM	456	CB	ILE	A	33	3.224	-6.052	1.276	1.00	0.00	C
ATOM	457	CG1	ILE	A	33	3.823	-5.350	2.510	1.00	0.00	C
ATOM	458	CG2	ILE	A	33	4.214	-6.293	0.130	1.00	0.00	C
ATOM	459	CD1	ILE	A	33	5.067	-6.007	3.106	1.00	0.00	C
ATOM	460	H	ILE	A	33	2.566	-3.222	0.917	1.00	0.00	H
ATOM	461	HA	ILE	A	33	1.574	-5.825	-0.112	1.00	0.00	H
ATOM	462	HB	ILE	A	33	2.860	-7.045	1.605	1.00	0.00	H
ATOM	463	HG11	ILE	A	33	4.072	-4.313	2.246	1.00	0.00	H
ATOM	464	HG12	ILE	A	33	3.037	-5.291	3.285	1.00	0.00	H
ATOM	465	HG21	ILE	A	33	5.068	-6.898	0.462	1.00	0.00	H
ATOM	466	HG22	ILE	A	33	4.613	-5.356	-0.276	1.00	0.00	H
ATOM	467	HG23	ILE	A	33	3.723	-6.827	-0.699	1.00	0.00	H
ATOM	468	HD11	ILE	A	33	4.898	-7.075	3.328	1.00	0.00	H
ATOM	469	HD12	ILE	A	33	5.353	-5.510	4.045	1.00	0.00	H
ATOM	470	HD13	ILE	A	33	5.932	-5.926	2.433	1.00	0.00	H
ATOM	471	N	ILE	A	34	0.326	-6.348	2.165	1.00	0.00	N
ATOM	472	CA	ILE	A	34	-0.724	-6.479	3.161	1.00	0.00	C
ATOM	473	C	ILE	A	34	-0.215	-7.497	4.185	1.00	0.00	C
ATOM	474	O	ILE	A	34	0.159	-8.614	3.826	1.00	0.00	O
ATOM	475	CB	ILE	A	34	-2.082	-6.919	2.553	1.00	0.00	C
ATOM	476	CG1	ILE	A	34	-2.408	-6.085	1.300	1.00	0.00	C
ATOM	477	CG2	ILE	A	34	-3.172	-6.838	3.632	1.00	0.00	C
ATOM	478	CD1	ILE	A	34	-3.715	-6.446	0.597	1.00	0.00	C
ATOM	479	H	ILE	A	34	0.702	-7.213	1.787	1.00	0.00	H
ATOM	480	HA	ILE	A	34	-0.838	-5.494	3.625	1.00	0.00	H
ATOM	481	HB	ILE	A	34	-1.973	-7.976	2.248	1.00	0.00	H
ATOM	482	HG11	ILE	A	34	-2.414	-5.015	1.568	1.00	0.00	H
ATOM	483	HG12	ILE	A	34	-1.584	-6.199	0.578	1.00	0.00	H
ATOM	484	HG21	ILE	A	34	-2.889	-7.396	4.538	1.00	0.00	H
ATOM	485	HG22	ILE	A	34	-4.125	-7.257	3.278	1.00	0.00	H
ATOM	486	HG23	ILE	A	34	-3.350	-5.792	3.934	1.00	0.00	H
ATOM	487	HD11	ILE	A	34	-3.725	-7.504	0.281	1.00	0.00	H
ATOM	488	HD12	ILE	A	34	-3.838	-5.822	-0.298	1.00	0.00	H
ATOM	489	HD13	ILE	A	34	-4.596	-6.283	1.235	1.00	0.00	H
ATOM	490	N	ILE	A	35	-0.187	-7.066	5.472	1.00	0.00	N
ATOM	491	CA	ILE	A	35	0.406	-7.876	6.511	1.00	0.00	C
ATOM	492	C	ILE	A	35	-0.486	-7.896	7.748	1.00	0.00	C

ATOM	493	O	ILE	A	35	-1.280	-6.979	8.016	1.00	0.00	O
ATOM	494	CB	ILE	A	35	1.849	-7.408	6.903	1.00	0.00	C
ATOM	495	CG1	ILE	A	35	1.857	-6.057	7.644	1.00	0.00	C
ATOM	496	CG2	ILE	A	35	2.769	-7.422	5.676	1.00	0.00	C
ATOM	497	CD1	ILE	A	35	3.196	-5.713	8.298	1.00	0.00	C
ATOM	498	H	ILE	A	35	-0.505	-6.121	5.685	1.00	0.00	H
ATOM	499	HA	ILE	A	35	0.482	-8.886	6.084	1.00	0.00	H
ATOM	500	HB	ILE	A	35	2.233	-8.173	7.606	1.00	0.00	H
ATOM	501	HG11	ILE	A	35	1.572	-5.254	6.943	1.00	0.00	H
ATOM	502	HG12	ILE	A	35	1.085	-6.050	8.429	1.00	0.00	H
ATOM	503	HG21	ILE	A	35	3.811	-7.220	5.962	1.00	0.00	H
ATOM	504	HG22	ILE	A	35	2.474	-6.650	4.951	1.00	0.00	H
ATOM	505	HG23	ILE	A	35	2.740	-8.390	5.155	1.00	0.00	H
ATOM	506	HD11	ILE	A	35	3.575	-6.556	8.906	1.00	0.00	H
ATOM	507	HD12	ILE	A	35	3.095	-4.854	8.972	1.00	0.00	H
ATOM	508	HD13	ILE	A	35	3.973	-5.474	7.557	1.00	0.00	H
ATOM	509	N	PRO	A	36	-0.298	-8.914	8.627	1.00	0.00	N
ATOM	510	CA	PRO	A	36	-0.998	-8.907	9.922	1.00	0.00	C
ATOM	511	C	PRO	A	36	-0.332	-8.000	10.966	1.00	0.00	C
ATOM	512	O	PRO	A	36	-0.944	-7.655	11.972	1.00	0.00	O
ATOM	513	CB	PRO	A	36	-0.967	-10.386	10.353	1.00	0.00	C
ATOM	514	CG	PRO	A	36	0.326	-10.914	9.719	1.00	0.00	C
ATOM	515	CD	PRO	A	36	0.371	-10.209	8.359	1.00	0.00	C
ATOM	516	HA	PRO	A	36	-2.018	-8.525	9.805	1.00	0.00	H
ATOM	517	HB1	PRO	A	36	-1.005	-10.492	11.445	1.00	0.00	H
ATOM	518	HB2	PRO	A	36	-1.845	-10.903	9.934	1.00	0.00	H
ATOM	519	HG1	PRO	A	36	1.196	-10.619	10.326	1.00	0.00	H
ATOM	520	HG2	PRO	A	36	0.346	-12.007	9.616	1.00	0.00	H
ATOM	521	HD1	PRO	A	36	1.396	-10.067	7.993	1.00	0.00	H
ATOM	522	HD2	PRO	A	36	-0.191	-10.767	7.592	1.00	0.00	H
ATOM	523	N	GLY	A	37	0.973	-7.662	10.759	1.00	0.00	N
ATOM	524	CA	GLY	A	37	1.624	-6.747	11.673	1.00	0.00	C
ATOM	525	C	GLY	A	37	0.919	-5.393	11.714	1.00	0.00	C
ATOM	526	O	GLY	A	37	0.728	-4.762	10.669	1.00	0.00	O
ATOM	527	H	GLY	A	37	1.379	-7.807	9.844	1.00	0.00	H
ATOM	528	HA1	GLY	A	37	1.678	-7.193	12.678	1.00	0.00	H
ATOM	529	HA2	GLY	A	37	2.646	-6.552	11.321	1.00	0.00	H
ATOM	530	N	ALA	A	38	0.586	-4.922	12.935	1.00	0.00	N
ATOM	531	CA	ALA	A	38	-0.016	-3.601	13.129	1.00	0.00	C
ATOM	532	C	ALA	A	38	0.972	-2.470	12.764	1.00	0.00	C
ATOM	533	O	ALA	A	38	0.564	-1.415	12.305	1.00	0.00	O
ATOM	534	CB	ALA	A	38	-0.498	-3.445	14.571	1.00	0.00	C
ATOM	535	H	ALA	A	38	0.563	-5.587	13.702	1.00	0.00	H
ATOM	536	HA	ALA	A	38	-0.866	-3.474	12.443	1.00	0.00	H
ATOM	537	HB1	ALA	A	38	-1.276	-4.186	14.809	1.00	0.00	H
ATOM	538	HB2	ALA	A	38	-0.926	-2.442	14.704	1.00	0.00	H
ATOM	539	HB3	ALA	A	38	0.334	-3.560	15.284	1.00	0.00	H
ATOM	540	N	THR	A	39	2.277	-2.730	13.098	1.00	0.00	N
ATOM	541	CA	THR	A	39	3.371	-1.925	12.570	1.00	0.00	C
ATOM	542	C	THR	A	39	3.934	-2.645	11.333	1.00	0.00	C
ATOM	543	O	THR	A	39	3.895	-3.877	11.251	1.00	0.00	O
ATOM	544	CB	THR	A	39	4.439	-1.731	13.681	1.00	0.00	C
ATOM	545	OG1	THR	A	39	3.816	-1.197	14.836	1.00	0.00	O
ATOM	546	CG2	THR	A	39	5.567	-0.789	13.295	1.00	0.00	C
ATOM	547	H	THR	A	39	2.514	-3.718	13.162	1.00	0.00	H
ATOM	548	HA	THR	A	39	2.951	-0.946	12.300	1.00	0.00	H
ATOM	549	HB	THR	A	39	4.864	-2.736	13.899	1.00	0.00	H
ATOM	550	HG1	THR	A	39	2.995	-1.701	14.967	1.00	0.00	H
ATOM	551	HG21	THR	A	39	6.169	-1.167	12.456	1.00	0.00	H
ATOM	552	HG22	THR	A	39	6.229	-0.651	14.162	1.00	0.00	H
ATOM	553	HG23	THR	A	39	5.164	0.202	13.028	1.00	0.00	H
ATOM	554	N	CYS	A	40	4.444	-1.827	10.390	1.00	0.00	N
ATOM	555	CA	CYS	A	40	5.172	-2.275	9.216	1.00	0.00	C

ATOM	556	C	CYS	A	40	6.683	-2.321	9.538	1.00	0.00	C
ATOM	557	O	CYS	A	40	7.162	-1.470	10.295	1.00	0.00	O
ATOM	558	CB	CYS	A	40	4.959	-1.280	8.067	1.00	0.00	C
ATOM	559	SG	CYS	A	40	3.207	-1.024	7.567	1.00	0.00	S
ATOM	560	H	CYS	A	40	4.559	-0.849	10.636	1.00	0.00	H
ATOM	561	HA	CYS	A	40	4.785	-3.264	8.948	1.00	0.00	H
ATOM	562	HB1	CYS	A	40	5.303	-0.279	8.377	1.00	0.00	H
ATOM	563	HB2	CYS	A	40	5.552	-1.535	7.181	1.00	0.00	H
ATOM	564	N	PRO	A	41	7.432	-3.276	8.943	1.00	0.00	N
ATOM	565	CA	PRO	A	41	8.892	-3.223	9.066	1.00	0.00	C
ATOM	566	C	PRO	A	41	9.392	-1.983	8.298	1.00	0.00	C
ATOM	567	O	PRO	A	41	8.691	-1.455	7.431	1.00	0.00	O
ATOM	568	CB	PRO	A	41	9.351	-4.569	8.478	1.00	0.00	C
ATOM	569	CG	PRO	A	41	8.296	-4.872	7.405	1.00	0.00	C
ATOM	570	CD	PRO	A	41	6.989	-4.262	7.937	1.00	0.00	C
ATOM	571	HA	PRO	A	41	9.165	-3.107	10.125	1.00	0.00	H
ATOM	572	HB1	PRO	A	41	10.351	-4.511	8.023	1.00	0.00	H
ATOM	573	HB2	PRO	A	41	9.340	-5.323	9.283	1.00	0.00	H
ATOM	574	HG1	PRO	A	41	8.613	-4.422	6.454	1.00	0.00	H
ATOM	575	HG2	PRO	A	41	8.194	-5.950	7.215	1.00	0.00	H
ATOM	576	HD1	PRO	A	41	6.409	-3.777	7.137	1.00	0.00	H
ATOM	577	HD2	PRO	A	41	6.345	-5.013	8.423	1.00	0.00	H
ATOM	578	N	GLY	A	42	10.598	-1.484	8.650	1.00	0.00	N
ATOM	579	CA	GLY	A	42	11.088	-0.201	8.155	1.00	0.00	C
ATOM	580	C	GLY	A	42	11.163	-0.050	6.621	1.00	0.00	C
ATOM	581	O	GLY	A	42	10.791	1.002	6.088	1.00	0.00	O
ATOM	582	H	GLY	A	42	11.166	-2.005	9.306	1.00	0.00	H
ATOM	583	HA1	GLY	A	42	10.447	0.615	8.512	1.00	0.00	H
ATOM	584	HA2	GLY	A	42	12.094	-0.052	8.573	1.00	0.00	H
ATOM	585	N	ASP	A	43	11.659	-1.118	5.977	1.00	0.00	N
ATOM	586	CA	ASP	A	43	11.635	-1.319	4.528	1.00	0.00	C
ATOM	587	C	ASP	A	43	10.282	-0.999	3.862	1.00	0.00	C
ATOM	588	O	ASP	A	43	10.216	-0.620	2.695	1.00	0.00	O
ATOM	589	CB	ASP	A	43	11.973	-2.815	4.262	1.00	0.00	C
ATOM	590	CG	ASP	A	43	11.174	-3.755	5.211	1.00	0.00	C
ATOM	591	OD2	ASP	A	43	11.526	-3.683	6.440	1.00	0.00	O
ATOM	592	OD1	ASP	A	43	10.247	-4.446	4.743	1.00	0.00	O
ATOM	593	H	ASP	A	43	11.768	-2.030	6.485	1.00	0.00	H
ATOM	594	HA	ASP	A	43	12.365	-0.666	4.028	1.00	0.00	H
ATOM	595	HB1	ASP	A	43	11.760	-3.038	3.209	1.00	0.00	H
ATOM	596	HB2	ASP	A	43	13.049	-2.965	4.444	1.00	0.00	H
ATOM	597	N	TYR	A	44	9.214	-1.245	4.652	1.00	0.00	N
ATOM	598	CA	TYR	A	44	7.839	-1.181	4.240	1.00	0.00	C
ATOM	599	C	TYR	A	44	7.037	-0.202	5.110	1.00	0.00	C
ATOM	600	O	TYR	A	44	5.804	-0.302	5.224	1.00	0.00	O
ATOM	601	CB	TYR	A	44	7.226	-2.603	4.173	1.00	0.00	C
ATOM	602	CG	TYR	A	44	7.249	-3.155	2.771	1.00	0.00	C
ATOM	603	CD2	TYR	A	44	8.321	-3.910	2.271	1.00	0.00	C
ATOM	604	CD1	TYR	A	44	6.196	-2.853	1.904	1.00	0.00	C
ATOM	605	CE2	TYR	A	44	8.330	-4.337	0.942	1.00	0.00	C
ATOM	606	CE1	TYR	A	44	6.181	-3.298	0.587	1.00	0.00	C
ATOM	607	CZ	TYR	A	44	7.266	-4.029	0.082	1.00	0.00	C
ATOM	608	OH	TYR	A	44	7.320	-4.456	-1.208	1.00	0.00	O
ATOM	609	H	TYR	A	44	9.368	-1.572	5.603	1.00	0.00	H
ATOM	610	HA	TYR	A	44	7.823	-0.734	3.236	1.00	0.00	H
ATOM	611	HB1	TYR	A	44	7.798	-3.250	4.851	1.00	0.00	H
ATOM	612	HB2	TYR	A	44	6.194	-2.564	4.538	1.00	0.00	H
ATOM	613	HD2	TYR	A	44	9.149	-4.167	2.939	1.00	0.00	H
ATOM	614	HD1	TYR	A	44	5.352	-2.270	2.267	1.00	0.00	H
ATOM	615	HE2	TYR	A	44	9.168	-4.918	0.550	1.00	0.00	H
ATOM	616	HE1	TYR	A	44	5.330	-3.100	-0.058	1.00	0.00	H
ATOM	617	HH	TYR	A	44	6.545	-4.108	-1.702	1.00	0.00	H
ATOM	618	N	ALA	A	45	7.738	0.805	5.668	1.00	0.00	N

ATOM	619	CA	ALA	A	45	7.139	1.767	6.580	1.00	0.00	C
ATOM	620	C	ALA	A	45	6.936	3.131	5.902	1.00	0.00	C
ATOM	621	O	ALA	A	45	7.095	4.202	6.511	1.00	0.00	O
ATOM	622	CB	ALA	A	45	7.905	1.873	7.893	1.00	0.00	C
ATOM	623	H	ALA	A	45	8.759	0.799	5.597	1.00	0.00	H
ATOM	624	HA	ALA	A	45	6.113	1.403	6.759	1.00	0.00	H
ATOM	625	HB1	ALA	A	45	7.906	0.901	8.405	1.00	0.00	H
ATOM	626	HB2	ALA	A	45	7.438	2.630	8.537	1.00	0.00	H
ATOM	627	HB3	ALA	A	45	8.945	2.179	7.705	1.00	0.00	H
ATOM	628	N	ASN	A	46	6.518	3.078	4.623	1.00	0.00	N
ATOM	629	CA	ASN	A	46	5.803	4.167	3.994	1.00	0.00	C
ATOM	630	C	ASN	A	46	4.359	3.720	3.637	1.00	0.00	C
ATOM	631	OXT	ASN	A	46	3.955	2.618	4.107	1.00	0.00	O
ATOM	632	CB	ASN	A	46	6.552	4.761	2.795	1.00	0.00	C
ATOM	633	CG	ASN	A	46	7.847	5.520	3.063	1.00	0.00	C
ATOM	634	OD1	ASN	A	46	8.496	6.006	2.111	1.00	0.00	O
ATOM	635	ND2	ASN	A	46	8.252	5.688	4.330	1.00	0.00	N
ATOM	636	O	ASN	A	46	3.682	4.523	2.939	1.00	0.00	O
ATOM	637	H	ASN	A	46	6.406	2.173	4.170	1.00	0.00	H
ATOM	638	HA	ASN	A	46	5.671	4.949	4.759	1.00	0.00	H
ATOM	639	HB1	ASN	A	46	6.799	3.954	2.089	1.00	0.00	H
ATOM	640	HB2	ASN	A	46	5.875	5.451	2.271	1.00	0.00	H
ATOM	641	HD21	ASN	A	46	7.812	5.253	5.154	1.00	0.00	H
ATOM	642	HD22	ASN	A	46	9.139	6.166	4.455	1.00	0.00	H
END											

2) CRAMBIN – molecule as in the optimized 0W crystal

COMPND	CRAMBIN OPTIMIZED CRYSTAL 0W GEOMETRY										
AUTHOR	DELLE PIANE, CORNO, ORLANDO, DOVESI, UGLIENGO										
ATOM	1	N	THR	N	1	-7.130	-5.367	-3.415	1.00	0.00	N
ATOM	2	H1	THR	N	1	-7.808	-5.844	-4.016	1.00	0.00	H
ATOM	3	H2	THR	N	1	-7.455	-5.409	-2.434	1.00	0.00	H
ATOM	4	H3	THR	N	1	-6.249	-5.927	-3.476	1.00	0.00	H
ATOM	5	CA	THR	N	1	-6.943	-3.934	-3.779	1.00	0.00	C
ATOM	6	HA	THR	N	1	-7.907	-3.544	-4.134	1.00	0.00	H
ATOM	7	C	THR	N	1	-5.859	-3.842	-4.847	1.00	0.00	C
ATOM	8	CB	THR	N	1	-6.480	-3.169	-2.492	1.00	0.00	C
ATOM	9	O	THR	N	1	-4.905	-4.641	-4.820	1.00	0.00	O
ATOM	10	N	THR	N	2	-5.980	-2.809	-5.680	1.00	0.00	N
ATOM	11	HB	THR	N	1	-5.416	-3.420	-2.342	1.00	0.00	H
ATOM	12	OG1	THR	N	1	-7.240	-3.648	-1.392	1.00	0.00	O
ATOM	13	CG2	THR	N	1	-6.639	-1.665	-2.642	1.00	0.00	C
ATOM	14	H	THR	N	2	-6.887	-2.331	-5.781	1.00	0.00	H
ATOM	15	CA	THR	N	2	-4.922	-2.459	-6.603	1.00	0.00	C
ATOM	16	HG1	THR	N	1	-6.662	-4.306	-0.939	1.00	0.00	H
ATOM	17	HG21	THR	N	1	-6.323	-1.179	-1.708	1.00	0.00	H
ATOM	18	HG22	THR	N	1	-6.018	-1.275	-3.461	1.00	0.00	H
ATOM	19	HG23	THR	N	1	-7.693	-1.400	-2.825	1.00	0.00	H
ATOM	20	HA	THR	N	2	-4.511	-3.379	-7.022	1.00	0.00	H
ATOM	21	C	THR	N	2	-3.775	-1.719	-5.910	1.00	0.00	C
ATOM	22	CB	THR	N	2	-5.496	-1.627	-7.782	1.00	0.00	C
ATOM	23	O	THR	N	2	-3.948	-0.892	-5.009	1.00	0.00	O
ATOM	24	N	CYS	N	3	-2.574	-2.037	-6.444	1.00	0.00	N
ATOM	25	HB	THR	N	2	-4.637	-1.175	-8.308	1.00	0.00	H
ATOM	26	OG1	THR	N	2	-6.278	-0.558	-7.265	1.00	0.00	O
ATOM	27	CG2	THR	N	2	-6.217	-2.562	-8.755	1.00	0.00	C
ATOM	28	H	CYS	N	3	-2.562	-2.704	-7.215	1.00	0.00	H

ATOM	29	CA	CYS	N	3	-1.309	-1.392	-6.145	1.00	0.00	C
ATOM	30	HG1	THR	N	2	-7.238	-0.655	-7.511	1.00	0.00	H
ATOM	31	HG21	THR	N	2	-6.835	-2.012	-9.466	1.00	0.00	H
ATOM	32	HG22	THR	N	2	-5.471	-3.141	-9.310	1.00	0.00	H
ATOM	33	HG23	THR	N	2	-6.866	-3.258	-8.211	1.00	0.00	H
ATOM	34	HA	CYS	N	3	-1.504	-0.436	-5.645	1.00	0.00	H
ATOM	35	C	CYS	N	3	-0.600	-1.155	-7.488	1.00	0.00	C
ATOM	36	CB	CYS	N	3	-0.392	-2.240	-5.247	1.00	0.00	C
ATOM	37	O	CYS	N	3	-0.759	-1.963	-8.421	1.00	0.00	O
ATOM	38	N	CYS	N	4	0.201	-0.082	-7.559	1.00	0.00	N
ATOM	39	HB1	CYS	N	3	-0.198	-3.216	-5.713	1.00	0.00	H
ATOM	40	HB2	CYS	N	3	0.582	-1.746	-5.106	1.00	0.00	H
ATOM	41	SG	CYS	N	3	-1.101	-2.668	-3.608	1.00	0.00	S
ATOM	42	H	CYS	N	4	0.186	0.617	-6.791	1.00	0.00	H
ATOM	43	CA	CYS	N	4	0.708	0.360	-8.843	1.00	0.00	C
ATOM	44	SG	CYS	N	40	-0.971	-0.887	-2.536	1.00	0.00	S
ATOM	45	HA	CYS	N	4	0.448	-0.422	-9.561	1.00	0.00	H
ATOM	46	C	CYS	N	4	2.226	0.537	-8.829	1.00	0.00	C
ATOM	47	CB	CYS	N	4	0.031	1.676	-9.259	1.00	0.00	C
ATOM	48	CB	CYS	N	40	0.807	-0.801	-2.025	1.00	0.00	C
ATOM	49	O	CYS	N	4	2.817	1.042	-7.866	1.00	0.00	O
ATOM	50	N	PRO	N	5	2.882	0.167	-9.952	1.00	0.00	N
ATOM	51	HB1	CYS	N	4	-0.017	2.359	-8.399	1.00	0.00	H
ATOM	52	HB2	CYS	N	4	0.574	2.187	-10.065	1.00	0.00	H
ATOM	53	SG	CYS	N	4	-1.708	1.443	-9.792	1.00	0.00	S
ATOM	54	HB1	CYS	N	40	1.412	-0.460	-2.877	1.00	0.00	H
ATOM	55	HB2	CYS	N	40	0.827	-0.014	-1.256	1.00	0.00	H
ATOM	56	CA	CYS	N	40	1.374	-2.122	-1.511	1.00	0.00	C
ATOM	57	CA	PRO	N	5	4.354	0.202	-10.031	1.00	0.00	C
ATOM	58	CD	PRO	N	5	2.271	-0.355	-11.196	1.00	0.00	C
ATOM	59	SG	CYS	N	32	-1.453	0.620	-11.699	1.00	0.00	S
ATOM	60	HA	CYS	N	40	1.253	-2.866	-2.301	1.00	0.00	H
ATOM	61	N	CYS	N	40	0.669	-2.650	-0.346	1.00	0.00	N
ATOM	62	C	CYS	N	40	2.857	-1.973	-1.129	1.00	0.00	C
ATOM	63	HA	PRO	N	5	4.815	-0.332	-9.190	1.00	0.00	H
ATOM	64	C	PRO	N	5	4.950	1.602	-9.973	1.00	0.00	C
ATOM	65	CB	PRO	N	5	4.653	-0.496	-11.378	1.00	0.00	C
ATOM	66	HD1	PRO	N	5	1.381	0.216	-11.481	1.00	0.00	H
ATOM	67	HD2	PRO	N	5	1.990	-1.408	-11.067	1.00	0.00	H
ATOM	68	CG	PRO	N	5	3.395	-0.230	-12.208	1.00	0.00	C
ATOM	69	CB	CYS	N	32	-1.841	-1.187	-11.524	1.00	0.00	C
ATOM	70	H	CYS	N	40	0.318	-2.006	0.355	1.00	0.00	H
ATOM	71	C	THR	N	39	0.652	-3.985	-0.104	1.00	0.00	C
ATOM	72	O	CYS	N	40	3.151	-1.162	-0.228	1.00	0.00	O
ATOM	73	N	PRO	N	41	3.753	-2.778	-1.730	1.00	0.00	N
ATOM	74	O	PRO	N	5	6.163	1.751	-9.762	1.00	0.00	O
ATOM	75	N	SER	N	6	4.143	2.647	-10.207	1.00	0.00	N
ATOM	76	HB1	PRO	N	5	5.567	-0.120	-11.851	1.00	0.00	H
ATOM	77	HB2	PRO	N	5	4.783	-1.573	-11.197	1.00	0.00	H
ATOM	78	HG1	PRO	N	5	3.281	-0.902	-13.061	1.00	0.00	H
ATOM	79	HG2	PRO	N	5	3.417	0.789	-12.609	1.00	0.00	H
ATOM	80	HB1	CYS	N	32	-2.260	-1.321	-10.520	1.00	0.00	H
ATOM	81	HB2	CYS	N	32	-2.649	-1.360	-12.245	1.00	0.00	H
ATOM	82	CA	CYS	N	32	-0.689	-2.187	-11.755	1.00	0.00	C
ATOM	83	O	THR	N	39	1.141	-4.805	-0.882	1.00	0.00	O
ATOM	84	CA	THR	N	39	-0.068	-4.441	1.179	1.00	0.00	C
ATOM	85	CA	PRO	N	41	5.178	-2.750	-1.405	1.00	0.00	C
ATOM	86	CD	PRO	N	41	3.530	-3.848	-2.724	1.00	0.00	C
ATOM	87	H	SER	N	6	3.138	2.529	-10.271	1.00	0.00	H
ATOM	88	CA	SER	N	6	4.631	4.003	-10.107	1.00	0.00	C
ATOM	89	HA	CYS	N	32	0.069	-2.035	-10.976	1.00	0.00	H
ATOM	90	N	CYS	N	32	-0.075	-2.031	-13.053	1.00	0.00	N
ATOM	91	C	CYS	N	32	-1.152	-3.666	-11.558	1.00	0.00	C

ATOM	92	HA	THR	N	39	-0.037	-3.660	1.951	1.00	0.00	H
ATOM	93	N	THR	N	39	-1.480	-4.619	0.851	1.00	0.00	N
ATOM	94	CB	THR	N	39	0.581	-5.736	1.730	1.00	0.00	C
ATOM	95	HA	PRO	N	41	5.298	-2.363	-0.391	1.00	0.00	H
ATOM	96	C	PRO	N	41	5.918	-1.796	-2.355	1.00	0.00	C
ATOM	97	CB	PRO	N	41	5.638	-4.227	-1.546	1.00	0.00	C
ATOM	98	HD1	PRO	N	41	2.489	-4.173	-2.725	1.00	0.00	H
ATOM	99	HD2	PRO	N	41	3.809	-3.460	-3.712	1.00	0.00	H
ATOM	100	CG	PRO	N	41	4.472	-4.957	-2.251	1.00	0.00	C
ATOM	101	HA	SER	N	6	5.304	4.071	-9.239	1.00	0.00	H
ATOM	102	C	SER	N	6	3.436	4.920	-9.895	1.00	0.00	C
ATOM	103	CB	SER	N	6	5.383	4.440	-11.368	1.00	0.00	C
ATOM	104	H	CYS	N	32	-0.671	-1.687	-13.806	1.00	0.00	H
ATOM	105	C	GLY	N	31	1.054	-2.707	-13.384	1.00	0.00	C
ATOM	106	O	CYS	N	32	-0.995	-4.508	-12.449	1.00	0.00	O
ATOM	107	N	ILE	N	33	-1.688	-3.928	-10.350	1.00	0.00	N
ATOM	108	H	THR	N	39	-1.712	-5.288	0.122	1.00	0.00	H
ATOM	109	C	ALA	N	38	-2.480	-3.890	1.404	1.00	0.00	C
ATOM	110	HB	THR	N	39	0.612	-6.460	0.892	1.00	0.00	H
ATOM	111	OG1	THR	N	39	-0.133	-6.261	2.823	1.00	0.00	O
ATOM	112	CG2	THR	N	39	2.004	-5.482	2.217	1.00	0.00	C
ATOM	113	O	PRO	N	41	5.354	-1.256	-3.298	1.00	0.00	O
ATOM	114	N	GLY	N	42	7.249	-1.605	-2.120	1.00	0.00	N
ATOM	115	HB1	PRO	N	41	6.552	-4.297	-2.147	1.00	0.00	H
ATOM	116	HB2	PRO	N	41	5.842	-4.656	-0.554	1.00	0.00	H
ATOM	117	HG1	PRO	N	41	4.840	-5.545	-3.100	1.00	0.00	H
ATOM	118	HG2	PRO	N	41	3.935	-5.607	-1.544	1.00	0.00	H
ATOM	119	O	SER	N	6	2.271	4.543	-10.077	1.00	0.00	O
ATOM	120	N	ILE	N	7	3.757	6.199	-9.604	1.00	0.00	N
ATOM	121	HB1	SER	N	6	6.149	3.691	-11.614	1.00	0.00	H
ATOM	122	HB2	SER	N	6	5.907	5.392	-11.172	1.00	0.00	H
ATOM	123	OG	SER	N	6	4.451	4.590	-12.428	1.00	0.00	O
ATOM	124	O	GLY	N	31	1.793	-3.244	-12.553	1.00	0.00	O
ATOM	125	CA	GLY	N	31	1.418	-2.786	-14.874	1.00	0.00	C
ATOM	126	H	ILE	N	33	-1.631	-3.194	-9.641	1.00	0.00	H
ATOM	127	CA	ILE	N	33	-1.881	-5.273	-9.835	1.00	0.00	C
ATOM	128	O	ALA	N	38	-2.290	-3.044	2.280	1.00	0.00	O
ATOM	129	CA	ALA	N	38	-3.888	-4.156	0.811	1.00	0.00	C
ATOM	130	HG1	THR	N	39	-1.105	-6.218	2.685	1.00	0.00	H
ATOM	131	HG21	THR	N	39	2.653	-5.123	1.405	1.00	0.00	H
ATOM	132	HG22	THR	N	39	2.424	-6.419	2.611	1.00	0.00	H
ATOM	133	HG23	THR	N	39	1.995	-4.755	3.046	1.00	0.00	H
ATOM	134	H	GLY	N	42	7.625	-1.833	-1.205	1.00	0.00	H
ATOM	135	CA	GLY	N	42	7.982	-0.608	-2.887	1.00	0.00	C
ATOM	136	H	ILE	N	7	4.673	6.357	-9.198	1.00	0.00	H
ATOM	137	CA	ILE	N	7	2.731	7.196	-9.351	1.00	0.00	C
ATOM	138	H	SER	N	6	4.889	5.157	-13.109	1.00	0.00	H
ATOM	139	HA1	GLY	N	31	1.443	-3.857	-15.121	1.00	0.00	H
ATOM	140	HA2	GLY	N	31	2.435	-2.384	-14.982	1.00	0.00	H
ATOM	141	N	GLY	N	31	0.529	-2.105	-15.786	1.00	0.00	N
ATOM	142	HA	ILE	N	33	-1.930	-5.968	-10.679	1.00	0.00	H
ATOM	143	C	ILE	N	33	-3.183	-5.283	-9.061	1.00	0.00	C
ATOM	144	CB	ILE	N	33	-0.685	-5.738	-8.913	1.00	0.00	C
ATOM	145	HA	ALA	N	38	-3.829	-3.921	-0.265	1.00	0.00	H
ATOM	146	N	ALA	N	38	-4.211	-5.581	0.930	1.00	0.00	N
ATOM	147	CB	ALA	N	38	-4.948	-3.268	1.461	1.00	0.00	C
ATOM	148	HA1	GLY	N	42	8.991	-0.532	-2.460	1.00	0.00	H
ATOM	149	HA2	GLY	N	42	7.517	0.387	-2.803	1.00	0.00	H
ATOM	150	C	GLY	N	42	8.113	-0.876	-4.392	1.00	0.00	C
ATOM	151	HA	ILE	N	7	1.958	6.765	-8.697	1.00	0.00	H
ATOM	152	C	ILE	N	7	1.972	7.532	-10.645	1.00	0.00	C
ATOM	153	CB	ILE	N	7	3.348	8.430	-8.646	1.00	0.00	C
ATOM	154	H	GLY	N	31	-0.318	-2.594	-16.068	1.00	0.00	H

ATOM	155	C	THR	N	30	0.613	-0.760	-15.949	1.00	0.00	C
ATOM	156	O	ILE	N	33	-3.627	-4.232	-8.594	1.00	0.00	O
ATOM	157	N	ILE	N	34	-3.785	-6.485	-8.831	1.00	0.00	N
ATOM	158	HB	ILE	N	33	-0.644	-6.837	-9.014	1.00	0.00	H
ATOM	159	CG2	ILE	N	33	0.616	-5.147	-9.456	1.00	0.00	C
ATOM	160	CG1	ILE	N	33	-0.889	-5.388	-7.422	1.00	0.00	C
ATOM	161	H	ALA	N	38	-3.827	-6.047	1.775	1.00	0.00	H
ATOM	162	C	GLY	N	37	-5.087	-6.214	0.137	1.00	0.00	C
ATOM	163	HB1	ALA	N	38	-5.903	-3.360	0.929	1.00	0.00	H
ATOM	164	HB2	ALA	N	38	-4.634	-2.216	1.435	1.00	0.00	H
ATOM	165	HB3	ALA	N	38	-5.097	-3.557	2.510	1.00	0.00	H
ATOM	166	O	GLY	N	42	8.383	0.061	-5.149	1.00	0.00	O
ATOM	167	N	ASP	N	43	7.967	-2.155	-4.800	1.00	0.00	N
ATOM	168	O	ILE	N	7	0.745	7.671	-10.617	1.00	0.00	O
ATOM	169	N	VAL	N	8	2.697	7.684	-11.780	1.00	0.00	N
ATOM	170	HB	ILE	N	7	4.268	8.706	-9.198	1.00	0.00	H
ATOM	171	CG2	ILE	N	7	2.390	9.608	-8.723	1.00	0.00	C
ATOM	172	CG1	ILE	N	7	3.724	8.058	-7.194	1.00	0.00	C
ATOM	173	O	THR	N	30	1.553	-0.091	-15.517	1.00	0.00	O
ATOM	174	CA	THR	N	30	-0.585	-0.046	-16.594	1.00	0.00	C
ATOM	175	H	ILE	N	34	-3.277	-7.325	-9.101	1.00	0.00	H
ATOM	176	CA	ILE	N	34	-4.654	-6.626	-7.659	1.00	0.00	C
ATOM	177	HG21	ILE	N	33	1.478	-5.520	-8.906	1.00	0.00	H
ATOM	178	HG22	ILE	N	33	0.624	-4.057	-9.342	1.00	0.00	H
ATOM	179	HG23	ILE	N	33	0.775	-5.380	-10.517	1.00	0.00	H
ATOM	180	HG11	ILE	N	33	-1.048	-4.304	-7.340	1.00	0.00	H
ATOM	181	HG12	ILE	N	33	-1.810	-5.861	-7.047	1.00	0.00	H
ATOM	182	CD1	ILE	N	33	0.257	-5.796	-6.492	1.00	0.00	C
ATOM	183	O	GLY	N	37	-5.619	-5.695	-0.864	1.00	0.00	O
ATOM	184	CA	GLY	N	37	-5.454	-7.640	0.563	1.00	0.00	C
ATOM	185	H	ASP	N	43	7.497	-2.843	-4.202	1.00	0.00	H
ATOM	186	CA	ASP	N	43	7.834	-2.479	-6.217	1.00	0.00	C
ATOM	187	H	VAL	N	8	3.676	7.407	-11.772	1.00	0.00	H
ATOM	188	CA	VAL	N	8	2.025	7.902	-13.061	1.00	0.00	C
ATOM	189	HG21	ILE	N	7	2.784	10.462	-8.167	1.00	0.00	H
ATOM	190	HG22	ILE	N	7	2.240	9.935	-9.760	1.00	0.00	H
ATOM	191	HG23	ILE	N	7	1.405	9.344	-8.311	1.00	0.00	H
ATOM	192	HG11	ILE	N	7	4.412	7.200	-7.209	1.00	0.00	H
ATOM	193	HG12	ILE	N	7	2.810	7.688	-6.696	1.00	0.00	H
ATOM	194	CD1	ILE	N	7	4.347	9.162	-6.341	1.00	0.00	C
ATOM	195	HA	THR	N	30	-0.194	0.578	-17.409	1.00	0.00	H
ATOM	196	N	THR	N	30	-1.623	-0.895	-17.154	1.00	0.00	N
ATOM	197	CB	THR	N	30	-1.198	0.852	-15.491	1.00	0.00	C
ATOM	198	HA	ILE	N	34	-4.611	-5.665	-7.134	1.00	0.00	H
ATOM	199	C	ILE	N	34	-4.056	-7.736	-6.798	1.00	0.00	C
ATOM	200	CB	ILE	N	34	-6.152	-6.983	-7.917	1.00	0.00	C
ATOM	201	HD11	ILE	N	33	0.479	-6.871	-6.564	1.00	0.00	H
ATOM	202	HD12	ILE	N	33	1.188	-5.254	-6.714	1.00	0.00	H
ATOM	203	HD13	ILE	N	33	-0.004	-5.589	-5.442	1.00	0.00	H
ATOM	204	HA1	GLY	N	37	-4.762	-8.010	1.329	1.00	0.00	H
ATOM	205	HA2	GLY	N	37	-6.467	-7.590	0.988	1.00	0.00	H
ATOM	206	N	GLY	N	37	-5.479	-8.554	-0.552	1.00	0.00	N
ATOM	207	HA	ASP	N	43	8.654	-1.992	-6.752	1.00	0.00	H
ATOM	208	CB	ASP	N	43	7.921	-4.003	-6.415	1.00	0.00	C
ATOM	209	C	ASP	N	43	6.546	-1.863	-6.812	1.00	0.00	C
ATOM	210	HA	VAL	N	8	1.228	8.637	-12.881	1.00	0.00	H
ATOM	211	C	VAL	N	8	1.268	6.651	-13.520	1.00	0.00	C
ATOM	212	CB	VAL	N	8	2.985	8.471	-14.134	1.00	0.00	C
ATOM	213	HD11	ILE	N	7	5.286	9.557	-6.753	1.00	0.00	H
ATOM	214	HD12	ILE	N	7	3.668	10.015	-6.194	1.00	0.00	H
ATOM	215	HD13	ILE	N	7	4.586	8.770	-5.340	1.00	0.00	H
ATOM	216	H	THR	N	30	-2.154	-1.487	-16.517	1.00	0.00	H
ATOM	217	C	TYR	N	29	-2.127	-0.721	-18.403	1.00	0.00	C

ATOM	218	HB	THR	N	30	-0.368	1.395	-15.022	1.00	0.00	H
ATOM	219	OG1	THR	N	30	-1.745	0.009	-14.470	1.00	0.00	O
ATOM	220	CG2	THR	N	30	-2.224	1.840	-16.020	1.00	0.00	C
ATOM	221	O	ILE	N	34	-3.739	-8.824	-7.301	1.00	0.00	O
ATOM	222	N	ILE	N	35	-3.943	-7.452	-5.487	1.00	0.00	N
ATOM	223	HB	ILE	N	34	-6.215	-8.078	-7.998	1.00	0.00	H
ATOM	224	CG1	ILE	N	34	-6.710	-6.420	-9.230	1.00	0.00	C
ATOM	225	CG2	ILE	N	34	-7.004	-6.561	-6.708	1.00	0.00	C
ATOM	226	H	GLY	N	37	-4.581	-8.979	-0.785	1.00	0.00	H
ATOM	227	C	PRO	N	36	-6.613	-9.091	-1.054	1.00	0.00	C
ATOM	228	HB1	ASP	N	43	7.753	-4.246	-7.475	1.00	0.00	H
ATOM	229	HB2	ASP	N	43	8.949	-4.324	-6.179	1.00	0.00	H
ATOM	230	CG	ASP	N	43	6.973	-4.902	-5.565	1.00	0.00	C
ATOM	231	O	ASP	N	43	6.593	-1.032	-7.742	1.00	0.00	O
ATOM	232	N	TYR	N	44	5.403	-2.274	-6.247	1.00	0.00	N
ATOM	233	O	VAL	N	8	0.183	6.784	-14.100	1.00	0.00	O
ATOM	234	N	ALA	N	9	1.784	5.436	-13.248	1.00	0.00	N
ATOM	235	HB	VAL	N	8	3.902	7.856	-14.120	1.00	0.00	H
ATOM	236	CG2	VAL	N	8	3.359	9.912	-13.752	1.00	0.00	C
ATOM	237	CG1	VAL	N	8	2.380	8.390	-15.544	1.00	0.00	C
ATOM	238	O	TYR	N	29	-1.618	0.007	-19.257	1.00	0.00	O
ATOM	239	CA	TYR	N	29	-3.448	-1.446	-18.711	1.00	0.00	C
ATOM	240	HG1	THR	N	30	-2.654	-0.276	-14.706	1.00	0.00	H
ATOM	241	HG21	THR	N	30	-2.437	2.594	-15.258	1.00	0.00	H
ATOM	242	HG22	THR	N	30	-3.157	1.325	-16.284	1.00	0.00	H
ATOM	243	HG23	THR	N	30	-1.855	2.352	-16.921	1.00	0.00	H
ATOM	244	H	ILE	N	35	-4.268	-6.536	-5.166	1.00	0.00	H
ATOM	245	CA	ILE	N	35	-3.725	-8.490	-4.497	1.00	0.00	C
ATOM	246	HG11	ILE	N	34	-6.697	-5.319	-9.199	1.00	0.00	H
ATOM	247	HG12	ILE	N	34	-6.041	-6.697	-10.062	1.00	0.00	H
ATOM	248	CD1	ILE	N	34	-8.119	-6.939	-9.515	1.00	0.00	C
ATOM	249	HG21	ILE	N	34	-6.560	-6.914	-5.769	1.00	0.00	H
ATOM	250	HG22	ILE	N	34	-8.010	-7.001	-6.769	1.00	0.00	H
ATOM	251	HG23	ILE	N	34	-7.123	-5.466	-6.665	1.00	0.00	H
ATOM	252	O	PRO	N	36	-7.740	-8.902	-0.591	1.00	0.00	O
ATOM	253	CA	PRO	N	36	-6.464	-9.999	-2.293	1.00	0.00	C
ATOM	254	OD1	ASP	N	43	6.939	-6.102	-5.866	1.00	0.00	O
ATOM	255	OD2	ASP	N	43	6.317	-4.313	-4.627	1.00	0.00	O
ATOM	256	H	TYR	N	44	5.502	-2.973	-5.487	1.00	0.00	H
ATOM	257	CA	TYR	N	44	4.091	-1.789	-6.645	1.00	0.00	C
ATOM	258	H	ALA	N	9	2.687	5.311	-12.782	1.00	0.00	H
ATOM	259	CA	ALA	N	9	0.967	4.261	-13.525	1.00	0.00	C
ATOM	260	HG21	VAL	N	8	4.089	10.326	-14.463	1.00	0.00	H
ATOM	261	HG22	VAL	N	8	3.799	9.953	-12.744	1.00	0.00	H
ATOM	262	HG23	VAL	N	8	2.476	10.572	-13.762	1.00	0.00	H
ATOM	263	HG11	VAL	N	8	3.027	8.896	-16.273	1.00	0.00	H
ATOM	264	HG12	VAL	N	8	2.258	7.348	-15.878	1.00	0.00	H
ATOM	265	HG13	VAL	N	8	1.384	8.855	-15.603	1.00	0.00	H
ATOM	266	HA	TYR	N	29	-3.402	-1.658	-19.791	1.00	0.00	H
ATOM	267	N	TYR	N	29	-3.604	-2.682	-17.958	1.00	0.00	N
ATOM	268	CB	TYR	N	29	-4.659	-0.533	-18.387	1.00	0.00	C
ATOM	269	HA	ILE	N	35	-3.566	-9.414	-5.069	1.00	0.00	H
ATOM	270	C	ILE	N	35	-5.006	-8.636	-3.676	1.00	0.00	C
ATOM	271	CB	ILE	N	35	-2.471	-8.233	-3.613	1.00	0.00	C
ATOM	272	HD11	ILE	N	34	-8.501	-6.545	-10.460	1.00	0.00	H
ATOM	273	HD12	ILE	N	34	-8.837	-6.643	-8.737	1.00	0.00	H
ATOM	274	HD13	ILE	N	34	-8.131	-8.039	-9.569	1.00	0.00	H
ATOM	275	HA	PRO	N	36	-7.313	-9.698	-2.922	1.00	0.00	H
ATOM	276	N	PRO	N	36	-5.207	-9.807	-3.032	1.00	0.00	N
ATOM	277	CB	PRO	N	36	-6.496	-11.520	-2.020	1.00	0.00	C
ATOM	278	HA	TYR	N	44	4.240	-1.231	-7.576	1.00	0.00	H
ATOM	279	CB	TYR	N	44	3.125	-2.947	-6.927	1.00	0.00	C
ATOM	280	C	TYR	N	44	3.602	-0.781	-5.593	1.00	0.00	C

ATOM	281	HA	ALA	N	9	0.712	4.248	-14.594	1.00	0.00	H
ATOM	282	CB	ALA	N	9	1.682	2.965	-13.164	1.00	0.00	C
ATOM	283	C	ALA	N	9	-0.375	4.378	-12.794	1.00	0.00	C
ATOM	284	H	TYR	N	29	-4.521	-2.885	-17.555	1.00	0.00	H
ATOM	285	C	THR	N	28	-2.708	-3.696	-18.077	1.00	0.00	C
ATOM	286	HB1	TYR	N	29	-4.605	-0.268	-17.322	1.00	0.00	H
ATOM	287	HB2	TYR	N	29	-5.562	-1.151	-18.496	1.00	0.00	H
ATOM	288	CG	TYR	N	29	-4.809	0.719	-19.218	1.00	0.00	C
ATOM	289	O	ILE	N	35	-5.836	-7.718	-3.588	1.00	0.00	O
ATOM	290	HB	ILE	N	35	-2.556	-8.891	-2.730	1.00	0.00	H
ATOM	291	CG2	ILE	N	35	-1.217	-8.639	-4.397	1.00	0.00	C
ATOM	292	CG1	ILE	N	35	-2.438	-6.780	-3.102	1.00	0.00	C
ATOM	293	CD	PRO	N	36	-4.443	-11.058	-3.213	1.00	0.00	C
ATOM	294	HB1	PRO	N	36	-6.946	-11.757	-1.047	1.00	0.00	H
ATOM	295	HB2	PRO	N	36	-7.121	-12.007	-2.784	1.00	0.00	H
ATOM	296	CG	PRO	N	36	-5.037	-11.985	-2.151	1.00	0.00	C
ATOM	297	HB1	TYR	N	44	2.146	-2.523	-7.193	1.00	0.00	H
ATOM	298	HB2	TYR	N	44	2.976	-3.535	-6.009	1.00	0.00	H
ATOM	299	CG	TYR	N	44	3.666	-3.804	-8.048	1.00	0.00	C
ATOM	300	O	TYR	N	44	2.656	-0.983	-4.830	1.00	0.00	O
ATOM	301	N	ALA	N	45	4.357	0.343	-5.572	1.00	0.00	N
ATOM	302	HB1	ALA	N	9	2.570	2.862	-13.789	1.00	0.00	H
ATOM	303	HB2	ALA	N	9	1.985	2.959	-12.110	1.00	0.00	H
ATOM	304	HB3	ALA	N	9	1.026	2.106	-13.358	1.00	0.00	H
ATOM	305	O	ALA	N	9	-1.422	4.061	-13.372	1.00	0.00	O
ATOM	306	N	ARG	N	10	-0.349	4.817	-11.517	1.00	0.00	N
ATOM	307	O	THR	N	28	-1.711	-3.633	-18.795	1.00	0.00	O
ATOM	308	CA	THR	N	28	-2.958	-4.954	-17.222	1.00	0.00	C
ATOM	309	CD1	TYR	N	29	-5.050	0.659	-20.596	1.00	0.00	C
ATOM	310	CD2	TYR	N	29	-4.771	1.989	-18.626	1.00	0.00	C
ATOM	311	HG21	ILE	N	35	-0.296	-8.416	-3.840	1.00	0.00	H
ATOM	312	HG22	ILE	N	35	-1.166	-8.101	-5.355	1.00	0.00	H
ATOM	313	HG23	ILE	N	35	-1.217	-9.718	-4.621	1.00	0.00	H
ATOM	314	HG11	ILE	N	35	-2.235	-6.101	-3.948	1.00	0.00	H
ATOM	315	HG12	ILE	N	35	-3.436	-6.498	-2.726	1.00	0.00	H
ATOM	316	CD1	ILE	N	35	-1.410	-6.522	-2.004	1.00	0.00	C
ATOM	317	HD1	PRO	N	36	-3.368	-10.897	-3.063	1.00	0.00	H
ATOM	318	HD2	PRO	N	36	-4.593	-11.452	-4.233	1.00	0.00	H
ATOM	319	HG1	PRO	N	36	-4.950	-13.041	-2.436	1.00	0.00	H
ATOM	320	HG2	PRO	N	36	-4.485	-11.848	-1.211	1.00	0.00	H
ATOM	321	CD1	TYR	N	44	3.370	-3.510	-9.382	1.00	0.00	C
ATOM	322	CD2	TYR	N	44	4.565	-4.848	-7.791	1.00	0.00	C
ATOM	323	H	ALA	N	45	5.095	0.431	-6.265	1.00	0.00	H
ATOM	324	CA	ALA	N	45	4.362	1.255	-4.455	1.00	0.00	C
ATOM	325	H	ARG	N	10	0.546	5.022	-11.071	1.00	0.00	H
ATOM	326	CA	ARG	N	10	-1.582	5.064	-10.785	1.00	0.00	C
ATOM	327	HA	THR	N	28	-1.945	-5.297	-16.969	1.00	0.00	H
ATOM	328	N	THR	N	28	-3.678	-4.675	-15.981	1.00	0.00	N
ATOM	329	CB	THR	N	28	-3.628	-6.063	-18.044	1.00	0.00	C
ATOM	330	HD1	TYR	N	29	-5.119	-0.309	-21.098	1.00	0.00	H
ATOM	331	CE1	TYR	N	29	-5.206	1.817	-21.355	1.00	0.00	C
ATOM	332	HD2	TYR	N	29	-4.614	2.077	-17.551	1.00	0.00	H
ATOM	333	CE2	TYR	N	29	-4.923	3.160	-19.367	1.00	0.00	C
ATOM	334	HD11	ILE	N	35	-1.364	-5.447	-1.786	1.00	0.00	H
ATOM	335	HD12	ILE	N	35	-0.386	-6.804	-2.290	1.00	0.00	H
ATOM	336	HD13	ILE	N	35	-1.659	-7.078	-1.083	1.00	0.00	H
ATOM	337	HD1	TYR	N	44	2.676	-2.704	-9.616	1.00	0.00	H
ATOM	338	CE1	TYR	N	44	3.909	-4.252	-10.433	1.00	0.00	C
ATOM	339	HD2	TYR	N	44	4.819	-5.113	-6.767	1.00	0.00	H
ATOM	340	CE2	TYR	N	44	5.150	-5.574	-8.826	1.00	0.00	C
ATOM	341	HA	ALA	N	45	4.451	0.662	-3.538	1.00	0.00	H
ATOM	342	C	ALA	N	45	3.089	2.073	-4.294	1.00	0.00	C
ATOM	343	CB	ALA	N	45	5.559	2.210	-4.577	1.00	0.00	C

ATOM	344	HA	ARG	N	10	-2.199	4.160	-10.855	1.00	0.00	H
ATOM	345	CB	ARG	N	10	-1.305	5.363	-9.300	1.00	0.00	C
ATOM	346	C	ARG	N	10	-2.450	6.145	-11.463	1.00	0.00	C
ATOM	347	H	THR	N	28	-4.647	-4.982	-15.876	1.00	0.00	H
ATOM	348	C	ALA	N	27	-3.107	-3.861	-15.065	1.00	0.00	C
ATOM	349	HB	THR	N	28	-3.072	-6.102	-18.998	1.00	0.00	H
ATOM	350	OG1	THR	N	28	-4.973	-5.624	-18.286	1.00	0.00	O
ATOM	351	CG2	THR	N	28	-3.568	-7.426	-17.369	1.00	0.00	C
ATOM	352	HE1	TYR	N	29	-5.395	1.746	-22.428	1.00	0.00	H
ATOM	353	CZ	TYR	N	29	-5.116	3.075	-20.747	1.00	0.00	C
ATOM	354	HE2	TYR	N	29	-4.882	4.136	-18.879	1.00	0.00	H
ATOM	355	HE1	TYR	N	44	3.588	-4.038	-11.456	1.00	0.00	H
ATOM	356	CZ	TYR	N	44	4.802	-5.288	-10.148	1.00	0.00	C
ATOM	357	HE2	TYR	N	44	5.859	-6.371	-8.601	1.00	0.00	H
ATOM	358	O	ALA	N	45	2.831	2.503	-3.142	1.00	0.00	O
ATOM	359	N	ASN	N	46	2.375	2.396	-5.368	1.00	0.00	N
ATOM	360	HB1	ALA	N	45	5.630	2.845	-3.683	1.00	0.00	H
ATOM	361	HB2	ALA	N	45	6.491	1.633	-4.675	1.00	0.00	H
ATOM	362	HB3	ALA	N	45	5.454	2.863	-5.457	1.00	0.00	H
ATOM	363	HB1	ARG	N	10	-0.721	4.528	-8.884	1.00	0.00	H
ATOM	364	HB2	ARG	N	10	-0.668	6.257	-9.232	1.00	0.00	H
ATOM	365	CG	ARG	N	10	-2.577	5.592	-8.471	1.00	0.00	C
ATOM	366	O	ARG	N	10	-3.664	5.925	-11.606	1.00	0.00	O
ATOM	367	N	SER	N	11	-1.879	7.285	-11.895	1.00	0.00	N
ATOM	368	O	ALA	N	27	-1.983	-3.376	-15.232	1.00	0.00	O
ATOM	369	CA	ALA	N	27	-3.899	-3.519	-13.788	1.00	0.00	C
ATOM	370	HG1	THR	N	28	-5.391	-6.245	-18.903	1.00	0.00	H
ATOM	371	HG21	THR	N	28	-2.533	-7.770	-17.246	1.00	0.00	H
ATOM	372	HG22	THR	N	28	-4.052	-7.420	-16.381	1.00	0.00	H
ATOM	373	HG23	THR	N	28	-4.088	-8.175	-17.990	1.00	0.00	H
ATOM	374	OH	TYR	N	29	-5.222	4.242	-21.460	1.00	0.00	O
ATOM	375	OH	TYR	N	44	5.363	-6.061	-11.142	1.00	0.00	O
ATOM	376	H	ASN	N	46	2.589	1.920	-6.255	1.00	0.00	H
ATOM	377	CA	ASN	N	46	1.468	3.539	-5.397	1.00	0.00	C
ATOM	378	HG1	ARG	N	10	-3.166	6.389	-8.939	1.00	0.00	H
ATOM	379	HG2	ARG	N	10	-2.287	5.982	-7.484	1.00	0.00	H
ATOM	380	CD	ARG	N	10	-3.509	4.390	-8.278	1.00	0.00	C
ATOM	381	H	SER	N	11	-0.900	7.487	-11.660	1.00	0.00	H
ATOM	382	CA	SER	N	11	-2.657	8.268	-12.648	1.00	0.00	C
ATOM	383	HA	ALA	N	27	-3.262	-2.787	-13.286	1.00	0.00	H
ATOM	384	N	ALA	N	27	-5.167	-2.878	-14.122	1.00	0.00	N
ATOM	385	CB	ALA	N	27	-4.133	-4.723	-12.874	1.00	0.00	C
ATOM	386	HH	TYR	N	29	-5.017	4.054	-22.389	1.00	0.00	H
ATOM	387	HH	TYR	N	44	4.934	-5.840	-11.983	1.00	0.00	H
ATOM	388	HA	ASN	N	46	1.457	3.962	-4.386	1.00	0.00	H
ATOM	389	CB	ASN	N	46	2.013	4.579	-6.393	1.00	0.00	C
ATOM	390	C	ASN	N	46	-0.007	3.214	-5.708	1.00	0.00	C
ATOM	391	HD1	ARG	N	10	-3.656	3.858	-9.232	1.00	0.00	H
ATOM	392	HD2	ARG	N	10	-4.505	4.757	-7.978	1.00	0.00	H
ATOM	393	NE	ARG	N	10	-2.981	3.472	-7.269	1.00	0.00	N
ATOM	394	HA	SER	N	11	-3.438	8.700	-12.003	1.00	0.00	H
ATOM	395	CB	SER	N	11	-1.777	9.401	-13.195	1.00	0.00	C
ATOM	396	C	SER	N	11	-3.404	7.633	-13.841	1.00	0.00	C
ATOM	397	H	ALA	N	27	-6.020	-3.397	-13.932	1.00	0.00	H
ATOM	398	C	CYS	N	26	-5.276	-1.697	-14.747	1.00	0.00	C
ATOM	399	HB1	ALA	N	27	-3.171	-5.196	-12.653	1.00	0.00	H
ATOM	400	HB2	ALA	N	27	-4.797	-5.457	-13.349	1.00	0.00	H
ATOM	401	HB3	ALA	N	27	-4.589	-4.390	-11.929	1.00	0.00	H
ATOM	402	HB1	ASN	N	46	1.955	4.199	-7.422	1.00	0.00	H
ATOM	403	HB2	ASN	N	46	1.380	5.476	-6.327	1.00	0.00	H
ATOM	404	CG	ASN	N	46	3.469	4.938	-6.136	1.00	0.00	C
ATOM	405	OXT	ASN	N	46	-0.774	4.211	-5.764	1.00	0.00	O
ATOM	406	O	ASN	N	46	-0.344	2.010	-5.899	1.00	0.00	O

ATOM	407	HE	ARG	N	10	-2.167	3.786	-6.691	1.00	0.00	H
ATOM	408	CZ	ARG	N	10	-3.638	2.403	-6.798	1.00	0.00	C
ATOM	409	HB1	SER	N	11	-1.044	8.986	-13.905	1.00	0.00	H
ATOM	410	HB2	SER	N	11	-2.441	10.081	-13.757	1.00	0.00	H
ATOM	411	OG	SER	N	11	-1.132	10.066	-12.123	1.00	0.00	O
ATOM	412	O	SER	N	11	-4.600	7.885	-14.062	1.00	0.00	O
ATOM	413	N	ASN	N	12	-2.642	6.856	-14.623	1.00	0.00	N
ATOM	414	O	CYS	N	26	-4.323	-0.934	-14.976	1.00	0.00	O
ATOM	415	CA	CYS	N	26	-6.677	-1.312	-15.248	1.00	0.00	C
ATOM	416	OD1	ASN	N	46	4.341	4.771	-6.995	1.00	0.00	O
ATOM	417	ND2	ASN	N	46	3.762	5.458	-4.920	1.00	0.00	N
ATOM	418	NH2	ARG	N	10	-3.142	1.772	-5.723	1.00	0.00	N
ATOM	419	NH1	ARG	N	10	-4.797	2.004	-7.349	1.00	0.00	N
ATOM	420	H	SER	N	11	-0.958	11.001	-12.376	1.00	0.00	H
ATOM	421	H	ASN	N	12	-1.642	6.781	-14.413	1.00	0.00	H
ATOM	422	CA	ASN	N	12	-3.121	6.303	-15.882	1.00	0.00	C
ATOM	423	HA	CYS	N	26	-6.485	-0.887	-16.242	1.00	0.00	H
ATOM	424	N	CYS	N	26	-7.545	-2.456	-15.414	1.00	0.00	N
ATOM	425	CB	CYS	N	26	-7.357	-0.244	-14.401	1.00	0.00	C
ATOM	426	HD21	ASN	N	46	4.726	5.726	-4.756	1.00	0.00	H
ATOM	427	HD22	ASN	N	46	3.099	5.574	-4.153	1.00	0.00	H
ATOM	428	HH21	ARG	N	10	-3.544	0.876	-5.431	1.00	0.00	H
ATOM	429	HH22	ARG	N	10	-2.125	1.894	-5.569	1.00	0.00	H
ATOM	430	HH11	ARG	N	10	-5.087	2.399	-8.236	1.00	0.00	H
ATOM	431	HH12	ARG	N	10	-5.243	1.112	-7.107	1.00	0.00	H
ATOM	432	HA	ASN	N	12	-3.643	7.088	-16.445	1.00	0.00	H
ATOM	433	CB	ASN	N	12	-1.926	5.789	-16.702	1.00	0.00	C
ATOM	434	C	ASN	N	12	-4.184	5.214	-15.608	1.00	0.00	C
ATOM	435	H	CYS	N	26	-8.316	-2.596	-14.764	1.00	0.00	H
ATOM	436	C	LEU	N	25	-7.409	-3.270	-16.485	1.00	0.00	C
ATOM	437	HB1	CYS	N	26	-6.704	0.626	-14.259	1.00	0.00	H
ATOM	438	HB2	CYS	N	26	-7.619	-0.630	-13.404	1.00	0.00	H
ATOM	439	SG	CYS	N	26	-8.961	0.281	-15.125	1.00	0.00	S
ATOM	440	HB1	ASN	N	12	-2.297	5.288	-17.610	1.00	0.00	H
ATOM	441	HB2	ASN	N	12	-1.371	5.031	-16.125	1.00	0.00	H
ATOM	442	CG	ASN	N	12	-0.964	6.930	-17.094	1.00	0.00	C
ATOM	443	O	ASN	N	12	-5.213	5.112	-16.295	1.00	0.00	O
ATOM	444	N	PHE	N	13	-3.914	4.432	-14.550	1.00	0.00	N
ATOM	445	O	LEU	N	25	-6.567	-3.080	-17.365	1.00	0.00	O
ATOM	446	CA	LEU	N	25	-8.373	-4.458	-16.553	1.00	0.00	C
ATOM	447	SG	CYS	N	16	-8.419	0.856	-17.056	1.00	0.00	S
ATOM	448	OD1	ASN	N	12	-1.147	8.082	-16.693	1.00	0.00	O
ATOM	449	ND2	ASN	N	12	0.077	6.604	-17.882	1.00	0.00	N
ATOM	450	H	PHE	N	13	-3.024	4.556	-14.056	1.00	0.00	H
ATOM	451	CA	PHE	N	13	-4.835	3.463	-13.984	1.00	0.00	C
ATOM	452	HA	LEU	N	25	-7.817	-5.221	-17.110	1.00	0.00	H
ATOM	453	N	LEU	N	25	-8.673	-4.980	-15.220	1.00	0.00	N
ATOM	454	CB	LEU	N	25	-9.675	-4.076	-17.269	1.00	0.00	C
ATOM	455	CB	CYS	N	16	-7.826	2.567	-16.817	1.00	0.00	C
ATOM	456	HD21	ASN	N	12	0.272	5.681	-18.257	1.00	0.00	H
ATOM	457	HD22	ASN	N	12	0.684	7.367	-18.189	1.00	0.00	H
ATOM	458	HA	PHE	N	13	-5.105	2.703	-14.733	1.00	0.00	H
ATOM	459	C	PHE	N	13	-6.152	4.128	-13.574	1.00	0.00	C
ATOM	460	CB	PHE	N	13	-4.134	2.804	-12.773	1.00	0.00	C
ATOM	461	H	LEU	N	25	-9.553	-4.710	-14.783	1.00	0.00	H
ATOM	462	C	ALA	N	24	-7.680	-5.444	-14.426	1.00	0.00	C
ATOM	463	HB1	LEU	N	25	-10.260	-3.457	-16.576	1.00	0.00	H
ATOM	464	HB2	LEU	N	25	-9.425	-3.428	-18.125	1.00	0.00	H
ATOM	465	CG	LEU	N	25	-10.528	-5.263	-17.753	1.00	0.00	C
ATOM	466	HB1	CYS	N	16	-7.235	2.607	-15.893	1.00	0.00	H
ATOM	467	HB2	CYS	N	16	-7.150	2.753	-17.664	1.00	0.00	H
ATOM	468	CA	CYS	N	16	-8.910	3.649	-16.795	1.00	0.00	C
ATOM	469	O	PHE	N	13	-7.237	3.579	-13.826	1.00	0.00	O

ATOM	470	N	ASN	N	14	-6.046	5.293	-12.919	1.00	0.00	N
ATOM	471	HB1	PHE	N	13	-3.671	3.609	-12.195	1.00	0.00	H
ATOM	472	HB2	PHE	N	13	-3.323	2.172	-13.152	1.00	0.00	H
ATOM	473	CG	PHE	N	13	-5.034	2.009	-11.872	1.00	0.00	C
ATOM	474	O	ALA	N	24	-6.510	-5.532	-14.804	1.00	0.00	O
ATOM	475	CA	ALA	N	24	-8.085	-5.948	-13.033	1.00	0.00	C
ATOM	476	HG	LEU	N	25	-10.658	-5.948	-16.901	1.00	0.00	H
ATOM	477	CD1	LEU	N	25	-9.838	-6.038	-18.876	1.00	0.00	C
ATOM	478	CD2	LEU	N	25	-11.923	-4.783	-18.177	1.00	0.00	C
ATOM	479	HA	CYS	N	16	-9.364	3.734	-17.789	1.00	0.00	H
ATOM	480	N	CYS	N	16	-8.265	4.900	-16.439	1.00	0.00	N
ATOM	481	C	CYS	N	16	-10.115	3.340	-15.881	1.00	0.00	C
ATOM	482	H	ASN	N	14	-5.116	5.628	-12.646	1.00	0.00	H
ATOM	483	CA	ASN	N	14	-7.209	6.003	-12.421	1.00	0.00	C
ATOM	484	CD1	PHE	N	13	-5.130	0.622	-12.016	1.00	0.00	C
ATOM	485	CD2	PHE	N	13	-5.791	2.646	-10.875	1.00	0.00	C
ATOM	486	HA	ALA	N	24	-7.147	-5.971	-12.460	1.00	0.00	H
ATOM	487	N	ALA	N	24	-9.009	-5.040	-12.354	1.00	0.00	N
ATOM	488	CB	ALA	N	24	-8.664	-7.357	-13.150	1.00	0.00	C
ATOM	489	HD11	LEU	N	25	-8.869	-6.456	-18.569	1.00	0.00	H
ATOM	490	HD12	LEU	N	25	-10.451	-6.884	-19.220	1.00	0.00	H
ATOM	491	HD13	LEU	N	25	-9.656	-5.389	-19.746	1.00	0.00	H
ATOM	492	HD21	LEU	N	25	-12.459	-4.295	-17.350	1.00	0.00	H
ATOM	493	HD22	LEU	N	25	-12.550	-5.620	-18.521	1.00	0.00	H
ATOM	494	HD23	LEU	N	25	-11.861	-4.050	-18.999	1.00	0.00	H
ATOM	495	H	CYS	N	16	-7.275	4.900	-16.183	1.00	0.00	H
ATOM	496	C	VAL	N	15	-8.971	6.052	-16.410	1.00	0.00	C
ATOM	497	O	CYS	N	16	-11.188	2.966	-16.385	1.00	0.00	O
ATOM	498	N	ARG	N	17	-9.977	3.500	-14.556	1.00	0.00	N
ATOM	499	HA	ASN	N	14	-7.833	5.322	-11.824	1.00	0.00	H
ATOM	500	CB	ASN	N	14	-6.783	7.188	-11.557	1.00	0.00	C
ATOM	501	C	ASN	N	14	-8.107	6.495	-13.568	1.00	0.00	C
ATOM	502	HD1	PHE	N	13	-4.534	0.132	-12.785	1.00	0.00	H
ATOM	503	CE1	PHE	N	13	-5.984	-0.122	-11.203	1.00	0.00	C
ATOM	504	HD2	PHE	N	13	-5.724	3.724	-10.728	1.00	0.00	H
ATOM	505	CE2	PHE	N	13	-6.645	1.901	-10.064	1.00	0.00	C
ATOM	506	H	ALA	N	24	-9.922	-5.378	-12.067	1.00	0.00	H
ATOM	507	C	GLU	N	23	-8.607	-3.799	-11.966	1.00	0.00	C
ATOM	508	HB1	ALA	N	24	-7.916	-8.018	-13.603	1.00	0.00	H
ATOM	509	HB2	ALA	N	24	-9.556	-7.374	-13.785	1.00	0.00	H
ATOM	510	HB3	ALA	N	24	-8.929	-7.767	-12.167	1.00	0.00	H
ATOM	511	O	VAL	N	15	-10.145	6.126	-16.780	1.00	0.00	O
ATOM	512	CA	VAL	N	15	-8.225	7.280	-15.881	1.00	0.00	C
ATOM	513	H	ARG	N	17	-9.050	3.723	-14.179	1.00	0.00	H
ATOM	514	CA	ARG	N	17	-11.083	3.166	-13.664	1.00	0.00	C
ATOM	515	HB1	ASN	N	14	-6.121	7.853	-12.133	1.00	0.00	H
ATOM	516	HB2	ASN	N	14	-7.690	7.758	-11.303	1.00	0.00	H
ATOM	517	CG	ASN	N	14	-6.135	6.790	-10.229	1.00	0.00	C
ATOM	518	O	ASN	N	14	-9.340	6.479	-13.445	1.00	0.00	O
ATOM	519	N	VAL	N	15	-7.479	6.958	-14.668	1.00	0.00	N
ATOM	520	HE1	PHE	N	13	-6.063	-1.202	-11.344	1.00	0.00	H
ATOM	521	CZ	PHE	N	13	-6.750	0.519	-10.229	1.00	0.00	C
ATOM	522	HE2	PHE	N	13	-7.235	2.406	-9.295	1.00	0.00	H
ATOM	523	O	GLU	N	23	-7.506	-3.348	-12.290	1.00	0.00	O
ATOM	524	CA	GLU	N	23	-9.515	-3.010	-11.008	1.00	0.00	C
ATOM	525	HA	VAL	N	15	-9.026	7.990	-15.628	1.00	0.00	H
ATOM	526	CB	VAL	N	15	-7.305	7.925	-16.943	1.00	0.00	C
ATOM	527	HA	ARG	N	17	-11.483	2.177	-13.928	1.00	0.00	H
ATOM	528	C	ARG	N	17	-12.267	4.129	-13.860	1.00	0.00	C
ATOM	529	CB	ARG	N	17	-10.658	3.186	-12.181	1.00	0.00	C
ATOM	530	OD1	ASN	N	14	-6.378	5.730	-9.659	1.00	0.00	O
ATOM	531	ND2	ASN	N	14	-5.346	7.761	-9.704	1.00	0.00	N
ATOM	532	H	VAL	N	15	-6.456	6.992	-14.681	1.00	0.00	H

ATOM	533	HZ	PHE	N	13	-7.422	-0.046	-9.590	1.00	0.00	H
ATOM	534	HA	GLU	N	23	-9.031	-2.029	-10.908	1.00	0.00	H
ATOM	535	N	GLU	N	23	-10.878	-2.855	-11.511	1.00	0.00	N
ATOM	536	CB	GLU	N	23	-9.566	-3.715	-9.634	1.00	0.00	C
ATOM	537	HB	VAL	N	15	-6.371	7.338	-16.968	1.00	0.00	H
ATOM	538	CG2	VAL	N	15	-6.995	9.357	-16.515	1.00	0.00	C
ATOM	539	CG1	VAL	N	15	-7.935	7.871	-18.337	1.00	0.00	C
ATOM	540	O	ARG	N	17	-13.428	3.728	-13.686	1.00	0.00	O
ATOM	541	N	LEU	N	18	-11.971	5.400	-14.194	1.00	0.00	N
ATOM	542	HB1	ARG	N	17	-11.566	3.004	-11.583	1.00	0.00	H
ATOM	543	HB2	ARG	N	17	-10.326	4.210	-11.940	1.00	0.00	H
ATOM	544	CG	ARG	N	17	-9.540	2.209	-11.775	1.00	0.00	C
ATOM	545	HD21	ASN	N	14	-5.060	8.542	-10.279	1.00	0.00	H
ATOM	546	HD22	ASN	N	14	-4.848	7.637	-8.823	1.00	0.00	H
ATOM	547	H	GLU	N	23	-11.583	-2.650	-10.808	1.00	0.00	H
ATOM	548	C	PRO	N	22	-11.266	-2.748	-12.807	1.00	0.00	C
ATOM	549	HB1	GLU	N	23	-8.548	-4.025	-9.366	1.00	0.00	H
ATOM	550	HB2	GLU	N	23	-10.143	-4.644	-9.765	1.00	0.00	H
ATOM	551	CG	GLU	N	23	-10.188	-2.918	-8.466	1.00	0.00	C
ATOM	552	HG21	VAL	N	15	-6.391	9.888	-17.258	1.00	0.00	H
ATOM	553	HG22	VAL	N	15	-6.442	9.398	-15.568	1.00	0.00	H
ATOM	554	HG23	VAL	N	15	-7.933	9.920	-16.391	1.00	0.00	H
ATOM	555	HG11	VAL	N	15	-7.344	8.448	-19.060	1.00	0.00	H
ATOM	556	HG12	VAL	N	15	-8.001	6.838	-18.707	1.00	0.00	H
ATOM	557	HG13	VAL	N	15	-8.953	8.291	-18.348	1.00	0.00	H
ATOM	558	H	LEU	N	18	-10.988	5.681	-14.230	1.00	0.00	H
ATOM	559	CA	LEU	N	18	-12.955	6.477	-14.196	1.00	0.00	C
ATOM	560	HG1	ARG	N	17	-8.694	2.305	-12.471	1.00	0.00	H
ATOM	561	HG2	ARG	N	17	-9.147	2.538	-10.803	1.00	0.00	H
ATOM	562	CD	ARG	N	17	-9.886	0.713	-11.659	1.00	0.00	C
ATOM	563	O	PRO	N	22	-10.497	-2.840	-13.767	1.00	0.00	O
ATOM	564	CA	PRO	N	22	-12.790	-2.652	-12.951	1.00	0.00	C
ATOM	565	HG1	GLU	N	23	-10.611	-3.644	-7.764	1.00	0.00	H
ATOM	566	HG2	GLU	N	23	-11.016	-2.282	-8.815	1.00	0.00	H
ATOM	567	CD	GLU	N	23	-9.173	-2.069	-7.678	1.00	0.00	C
ATOM	568	HA	LEU	N	18	-13.198	6.717	-13.150	1.00	0.00	H
ATOM	569	C	LEU	N	18	-14.314	6.107	-14.797	1.00	0.00	C
ATOM	570	CB	LEU	N	18	-12.415	7.742	-14.913	1.00	0.00	C
ATOM	571	HD1	ARG	N	17	-8.963	0.140	-11.806	1.00	0.00	H
ATOM	572	HD2	ARG	N	17	-10.575	0.389	-12.450	1.00	0.00	H
ATOM	573	NE	ARG	N	17	-10.395	0.297	-10.346	1.00	0.00	N
ATOM	574	HA	PRO	N	22	-13.183	-2.006	-12.149	1.00	0.00	H
ATOM	575	N	PRO	N	22	-13.195	-2.121	-14.246	1.00	0.00	N
ATOM	576	CB	PRO	N	22	-13.433	-4.055	-12.892	1.00	0.00	C
ATOM	577	OE2	GLU	N	23	-8.667	-2.593	-6.660	1.00	0.00	O
ATOM	578	OE1	GLU	N	23	-8.875	-0.914	-8.148	1.00	0.00	O
ATOM	579	O	LEU	N	18	-15.343	6.385	-14.141	1.00	0.00	O
ATOM	580	N	PRO	N	19	-14.398	5.598	-16.037	1.00	0.00	N
ATOM	581	HB1	LEU	N	18	-11.389	7.544	-15.249	1.00	0.00	H
ATOM	582	HB2	LEU	N	18	-12.990	7.912	-15.838	1.00	0.00	H
ATOM	583	CG	LEU	N	18	-12.458	9.033	-14.080	1.00	0.00	C
ATOM	584	HE	ARG	N	17	-9.722	0.014	-9.617	1.00	0.00	H
ATOM	585	CZ	ARG	N	17	-11.679	0.294	-9.955	1.00	0.00	C
ATOM	586	C	THR	N	21	-12.955	-0.822	-14.526	1.00	0.00	C
ATOM	587	CD	PRO	N	22	-14.097	-3.031	-14.968	1.00	0.00	C
ATOM	588	HB1	PRO	N	22	-13.725	-4.340	-11.875	1.00	0.00	H
ATOM	589	HB2	PRO	N	22	-12.717	-4.805	-13.260	1.00	0.00	H
ATOM	590	CG	PRO	N	22	-14.617	-3.948	-13.858	1.00	0.00	C
ATOM	591	CA	PRO	N	19	-15.720	5.360	-16.644	1.00	0.00	C
ATOM	592	CD	PRO	N	19	-13.290	5.300	-16.984	1.00	0.00	C
ATOM	593	HG	LEU	N	18	-11.788	8.886	-13.211	1.00	0.00	H
ATOM	594	CD1	LEU	N	18	-11.902	10.181	-14.932	1.00	0.00	C
ATOM	595	CD2	LEU	N	18	-13.857	9.382	-13.555	1.00	0.00	C

ATOM	596	NH1	ARG	N	17	-12.688	0.334	-10.835	1.00	0.00	N
ATOM	597	NH2	ARG	N	17	-11.967	0.212	-8.650	1.00	0.00	N
ATOM	598	O	THR	N	21	-12.370	-0.089	-13.712	1.00	0.00	O
ATOM	599	CA	THR	N	21	-13.378	-0.259	-15.890	1.00	0.00	C
ATOM	600	HD1	PRO	N	22	-14.900	-2.462	-15.446	1.00	0.00	H
ATOM	601	HD2	PRO	N	22	-13.540	-3.594	-15.732	1.00	0.00	H
ATOM	602	HG1	PRO	N	22	-14.932	-4.933	-14.237	1.00	0.00	H
ATOM	603	HG2	PRO	N	22	-15.478	-3.475	-13.360	1.00	0.00	H
ATOM	604	HA	PRO	N	19	-16.394	6.201	-16.437	1.00	0.00	H
ATOM	605	CB	PRO	N	19	-15.384	5.212	-18.134	1.00	0.00	C
ATOM	606	C	PRO	N	19	-16.440	4.099	-16.137	1.00	0.00	C
ATOM	607	HD1	PRO	N	19	-12.508	4.705	-16.514	1.00	0.00	H
ATOM	608	HD2	PRO	N	19	-12.832	6.240	-17.327	1.00	0.00	H
ATOM	609	CG	PRO	N	19	-13.996	4.574	-18.129	1.00	0.00	C
ATOM	610	HD11	LEU	N	18	-10.934	9.919	-15.383	1.00	0.00	H
ATOM	611	HD12	LEU	N	18	-11.757	11.102	-14.346	1.00	0.00	H
ATOM	612	HD13	LEU	N	18	-12.588	10.427	-15.760	1.00	0.00	H
ATOM	613	HD21	LEU	N	18	-14.293	8.580	-12.943	1.00	0.00	H
ATOM	614	HD22	LEU	N	18	-13.838	10.287	-12.932	1.00	0.00	H
ATOM	615	HD23	LEU	N	18	-14.556	9.554	-14.390	1.00	0.00	H
ATOM	616	HH11	ARG	N	17	-12.506	0.335	-11.840	1.00	0.00	H
ATOM	617	HH12	ARG	N	17	-13.590	0.721	-10.504	1.00	0.00	H
ATOM	618	HH21	ARG	N	17	-11.218	0.221	-7.965	1.00	0.00	H
ATOM	619	HH22	ARG	N	17	-12.903	-0.100	-8.341	1.00	0.00	H
ATOM	620	HA	THR	N	21	-13.962	-1.001	-16.452	1.00	0.00	H
ATOM	621	N	THR	N	21	-14.199	0.906	-15.672	1.00	0.00	N
ATOM	622	CB	THR	N	21	-12.125	0.111	-16.711	1.00	0.00	C
ATOM	623	HB1	PRO	N	19	-16.139	4.640	-18.677	1.00	0.00	H
ATOM	624	HB2	PRO	N	19	-15.318	6.207	-18.591	1.00	0.00	H
ATOM	625	O	PRO	N	19	-17.608	3.903	-16.458	1.00	0.00	O
ATOM	626	N	GLY	N	20	-15.679	3.220	-15.427	1.00	0.00	N
ATOM	627	HG1	PRO	N	19	-13.484	4.702	-19.089	1.00	0.00	H
ATOM	628	HG2	PRO	N	19	-14.054	3.494	-17.919	1.00	0.00	H
ATOM	629	H	THR	N	21	-13.886	1.799	-16.035	1.00	0.00	H
ATOM	630	C	GLY	N	20	-15.404	0.758	-15.092	1.00	0.00	C
ATOM	631	HB	THR	N	21	-11.434	0.622	-16.030	1.00	0.00	H
ATOM	632	OG1	THR	N	21	-12.489	1.015	-17.743	1.00	0.00	O
ATOM	633	CG2	THR	N	21	-11.472	-1.146	-17.252	1.00	0.00	C
ATOM	634	H	GLY	N	20	-14.832	3.563	-14.964	1.00	0.00	H
ATOM	635	CA	GLY	N	20	-16.247	2.004	-14.888	1.00	0.00	C
ATOM	636	O	GLY	N	20	-15.802	-0.350	-14.712	1.00	0.00	O
ATOM	637	HG1	THR	N	21	-11.987	1.833	-17.545	1.00	0.00	H
ATOM	638	HG21	THR	N	21	-11.151	-1.776	-16.412	1.00	0.00	H
ATOM	639	HG22	THR	N	21	-10.590	-0.898	-17.855	1.00	0.00	H
ATOM	640	HG23	THR	N	21	-12.166	-1.722	-17.879	1.00	0.00	H
ATOM	641	HA1	GLY	N	20	-17.223	1.821	-15.358	1.00	0.00	H
ATOM	642	HA2	GLY	N	20	-16.411	2.111	-13.805	1.00	0.00	H
END											

3) CRAMBIN – molecule as in the optimized 84W crystal

COMPND	CRAMBIN OPTIMIZED CRYSTAL 84W GEOMETRY										
AUTHOR	DELLE PIANE, CORNO, ORLANDO, DOVESI, UGLIENGO										
ATOM	1	N	THR	N	1	-7.330	3.687	-4.789	1.00	0.00	N
ATOM	2	H1	THR	N	1	-7.752	2.757	-4.913	1.00	0.00	H
ATOM	3	H2	THR	N	1	-6.627	3.803	-5.557	1.00	0.00	H
ATOM	4	H3	THR	N	1	-8.043	4.470	-4.836	1.00	0.00	H
ATOM	5	CA	THR	N	1	-6.680	3.696	-3.453	1.00	0.00	C

ATOM	6	HA	THR	N	1	-7.478	3.693	-2.697	1.00	0.00	H
ATOM	7	C	THR	N	1	-5.830	4.954	-3.364	1.00	0.00	C
ATOM	8	CB	THR	N	1	-5.817	2.413	-3.308	1.00	0.00	C
ATOM	9	O	THR	N	1	-5.269	5.378	-4.383	1.00	0.00	O
ATOM	10	N	THR	N	2	-5.708	5.501	-2.151	1.00	0.00	N
ATOM	11	HB	THR	N	1	-4.968	2.514	-4.006	1.00	0.00	H
ATOM	12	OG1	THR	N	1	-6.631	1.324	-3.713	1.00	0.00	O
ATOM	13	CG2	THR	N	1	-5.286	2.221	-1.892	1.00	0.00	C
ATOM	14	H	THR	N	2	-6.142	5.059	-1.322	1.00	0.00	H
ATOM	15	CA	THR	N	2	-4.777	6.584	-1.921	1.00	0.00	C
ATOM	16	HG1	THR	N	1	-6.142	0.904	-4.465	1.00	0.00	H
ATOM	17	HG21	THR	N	1	-4.752	1.262	-1.834	1.00	0.00	H
ATOM	18	HG22	THR	N	1	-4.582	3.016	-1.607	1.00	0.00	H
ATOM	19	HG23	THR	N	1	-6.103	2.204	-1.154	1.00	0.00	H
ATOM	20	HA	THR	N	2	-4.418	6.907	-2.903	1.00	0.00	H
ATOM	21	C	THR	N	2	-3.548	6.115	-1.146	1.00	0.00	C
ATOM	22	CB	THR	N	2	-5.465	7.817	-1.269	1.00	0.00	C
ATOM	23	O	THR	N	2	-3.606	5.269	-0.228	1.00	0.00	O
ATOM	24	N	CYS	N	3	-2.428	6.734	-1.541	1.00	0.00	N
ATOM	25	HB	THR	N	2	-4.668	8.450	-0.842	1.00	0.00	H
ATOM	26	OG1	THR	N	2	-6.308	7.424	-0.182	1.00	0.00	O
ATOM	27	CG2	THR	N	2	-6.186	8.601	-2.355	1.00	0.00	C
ATOM	28	H	CYS	N	3	-2.498	7.387	-2.333	1.00	0.00	H
ATOM	29	CA	CYS	N	3	-1.096	6.499	-1.020	1.00	0.00	C
ATOM	30	HG1	THR	N	2	-7.255	7.613	-0.399	1.00	0.00	H
ATOM	31	HG21	THR	N	2	-6.673	9.485	-1.933	1.00	0.00	H
ATOM	32	HG22	THR	N	2	-5.458	8.940	-3.103	1.00	0.00	H
ATOM	33	HG23	THR	N	2	-6.945	7.987	-2.859	1.00	0.00	H
ATOM	34	HA	CYS	N	3	-1.166	5.864	-0.130	1.00	0.00	H
ATOM	35	C	CYS	N	3	-0.480	7.871	-0.707	1.00	0.00	C
ATOM	36	CB	CYS	N	3	-0.187	5.827	-2.071	1.00	0.00	C
ATOM	37	O	CYS	N	3	-0.670	8.807	-1.499	1.00	0.00	O
ATOM	38	N	CYS	N	4	0.301	7.984	0.376	1.00	0.00	N
ATOM	39	HB1	CYS	N	3	0.780	5.578	-1.615	1.00	0.00	H
ATOM	40	HB2	CYS	N	3	-0.008	6.522	-2.903	1.00	0.00	H
ATOM	41	SG	CYS	N	3	-0.874	4.341	-2.889	1.00	0.00	S
ATOM	42	H	CYS	N	4	0.398	7.221	1.058	1.00	0.00	H
ATOM	43	CA	CYS	N	4	0.852	9.279	0.732	1.00	0.00	C
ATOM	44	SG	CYS	N	40	-0.642	2.875	-1.434	1.00	0.00	S
ATOM	45	HA	CYS	N	4	0.601	9.947	-0.096	1.00	0.00	H
ATOM	46	C	CYS	N	4	2.372	9.194	0.862	1.00	0.00	C
ATOM	47	CB	CYS	N	4	0.216	9.836	2.014	1.00	0.00	C
ATOM	48	CB	CYS	N	40	1.140	2.454	-1.626	1.00	0.00	C
ATOM	49	O	CYS	N	4	2.923	8.200	1.355	1.00	0.00	O
ATOM	50	N	PRO	N	5	3.069	10.269	0.445	1.00	0.00	N
ATOM	51	HB1	CYS	N	4	0.237	9.091	2.821	1.00	0.00	H
ATOM	52	HB2	CYS	N	4	0.749	10.721	2.386	1.00	0.00	H
ATOM	53	SG	CYS	N	4	-1.556	10.271	1.813	1.00	0.00	S
ATOM	54	HB1	CYS	N	40	1.750	3.364	-1.567	1.00	0.00	H
ATOM	55	HB2	CYS	N	40	1.385	1.850	-0.739	1.00	0.00	H
ATOM	56	CA	CYS	N	40	1.438	1.661	-2.901	1.00	0.00	C
ATOM	57	CA	PRO	N	5	4.542	10.265	0.469	1.00	0.00	C
ATOM	58	CD	PRO	N	5	2.525	11.485	-0.212	1.00	0.00	C
ATOM	59	SG	CYS	N	32	-1.485	12.169	0.957	1.00	0.00	S
ATOM	60	HA	CYS	N	40	1.092	2.219	-3.781	1.00	0.00	H
ATOM	61	N	CYS	N	40	0.748	0.396	-2.846	1.00	0.00	N
ATOM	62	C	CYS	N	40	2.953	1.422	-2.997	1.00	0.00	C
ATOM	63	HA	PRO	N	5	4.937	9.295	0.150	1.00	0.00	H
ATOM	64	C	PRO	N	5	5.129	10.510	1.855	1.00	0.00	C
ATOM	65	CB	PRO	N	5	4.899	11.385	-0.516	1.00	0.00	C
ATOM	66	HD1	PRO	N	5	1.732	11.945	0.393	1.00	0.00	H
ATOM	67	HD2	PRO	N	5	2.109	11.221	-1.193	1.00	0.00	H
ATOM	68	CG	PRO	N	5	3.751	12.381	-0.362	1.00	0.00	C

ATOM	69	CB	CYS	N	32	-1.904	11.894	-0.820	1.00	0.00	C
ATOM	70	H	CYS	N	40	0.330	0.114	-1.950	1.00	0.00	H
ATOM	71	C	THR	N	39	0.635	-0.424	-3.898	1.00	0.00	C
ATOM	72	O	CYS	N	40	3.483	0.489	-2.371	1.00	0.00	O
ATOM	73	N	PRO	N	41	3.664	2.274	-3.748	1.00	0.00	N
ATOM	74	O	PRO	N	5	6.340	10.314	2.052	1.00	0.00	O
ATOM	75	N	SER	N	6	4.293	10.984	2.790	1.00	0.00	N
ATOM	76	HB1	PRO	N	5	5.886	11.812	-0.322	1.00	0.00	H
ATOM	77	HB2	PRO	N	5	4.896	10.967	-1.528	1.00	0.00	H
ATOM	78	HG1	PRO	N	5	3.660	13.066	-1.211	1.00	0.00	H
ATOM	79	HG2	PRO	N	5	3.875	13.000	0.532	1.00	0.00	H
ATOM	80	HB1	CYS	N	32	-2.298	10.875	-0.909	1.00	0.00	H
ATOM	81	HB2	CYS	N	32	-2.728	12.589	-1.040	1.00	0.00	H
ATOM	82	CA	CYS	N	32	-0.751	12.100	-1.810	1.00	0.00	C
ATOM	83	O	THR	N	39	1.085	-0.168	-5.027	1.00	0.00	O
ATOM	84	CA	THR	N	39	-0.173	-1.683	-3.597	1.00	0.00	C
ATOM	85	CA	PRO	N	41	5.115	2.137	-3.847	1.00	0.00	C
ATOM	86	CD	PRO	N	41	3.158	3.448	-4.489	1.00	0.00	C
ATOM	87	H	SER	N	6	3.301	11.068	2.595	1.00	0.00	H
ATOM	88	CA	SER	N	6	4.687	11.130	4.171	1.00	0.00	C
ATOM	89	HA	CYS	N	32	0.045	11.376	-1.595	1.00	0.00	H
ATOM	90	N	CYS	N	32	-0.218	13.450	-1.719	1.00	0.00	N
ATOM	91	C	CYS	N	32	-1.226	11.808	-3.261	1.00	0.00	C
ATOM	92	HA	THR	N	39	-0.205	-1.856	-2.515	1.00	0.00	H
ATOM	93	N	THR	N	39	-1.542	-1.407	-4.008	1.00	0.00	N
ATOM	94	CB	THR	N	39	0.380	-2.962	-4.254	1.00	0.00	C
ATOM	95	HA	PRO	N	41	5.384	1.092	-4.042	1.00	0.00	H
ATOM	96	C	PRO	N	41	5.784	2.584	-2.534	1.00	0.00	C
ATOM	97	CB	PRO	N	41	5.470	3.072	-5.023	1.00	0.00	C
ATOM	98	HD1	PRO	N	41	2.491	4.056	-3.862	1.00	0.00	H
ATOM	99	HD2	PRO	N	41	2.591	3.116	-5.375	1.00	0.00	H
ATOM	100	CG	PRO	N	41	4.433	4.190	-4.889	1.00	0.00	C
ATOM	101	HA	SER	N	6	5.405	10.334	4.399	1.00	0.00	H
ATOM	102	C	SER	N	6	3.462	10.940	5.051	1.00	0.00	C
ATOM	103	CB	SER	N	6	5.355	12.466	4.469	1.00	0.00	C
ATOM	104	H	CYS	N	32	-0.796	14.164	-1.262	1.00	0.00	H
ATOM	105	C	GLY	N	31	0.864	13.846	-2.414	1.00	0.00	C
ATOM	106	O	CYS	N	32	-1.251	12.708	-4.103	1.00	0.00	O
ATOM	107	N	ILE	N	33	-1.604	10.542	-3.520	1.00	0.00	N
ATOM	108	H	THR	N	39	-1.698	-1.126	-4.975	1.00	0.00	H
ATOM	109	C	ALA	N	38	-2.607	-1.567	-3.195	1.00	0.00	C
ATOM	110	HB	THR	N	39	0.385	-2.849	-5.346	1.00	0.00	H
ATOM	111	OG1	THR	N	39	-0.477	-4.040	-3.891	1.00	0.00	O
ATOM	112	CG2	THR	N	39	1.789	-3.294	-3.800	1.00	0.00	C
ATOM	113	O	PRO	N	41	5.201	3.290	-1.702	1.00	0.00	O
ATOM	114	N	GLY	N	42	7.078	2.214	-2.408	1.00	0.00	N
ATOM	115	HB1	PRO	N	41	6.498	3.450	-4.994	1.00	0.00	H
ATOM	116	HB2	PRO	N	41	5.338	2.531	-5.974	1.00	0.00	H
ATOM	117	HG1	PRO	N	41	4.292	4.757	-5.812	1.00	0.00	H
ATOM	118	HG2	PRO	N	41	4.742	4.878	-4.093	1.00	0.00	H
ATOM	119	O	SER	N	6	2.306	11.046	4.605	1.00	0.00	O
ATOM	120	N	ILE	N	7	3.758	10.679	6.329	1.00	0.00	N
ATOM	121	HB1	SER	N	6	5.848	12.406	5.443	1.00	0.00	H
ATOM	122	HB2	SER	N	6	6.142	12.621	3.724	1.00	0.00	H
ATOM	123	OG	SER	N	6	4.405	13.524	4.450	1.00	0.00	O
ATOM	124	O	GLY	N	31	1.598	13.050	-3.028	1.00	0.00	O
ATOM	125	CA	GLY	N	31	1.204	15.338	-2.451	1.00	0.00	C
ATOM	126	H	ILE	N	33	-1.442	9.819	-2.814	1.00	0.00	H
ATOM	127	CA	ILE	N	33	-1.872	10.088	-4.879	1.00	0.00	C
ATOM	128	O	ALA	N	38	-2.518	-1.960	-2.022	1.00	0.00	O
ATOM	129	CA	ALA	N	38	-3.968	-1.174	-3.802	1.00	0.00	C
ATOM	130	HG1	THR	N	39	-1.353	-3.907	-4.321	1.00	0.00	H
ATOM	131	HG21	THR	N	39	2.490	-2.506	-4.108	1.00	0.00	H

ATOM	132	HG22	THR	N	39	2.109	-4.233	-4.270	1.00	0.00	H
ATOM	133	HG23	THR	N	39	1.834	-3.386	-2.704	1.00	0.00	H
ATOM	134	H	GLY	N	42	7.484	1.614	-3.131	1.00	0.00	H
ATOM	135	CA	GLY	N	42	7.853	2.541	-1.224	1.00	0.00	C
ATOM	136	H	ILE	N	7	4.750	10.596	6.595	1.00	0.00	H
ATOM	137	CA	ILE	N	7	2.749	10.553	7.363	1.00	0.00	C
ATOM	138	H	SER	N	6	4.823	14.251	4.957	1.00	0.00	H
ATOM	139	HA1	GLY	N	31	1.359	15.576	-3.512	1.00	0.00	H
ATOM	140	HA2	GLY	N	31	2.160	15.482	-1.926	1.00	0.00	H
ATOM	141	N	GLY	N	31	0.196	16.216	-1.904	1.00	0.00	N
ATOM	142	HA	ILE	N	33	-2.189	10.960	-5.464	1.00	0.00	H
ATOM	143	C	ILE	N	33	-2.985	9.049	-4.861	1.00	0.00	C
ATOM	144	CB	ILE	N	33	-0.598	9.504	-5.576	1.00	0.00	C
ATOM	145	HA	ALA	N	38	-4.101	-0.107	-3.566	1.00	0.00	H
ATOM	146	N	ALA	N	38	-3.916	-1.278	-5.257	1.00	0.00	N
ATOM	147	CB	ALA	N	38	-5.113	-1.972	-3.178	1.00	0.00	C
ATOM	148	HA1	GLY	N	42	8.828	2.040	-1.306	1.00	0.00	H
ATOM	149	HA2	GLY	N	42	7.376	2.139	-0.319	1.00	0.00	H
ATOM	150	C	GLY	N	42	8.110	4.028	-0.984	1.00	0.00	C
ATOM	151	HA	ILE	N	7	2.005	9.801	7.058	1.00	0.00	H
ATOM	152	C	ILE	N	7	1.929	11.841	7.524	1.00	0.00	C
ATOM	153	CB	ILE	N	7	3.420	10.115	8.679	1.00	0.00	C
ATOM	154	H	GLY	N	31	-0.621	16.403	-2.490	1.00	0.00	H
ATOM	155	C	THR	N	30	0.193	16.648	-0.633	1.00	0.00	C
ATOM	156	O	ILE	N	33	-3.104	8.253	-3.912	1.00	0.00	O
ATOM	157	N	ILE	N	34	-3.750	9.001	-5.965	1.00	0.00	N
ATOM	158	HB	ILE	N	33	-0.903	9.302	-6.613	1.00	0.00	H
ATOM	159	CG2	ILE	N	33	0.488	10.578	-5.598	1.00	0.00	C
ATOM	160	CG1	ILE	N	33	-0.105	8.178	-4.961	1.00	0.00	C
ATOM	161	H	ALA	N	38	-3.570	-2.190	-5.588	1.00	0.00	H
ATOM	162	C	GLY	N	37	-4.464	-0.382	-6.101	1.00	0.00	C
ATOM	163	HB1	ALA	N	38	-6.075	-1.600	-3.555	1.00	0.00	H
ATOM	164	HB2	ALA	N	38	-5.098	-1.860	-2.086	1.00	0.00	H
ATOM	165	HB3	ALA	N	38	-5.014	-3.041	-3.416	1.00	0.00	H
ATOM	166	O	GLY	N	42	8.478	4.392	0.142	1.00	0.00	O
ATOM	167	N	ASP	N	43	7.932	4.869	-2.026	1.00	0.00	N
ATOM	168	O	ILE	N	7	0.693	11.766	7.610	1.00	0.00	O
ATOM	169	N	VAL	N	8	2.591	13.008	7.578	1.00	0.00	N
ATOM	170	HB	ILE	N	7	4.225	10.841	8.892	1.00	0.00	H
ATOM	171	CG2	ILE	N	7	2.427	10.182	9.831	1.00	0.00	C
ATOM	172	CG1	ILE	N	7	4.073	8.727	8.535	1.00	0.00	C
ATOM	173	O	THR	N	30	1.108	16.437	0.182	1.00	0.00	O
ATOM	174	CA	THR	N	30	-1.074	17.314	-0.118	1.00	0.00	C
ATOM	175	H	ILE	N	34	-3.692	9.750	-6.668	1.00	0.00	H
ATOM	176	CA	ILE	N	34	-4.645	7.891	-6.245	1.00	0.00	C
ATOM	177	HG21	ILE	N	33	1.419	10.176	-5.992	1.00	0.00	H
ATOM	178	HG22	ILE	N	33	0.715	10.953	-4.594	1.00	0.00	H
ATOM	179	HG23	ILE	N	33	0.187	11.431	-6.221	1.00	0.00	H
ATOM	180	HG11	ILE	N	33	-0.950	7.473	-4.901	1.00	0.00	H
ATOM	181	HG12	ILE	N	33	0.214	8.359	-3.921	1.00	0.00	H
ATOM	182	CD1	ILE	N	33	1.034	7.500	-5.733	1.00	0.00	C
ATOM	183	O	GLY	N	37	-5.052	0.640	-5.725	1.00	0.00	O
ATOM	184	CA	GLY	N	37	-4.301	-0.686	-7.601	1.00	0.00	C
ATOM	185	H	ASP	N	43	7.652	4.524	-2.943	1.00	0.00	H
ATOM	186	CA	ASP	N	43	8.021	6.314	-1.910	1.00	0.00	C
ATOM	187	H	VAL	N	8	3.620	13.011	7.607	1.00	0.00	H
ATOM	188	CA	VAL	N	8	1.842	14.254	7.709	1.00	0.00	C
ATOM	189	HG21	ILE	N	7	2.909	9.876	10.766	1.00	0.00	H
ATOM	190	HG22	ILE	N	7	2.056	11.203	9.985	1.00	0.00	H
ATOM	191	HG23	ILE	N	7	1.555	9.531	9.656	1.00	0.00	H
ATOM	192	HG11	ILE	N	7	4.743	8.724	7.663	1.00	0.00	H
ATOM	193	HG12	ILE	N	7	3.292	7.974	8.320	1.00	0.00	H
ATOM	194	CD1	ILE	N	7	4.876	8.325	9.766	1.00	0.00	C

ATOM	195	HA	THR	N	30	-0.740	18.152	0.510	1.00	0.00	H
ATOM	196	N	THR	N	30	-1.967	17.834	-1.133	1.00	0.00	N
ATOM	197	CB	THR	N	30	-1.768	16.253	0.782	1.00	0.00	C
ATOM	198	HA	ILE	N	34	-4.852	7.380	-5.299	1.00	0.00	H
ATOM	199	C	ILE	N	34	-3.966	6.923	-7.215	1.00	0.00	C
ATOM	200	CB	ILE	N	34	-5.974	8.340	-6.910	1.00	0.00	C
ATOM	201	HD11	ILE	N	33	1.966	8.080	-5.690	1.00	0.00	H
ATOM	202	HD12	ILE	N	33	0.757	7.356	-6.790	1.00	0.00	H
ATOM	203	HD13	ILE	N	33	1.255	6.510	-5.302	1.00	0.00	H
ATOM	204	HA1	GLY	N	37	-3.258	-0.967	-7.806	1.00	0.00	H
ATOM	205	HA2	GLY	N	37	-4.950	-1.540	-7.851	1.00	0.00	H
ATOM	206	N	GLY	N	37	-4.657	0.445	-8.410	1.00	0.00	N
ATOM	207	HA	ASP	N	43	8.591	6.521	-0.997	1.00	0.00	H
ATOM	208	CB	ASP	N	43	8.797	6.931	-3.078	1.00	0.00	C
ATOM	209	C	ASP	N	43	6.660	6.985	-1.651	1.00	0.00	C
ATOM	210	HA	VAL	N	8	0.988	14.045	8.366	1.00	0.00	H
ATOM	211	C	VAL	N	8	1.161	14.658	6.399	1.00	0.00	C
ATOM	212	CB	VAL	N	8	2.688	15.352	8.395	1.00	0.00	C
ATOM	213	HD11	ILE	N	7	5.485	7.432	9.593	1.00	0.00	H
ATOM	214	HD12	ILE	N	7	5.554	9.137	10.060	1.00	0.00	H
ATOM	215	HD13	ILE	N	7	4.233	8.115	10.631	1.00	0.00	H
ATOM	216	H	THR	N	30	-2.764	17.265	-1.418	1.00	0.00	H
ATOM	217	C	TYR	N	29	-1.931	19.143	-1.521	1.00	0.00	C
ATOM	218	HB	THR	N	30	-1.025	15.920	1.515	1.00	0.00	H
ATOM	219	OG1	THR	N	30	-2.093	15.082	0.014	1.00	0.00	O
ATOM	220	CG2	THR	N	30	-2.962	16.813	1.537	1.00	0.00	C
ATOM	221	O	ILE	N	34	-3.439	7.348	-8.272	1.00	0.00	O
ATOM	222	N	ILE	N	35	-4.076	5.628	-6.918	1.00	0.00	N
ATOM	223	HB	ILE	N	34	-5.696	8.781	-7.880	1.00	0.00	H
ATOM	224	CG1	ILE	N	34	-6.712	9.425	-6.109	1.00	0.00	C
ATOM	225	CG2	ILE	N	34	-6.902	7.140	-7.162	1.00	0.00	C
ATOM	226	H	GLY	N	37	-3.894	1.057	-8.712	1.00	0.00	H
ATOM	227	C	PRO	N	36	-5.947	0.722	-8.706	1.00	0.00	C
ATOM	228	HB1	ASP	N	43	8.832	8.024	-2.981	1.00	0.00	H
ATOM	229	HB2	ASP	N	43	9.845	6.600	-3.012	1.00	0.00	H
ATOM	230	CG	ASP	N	43	8.287	6.619	-4.491	1.00	0.00	C
ATOM	231	O	ASP	N	43	6.610	8.212	-1.434	1.00	0.00	O
ATOM	232	N	TYR	N	44	5.578	6.195	-1.608	1.00	0.00	N
ATOM	233	O	VAL	N	8	0.096	15.290	6.456	1.00	0.00	O
ATOM	234	N	ALA	N	9	1.682	14.253	5.226	1.00	0.00	N
ATOM	235	HB	VAL	N	8	3.710	15.279	7.985	1.00	0.00	H
ATOM	236	CG1	VAL	N	8	2.192	16.774	8.116	1.00	0.00	C
ATOM	237	CG2	VAL	N	8	2.724	15.040	9.898	1.00	0.00	C
ATOM	238	O	TYR	N	29	-1.020	19.905	-1.220	1.00	0.00	O
ATOM	239	CA	TYR	N	29	-3.167	19.609	-2.319	1.00	0.00	C
ATOM	240	HG1	THR	N	30	-2.898	15.278	-0.517	1.00	0.00	H
ATOM	241	HG21	THR	N	30	-3.291	16.082	2.277	1.00	0.00	H
ATOM	242	HG22	THR	N	30	-3.803	17.053	0.872	1.00	0.00	H
ATOM	243	HG23	THR	N	30	-2.662	17.721	2.080	1.00	0.00	H
ATOM	244	H	ILE	N	35	-4.547	5.369	-6.045	1.00	0.00	H
ATOM	245	CA	ILE	N	35	-3.750	4.570	-7.857	1.00	0.00	C
ATOM	246	HG11	ILE	N	34	-5.988	10.089	-5.613	1.00	0.00	H
ATOM	247	HG12	ILE	N	34	-7.308	8.952	-5.311	1.00	0.00	H
ATOM	248	CD1	ILE	N	34	-7.613	10.260	-7.012	1.00	0.00	C
ATOM	249	HG21	ILE	N	34	-7.865	7.480	-7.568	1.00	0.00	H
ATOM	250	HG22	ILE	N	34	-7.114	6.606	-6.225	1.00	0.00	H
ATOM	251	HG23	ILE	N	34	-6.483	6.402	-7.864	1.00	0.00	H
ATOM	252	O	PRO	N	36	-6.884	-0.044	-8.480	1.00	0.00	O
ATOM	253	CA	PRO	N	36	-6.239	2.078	-9.379	1.00	0.00	C
ATOM	254	OD2	ASP	N	43	7.283	5.863	-4.631	1.00	0.00	O
ATOM	255	OD1	ASP	N	43	8.940	7.166	-5.429	1.00	0.00	O
ATOM	256	H	TYR	N	44	5.689	5.188	-1.744	1.00	0.00	H
ATOM	257	CA	TYR	N	44	4.260	6.646	-1.176	1.00	0.00	C

ATOM	258	H	ALA	N	9	2.572	13.755	5.179	1.00	0.00	H
ATOM	259	CA	ALA	N	9	0.878	14.396	4.014	1.00	0.00	C
ATOM	260	HG11	VAL	N	8	2.813	17.499	8.658	1.00	0.00	H
ATOM	261	HG12	VAL	N	8	2.252	17.028	7.048	1.00	0.00	H
ATOM	262	HG13	VAL	N	8	1.146	16.926	8.424	1.00	0.00	H
ATOM	263	HG21	VAL	N	8	3.291	15.802	10.443	1.00	0.00	H
ATOM	264	HG22	VAL	N	8	3.189	14.063	10.102	1.00	0.00	H
ATOM	265	HG23	VAL	N	8	1.707	15.020	10.318	1.00	0.00	H
ATOM	266	HA	TYR	N	29	-2.913	20.618	-2.673	1.00	0.00	H
ATOM	267	N	TYR	N	29	-3.413	18.734	-3.464	1.00	0.00	N
ATOM	268	CB	TYR	N	29	-4.430	19.663	-1.425	1.00	0.00	C
ATOM	269	HA	ILE	N	35	-3.516	5.062	-8.807	1.00	0.00	H
ATOM	270	C	ILE	N	35	-4.994	3.686	-8.026	1.00	0.00	C
ATOM	271	CB	ILE	N	35	-2.496	3.752	-7.430	1.00	0.00	C
ATOM	272	HD11	ILE	N	34	-8.249	10.922	-6.422	1.00	0.00	H
ATOM	273	HD12	ILE	N	34	-7.011	10.871	-7.702	1.00	0.00	H
ATOM	274	HD13	ILE	N	34	-8.295	9.642	-7.615	1.00	0.00	H
ATOM	275	HA	PRO	N	36	-7.153	2.431	-8.885	1.00	0.00	H
ATOM	276	N	PRO	N	36	-5.161	3.063	-9.213	1.00	0.00	N
ATOM	277	CB	PRO	N	36	-6.412	1.980	-10.907	1.00	0.00	C
ATOM	278	HA	TYR	N	44	4.409	7.602	-0.659	1.00	0.00	H
ATOM	279	C	TYR	N	44	3.745	5.643	-0.138	1.00	0.00	C
ATOM	280	CB	TYR	N	44	3.267	6.867	-2.324	1.00	0.00	C
ATOM	281	HA	ALA	N	9	0.558	15.440	3.918	1.00	0.00	H
ATOM	282	CB	ALA	N	9	1.660	14.018	2.758	1.00	0.00	C
ATOM	283	C	ALA	N	9	-0.436	13.607	4.171	1.00	0.00	C
ATOM	284	H	TYR	N	29	-4.321	18.268	-3.540	1.00	0.00	H
ATOM	285	C	THR	N	28	-2.584	18.733	-4.528	1.00	0.00	C
ATOM	286	HB1	TYR	N	29	-4.586	18.678	-0.963	1.00	0.00	H
ATOM	287	HB2	TYR	N	29	-5.297	19.818	-2.084	1.00	0.00	H
ATOM	288	CG	TYR	N	29	-4.393	20.739	-0.365	1.00	0.00	C
ATOM	289	O	ILE	N	35	-5.793	3.512	-7.091	1.00	0.00	O
ATOM	290	HB	ILE	N	35	-2.386	2.968	-8.193	1.00	0.00	H
ATOM	291	CG2	ILE	N	35	-1.251	4.647	-7.492	1.00	0.00	C
ATOM	292	CG1	ILE	N	35	-2.684	3.061	-6.063	1.00	0.00	C
ATOM	293	CD	PRO	N	36	-4.493	3.406	-10.490	1.00	0.00	C
ATOM	294	HB1	PRO	N	36	-6.745	0.977	-11.206	1.00	0.00	H
ATOM	295	HB2	PRO	N	36	-7.180	2.702	-11.230	1.00	0.00	H
ATOM	296	CG	PRO	N	36	-5.032	2.356	-11.468	1.00	0.00	C
ATOM	297	O	TYR	N	44	2.682	5.015	-0.291	1.00	0.00	O
ATOM	298	N	ALA	N	45	4.564	5.490	0.913	1.00	0.00	N
ATOM	299	HB1	TYR	N	44	2.296	7.086	-1.864	1.00	0.00	H
ATOM	300	HB2	TYR	N	44	3.150	5.930	-2.886	1.00	0.00	H
ATOM	301	CG	TYR	N	44	3.669	8.014	-3.211	1.00	0.00	C
ATOM	302	HB1	ALA	N	9	2.510	14.699	2.618	1.00	0.00	H
ATOM	303	HB2	ALA	N	9	1.010	14.109	1.877	1.00	0.00	H
ATOM	304	HB3	ALA	N	9	2.050	12.993	2.816	1.00	0.00	H
ATOM	305	O	ALA	N	9	-1.509	14.115	3.816	1.00	0.00	O
ATOM	306	N	ARG	N	10	-0.365	12.374	4.723	1.00	0.00	N
ATOM	307	O	THR	N	28	-1.608	19.488	-4.627	1.00	0.00	O
ATOM	308	CA	THR	N	28	-2.852	17.722	-5.657	1.00	0.00	C
ATOM	309	CD1	TYR	N	29	-4.596	22.083	-0.704	1.00	0.00	C
ATOM	310	CD2	TYR	N	29	-4.154	20.444	0.983	1.00	0.00	C
ATOM	311	HG21	ILE	N	35	-0.341	4.079	-7.248	1.00	0.00	H
ATOM	312	HG22	ILE	N	35	-1.106	5.070	-8.498	1.00	0.00	H
ATOM	313	HG23	ILE	N	35	-1.313	5.488	-6.783	1.00	0.00	H
ATOM	314	HG11	ILE	N	35	-3.658	2.552	-6.053	1.00	0.00	H
ATOM	315	HG12	ILE	N	35	-2.722	3.825	-5.267	1.00	0.00	H
ATOM	316	CD1	ILE	N	35	-1.604	2.028	-5.731	1.00	0.00	C
ATOM	317	HD1	PRO	N	36	-3.407	3.333	-10.387	1.00	0.00	H
ATOM	318	HD2	PRO	N	36	-4.771	4.432	-10.782	1.00	0.00	H
ATOM	319	HG1	PRO	N	36	-4.380	1.473	-11.479	1.00	0.00	H
ATOM	320	HG2	PRO	N	36	-5.080	2.750	-12.493	1.00	0.00	H

ATOM	321	H	ALA	N	45	5.333	6.170	1.057	1.00	0.00	H
ATOM	322	CA	ALA	N	45	4.414	4.427	1.884	1.00	0.00	C
ATOM	323	CD2	TYR	N	44	3.017	9.244	-3.099	1.00	0.00	C
ATOM	324	CD1	TYR	N	44	4.750	7.918	-4.100	1.00	0.00	C
ATOM	325	H	ARG	N	10	0.548	11.991	4.971	1.00	0.00	H
ATOM	326	CA	ARG	N	10	-1.562	11.627	5.095	1.00	0.00	C
ATOM	327	HA	THR	N	28	-1.844	17.409	-5.959	1.00	0.00	H
ATOM	328	N	THR	N	28	-3.579	16.544	-5.188	1.00	0.00	N
ATOM	329	CB	THR	N	28	-3.511	18.393	-6.873	1.00	0.00	C
ATOM	330	HD1	TYR	N	29	-4.776	22.357	-1.744	1.00	0.00	H
ATOM	331	CE1	TYR	N	29	-4.564	23.092	0.253	1.00	0.00	C
ATOM	332	HD2	TYR	N	29	-3.992	19.408	1.282	1.00	0.00	H
ATOM	333	CE2	TYR	N	29	-4.115	21.442	1.956	1.00	0.00	C
ATOM	334	HD11	ILE	N	35	-0.600	2.474	-5.658	1.00	0.00	H
ATOM	335	HD12	ILE	N	35	-1.550	1.233	-6.491	1.00	0.00	H
ATOM	336	HD13	ILE	N	35	-1.807	1.547	-4.760	1.00	0.00	H
ATOM	337	HA	ALA	N	45	4.014	3.551	1.352	1.00	0.00	H
ATOM	338	C	ALA	N	45	3.403	4.750	2.986	1.00	0.00	C
ATOM	339	CB	ALA	N	45	5.786	4.103	2.495	1.00	0.00	C
ATOM	340	HD2	TYR	N	44	2.167	9.341	-2.419	1.00	0.00	H
ATOM	341	CE2	TYR	N	44	3.410	10.353	-3.848	1.00	0.00	C
ATOM	342	HD1	TYR	N	44	5.304	6.988	-4.213	1.00	0.00	H
ATOM	343	CE1	TYR	N	44	5.169	9.019	-4.836	1.00	0.00	C
ATOM	344	HA	ARG	N	10	-2.195	11.530	4.206	1.00	0.00	H
ATOM	345	C	ARG	N	10	-2.434	12.384	6.105	1.00	0.00	C
ATOM	346	CB	ARG	N	10	-1.189	10.228	5.619	1.00	0.00	C
ATOM	347	H	THR	N	28	-4.569	16.433	-5.421	1.00	0.00	H
ATOM	348	C	ALA	N	27	-2.962	15.703	-4.337	1.00	0.00	C
ATOM	349	HB	THR	N	28	-2.907	19.300	-7.062	1.00	0.00	H
ATOM	350	OG1	THR	N	28	-4.834	18.757	-6.496	1.00	0.00	O
ATOM	351	CG2	THR	N	28	-3.480	17.526	-8.128	1.00	0.00	C
ATOM	352	HE1	TYR	N	29	-4.710	24.130	-0.038	1.00	0.00	H
ATOM	353	CZ	TYR	N	29	-4.315	22.782	1.599	1.00	0.00	C
ATOM	354	HE2	TYR	N	29	-3.919	21.200	3.002	1.00	0.00	H
ATOM	355	O	ALA	N	45	3.039	3.850	3.778	1.00	0.00	O
ATOM	356	N	ASN	N	46	2.986	6.007	3.080	1.00	0.00	N
ATOM	357	HB1	ALA	N	45	5.720	3.248	3.177	1.00	0.00	H
ATOM	358	HB2	ALA	N	45	6.506	3.875	1.698	1.00	0.00	H
ATOM	359	HB3	ALA	N	45	6.171	4.968	3.055	1.00	0.00	H
ATOM	360	HE2	TYR	N	44	2.874	11.292	-3.742	1.00	0.00	H
ATOM	361	CZ	TYR	N	44	4.487	10.238	-4.731	1.00	0.00	C
ATOM	362	HE1	TYR	N	44	6.036	8.939	-5.490	1.00	0.00	H
ATOM	363	O	ARG	N	10	-3.672	12.383	5.963	1.00	0.00	O
ATOM	364	N	SER	N	11	-1.823	13.017	7.117	1.00	0.00	N
ATOM	365	HB1	ARG	N	10	-0.521	10.348	6.481	1.00	0.00	H
ATOM	366	HB2	ARG	N	10	-0.606	9.714	4.844	1.00	0.00	H
ATOM	367	CG	ARG	N	10	-2.387	9.376	6.054	1.00	0.00	C
ATOM	368	O	ALA	N	27	-1.766	15.853	-4.029	1.00	0.00	O
ATOM	369	CA	ALA	N	27	-3.752	14.511	-3.766	1.00	0.00	C
ATOM	370	HG1	THR	N	28	-5.131	19.467	-7.115	1.00	0.00	H
ATOM	371	HG21	THR	N	28	-2.451	17.342	-8.466	1.00	0.00	H
ATOM	372	HG22	THR	N	28	-3.986	18.058	-8.945	1.00	0.00	H
ATOM	373	HG23	THR	N	28	-4.002	16.573	-7.973	1.00	0.00	H
ATOM	374	OH	TYR	N	29	-4.238	23.733	2.564	1.00	0.00	O
ATOM	375	H	ASN	N	46	3.224	6.689	2.355	1.00	0.00	H
ATOM	376	CA	ASN	N	46	2.187	6.486	4.188	1.00	0.00	C
ATOM	377	OH	TYR	N	44	4.912	11.262	-5.521	1.00	0.00	O
ATOM	378	H	SER	N	11	-0.833	12.818	7.299	1.00	0.00	H
ATOM	379	CA	SER	N	11	-2.612	13.751	8.094	1.00	0.00	C
ATOM	380	HG1	ARG	N	10	-2.963	9.916	6.817	1.00	0.00	H
ATOM	381	HG2	ARG	N	10	-2.004	8.479	6.565	1.00	0.00	H
ATOM	382	CD	ARG	N	10	-3.355	8.952	4.953	1.00	0.00	C
ATOM	383	HA	ALA	N	27	-3.106	14.130	-2.966	1.00	0.00	H

ATOM	384	N	ALA	N	27	-5.037	14.924	-3.208	1.00	0.00	N
ATOM	385	CB	ALA	N	27	-3.980	13.432	-4.829	1.00	0.00	C
ATOM	386	HH	TYR	N	29	-4.426	24.633	2.172	1.00	0.00	H
ATOM	387	HA	ASN	N	46	2.167	5.687	4.936	1.00	0.00	H
ATOM	388	CB	ASN	N	46	2.873	7.713	4.815	1.00	0.00	C
ATOM	389	C	ASN	N	46	0.717	6.734	3.795	1.00	0.00	C
ATOM	390	HH	TYR	N	44	4.419	12.101	-5.333	1.00	0.00	H
ATOM	391	HA	SER	N	11	-3.360	13.077	8.522	1.00	0.00	H
ATOM	392	CB	SER	N	11	-1.759	14.339	9.221	1.00	0.00	C
ATOM	393	C	SER	N	11	-3.389	14.885	7.404	1.00	0.00	C
ATOM	394	HD1	ARG	N	10	-4.258	8.530	5.407	1.00	0.00	H
ATOM	395	HD2	ARG	N	10	-3.682	9.813	4.348	1.00	0.00	H
ATOM	396	NE	ARG	N	10	-2.743	7.950	4.075	1.00	0.00	N
ATOM	397	H	ALA	N	27	-5.883	14.557	-3.654	1.00	0.00	H
ATOM	398	C	CYS	N	26	-5.176	15.649	-2.100	1.00	0.00	C
ATOM	399	HB1	ALA	N	27	-4.764	13.743	-5.522	1.00	0.00	H
ATOM	400	HB2	ALA	N	27	-3.055	13.255	-5.386	1.00	0.00	H
ATOM	401	HB3	ALA	N	27	-4.288	12.490	-4.353	1.00	0.00	H
ATOM	402	HB1	ASN	N	46	2.783	8.578	4.151	1.00	0.00	H
ATOM	403	HB2	ASN	N	46	2.382	7.957	5.766	1.00	0.00	H
ATOM	404	CG	ASN	N	46	4.361	7.444	5.021	1.00	0.00	C
ATOM	405	OXT	ASN	N	46	0.008	7.360	4.630	1.00	0.00	O
ATOM	406	O	ASN	N	46	0.302	6.296	2.681	1.00	0.00	O
ATOM	407	HB1	SER	N	11	-2.449	14.869	9.900	1.00	0.00	H
ATOM	408	HB2	SER	N	11	-1.056	15.080	8.803	1.00	0.00	H
ATOM	409	OG	SER	N	11	-1.075	13.305	9.904	1.00	0.00	O
ATOM	410	O	SER	N	11	-4.611	15.066	7.616	1.00	0.00	O
ATOM	411	N	ASN	N	12	-2.673	15.657	6.591	1.00	0.00	N
ATOM	412	HE	ARG	N	10	-1.767	7.674	4.267	1.00	0.00	H
ATOM	413	CZ	ARG	N	10	-3.288	7.481	2.948	1.00	0.00	C
ATOM	414	O	CYS	N	26	-4.225	15.989	-1.367	1.00	0.00	O
ATOM	415	CA	CYS	N	26	-6.587	16.137	-1.733	1.00	0.00	C
ATOM	416	OD1	ASN	N	46	5.216	8.052	4.363	1.00	0.00	O
ATOM	417	ND2	ASN	N	46	4.688	6.490	5.914	1.00	0.00	N
ATOM	418	H	SER	N	11	-0.639	13.719	10.691	1.00	0.00	H
ATOM	419	H	ASN	N	12	-1.664	15.476	6.492	1.00	0.00	H
ATOM	420	CA	ASN	N	12	-3.253	16.786	5.880	1.00	0.00	C
ATOM	421	NH2	ARG	N	10	-4.572	7.728	2.654	1.00	0.00	N
ATOM	422	NH1	ARG	N	10	-2.507	6.805	2.086	1.00	0.00	N
ATOM	423	HA	CYS	N	26	-6.403	17.141	-1.322	1.00	0.00	H
ATOM	424	N	CYS	N	26	-7.439	16.256	-2.893	1.00	0.00	N
ATOM	425	CB	CYS	N	26	-7.238	15.288	-0.644	1.00	0.00	C
ATOM	426	HD21	ASN	N	46	5.677	6.316	6.066	1.00	0.00	H
ATOM	427	HD22	ASN	N	46	4.001	5.962	6.465	1.00	0.00	H
ATOM	428	HA	ASN	N	12	-3.753	17.446	6.600	1.00	0.00	H
ATOM	429	CB	ASN	N	12	-2.149	17.570	5.162	1.00	0.00	C
ATOM	430	C	ASN	N	12	-4.352	16.296	4.922	1.00	0.00	C
ATOM	431	HH21	ARG	N	10	-4.948	7.439	1.754	1.00	0.00	H
ATOM	432	HH22	ARG	N	10	-5.263	7.849	3.419	1.00	0.00	H
ATOM	433	HH11	ARG	N	10	-2.951	6.109	1.488	1.00	0.00	H
ATOM	434	HH12	ARG	N	10	-1.551	6.564	2.380	1.00	0.00	H
ATOM	435	H	CYS	N	26	-8.265	15.654	-2.988	1.00	0.00	H
ATOM	436	C	LEU	N	25	-7.166	17.207	-3.808	1.00	0.00	C
ATOM	437	HB1	CYS	N	26	-6.549	15.157	0.199	1.00	0.00	H
ATOM	438	HB2	CYS	N	26	-7.507	14.288	-1.017	1.00	0.00	H
ATOM	439	SG	CYS	N	26	-8.824	15.999	-0.041	1.00	0.00	S
ATOM	440	HB1	ASN	N	12	-1.598	16.930	4.457	1.00	0.00	H
ATOM	441	HB2	ASN	N	12	-2.618	18.370	4.566	1.00	0.00	H
ATOM	442	CG	ASN	N	12	-1.173	18.222	6.164	1.00	0.00	C
ATOM	443	O	ASN	N	12	-5.412	16.928	4.786	1.00	0.00	O
ATOM	444	N	PHE	N	13	-4.086	15.147	4.276	1.00	0.00	N
ATOM	445	O	LEU	N	25	-6.247	18.023	-3.664	1.00	0.00	O
ATOM	446	CA	LEU	N	25	-8.055	17.241	-5.051	1.00	0.00	C

ATOM	447	SG	CYS	N	16	-8.233	17.870	0.666	1.00	0.00	S
ATOM	448	OD1	ASN	N	12	-1.437	18.284	7.364	1.00	0.00	O
ATOM	449	ND2	ASN	N	12	-0.054	18.735	5.611	1.00	0.00	N
ATOM	450	H	PHE	N	13	-3.154	14.725	4.356	1.00	0.00	H
ATOM	451	CA	PHE	N	13	-5.030	14.496	3.384	1.00	0.00	C
ATOM	452	HA	LEU	N	25	-7.437	17.732	-5.812	1.00	0.00	H
ATOM	453	N	LEU	N	25	-8.385	15.894	-5.520	1.00	0.00	N
ATOM	454	CB	LEU	N	25	-9.341	18.037	-4.769	1.00	0.00	C
ATOM	455	CB	CYS	N	16	-7.726	17.511	2.388	1.00	0.00	C
ATOM	456	HD21	ASN	N	12	0.160	18.589	4.627	1.00	0.00	H
ATOM	457	HD22	ASN	N	12	0.654	19.136	6.226	1.00	0.00	H
ATOM	458	HA	PHE	N	13	-5.355	15.198	2.601	1.00	0.00	H
ATOM	459	C	PHE	N	13	-6.316	14.106	4.114	1.00	0.00	C
ATOM	460	CB	PHE	N	13	-4.330	13.279	2.745	1.00	0.00	C
ATOM	461	H	LEU	N	25	-9.241	15.472	-5.156	1.00	0.00	H
ATOM	462	C	ALA	N	24	-7.446	15.056	-6.000	1.00	0.00	C
ATOM	463	HB1	LEU	N	25	-10.014	17.388	-4.187	1.00	0.00	H
ATOM	464	HB2	LEU	N	25	-9.088	18.885	-4.110	1.00	0.00	H
ATOM	465	CG	LEU	N	25	-10.059	18.554	-6.026	1.00	0.00	C
ATOM	466	HB1	CYS	N	16	-7.274	16.511	2.420	1.00	0.00	H
ATOM	467	HB2	CYS	N	16	-6.941	18.243	2.629	1.00	0.00	H
ATOM	468	CA	CYS	N	16	-8.845	17.605	3.438	1.00	0.00	C
ATOM	469	O	PHE	N	13	-7.419	14.385	3.621	1.00	0.00	O
ATOM	470	N	ASN	N	14	-6.184	13.446	5.279	1.00	0.00	N
ATOM	471	HB1	PHE	N	13	-3.514	13.655	2.116	1.00	0.00	H
ATOM	472	HB2	PHE	N	13	-3.866	12.704	3.555	1.00	0.00	H
ATOM	473	CG	PHE	N	13	-5.235	12.379	1.949	1.00	0.00	C
ATOM	474	O	ALA	N	24	-6.270	15.412	-6.188	1.00	0.00	O
ATOM	475	CA	ALA	N	24	-7.901	13.634	-6.379	1.00	0.00	C
ATOM	476	HG	LEU	N	25	-10.101	17.719	-6.739	1.00	0.00	H
ATOM	477	CD1	LEU	N	25	-9.312	19.703	-6.699	1.00	0.00	C
ATOM	478	CD2	LEU	N	25	-11.502	18.955	-5.700	1.00	0.00	C
ATOM	479	HA	CYS	N	16	-9.220	18.636	3.494	1.00	0.00	H
ATOM	480	N	CYS	N	16	-8.261	17.203	4.711	1.00	0.00	N
ATOM	481	C	CYS	N	16	-10.093	16.760	3.097	1.00	0.00	C
ATOM	482	H	ASN	N	14	-5.249	13.195	5.627	1.00	0.00	H
ATOM	483	CA	ASN	N	14	-7.372	13.013	5.992	1.00	0.00	C
ATOM	484	CD1	PHE	N	13	-5.420	12.578	0.575	1.00	0.00	C
ATOM	485	CD2	PHE	N	13	-5.907	11.317	2.574	1.00	0.00	C
ATOM	486	HA	ALA	N	24	-6.978	13.044	-6.436	1.00	0.00	H
ATOM	487	N	ALA	N	24	-8.771	13.075	-5.350	1.00	0.00	N
ATOM	488	CB	ALA	N	24	-8.587	13.631	-7.744	1.00	0.00	C
ATOM	489	HD11	LEU	N	25	-8.277	19.443	-6.962	1.00	0.00	H
ATOM	490	HD12	LEU	N	25	-9.811	20.004	-7.631	1.00	0.00	H
ATOM	491	HD13	LEU	N	25	-9.280	20.590	-6.047	1.00	0.00	H
ATOM	492	HD21	LEU	N	25	-12.094	18.091	-5.371	1.00	0.00	H
ATOM	493	HD22	LEU	N	25	-12.009	19.381	-6.580	1.00	0.00	H
ATOM	494	HD23	LEU	N	25	-11.538	19.709	-4.894	1.00	0.00	H
ATOM	495	H	CYS	N	16	-7.265	16.954	4.735	1.00	0.00	H
ATOM	496	C	VAL	N	15	-9.003	17.113	5.829	1.00	0.00	C
ATOM	497	O	CYS	N	16	-11.099	17.276	2.580	1.00	0.00	O
ATOM	498	N	ARG	N	17	-10.034	15.461	3.420	1.00	0.00	N
ATOM	499	HA	ASN	N	14	-8.023	12.466	5.297	1.00	0.00	H
ATOM	500	CB	ASN	N	14	-7.042	12.096	7.172	1.00	0.00	C
ATOM	501	C	ASN	N	14	-8.219	14.208	6.453	1.00	0.00	C
ATOM	502	HD1	PHE	N	13	-4.884	13.392	0.082	1.00	0.00	H
ATOM	503	CE1	PHE	N	13	-6.271	11.749	-0.160	1.00	0.00	C
ATOM	504	HD2	PHE	N	13	-5.777	11.144	3.643	1.00	0.00	H
ATOM	505	CE2	PHE	N	13	-6.746	10.480	1.843	1.00	0.00	C
ATOM	506	H	ALA	N	24	-9.610	12.551	-5.640	1.00	0.00	H
ATOM	507	C	GLU	N	23	-8.290	12.896	-4.100	1.00	0.00	C
ATOM	508	HB1	ALA	N	24	-7.907	14.046	-8.496	1.00	0.00	H
ATOM	509	HB2	ALA	N	24	-9.503	14.232	-7.735	1.00	0.00	H

ATOM	510	HB3	ALA	N	24	-8.856	12.609	-8.040	1.00	0.00	H
ATOM	511	O	VAL	N	15	-10.198	17.443	5.864	1.00	0.00	O
ATOM	512	CA	VAL	N	15	-8.308	16.569	7.081	1.00	0.00	C
ATOM	513	H	ARG	N	17	-9.140	15.071	3.737	1.00	0.00	H
ATOM	514	CA	ARG	N	17	-11.127	14.541	3.168	1.00	0.00	C
ATOM	515	HB1	ASN	N	14	-6.360	12.573	7.888	1.00	0.00	H
ATOM	516	HB2	ASN	N	14	-7.986	11.903	7.707	1.00	0.00	H
ATOM	517	CG	ASN	N	14	-6.535	10.725	6.750	1.00	0.00	C
ATOM	518	O	ASN	N	14	-9.458	14.111	6.491	1.00	0.00	O
ATOM	519	N	VAL	N	15	-7.576	15.336	6.798	1.00	0.00	N
ATOM	520	HE1	PHE	N	13	-6.402	11.920	-1.232	1.00	0.00	H
ATOM	521	CZ	PHE	N	13	-6.937	10.699	0.478	1.00	0.00	C
ATOM	522	HE2	PHE	N	13	-7.259	9.655	2.340	1.00	0.00	H
ATOM	523	O	GLU	N	23	-7.140	13.222	-3.773	1.00	0.00	O
ATOM	524	CA	GLU	N	23	-9.216	12.270	-3.056	1.00	0.00	C
ATOM	525	HA	VAL	N	15	-9.137	16.331	7.759	1.00	0.00	H
ATOM	526	CB	VAL	N	15	-7.387	17.607	7.759	1.00	0.00	C
ATOM	527	HA	ARG	N	17	-11.563	14.762	2.180	1.00	0.00	H
ATOM	528	C	ARG	N	17	-12.301	14.698	4.131	1.00	0.00	C
ATOM	529	CB	ARG	N	17	-10.605	13.094	3.213	1.00	0.00	C
ATOM	530	OD1	ASN	N	14	-6.986	10.175	5.719	1.00	0.00	O
ATOM	531	ND2	ASN	N	14	-5.666	10.124	7.561	1.00	0.00	N
ATOM	532	H	VAL	N	15	-6.554	15.358	6.770	1.00	0.00	H
ATOM	533	HZ	PHE	N	13	-7.591	10.033	-0.078	1.00	0.00	H
ATOM	534	HA	GLU	N	23	-8.816	12.634	-2.097	1.00	0.00	H
ATOM	535	N	GLU	N	23	-10.584	12.717	-3.208	1.00	0.00	N
ATOM	536	CB	GLU	N	23	-9.095	10.740	-3.100	1.00	0.00	C
ATOM	537	HB	VAL	N	15	-6.429	17.606	7.211	1.00	0.00	H
ATOM	538	CG2	VAL	N	15	-7.142	17.167	9.200	1.00	0.00	C
ATOM	539	CG1	VAL	N	15	-7.968	19.021	7.683	1.00	0.00	C
ATOM	540	O	ARG	N	17	-13.397	14.177	3.818	1.00	0.00	O
ATOM	541	N	LEU	N	18	-12.155	15.365	5.278	1.00	0.00	N
ATOM	542	HB1	ARG	N	17	-10.043	12.965	4.144	1.00	0.00	H
ATOM	543	HB2	ARG	N	17	-11.461	12.408	3.274	1.00	0.00	H
ATOM	544	CG	ARG	N	17	-9.722	12.725	2.020	1.00	0.00	C
ATOM	545	HD21	ASN	N	14	-5.413	9.154	7.366	1.00	0.00	H
ATOM	546	HD22	ASN	N	14	-5.221	10.582	8.375	1.00	0.00	H
ATOM	547	H	GLU	N	23	-11.317	12.009	-3.457	1.00	0.00	H
ATOM	548	C	PRO	N	22	-10.874	14.021	-3.295	1.00	0.00	C
ATOM	549	HB1	GLU	N	23	-9.497	10.370	-4.050	1.00	0.00	H
ATOM	550	HB2	GLU	N	23	-8.020	10.514	-3.108	1.00	0.00	H
ATOM	551	CG	GLU	N	23	-9.780	10.027	-1.924	1.00	0.00	C
ATOM	552	HG21	VAL	N	15	-6.499	17.866	9.744	1.00	0.00	H
ATOM	553	HG22	VAL	N	15	-6.655	16.187	9.243	1.00	0.00	H
ATOM	554	HG23	VAL	N	15	-8.099	17.091	9.741	1.00	0.00	H
ATOM	555	HG11	VAL	N	15	-7.311	19.722	8.210	1.00	0.00	H
ATOM	556	HG12	VAL	N	15	-8.056	19.367	6.643	1.00	0.00	H
ATOM	557	HG13	VAL	N	15	-8.967	19.081	8.140	1.00	0.00	H
ATOM	558	H	LEU	N	18	-11.278	15.846	5.495	1.00	0.00	H
ATOM	559	CA	LEU	N	18	-13.256	15.461	6.230	1.00	0.00	C
ATOM	560	HG1	ARG	N	17	-9.180	11.802	2.265	1.00	0.00	H
ATOM	561	HG2	ARG	N	17	-8.949	13.488	1.856	1.00	0.00	H
ATOM	562	CD	ARG	N	17	-10.497	12.542	0.720	1.00	0.00	C
ATOM	563	O	PRO	N	22	-10.024	14.930	-3.199	1.00	0.00	O
ATOM	564	CA	PRO	N	22	-12.314	14.322	-3.674	1.00	0.00	C
ATOM	565	HG1	GLU	N	23	-9.553	10.537	-0.982	1.00	0.00	H
ATOM	566	HG2	GLU	N	23	-10.870	10.060	-2.068	1.00	0.00	H
ATOM	567	CD	GLU	N	23	-9.385	8.556	-1.794	1.00	0.00	C
ATOM	568	HA	LEU	N	18	-13.598	14.441	6.455	1.00	0.00	H
ATOM	569	CB	LEU	N	18	-12.826	16.158	7.521	1.00	0.00	C
ATOM	570	C	LEU	N	18	-14.507	16.125	5.651	1.00	0.00	C
ATOM	571	HD1	ARG	N	17	-11.104	13.428	0.502	1.00	0.00	H
ATOM	572	HD2	ARG	N	17	-9.786	12.445	-0.119	1.00	0.00	H

ATOM	573	NE	ARG	N	17	-11.353	11.357	0.791	1.00	0.00	N
ATOM	574	HA	PRO	N	22	-12.948	13.447	-3.475	1.00	0.00	H
ATOM	575	N	PRO	N	22	-12.848	15.490	-2.966	1.00	0.00	N
ATOM	576	CB	PRO	N	22	-12.429	14.728	-5.149	1.00	0.00	C
ATOM	577	OE1	GLU	N	23	-9.436	7.852	-2.839	1.00	0.00	O
ATOM	578	OE2	GLU	N	23	-9.023	8.122	-0.649	1.00	0.00	O
ATOM	579	HB1	LEU	N	18	-12.321	17.102	7.268	1.00	0.00	H
ATOM	580	HB2	LEU	N	18	-13.738	16.427	8.074	1.00	0.00	H
ATOM	581	CG	LEU	N	18	-11.911	15.339	8.445	1.00	0.00	C
ATOM	582	O	LEU	N	18	-15.626	15.630	5.919	1.00	0.00	O
ATOM	583	N	PRO	N	19	-14.411	17.209	4.864	1.00	0.00	N
ATOM	584	HE	ARG	N	17	-10.941	10.544	1.270	1.00	0.00	H
ATOM	585	CZ	ARG	N	17	-12.382	11.092	-0.033	1.00	0.00	C
ATOM	586	C	THR	N	21	-12.707	15.586	-1.639	1.00	0.00	C
ATOM	587	CD	PRO	N	22	-13.694	16.330	-3.836	1.00	0.00	C
ATOM	588	HB1	PRO	N	22	-12.491	13.852	-5.804	1.00	0.00	H
ATOM	589	HB2	PRO	N	22	-11.556	15.339	-5.425	1.00	0.00	H
ATOM	590	CG	PRO	N	22	-13.705	15.568	-5.166	1.00	0.00	C
ATOM	591	HG	LEU	N	18	-10.988	15.100	7.895	1.00	0.00	H
ATOM	592	CD2	LEU	N	18	-11.548	16.249	9.620	1.00	0.00	C
ATOM	593	CD1	LEU	N	18	-12.547	14.018	8.895	1.00	0.00	C
ATOM	594	CA	PRO	N	19	-15.617	17.740	4.209	1.00	0.00	C
ATOM	595	CD	PRO	N	19	-13.288	18.189	4.811	1.00	0.00	C
ATOM	596	NH1	ARG	N	17	-12.936	12.036	-0.790	1.00	0.00	N
ATOM	597	NH2	ARG	N	17	-12.869	9.844	-0.084	1.00	0.00	N
ATOM	598	O	THR	N	21	-12.119	14.721	-0.967	1.00	0.00	O
ATOM	599	CA	THR	N	21	-13.202	16.847	-0.921	1.00	0.00	C
ATOM	600	HD1	PRO	N	22	-14.702	16.426	-3.413	1.00	0.00	H
ATOM	601	HD2	PRO	N	22	-13.255	17.334	-3.928	1.00	0.00	H
ATOM	602	HG1	PRO	N	22	-13.773	16.241	-6.025	1.00	0.00	H
ATOM	603	HG2	PRO	N	22	-14.573	14.903	-5.183	1.00	0.00	H
ATOM	604	HD21	LEU	N	18	-10.868	15.763	10.330	1.00	0.00	H
ATOM	605	HD22	LEU	N	18	-11.053	17.165	9.261	1.00	0.00	H
ATOM	606	HD23	LEU	N	18	-12.444	16.560	10.180	1.00	0.00	H
ATOM	607	HD11	LEU	N	18	-13.522	14.184	9.374	1.00	0.00	H
ATOM	608	HD12	LEU	N	18	-11.906	13.494	9.619	1.00	0.00	H
ATOM	609	HD13	LEU	N	18	-12.692	13.326	8.051	1.00	0.00	H
ATOM	610	HA	PRO	N	19	-16.512	17.533	4.810	1.00	0.00	H
ATOM	611	CB	PRO	N	19	-15.335	19.233	4.104	1.00	0.00	C
ATOM	612	C	PRO	N	19	-15.882	17.087	2.847	1.00	0.00	C
ATOM	613	HD1	PRO	N	19	-12.370	17.734	4.436	1.00	0.00	H
ATOM	614	HD2	PRO	N	19	-13.106	18.566	5.828	1.00	0.00	H
ATOM	615	CG	PRO	N	19	-13.825	19.293	3.899	1.00	0.00	C
ATOM	616	HH11	ARG	N	17	-12.590	13.001	-0.805	1.00	0.00	H
ATOM	617	HH12	ARG	N	17	-13.616	11.772	-1.516	1.00	0.00	H
ATOM	618	HH21	ARG	N	17	-12.364	9.045	0.309	1.00	0.00	H
ATOM	619	HH22	ARG	N	17	-13.674	9.637	-0.685	1.00	0.00	H
ATOM	620	HA	THR	N	21	-13.820	17.480	-1.573	1.00	0.00	H
ATOM	621	N	THR	N	21	-13.981	16.445	0.230	1.00	0.00	N
ATOM	622	CB	THR	N	21	-11.964	17.635	-0.441	1.00	0.00	C
ATOM	623	HB1	PRO	N	19	-15.907	19.725	3.319	1.00	0.00	H
ATOM	624	HB2	PRO	N	19	-15.600	19.707	5.050	1.00	0.00	H
ATOM	625	O	PRO	N	19	-16.666	17.641	2.047	1.00	0.00	O
ATOM	626	N	GLY	N	20	-15.279	15.920	2.583	1.00	0.00	N
ATOM	627	HG1	PRO	N	19	-13.419	20.279	4.151	1.00	0.00	H
ATOM	628	HG2	PRO	N	19	-13.572	19.080	2.853	1.00	0.00	H
ATOM	629	H	THR	N	21	-13.714	16.817	1.135	1.00	0.00	H
ATOM	630	C	GLY	N	20	-14.934	15.502	0.144	1.00	0.00	C
ATOM	631	HB	THR	N	21	-11.302	16.907	0.046	1.00	0.00	H
ATOM	632	OG1	THR	N	21	-12.369	18.584	0.549	1.00	0.00	O
ATOM	633	CG2	THR	N	21	-11.232	18.291	-1.600	1.00	0.00	C
ATOM	634	H	GLY	N	20	-14.628	15.500	3.251	1.00	0.00	H
ATOM	635	CA	GLY	N	20	-15.621	15.103	1.434	1.00	0.00	C

ATOM	636	O	GLY	N	20	-15.233	14.957	-0.922	1.00	0.00	O
ATOM	637	HG1	THR	N	21	-11.845	18.372	1.353	1.00	0.00	H
ATOM	638	HG21	THR	N	21	-10.815	17.518	-2.258	1.00	0.00	H
ATOM	639	HG22	THR	N	21	-10.402	18.902	-1.222	1.00	0.00	H
ATOM	640	HG23	THR	N	21	-11.898	18.941	-2.186	1.00	0.00	H
ATOM	641	HA1	GLY	N	20	-16.700	15.141	1.242	1.00	0.00	H
ATOM	642	HA2	GLY	N	20	-15.327	14.067	1.647	1.00	0.00	H
END											

4) CRAMBIN – molecule as in the optimized 172W crystal

COMPND	CRAMBIN OPTIMIZED CRYSTAL 172W GEOMETRY										
AUTHOR	DELLE PIANE, CORNO, ORLANDO, DOVESI, UGLIENGO										
ATOM	1	N	THR	N	1	-6.981	-4.273	-2.053	1.00	0.00	N
ATOM	2	H1	THR	N	1	-6.366	-5.104	-2.013	1.00	0.00	H
ATOM	3	H2	THR	N	1	-7.626	-4.384	-2.862	1.00	0.00	H
ATOM	4	H3	THR	N	1	-7.578	-4.181	-1.184	1.00	0.00	H
ATOM	5	CA	THR	N	1	-6.209	-3.015	-2.242	1.00	0.00	C
ATOM	6	HA	THR	N	1	-6.902	-2.179	-2.074	1.00	0.00	H
ATOM	7	C	THR	N	1	-5.659	-3.012	-3.656	1.00	0.00	C
ATOM	8	CB	THR	N	1	-5.097	-2.937	-1.169	1.00	0.00	C
ATOM	9	O	THR	N	1	-5.157	-4.037	-4.136	1.00	0.00	O
ATOM	10	N	THR	N	2	-5.741	-1.835	-4.296	1.00	0.00	N
ATOM	11	HB	THR	N	1	-4.492	-3.855	-1.261	1.00	0.00	H
ATOM	12	OG1	THR	N	1	-5.747	-2.931	0.090	1.00	0.00	O
ATOM	13	CG2	THR	N	1	-4.187	-1.732	-1.308	1.00	0.00	C
ATOM	14	H	THR	N	2	-6.101	-1.014	-3.798	1.00	0.00	H
ATOM	15	CA	THR	N	2	-5.062	-1.600	-5.559	1.00	0.00	C
ATOM	16	HG1	THR	N	1	-5.694	-3.860	0.443	1.00	0.00	H
ATOM	17	HG21	THR	N	1	-4.742	-0.798	-1.179	1.00	0.00	H
ATOM	18	HG22	THR	N	1	-3.696	-1.712	-2.287	1.00	0.00	H
ATOM	19	HG23	THR	N	1	-3.410	-1.777	-0.535	1.00	0.00	H
ATOM	20	HA	THR	N	2	-4.867	-2.578	-6.015	1.00	0.00	H
ATOM	21	C	THR	N	2	-3.725	-0.926	-5.260	1.00	0.00	C
ATOM	22	CB	THR	N	2	-5.940	-0.775	-6.535	1.00	0.00	C
ATOM	23	O	THR	N	2	-3.636	0.012	-4.433	1.00	0.00	O
ATOM	24	N	CYS	N	3	-2.679	-1.411	-5.929	1.00	0.00	N
ATOM	25	HB	THR	N	2	-5.389	-0.716	-7.489	1.00	0.00	H
ATOM	26	OG1	THR	N	2	-6.095	0.559	-6.075	1.00	0.00	O
ATOM	27	CG2	THR	N	2	-7.272	-1.482	-6.757	1.00	0.00	C
ATOM	28	H	CYS	N	3	-2.825	-2.235	-6.533	1.00	0.00	H
ATOM	29	CA	CYS	N	3	-1.310	-0.994	-5.669	1.00	0.00	C
ATOM	30	HG1	THR	N	2	-6.964	0.684	-5.607	1.00	0.00	H
ATOM	31	HG21	THR	N	2	-7.960	-0.833	-7.308	1.00	0.00	H
ATOM	32	HG22	THR	N	2	-7.750	-1.746	-5.806	1.00	0.00	H
ATOM	33	HG23	THR	N	2	-7.130	-2.411	-7.328	1.00	0.00	H
ATOM	34	HA	CYS	N	3	-1.338	-0.095	-5.040	1.00	0.00	H
ATOM	35	C	CYS	N	3	-0.662	-0.709	-7.023	1.00	0.00	C
ATOM	36	CB	CYS	N	3	-0.512	-2.104	-4.968	1.00	0.00	C
ATOM	37	O	CYS	N	3	-0.690	-1.584	-7.904	1.00	0.00	O
ATOM	38	N	CYS	N	4	-0.075	0.479	-7.208	1.00	0.00	N
ATOM	39	HB1	CYS	N	3	0.510	-1.753	-4.785	1.00	0.00	H
ATOM	40	HB2	CYS	N	3	-0.469	-2.995	-5.609	1.00	0.00	H
ATOM	41	SG	CYS	N	3	-1.226	-2.706	-3.398	1.00	0.00	S
ATOM	42	H	CYS	N	4	-0.046	1.199	-6.479	1.00	0.00	H
ATOM	43	CA	CYS	N	4	0.416	0.827	-8.528	1.00	0.00	C
ATOM	44	SG	CYS	N	40	-0.820	-1.125	-2.107	1.00	0.00	S
ATOM	45	HA	CYS	N	4	0.126	-0.001	-9.178	1.00	0.00	H

ATOM	46	C	CYS	N	4	1.939	0.916	-8.521	1.00	0.00	C
ATOM	47	CB	CYS	N	4	-0.255	2.101	-9.050	1.00	0.00	C
ATOM	48	CB	CYS	N	40	0.921	-1.474	-1.645	1.00	0.00	C
ATOM	49	O	CYS	N	4	2.563	1.414	-7.570	1.00	0.00	O
ATOM	50	N	PRO	N	5	2.575	0.437	-9.605	1.00	0.00	N
ATOM	51	HB1	CYS	N	4	0.222	2.474	-9.965	1.00	0.00	H
ATOM	52	HB2	CYS	N	4	-0.205	2.912	-8.311	1.00	0.00	H
ATOM	53	SG	CYS	N	4	-2.046	1.849	-9.375	1.00	0.00	S
ATOM	54	HB1	CYS	N	40	1.549	-1.517	-2.545	1.00	0.00	H
ATOM	55	HB2	CYS	N	40	1.246	-0.591	-1.073	1.00	0.00	H
ATOM	56	CA	CYS	N	40	1.075	-2.741	-0.801	1.00	0.00	C
ATOM	57	CA	PRO	N	5	4.046	0.443	-9.656	1.00	0.00	C
ATOM	58	CD	PRO	N	5	1.975	-0.229	-10.790	1.00	0.00	C
ATOM	59	SG	CYS	N	32	-2.058	0.916	-11.241	1.00	0.00	S
ATOM	60	HA	CYS	N	40	0.639	-3.595	-1.332	1.00	0.00	H
ATOM	61	N	CYS	N	40	0.402	-2.581	0.462	1.00	0.00	N
ATOM	62	C	CYS	N	40	2.571	-2.985	-0.593	1.00	0.00	C
ATOM	63	HA	PRO	N	5	4.471	0.091	-8.710	1.00	0.00	H
ATOM	64	C	PRO	N	5	4.631	1.837	-9.876	1.00	0.00	C
ATOM	65	CB	PRO	N	5	4.348	-0.520	-10.812	1.00	0.00	C
ATOM	66	HD1	PRO	N	5	1.147	0.359	-11.204	1.00	0.00	H
ATOM	67	HD2	PRO	N	5	1.596	-1.219	-10.504	1.00	0.00	H
ATOM	68	CG	PRO	N	5	3.154	-0.357	-11.749	1.00	0.00	C
ATOM	69	CB	CYS	N	32	-2.384	-0.863	-10.866	1.00	0.00	C
ATOM	70	H	CYS	N	40	0.018	-1.659	0.693	1.00	0.00	H
ATOM	71	C	THR	N	39	0.323	-3.584	1.354	1.00	0.00	C
ATOM	72	O	CYS	N	40	3.194	-2.409	0.317	1.00	0.00	O
ATOM	73	N	PRO	N	41	3.175	-3.780	-1.485	1.00	0.00	N
ATOM	74	O	PRO	N	5	5.836	2.032	-9.650	1.00	0.00	O
ATOM	75	N	SER	N	6	3.795	2.768	-10.365	1.00	0.00	N
ATOM	76	HB1	PRO	N	5	5.317	-0.329	-11.282	1.00	0.00	H
ATOM	77	HB2	PRO	N	5	4.368	-1.540	-10.414	1.00	0.00	H
ATOM	78	HG1	PRO	N	5	3.036	-1.193	-12.446	1.00	0.00	H
ATOM	79	HG2	PRO	N	5	3.239	0.552	-12.357	1.00	0.00	H
ATOM	80	HB1	CYS	N	32	-2.654	-0.929	-9.806	1.00	0.00	H
ATOM	81	HB2	CYS	N	32	-3.274	-1.131	-11.451	1.00	0.00	H
ATOM	82	CA	CYS	N	32	-1.238	-1.843	-11.165	1.00	0.00	C
ATOM	83	O	THR	N	39	0.778	-4.717	1.156	1.00	0.00	O
ATOM	84	CA	THR	N	39	-0.437	-3.215	2.626	1.00	0.00	C
ATOM	85	CA	PRO	N	41	4.624	-3.949	-1.455	1.00	0.00	C
ATOM	86	CD	PRO	N	41	2.538	-4.512	-2.606	1.00	0.00	C
ATOM	87	H	SER	N	6	2.810	2.554	-10.481	1.00	0.00	H
ATOM	88	CA	SER	N	6	4.181	4.146	-10.560	1.00	0.00	C
ATOM	89	HA	CYS	N	32	-0.391	-1.626	-10.505	1.00	0.00	H
ATOM	90	N	CYS	N	32	-0.808	-1.774	-12.548	1.00	0.00	N
ATOM	91	C	CYS	N	32	-1.711	-3.276	-10.827	1.00	0.00	C
ATOM	92	HA	THR	N	39	-0.504	-2.123	2.722	1.00	0.00	H
ATOM	93	N	THR	N	39	-1.795	-3.714	2.510	1.00	0.00	N
ATOM	94	CB	THR	N	39	0.232	-3.793	3.894	1.00	0.00	C
ATOM	95	HA	PRO	N	41	4.956	-4.207	-0.440	1.00	0.00	H
ATOM	96	CB	PRO	N	41	4.847	-5.111	-2.443	1.00	0.00	C
ATOM	97	C	PRO	N	41	5.313	-2.637	-1.883	1.00	0.00	C
ATOM	98	HD1	PRO	N	41	1.833	-3.870	-3.151	1.00	0.00	H
ATOM	99	HD2	PRO	N	41	1.987	-5.383	-2.219	1.00	0.00	H
ATOM	100	CG	PRO	N	41	3.724	-4.949	-3.459	1.00	0.00	C
ATOM	101	HA	SER	N	6	4.943	4.384	-9.810	1.00	0.00	H
ATOM	102	C	SER	N	6	2.974	5.047	-10.328	1.00	0.00	C
ATOM	103	CB	SER	N	6	4.783	4.402	-11.937	1.00	0.00	C
ATOM	104	H	CYS	N	32	-1.475	-1.383	-13.218	1.00	0.00	H
ATOM	105	C	GLY	N	31	0.220	-2.509	-13.020	1.00	0.00	C
ATOM	106	O	CYS	N	32	-1.912	-4.107	-11.718	1.00	0.00	O
ATOM	107	N	ILE	N	33	-1.907	-3.522	-9.524	1.00	0.00	N
ATOM	108	H	THR	N	39	-1.893	-4.738	2.549	1.00	0.00	H

ATOM	109	C	ALA	N	38	-2.879	-2.923	2.442	1.00	0.00	C
ATOM	110	HB	THR	N	39	0.420	-4.866	3.733	1.00	0.00	H
ATOM	111	OG1	THR	N	39	-0.649	-3.628	5.001	1.00	0.00	O
ATOM	112	CG2	THR	N	39	1.549	-3.110	4.215	1.00	0.00	C
ATOM	113	HB1	PRO	N	41	5.838	-5.087	-2.887	1.00	0.00	H
ATOM	114	HB2	PRO	N	41	4.746	-6.061	-1.896	1.00	0.00	H
ATOM	115	O	PRO	N	41	4.727	-1.770	-2.543	1.00	0.00	O
ATOM	116	N	GLY	N	42	6.616	-2.517	-1.519	1.00	0.00	N
ATOM	117	HG1	PRO	N	41	3.521	-5.874	-4.007	1.00	0.00	H
ATOM	118	HG2	PRO	N	41	3.993	-4.157	-4.172	1.00	0.00	H
ATOM	119	O	SER	N	6	1.811	4.608	-10.369	1.00	0.00	O
ATOM	120	N	ILE	N	7	3.282	6.333	-10.111	1.00	0.00	N
ATOM	121	HB1	SER	N	6	5.301	5.365	-11.917	1.00	0.00	H
ATOM	122	HB2	SER	N	6	5.540	3.633	-12.128	1.00	0.00	H
ATOM	123	OG	SER	N	6	3.776	4.396	-12.945	1.00	0.00	O
ATOM	124	O	GLY	N	31	1.007	-3.124	-12.278	1.00	0.00	O
ATOM	125	CA	GLY	N	31	0.424	-2.558	-14.535	1.00	0.00	C
ATOM	126	H	ILE	N	33	-1.614	-2.824	-8.835	1.00	0.00	H
ATOM	127	CA	ILE	N	33	-2.190	-4.860	-9.045	1.00	0.00	C
ATOM	128	O	ALA	N	38	-2.827	-1.694	2.236	1.00	0.00	O
ATOM	129	CA	ALA	N	38	-4.224	-3.601	2.746	1.00	0.00	C
ATOM	130	HG1	THR	N	39	-1.361	-4.311	4.940	1.00	0.00	H
ATOM	131	HG21	THR	N	39	2.264	-3.233	3.390	1.00	0.00	H
ATOM	132	HG22	THR	N	39	1.986	-3.551	5.124	1.00	0.00	H
ATOM	133	HG23	THR	N	39	1.403	-2.028	4.366	1.00	0.00	H
ATOM	134	H	GLY	N	42	7.086	-3.306	-1.085	1.00	0.00	H
ATOM	135	CA	GLY	N	42	7.403	-1.326	-1.795	1.00	0.00	C
ATOM	136	H	ILE	N	7	4.275	6.607	-10.065	1.00	0.00	H
ATOM	137	CA	ILE	N	7	2.262	7.357	-9.959	1.00	0.00	C
ATOM	138	H	SER	N	6	4.194	4.838	-13.710	1.00	0.00	H
ATOM	139	HA1	GLY	N	31	0.524	-3.613	-14.820	1.00	0.00	H
ATOM	140	HA2	GLY	N	31	1.375	-2.056	-14.768	1.00	0.00	H
ATOM	141	N	GLY	N	31	-0.650	-1.971	-15.301	1.00	0.00	N
ATOM	142	HA	ILE	N	33	-2.575	-5.434	-9.896	1.00	0.00	H
ATOM	143	C	ILE	N	33	-3.277	-4.788	-7.981	1.00	0.00	C
ATOM	144	CB	ILE	N	33	-0.907	-5.586	-8.545	1.00	0.00	C
ATOM	145	HA	ALA	N	38	-4.925	-3.273	1.985	1.00	0.00	H
ATOM	146	N	ALA	N	38	-4.144	-5.058	2.692	1.00	0.00	N
ATOM	147	CB	ALA	N	38	-4.718	-3.089	4.109	1.00	0.00	C
ATOM	148	HA1	GLY	N	42	8.334	-1.369	-1.222	1.00	0.00	H
ATOM	149	HA2	GLY	N	42	6.865	-0.434	-1.442	1.00	0.00	H
ATOM	150	C	GLY	N	42	7.757	-1.056	-3.253	1.00	0.00	C
ATOM	151	HA	ILE	N	7	1.515	7.000	-9.235	1.00	0.00	H
ATOM	152	C	ILE	N	7	1.427	7.554	-11.232	1.00	0.00	C
ATOM	153	CB	ILE	N	7	2.897	8.654	-9.409	1.00	0.00	C
ATOM	154	H	GLY	N	31	-1.448	-2.568	-15.512	1.00	0.00	H
ATOM	155	C	THR	N	30	-0.734	-0.660	-15.569	1.00	0.00	C
ATOM	156	O	ILE	N	33	-3.483	-3.756	-7.318	1.00	0.00	O
ATOM	157	N	ILE	N	34	-3.963	-5.932	-7.800	1.00	0.00	N
ATOM	158	HB	ILE	N	33	-1.210	-6.611	-8.296	1.00	0.00	H
ATOM	159	CG2	ILE	N	33	0.099	-5.653	-9.696	1.00	0.00	C
ATOM	160	CG1	ILE	N	33	-0.324	-4.968	-7.261	1.00	0.00	C
ATOM	161	H	ALA	N	38	-3.641	-5.487	3.479	1.00	0.00	H
ATOM	162	C	GLY	N	37	-4.583	-5.842	1.689	1.00	0.00	C
ATOM	163	HB1	ALA	N	38	-5.708	-3.502	4.336	1.00	0.00	H
ATOM	164	HB2	ALA	N	38	-4.026	-3.365	4.915	1.00	0.00	H
ATOM	165	HB3	ALA	N	38	-4.801	-1.994	4.074	1.00	0.00	H
ATOM	166	O	GLY	N	42	8.312	0.007	-3.562	1.00	0.00	O
ATOM	167	N	ASP	N	43	7.372	-1.991	-4.145	1.00	0.00	N
ATOM	168	O	ILE	N	7	0.196	7.663	-11.118	1.00	0.00	O
ATOM	169	N	VAL	N	8	2.046	7.582	-12.425	1.00	0.00	N
ATOM	170	HB	ILE	N	7	3.833	8.833	-9.969	1.00	0.00	H
ATOM	171	CG2	ILE	N	7	1.990	9.858	-9.628	1.00	0.00	C

ATOM	172	CG1	ILE	N	7	3.238	8.442	-7.920	1.00	0.00	C
ATOM	173	O	THR	N	30	0.137	0.170	-15.256	1.00	0.00	O
ATOM	174	CA	THR	N	30	-2.048	-0.155	-16.154	1.00	0.00	C
ATOM	175	H	ILE	N	34	-3.720	-6.734	-8.387	1.00	0.00	H
ATOM	176	CA	ILE	N	34	-4.896	-6.102	-6.699	1.00	0.00	C
ATOM	177	HG21	ILE	N	33	1.059	-6.031	-9.349	1.00	0.00	H
ATOM	178	HG22	ILE	N	33	0.294	-4.668	-10.135	1.00	0.00	H
ATOM	179	HG23	ILE	N	33	-0.259	-6.319	-10.494	1.00	0.00	H
ATOM	180	HG11	ILE	N	33	0.036	-3.948	-7.467	1.00	0.00	H
ATOM	181	HG12	ILE	N	33	-1.135	-4.867	-6.519	1.00	0.00	H
ATOM	182	CD1	ILE	N	33	0.806	-5.788	-6.634	1.00	0.00	C
ATOM	183	O	GLY	N	37	-5.192	-5.439	0.685	1.00	0.00	O
ATOM	184	CA	GLY	N	37	-4.277	-7.340	1.876	1.00	0.00	C
ATOM	185	H	ASP	N	43	7.115	-2.921	-3.822	1.00	0.00	H
ATOM	186	CA	ASP	N	43	7.540	-1.865	-5.575	1.00	0.00	C
ATOM	187	H	VAL	N	8	3.075	7.571	-12.474	1.00	0.00	H
ATOM	188	CA	VAL	N	8	1.231	7.642	-13.635	1.00	0.00	C
ATOM	189	HG21	ILE	N	7	2.486	10.761	-9.261	1.00	0.00	H
ATOM	190	HG22	ILE	N	7	1.774	10.026	-10.692	1.00	0.00	H
ATOM	191	HG23	ILE	N	7	1.030	9.743	-9.102	1.00	0.00	H
ATOM	192	HG11	ILE	N	7	3.912	7.578	-7.833	1.00	0.00	H
ATOM	193	HG12	ILE	N	7	2.305	8.163	-7.398	1.00	0.00	H
ATOM	194	CD1	ILE	N	7	3.882	9.623	-7.203	1.00	0.00	C
ATOM	195	HA	THR	N	30	-1.784	0.506	-16.991	1.00	0.00	H
ATOM	196	N	THR	N	30	-2.922	-1.203	-16.648	1.00	0.00	N
ATOM	197	CB	THR	N	30	-2.743	0.671	-15.042	1.00	0.00	C
ATOM	198	HA	ILE	N	34	-4.968	-5.129	-6.201	1.00	0.00	H
ATOM	199	C	ILE	N	34	-4.312	-7.131	-5.740	1.00	0.00	C
ATOM	200	CB	ILE	N	34	-6.308	-6.589	-7.113	1.00	0.00	C
ATOM	201	HD11	ILE	N	33	1.699	-5.811	-7.274	1.00	0.00	H
ATOM	202	HD12	ILE	N	33	1.115	-5.356	-5.670	1.00	0.00	H
ATOM	203	HD13	ILE	N	33	0.476	-6.826	-6.460	1.00	0.00	H
ATOM	204	HA1	GLY	N	37	-3.203	-7.445	2.083	1.00	0.00	H
ATOM	205	HA2	GLY	N	37	-4.844	-7.699	2.749	1.00	0.00	H
ATOM	206	N	GLY	N	37	-4.587	-8.140	0.714	1.00	0.00	N
ATOM	207	HA	ASP	N	43	8.092	-0.928	-5.740	1.00	0.00	H
ATOM	208	CB	ASP	N	43	8.362	-3.012	-6.185	1.00	0.00	C
ATOM	209	C	ASP	N	43	6.188	-1.674	-6.293	1.00	0.00	C
ATOM	210	HA	VAL	N	8	0.474	8.427	-13.495	1.00	0.00	H
ATOM	211	C	VAL	N	8	0.386	6.376	-13.797	1.00	0.00	C
ATOM	212	CB	VAL	N	8	2.063	7.992	-14.894	1.00	0.00	C
ATOM	213	HD11	ILE	N	7	4.830	9.910	-7.679	1.00	0.00	H
ATOM	214	HD12	ILE	N	7	4.099	9.366	-6.157	1.00	0.00	H
ATOM	215	HD13	ILE	N	7	3.236	10.512	-7.188	1.00	0.00	H
ATOM	216	H	THR	N	30	-3.621	-1.601	-16.018	1.00	0.00	H
ATOM	217	C	TYR	N	29	-3.032	-1.494	-17.965	1.00	0.00	C
ATOM	218	HB	THR	N	30	-2.024	1.426	-14.698	1.00	0.00	H
ATOM	219	OG1	THR	N	30	-2.982	-0.172	-13.904	1.00	0.00	O
ATOM	220	CG2	THR	N	30	-4.002	1.378	-15.522	1.00	0.00	C
ATOM	221	O	ILE	N	34	-3.969	-8.261	-6.165	1.00	0.00	O
ATOM	222	N	ILE	N	35	-4.250	-6.788	-4.452	1.00	0.00	N
ATOM	223	HB	ILE	N	34	-6.201	-7.637	-7.440	1.00	0.00	H
ATOM	224	CG1	ILE	N	34	-6.892	-5.815	-8.301	1.00	0.00	C
ATOM	225	CG2	ILE	N	34	-7.240	-6.541	-5.895	1.00	0.00	C
ATOM	226	H	GLY	N	37	-3.784	-8.445	0.152	1.00	0.00	H
ATOM	227	C	PRO	N	36	-5.817	-8.596	0.446	1.00	0.00	C
ATOM	228	HB1	ASP	N	43	8.484	-2.856	-7.262	1.00	0.00	H
ATOM	229	HB2	ASP	N	43	9.363	-2.978	-5.733	1.00	0.00	H
ATOM	230	CG	ASP	N	43	7.824	-4.422	-5.959	1.00	0.00	C
ATOM	231	O	ASP	N	43	6.149	-1.501	-7.525	1.00	0.00	O
ATOM	232	N	TYR	N	44	5.089	-1.662	-5.524	1.00	0.00	N
ATOM	233	O	VAL	N	8	-0.765	6.476	-14.243	1.00	0.00	O
ATOM	234	N	ALA	N	9	0.912	5.191	-13.434	1.00	0.00	N

ATOM	235	HB	VAL	N	8	3.046	7.497	-14.789	1.00	0.00	H
ATOM	236	CG1	VAL	N	8	1.426	7.475	-16.191	1.00	0.00	C
ATOM	237	CG2	VAL	N	8	2.274	9.512	-14.939	1.00	0.00	C
ATOM	238	O	TYR	N	29	-2.303	-1.017	-18.833	1.00	0.00	O
ATOM	239	CA	TYR	N	29	-4.204	-2.404	-18.355	1.00	0.00	C
ATOM	240	HG1	THR	N	30	-3.774	-0.727	-14.089	1.00	0.00	H
ATOM	241	HG21	THR	N	30	-4.356	2.054	-14.738	1.00	0.00	H
ATOM	242	HG22	THR	N	30	-4.803	0.669	-15.770	1.00	0.00	H
ATOM	243	HG23	THR	N	30	-3.776	1.981	-16.412	1.00	0.00	H
ATOM	244	H	ILE	N	35	-4.581	-5.860	-4.169	1.00	0.00	H
ATOM	245	CA	ILE	N	35	-3.826	-7.743	-3.443	1.00	0.00	C
ATOM	246	HG11	ILE	N	34	-6.137	-5.758	-9.097	1.00	0.00	H
ATOM	247	HG12	ILE	N	34	-7.123	-4.780	-7.991	1.00	0.00	H
ATOM	248	CD1	ILE	N	34	-8.139	-6.496	-8.862	1.00	0.00	C
ATOM	249	HG21	ILE	N	34	-8.233	-6.922	-6.162	1.00	0.00	H
ATOM	250	HG22	ILE	N	34	-6.879	-7.150	-5.055	1.00	0.00	H
ATOM	251	HG23	ILE	N	34	-7.354	-5.508	-5.529	1.00	0.00	H
ATOM	252	O	PRO	N	36	-6.810	-8.400	1.168	1.00	0.00	O
ATOM	253	CA	PRO	N	36	-6.044	-9.432	-0.815	1.00	0.00	C
ATOM	254	OD2	ASP	N	43	7.101	-4.644	-4.943	1.00	0.00	O
ATOM	255	OD1	ASP	N	43	8.161	-5.311	-6.808	1.00	0.00	O
ATOM	256	H	TYR	N	44	5.196	-1.753	-4.510	1.00	0.00	H
ATOM	257	CA	TYR	N	44	3.775	-1.270	-6.020	1.00	0.00	C
ATOM	258	H	ALA	N	9	1.867	5.122	-13.077	1.00	0.00	H
ATOM	259	CA	ALA	N	9	0.073	3.995	-13.471	1.00	0.00	C
ATOM	260	HG11	VAL	N	8	2.055	7.744	-17.049	1.00	0.00	H
ATOM	261	HG12	VAL	N	8	1.319	6.380	-16.193	1.00	0.00	H
ATOM	262	HG13	VAL	N	8	0.420	7.892	-16.353	1.00	0.00	H
ATOM	263	HG21	VAL	N	8	2.835	9.804	-15.835	1.00	0.00	H
ATOM	264	HG22	VAL	N	8	2.824	9.876	-14.059	1.00	0.00	H
ATOM	265	HG23	VAL	N	8	1.303	10.033	-14.967	1.00	0.00	H
ATOM	266	HA	TYR	N	29	-3.902	-2.810	-19.329	1.00	0.00	H
ATOM	267	N	TYR	N	29	-4.407	-3.515	-17.429	1.00	0.00	N
ATOM	268	CB	TYR	N	29	-5.489	-1.558	-18.523	1.00	0.00	C
ATOM	269	HA	ILE	N	35	-3.648	-8.672	-3.990	1.00	0.00	H
ATOM	270	C	ILE	N	35	-4.960	-7.961	-2.446	1.00	0.00	C
ATOM	271	CB	ILE	N	35	-2.493	-7.342	-2.747	1.00	0.00	C
ATOM	272	HD11	ILE	N	34	-8.495	-5.981	-9.756	1.00	0.00	H
ATOM	273	HD12	ILE	N	34	-8.976	-6.511	-8.152	1.00	0.00	H
ATOM	274	HD13	ILE	N	34	-7.915	-7.535	-9.145	1.00	0.00	H
ATOM	275	HA	PRO	N	36	-7.053	-9.177	-1.156	1.00	0.00	H
ATOM	276	N	PRO	N	36	-5.062	-9.177	-1.879	1.00	0.00	N
ATOM	277	CB	PRO	N	36	-5.973	-10.957	-0.565	1.00	0.00	C
ATOM	278	HA	TYR	N	44	3.938	-0.794	-6.995	1.00	0.00	H
ATOM	279	CB	TYR	N	44	2.815	-2.446	-6.211	1.00	0.00	C
ATOM	280	C	TYR	N	44	3.235	-0.200	-5.067	1.00	0.00	C
ATOM	281	HA	ALA	N	9	-0.320	3.873	-14.489	1.00	0.00	H
ATOM	282	CB	ALA	N	9	0.872	2.740	-13.121	1.00	0.00	C
ATOM	283	C	ALA	N	9	-1.174	4.191	-12.584	1.00	0.00	C
ATOM	284	H	TYR	N	29	-5.325	-3.628	-16.986	1.00	0.00	H
ATOM	285	C	THR	N	28	-3.537	-4.542	-17.426	1.00	0.00	C
ATOM	286	HB1	TYR	N	29	-5.759	-1.112	-17.555	1.00	0.00	H
ATOM	287	HB2	TYR	N	29	-6.313	-2.239	-18.786	1.00	0.00	H
ATOM	288	CG	TYR	N	29	-5.292	-0.491	-19.575	1.00	0.00	C
ATOM	289	O	ILE	N	35	-5.720	-7.017	-2.136	1.00	0.00	O
ATOM	290	HB	ILE	N	35	-2.276	-8.158	-2.040	1.00	0.00	H
ATOM	291	CG2	ILE	N	35	-1.366	-7.297	-3.789	1.00	0.00	C
ATOM	292	CG1	ILE	N	35	-2.628	-6.041	-1.932	1.00	0.00	C
ATOM	293	CD	PRO	N	36	-4.429	-10.420	-2.370	1.00	0.00	C
ATOM	294	HB1	PRO	N	36	-5.980	-11.179	0.509	1.00	0.00	H
ATOM	295	HB2	PRO	N	36	-6.865	-11.420	-1.009	1.00	0.00	H
ATOM	296	CG	PRO	N	36	-4.681	-11.427	-1.248	1.00	0.00	C
ATOM	297	HB1	TYR	N	44	1.834	-2.023	-6.455	1.00	0.00	H

ATOM	298	HB2	TYR	N	44	2.702	-2.983	-5.260	1.00	0.00	H
ATOM	299	CG	TYR	N	44	3.240	-3.355	-7.331	1.00	0.00	C
ATOM	300	O	TYR	N	44	2.169	-0.335	-4.443	1.00	0.00	O
ATOM	301	N	ALA	N	45	4.050	0.858	-4.931	1.00	0.00	N
ATOM	302	HB1	ALA	N	9	0.215	1.862	-13.147	1.00	0.00	H
ATOM	303	HB2	ALA	N	9	1.673	2.580	-13.856	1.00	0.00	H
ATOM	304	HB3	ALA	N	9	1.330	2.825	-12.127	1.00	0.00	H
ATOM	305	O	ALA	N	9	-2.279	3.795	-12.985	1.00	0.00	O
ATOM	306	N	ARG	N	10	-1.010	4.807	-11.394	1.00	0.00	N
ATOM	307	O	THR	N	28	-2.536	-4.556	-18.164	1.00	0.00	O
ATOM	308	CA	THR	N	28	-3.762	-5.720	-16.464	1.00	0.00	C
ATOM	309	CD1	TYR	N	29	-5.055	-0.861	-20.904	1.00	0.00	C
ATOM	310	CD2	TYR	N	29	-5.213	0.870	-19.257	1.00	0.00	C
ATOM	311	HG21	ILE	N	35	-0.376	-7.209	-3.324	1.00	0.00	H
ATOM	312	HG22	ILE	N	35	-1.343	-8.212	-4.401	1.00	0.00	H
ATOM	313	HG23	ILE	N	35	-1.489	-6.451	-4.484	1.00	0.00	H
ATOM	314	HG11	ILE	N	35	-3.509	-6.115	-1.276	1.00	0.00	H
ATOM	315	HG12	ILE	N	35	-2.827	-5.200	-2.621	1.00	0.00	H
ATOM	316	CD1	ILE	N	35	-1.414	-5.709	-1.066	1.00	0.00	C
ATOM	317	HD1	PRO	N	36	-3.361	-10.264	-2.536	1.00	0.00	H
ATOM	318	HD2	PRO	N	36	-4.908	-10.711	-3.320	1.00	0.00	H
ATOM	319	HG1	PRO	N	36	-3.855	-11.401	-0.530	1.00	0.00	H
ATOM	320	HG2	PRO	N	36	-4.763	-12.455	-1.629	1.00	0.00	H
ATOM	321	CD1	TYR	N	44	2.664	-3.183	-8.592	1.00	0.00	C
ATOM	322	CD2	TYR	N	44	4.223	-4.344	-7.182	1.00	0.00	C
ATOM	323	H	ALA	N	45	4.840	0.978	-5.579	1.00	0.00	H
ATOM	324	CA	ALA	N	45	3.945	1.800	-3.839	1.00	0.00	C
ATOM	325	H	ARG	N	10	-0.067	5.076	-11.110	1.00	0.00	H
ATOM	326	CA	ARG	N	10	-2.135	5.212	-10.551	1.00	0.00	C
ATOM	327	HA	THR	N	28	-2.738	-6.005	-16.187	1.00	0.00	H
ATOM	328	N	THR	N	28	-4.470	-5.307	-15.261	1.00	0.00	N
ATOM	329	CB	THR	N	28	-4.390	-6.938	-17.163	1.00	0.00	C
ATOM	330	HD1	TYR	N	29	-5.086	-1.913	-21.185	1.00	0.00	H
ATOM	331	CE1	TYR	N	29	-4.737	0.074	-21.881	1.00	0.00	C
ATOM	332	HD2	TYR	N	29	-5.391	1.193	-18.229	1.00	0.00	H
ATOM	333	CE2	TYR	N	29	-4.889	1.824	-20.222	1.00	0.00	C
ATOM	334	HD11	ILE	N	35	-0.502	-5.564	-1.663	1.00	0.00	H
ATOM	335	HD12	ILE	N	35	-1.206	-6.505	-0.336	1.00	0.00	H
ATOM	336	HD13	ILE	N	35	-1.586	-4.783	-0.498	1.00	0.00	H
ATOM	337	HD1	TYR	N	44	1.888	-2.427	-8.724	1.00	0.00	H
ATOM	338	CE1	TYR	N	44	3.028	-3.972	-9.678	1.00	0.00	C
ATOM	339	HD2	TYR	N	44	4.703	-4.507	-6.218	1.00	0.00	H
ATOM	340	CE2	TYR	N	44	4.594	-5.150	-8.254	1.00	0.00	C
ATOM	341	HA	ALA	N	45	3.505	1.267	-2.983	1.00	0.00	H
ATOM	342	C	ALA	N	45	3.025	2.978	-4.134	1.00	0.00	C
ATOM	343	CB	ALA	N	45	5.343	2.326	-3.501	1.00	0.00	C
ATOM	344	HA	ARG	N	10	-2.747	4.328	-10.340	1.00	0.00	H
ATOM	345	C	ARG	N	10	-3.086	6.191	-11.248	1.00	0.00	C
ATOM	346	CB	ARG	N	10	-1.615	5.831	-9.242	1.00	0.00	C
ATOM	347	H	THR	N	28	-5.450	-5.571	-15.129	1.00	0.00	H
ATOM	348	C	ALA	N	27	-3.856	-4.419	-14.449	1.00	0.00	C
ATOM	349	HB	THR	N	28	-3.822	-7.046	-18.107	1.00	0.00	H
ATOM	350	OG1	THR	N	28	-5.749	-6.635	-17.442	1.00	0.00	O
ATOM	351	CG2	THR	N	28	-4.246	-8.241	-16.381	1.00	0.00	C
ATOM	352	HE1	TYR	N	29	-4.548	-0.248	-22.902	1.00	0.00	H
ATOM	353	CZ	TYR	N	29	-4.624	1.433	-21.543	1.00	0.00	C
ATOM	354	HE2	TYR	N	29	-4.809	2.881	-19.963	1.00	0.00	H
ATOM	355	HE1	TYR	N	44	2.548	-3.819	-10.640	1.00	0.00	H
ATOM	356	CZ	TYR	N	44	3.983	-4.980	-9.504	1.00	0.00	C
ATOM	357	HE2	TYR	N	44	5.355	-5.920	-8.129	1.00	0.00	H
ATOM	358	O	ALA	N	45	2.772	3.797	-3.219	1.00	0.00	O
ATOM	359	N	ASN	N	46	2.587	3.118	-5.376	1.00	0.00	N
ATOM	360	HB1	ALA	N	45	5.357	2.881	-2.562	1.00	0.00	H

ATOM	361	HB2	ALA	N	45	5.687	3.008	-4.288	1.00	0.00	H
ATOM	362	HB3	ALA	N	45	6.056	1.495	-3.422	1.00	0.00	H
ATOM	363	O	ARG	N	10	-4.316	6.018	-11.172	1.00	0.00	O
ATOM	364	N	SER	N	11	-2.540	7.241	-11.882	1.00	0.00	N
ATOM	365	HB1	ARG	N	10	-1.054	5.063	-8.693	1.00	0.00	H
ATOM	366	HB2	ARG	N	10	-0.895	6.620	-9.499	1.00	0.00	H
ATOM	367	CG	ARG	N	10	-2.694	6.456	-8.349	1.00	0.00	C
ATOM	368	O	ALA	N	27	-2.691	-4.047	-14.667	1.00	0.00	O
ATOM	369	CA	ALA	N	27	-4.626	-3.892	-13.226	1.00	0.00	C
ATOM	370	HG1	THR	N	28	-6.009	-7.269	-18.155	1.00	0.00	H
ATOM	371	HG21	THR	N	28	-4.661	-9.068	-16.975	1.00	0.00	H
ATOM	372	HG22	THR	N	28	-3.191	-8.493	-16.202	1.00	0.00	H
ATOM	373	HG23	THR	N	28	-4.786	-8.196	-15.425	1.00	0.00	H
ATOM	374	OH	TYR	N	29	-4.247	2.373	-22.441	1.00	0.00	O
ATOM	375	OH	TYR	N	44	4.345	-5.824	-10.507	1.00	0.00	O
ATOM	376	H	ASN	N	46	2.736	2.374	-6.067	1.00	0.00	H
ATOM	377	CA	ASN	N	46	1.877	4.292	-5.837	1.00	0.00	C
ATOM	378	H	SER	N	11	-1.529	7.409	-11.832	1.00	0.00	H
ATOM	379	CA	SER	N	11	-3.399	8.175	-12.593	1.00	0.00	C
ATOM	380	HG1	ARG	N	10	-2.188	6.966	-7.517	1.00	0.00	H
ATOM	381	HG2	ARG	N	10	-3.221	7.255	-8.892	1.00	0.00	H
ATOM	382	CD	ARG	N	10	-3.751	5.513	-7.782	1.00	0.00	C
ATOM	383	HA	ALA	N	27	-3.995	-3.081	-12.845	1.00	0.00	H
ATOM	384	N	ALA	N	27	-5.933	-3.360	-13.611	1.00	0.00	N
ATOM	385	CB	ALA	N	27	-4.789	-4.978	-12.158	1.00	0.00	C
ATOM	386	HH	TYR	N	29	-4.351	2.018	-23.368	1.00	0.00	H
ATOM	387	HH	TYR	N	44	3.841	-5.627	-11.336	1.00	0.00	H
ATOM	388	HA	ASN	N	46	1.963	5.059	-5.064	1.00	0.00	H
ATOM	389	CB	ASN	N	46	2.560	4.826	-7.105	1.00	0.00	C
ATOM	390	C	ASN	N	46	0.366	4.035	-5.977	1.00	0.00	C
ATOM	391	HA	SER	N	11	-4.129	8.593	-11.890	1.00	0.00	H
ATOM	392	CB	SER	N	11	-2.602	9.316	-13.231	1.00	0.00	C
ATOM	393	C	SER	N	11	-4.219	7.423	-13.662	1.00	0.00	C
ATOM	394	HD1	ARG	N	10	-4.481	6.108	-7.215	1.00	0.00	H
ATOM	395	HD2	ARG	N	10	-4.308	5.004	-8.584	1.00	0.00	H
ATOM	396	NE	ARG	N	10	-3.134	4.515	-6.906	1.00	0.00	N
ATOM	397	H	ALA	N	27	-6.769	-3.795	-13.204	1.00	0.00	H
ATOM	398	C	CYS	N	26	-6.086	-2.275	-14.369	1.00	0.00	C
ATOM	399	HB1	ALA	N	27	-5.501	-5.743	-12.480	1.00	0.00	H
ATOM	400	HB2	ALA	N	27	-3.820	-5.454	-11.972	1.00	0.00	H
ATOM	401	HB3	ALA	N	27	-5.152	-4.537	-11.218	1.00	0.00	H
ATOM	402	HB1	ASN	N	46	2.403	4.142	-7.942	1.00	0.00	H
ATOM	403	HB2	ASN	N	46	2.126	5.799	-7.363	1.00	0.00	H
ATOM	404	CG	ASN	N	46	4.066	4.934	-6.865	1.00	0.00	C
ATOM	405	O	ASN	N	46	-0.337	4.977	-6.432	1.00	0.00	O
ATOM	406	OXT	ASN	N	46	-0.093	2.909	-5.621	1.00	0.00	O
ATOM	407	HB1	SER	N	11	-3.327	9.978	-13.729	1.00	0.00	H
ATOM	408	HB2	SER	N	11	-1.919	8.905	-13.994	1.00	0.00	H
ATOM	409	OG	SER	N	11	-1.878	10.024	-12.237	1.00	0.00	O
ATOM	410	O	SER	N	11	-5.448	7.626	-13.806	1.00	0.00	O
ATOM	411	N	ASN	N	12	-3.552	6.548	-14.409	1.00	0.00	N
ATOM	412	HE	ARG	N	10	-2.146	4.659	-6.648	1.00	0.00	H
ATOM	413	CZ	ARG	N	10	-3.684	3.345	-6.567	1.00	0.00	C
ATOM	414	O	CYS	N	26	-5.133	-1.574	-14.768	1.00	0.00	O
ATOM	415	CA	CYS	N	26	-7.506	-1.891	-14.823	1.00	0.00	C
ATOM	416	OD1	ASN	N	46	4.849	4.176	-7.465	1.00	0.00	O
ATOM	417	ND2	ASN	N	46	4.480	5.829	-5.957	1.00	0.00	N
ATOM	418	H	SER	N	11	-1.438	10.800	-12.679	1.00	0.00	H
ATOM	419	H	ASN	N	12	-2.535	6.446	-14.290	1.00	0.00	H
ATOM	420	CA	ASN	N	12	-4.225	5.761	-15.431	1.00	0.00	C
ATOM	421	NH1	ARG	N	10	-4.978	3.099	-6.809	1.00	0.00	N
ATOM	422	NH2	ARG	N	10	-2.901	2.393	-6.032	1.00	0.00	N
ATOM	423	HA	CYS	N	26	-7.335	-1.462	-15.821	1.00	0.00	H

ATOM	424	N	CYS	N	26	-8.369	-3.043	-14.955	1.00	0.00	N
ATOM	425	CB	CYS	N	26	-8.132	-0.814	-13.941	1.00	0.00	C
ATOM	426	HD21	ASN	N	46	3.830	6.466	-5.486	1.00	0.00	H
ATOM	427	HD22	ASN	N	46	5.490	5.950	-5.792	1.00	0.00	H
ATOM	428	HA	ASN	N	12	-4.766	6.438	-16.105	1.00	0.00	H
ATOM	429	CB	ASN	N	12	-3.213	4.964	-16.247	1.00	0.00	C
ATOM	430	C	ASN	N	12	-5.277	4.835	-14.817	1.00	0.00	C
ATOM	431	HH11	ARG	N	10	-5.349	2.163	-6.604	1.00	0.00	H
ATOM	432	HH12	ARG	N	10	-5.646	3.880	-6.770	1.00	0.00	H
ATOM	433	HH21	ARG	N	10	-3.335	1.688	-5.438	1.00	0.00	H
ATOM	434	HH22	ARG	N	10	-1.934	2.640	-5.785	1.00	0.00	H
ATOM	435	H	CYS	N	26	-9.167	-3.159	-14.325	1.00	0.00	H
ATOM	436	C	LEU	N	25	-8.125	-3.933	-15.939	1.00	0.00	C
ATOM	437	HB1	CYS	N	26	-7.416	-0.003	-13.762	1.00	0.00	H
ATOM	438	HB2	CYS	N	26	-8.429	-1.218	-12.962	1.00	0.00	H
ATOM	439	SG	CYS	N	26	-9.688	-0.129	-14.642	1.00	0.00	S
ATOM	440	HB1	ASN	N	12	-2.593	4.327	-15.599	1.00	0.00	H
ATOM	441	HB2	ASN	N	12	-3.772	4.292	-16.918	1.00	0.00	H
ATOM	442	CG	ASN	N	12	-2.348	5.877	-17.131	1.00	0.00	C
ATOM	443	O	ASN	N	12	-6.363	4.657	-15.392	1.00	0.00	O
ATOM	444	N	PHE	N	13	-4.951	4.232	-13.663	1.00	0.00	N
ATOM	445	O	LEU	N	25	-7.233	-3.763	-16.779	1.00	0.00	O
ATOM	446	CA	LEU	N	25	-8.993	-5.193	-15.973	1.00	0.00	C
ATOM	447	SG	CYS	N	16	-9.064	0.644	-16.475	1.00	0.00	S
ATOM	448	OD1	ASN	N	12	-2.702	7.028	-17.391	1.00	0.00	O
ATOM	449	ND2	ASN	N	12	-1.237	5.286	-17.602	1.00	0.00	N
ATOM	450	H	PHE	N	13	-3.990	4.301	-13.305	1.00	0.00	H
ATOM	451	CA	PHE	N	13	-5.873	3.355	-12.962	1.00	0.00	C
ATOM	452	HA	LEU	N	25	-8.343	-5.940	-16.447	1.00	0.00	H
ATOM	453	N	LEU	N	25	-9.310	-5.666	-14.626	1.00	0.00	N
ATOM	454	CB	LEU	N	25	-10.277	-4.981	-16.788	1.00	0.00	C
ATOM	455	CB	CYS	N	16	-8.578	2.362	-16.060	1.00	0.00	C
ATOM	456	HD21	ASN	N	12	-1.001	4.335	-17.319	1.00	0.00	H
ATOM	457	HD22	ASN	N	12	-0.686	5.756	-18.331	1.00	0.00	H
ATOM	458	HA	PHE	N	13	-6.181	2.529	-13.621	1.00	0.00	H
ATOM	459	C	PHE	N	13	-7.163	4.097	-12.615	1.00	0.00	C
ATOM	460	CB	PHE	N	13	-5.193	2.780	-11.701	1.00	0.00	C
ATOM	461	H	LEU	N	25	-10.163	-5.321	-14.184	1.00	0.00	H
ATOM	462	C	ALA	N	24	-8.344	-6.148	-13.822	1.00	0.00	C
ATOM	463	HB1	LEU	N	25	-10.999	-4.442	-16.154	1.00	0.00	H
ATOM	464	HB2	LEU	N	25	-10.047	-4.308	-17.631	1.00	0.00	H
ATOM	465	CG	LEU	N	25	-10.902	-6.281	-17.326	1.00	0.00	C
ATOM	466	HB1	CYS	N	16	-8.146	2.372	-15.050	1.00	0.00	H
ATOM	467	HB2	CYS	N	16	-7.778	2.627	-16.768	1.00	0.00	H
ATOM	468	CA	CYS	N	16	-9.702	3.408	-16.156	1.00	0.00	C
ATOM	469	O	PHE	N	13	-8.271	3.608	-12.872	1.00	0.00	O
ATOM	470	N	ASN	N	14	-7.016	5.290	-12.001	1.00	0.00	N
ATOM	471	HB1	PHE	N	13	-4.220	2.376	-12.005	1.00	0.00	H
ATOM	472	HB2	PHE	N	13	-4.993	3.603	-11.001	1.00	0.00	H
ATOM	473	CG	PHE	N	13	-6.013	1.695	-11.050	1.00	0.00	C
ATOM	474	O	ALA	N	24	-7.181	-6.319	-14.231	1.00	0.00	O
ATOM	475	CA	ALA	N	24	-8.740	-6.528	-12.387	1.00	0.00	C
ATOM	476	HG	LEU	N	25	-10.953	-6.995	-16.488	1.00	0.00	H
ATOM	477	CD1	LEU	N	25	-10.043	-6.912	-18.427	1.00	0.00	C
ATOM	478	CD2	LEU	N	25	-12.340	-6.034	-17.802	1.00	0.00	C
ATOM	479	HA	CYS	N	16	-10.060	3.478	-17.192	1.00	0.00	H
ATOM	480	N	CYS	N	16	-9.135	4.681	-15.733	1.00	0.00	N
ATOM	481	C	CYS	N	16	-10.956	3.033	-15.341	1.00	0.00	C
ATOM	482	H	ASN	N	14	-6.077	5.657	-11.807	1.00	0.00	H
ATOM	483	CA	ASN	N	14	-8.202	6.023	-11.599	1.00	0.00	C
ATOM	484	CD2	PHE	N	13	-6.975	1.984	-10.072	1.00	0.00	C
ATOM	485	CD1	PHE	N	13	-5.842	0.364	-11.460	1.00	0.00	C
ATOM	486	HA	ALA	N	24	-7.796	-6.550	-11.828	1.00	0.00	H

ATOM	487	N	ALA	N	24	-9.628	-5.528	-11.806	1.00	0.00	N
ATOM	488	CB	ALA	N	24	-9.387	-7.913	-12.325	1.00	0.00	C
ATOM	489	HD11	LEU	N	25	-10.492	-7.841	-18.803	1.00	0.00	H
ATOM	490	HD12	LEU	N	25	-9.031	-7.165	-18.081	1.00	0.00	H
ATOM	491	HD13	LEU	N	25	-9.932	-6.231	-19.286	1.00	0.00	H
ATOM	492	HD21	LEU	N	25	-12.986	-5.698	-16.977	1.00	0.00	H
ATOM	493	HD22	LEU	N	25	-12.792	-6.949	-18.214	1.00	0.00	H
ATOM	494	HD23	LEU	N	25	-12.377	-5.258	-18.587	1.00	0.00	H
ATOM	495	H	CYS	N	16	-8.144	4.702	-15.461	1.00	0.00	H
ATOM	496	C	VAL	N	15	-9.865	5.810	-15.687	1.00	0.00	C
ATOM	497	O	CYS	N	16	-11.927	2.475	-15.875	1.00	0.00	O
ATOM	498	N	ARG	N	17	-10.930	3.365	-14.040	1.00	0.00	N
ATOM	499	HA	ASN	N	14	-8.851	5.341	-11.035	1.00	0.00	H
ATOM	500	CB	ASN	N	14	-7.874	7.238	-10.729	1.00	0.00	C
ATOM	501	C	ASN	N	14	-9.052	6.432	-12.814	1.00	0.00	C
ATOM	502	HD2	PHE	N	13	-7.134	3.015	-9.746	1.00	0.00	H
ATOM	503	CE2	PHE	N	13	-7.754	0.963	-9.524	1.00	0.00	C
ATOM	504	HD1	PHE	N	13	-5.097	0.143	-12.227	1.00	0.00	H
ATOM	505	CE1	PHE	N	13	-6.616	-0.659	-10.913	1.00	0.00	C
ATOM	506	H	ALA	N	24	-10.452	-5.869	-11.276	1.00	0.00	H
ATOM	507	C	GLU	N	23	-9.180	-4.275	-11.592	1.00	0.00	C
ATOM	508	HB1	ALA	N	24	-8.727	-8.655	-12.787	1.00	0.00	H
ATOM	509	HB2	ALA	N	24	-9.555	-8.197	-11.278	1.00	0.00	H
ATOM	510	HB3	ALA	N	24	-10.355	-7.932	-12.841	1.00	0.00	H
ATOM	511	O	VAL	N	15	-11.053	5.854	-16.039	1.00	0.00	O
ATOM	512	CA	VAL	N	15	-9.155	7.071	-15.167	1.00	0.00	C
ATOM	513	H	ARG	N	17	-10.060	3.724	-13.637	1.00	0.00	H
ATOM	514	CA	ARG	N	17	-12.041	3.089	-13.150	1.00	0.00	C
ATOM	515	HB1	ASN	N	14	-7.230	7.954	-11.258	1.00	0.00	H
ATOM	516	HB2	ASN	N	14	-8.830	7.748	-10.522	1.00	0.00	H
ATOM	517	CG	ASN	N	14	-7.293	6.896	-9.362	1.00	0.00	C
ATOM	518	O	ASN	N	14	-10.293	6.410	-12.737	1.00	0.00	O
ATOM	519	N	VAL	N	15	-8.413	6.802	-13.936	1.00	0.00	N
ATOM	520	HE2	PHE	N	13	-8.506	1.204	-8.769	1.00	0.00	H
ATOM	521	CZ	PHE	N	13	-7.581	-0.355	-9.951	1.00	0.00	C
ATOM	522	HE1	PHE	N	13	-6.492	-1.692	-11.246	1.00	0.00	H
ATOM	523	O	GLU	N	23	-8.052	-3.892	-11.937	1.00	0.00	O
ATOM	524	CA	GLU	N	23	-10.113	-3.301	-10.863	1.00	0.00	C
ATOM	525	HA	VAL	N	15	-9.978	7.759	-14.933	1.00	0.00	H
ATOM	526	CB	VAL	N	15	-8.237	7.726	-16.224	1.00	0.00	C
ATOM	527	HA	ARG	N	17	-12.470	2.108	-13.412	1.00	0.00	H
ATOM	528	C	ARG	N	17	-13.210	4.059	-13.323	1.00	0.00	C
ATOM	529	CB	ARG	N	17	-11.564	3.087	-11.688	1.00	0.00	C
ATOM	530	OD1	ASN	N	14	-7.650	5.854	-8.756	1.00	0.00	O
ATOM	531	ND2	ASN	N	14	-6.466	7.789	-8.835	1.00	0.00	N
ATOM	532	H	VAL	N	15	-7.390	6.798	-13.962	1.00	0.00	H
ATOM	533	HZ	PHE	N	13	-8.192	-1.152	-9.531	1.00	0.00	H
ATOM	534	HA	GLU	N	23	-9.744	-2.305	-11.152	1.00	0.00	H
ATOM	535	N	GLU	N	23	-11.489	-3.450	-11.301	1.00	0.00	N
ATOM	536	CB	GLU	N	23	-9.956	-3.480	-9.342	1.00	0.00	C
ATOM	537	HB	VAL	N	15	-7.303	7.139	-16.254	1.00	0.00	H
ATOM	538	CG2	VAL	N	15	-7.910	9.158	-15.801	1.00	0.00	C
ATOM	539	CG1	VAL	N	15	-8.864	7.687	-17.619	1.00	0.00	C
ATOM	540	O	ARG	N	17	-14.324	3.736	-12.851	1.00	0.00	O
ATOM	541	N	LEU	N	18	-13.037	5.221	-13.961	1.00	0.00	N
ATOM	542	HB1	ARG	N	17	-11.080	4.048	-11.480	1.00	0.00	H
ATOM	543	HB2	ARG	N	17	-12.444	3.044	-11.030	1.00	0.00	H
ATOM	544	CG	ARG	N	17	-10.601	1.944	-11.360	1.00	0.00	C
ATOM	545	HD21	ASN	N	14	-6.183	7.683	-7.858	1.00	0.00	H
ATOM	546	HD22	ASN	N	14	-6.118	8.622	-9.359	1.00	0.00	H
ATOM	547	H	GLU	N	23	-12.214	-3.697	-10.603	1.00	0.00	H
ATOM	548	C	PRO	N	22	-11.794	-3.470	-12.610	1.00	0.00	C
ATOM	549	HB1	GLU	N	23	-10.331	-4.471	-9.063	1.00	0.00	H

ATOM	550	HB2	GLU	N	23	-8.876	-3.493	-9.132	1.00	0.00	H
ATOM	551	CG	GLU	N	23	-10.637	-2.411	-8.486	1.00	0.00	C
ATOM	552	HG21	VAL	N	15	-7.435	9.191	-14.815	1.00	0.00	H
ATOM	553	HG22	VAL	N	15	-7.223	9.645	-16.503	1.00	0.00	H
ATOM	554	HG23	VAL	N	15	-8.829	9.765	-15.750	1.00	0.00	H
ATOM	555	HG11	VAL	N	15	-8.228	8.221	-18.335	1.00	0.00	H
ATOM	556	HG12	VAL	N	15	-8.989	6.656	-17.983	1.00	0.00	H
ATOM	557	HG13	VAL	N	15	-9.858	8.162	-17.634	1.00	0.00	H
ATOM	558	H	LEU	N	18	-12.139	5.444	-14.396	1.00	0.00	H
ATOM	559	CA	LEU	N	18	-14.128	6.182	-14.096	1.00	0.00	C
ATOM	560	HG1	ARG	N	17	-9.809	1.869	-12.117	1.00	0.00	H
ATOM	561	HG2	ARG	N	17	-10.087	2.206	-10.424	1.00	0.00	H
ATOM	562	CD	ARG	N	17	-11.274	0.581	-11.219	1.00	0.00	C
ATOM	563	O	PRO	N	22	-10.949	-3.338	-13.516	1.00	0.00	O
ATOM	564	CA	PRO	N	22	-13.242	-3.821	-12.914	1.00	0.00	C
ATOM	565	HG1	GLU	N	23	-10.332	-1.399	-8.786	1.00	0.00	H
ATOM	566	HG2	GLU	N	23	-11.729	-2.454	-8.622	1.00	0.00	H
ATOM	567	CD	GLU	N	23	-10.382	-2.546	-6.985	1.00	0.00	C
ATOM	568	HA	LEU	N	18	-14.506	6.409	-13.089	1.00	0.00	H
ATOM	569	CB	LEU	N	18	-13.668	7.476	-14.776	1.00	0.00	C
ATOM	570	C	LEU	N	18	-15.369	5.618	-14.803	1.00	0.00	C
ATOM	571	HD1	ARG	N	17	-11.907	0.356	-12.086	1.00	0.00	H
ATOM	572	HD2	ARG	N	17	-10.501	-0.208	-11.188	1.00	0.00	H
ATOM	573	NE	ARG	N	17	-12.067	0.542	-9.997	1.00	0.00	N
ATOM	574	HA	PRO	N	22	-13.874	-3.601	-12.043	1.00	0.00	H
ATOM	575	N	PRO	N	22	-13.767	-3.116	-14.091	1.00	0.00	N
ATOM	576	CB	PRO	N	22	-13.375	-5.302	-13.297	1.00	0.00	C
ATOM	577	OE2	GLU	N	23	-10.531	-1.496	-6.287	1.00	0.00	O
ATOM	578	OE1	GLU	N	23	-10.066	-3.678	-6.501	1.00	0.00	O
ATOM	579	HB1	LEU	N	18	-14.571	8.034	-15.058	1.00	0.00	H
ATOM	580	HB2	LEU	N	18	-13.145	7.223	-15.710	1.00	0.00	H
ATOM	581	CG	LEU	N	18	-12.774	8.406	-13.935	1.00	0.00	C
ATOM	582	O	LEU	N	18	-16.498	5.929	-14.362	1.00	0.00	O
ATOM	583	N	PRO	N	19	-15.259	4.807	-15.872	1.00	0.00	N
ATOM	584	HE	ARG	N	17	-11.615	0.879	-9.135	1.00	0.00	H
ATOM	585	CZ	ARG	N	17	-13.204	-0.131	-9.764	1.00	0.00	C
ATOM	586	C	THR	N	21	-13.628	-1.786	-14.191	1.00	0.00	C
ATOM	587	CD	PRO	N	22	-14.570	-4.007	-14.955	1.00	0.00	C
ATOM	588	HB1	PRO	N	22	-13.456	-5.939	-12.410	1.00	0.00	H
ATOM	589	HB2	PRO	N	22	-12.499	-5.604	-13.894	1.00	0.00	H
ATOM	590	CG	PRO	N	22	-14.638	-5.311	-14.154	1.00	0.00	C
ATOM	591	HG	LEU	N	18	-11.847	7.867	-13.682	1.00	0.00	H
ATOM	592	CD1	LEU	N	18	-12.407	9.606	-14.817	1.00	0.00	C
ATOM	593	CD2	LEU	N	18	-13.440	8.839	-12.624	1.00	0.00	C
ATOM	594	CA	PRO	N	19	-16.468	4.173	-16.423	1.00	0.00	C
ATOM	595	CD	PRO	N	19	-14.109	4.716	-16.813	1.00	0.00	C
ATOM	596	NH1	ARG	N	17	-13.874	-0.775	-10.716	1.00	0.00	N
ATOM	597	NH2	ARG	N	17	-13.676	-0.116	-8.506	1.00	0.00	N
ATOM	598	O	THR	N	21	-13.034	-1.116	-13.330	1.00	0.00	O
ATOM	599	CA	THR	N	21	-14.110	-1.066	-15.459	1.00	0.00	C
ATOM	600	HD1	PRO	N	22	-15.565	-3.581	-15.131	1.00	0.00	H
ATOM	601	HD2	PRO	N	22	-14.064	-4.141	-15.925	1.00	0.00	H
ATOM	602	HG1	PRO	N	22	-14.721	-6.188	-14.802	1.00	0.00	H
ATOM	603	HG2	PRO	N	22	-15.517	-5.282	-13.501	1.00	0.00	H
ATOM	604	HD11	LEU	N	18	-11.735	10.305	-14.299	1.00	0.00	H
ATOM	605	HD12	LEU	N	18	-11.901	9.279	-15.738	1.00	0.00	H
ATOM	606	HD13	LEU	N	18	-13.303	10.172	-15.119	1.00	0.00	H
ATOM	607	HD21	LEU	N	18	-12.826	9.581	-12.093	1.00	0.00	H
ATOM	608	HD22	LEU	N	18	-13.578	7.994	-11.932	1.00	0.00	H
ATOM	609	HD23	LEU	N	18	-14.426	9.295	-12.802	1.00	0.00	H
ATOM	610	HA	PRO	N	19	-17.311	4.878	-16.413	1.00	0.00	H
ATOM	611	C	PRO	N	19	-16.945	2.943	-15.646	1.00	0.00	C
ATOM	612	CB	PRO	N	19	-16.067	3.769	-17.850	1.00	0.00	C

ATOM	613	HD1	PRO	N	19	-13.179	4.475	-16.299	1.00	0.00	H
ATOM	614	HD2	PRO	N	19	-13.988	5.692	-17.310	1.00	0.00	H
ATOM	615	CG	PRO	N	19	-14.545	3.640	-17.802	1.00	0.00	C
ATOM	616	HH11	ARG	N	17	-13.497	-0.887	-11.664	1.00	0.00	H
ATOM	617	HH12	ARG	N	17	-14.640	-1.403	-10.448	1.00	0.00	H
ATOM	618	HH21	ARG	N	17	-13.100	0.340	-7.795	1.00	0.00	H
ATOM	619	HH22	ARG	N	17	-14.517	-0.645	-8.254	1.00	0.00	H
ATOM	620	HA	THR	N	21	-14.712	-1.727	-16.100	1.00	0.00	H
ATOM	621	N	THR	N	21	-14.893	0.096	-15.087	1.00	0.00	N
ATOM	622	CB	THR	N	21	-12.848	-0.597	-16.220	1.00	0.00	C
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ATOM	638	HG21	THR	N	21	-11.237	-1.400	-17.411	1.00	0.00	H
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ATOM	640	HG23	THR	N	21	-12.713	-2.394	-17.452	1.00	0.00	H
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ATOM	642	HA2	GLY	N	20	-16.322	1.586	-12.763	1.00	0.00	H

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OPTIMIZED GEOMETRIES (CIF files)

1) CRAMBIN CRYSTAL – optimized 0W

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H229	H	0.451029637069	0.125411308853	0.641979867974
H230	H	0.548970362931	0.625411308850	0.358020132026
H231	H	0.506494087572	0.242580576794	0.693236806439
H232	H	0.493505912428	0.742580576791	0.306763193561
H233	H	0.447579327725	0.173071090630	0.702835040372
H234	H	0.552420672275	0.673071090627	0.297164959628
H235	H	0.583970553920	0.132816652057	0.678990280944
H236	H	0.416029446080	0.632816652054	0.321009719056
H237	H	0.562773750728	0.146246375135	0.722373370999
H238	H	0.437226249272	0.646246375132	0.277626629001
H239	H	0.494510482811	0.022405940312	0.680072040544
H240	H	0.505489517189	0.522405940309	0.319927959456
H241	H	0.571319259494	0.008047852375	0.696308688571
H242	H	0.428680740506	0.508047852372	0.303691311428
H243	H	0.535663904166	0.000813633897	0.753327437867
H244	H	0.464336095835	0.500813633893	0.246672562133
H245	H	0.402829783518	0.019325511888	0.696442319154
H246	H	0.597170216482	0.519325511885	0.303557680846
H247	H	0.351512244426	0.041516643797	0.731427523717
H248	H	0.648487755574	0.541516643794	0.268572476283
H249	H	0.464878672375	0.012705545566	0.796597530100
H250	H	0.535121327625	0.512705545562	0.203402469900
H251	H	0.384653729660	0.994253583287	0.787342737086
H252	H	0.615346270340	0.494253583284	0.212657262914
H253	H	0.474508366571	0.327350559847	0.634018951030
H254	H	0.525491633429	0.827350559843	0.365981048970
H255	H	0.369619805396	0.387040343567	0.662675450879
H256	H	0.630380194604	0.887040343564	0.337324549121
H257	H	0.455230371642	0.434646790014	0.607698905629
H258	H	0.544769628358	0.934646790010	0.392301094371
H259	H	0.378984793966	0.455869615765	0.592861662842
H260	H	0.621015206034	0.955869615762	0.407138337157
H261	H	0.436694160365	0.512021692036	0.660685967799
H262	H	0.563305839635	0.012021692033	0.339314032201
H263	H	0.476861834945	0.571507728548	0.604084183725
H264	H	0.523138165056	0.071507728545	0.395915816275
H265	H	0.437915909607	0.639691617064	0.631226566104
H266	H	0.562084090393	0.139691617060	0.368773433896
H267	H	0.398103086433	0.600758927392	0.594778504610
H268	H	0.601896913567	0.100758927388	0.405221495390
H269	H	0.339265988767	0.592716619867	0.668517725214
H270	H	0.660734011233	0.092716619864	0.331482274786
H271	H	0.317591699946	0.494386897207	0.668350974035
H272	H	0.682408300054	0.994386897203	0.331649025965
H273	H	0.304790612688	0.550512046170	0.630887504918
H274	H	0.695209387312	0.050512046167	0.369112495082
H275	H	0.216982633862	0.357280646586	0.578314163426
H276	H	0.783017366138	0.857280646582	0.421685836573
H277	H	0.228619328549	0.267344661382	0.520138382835
H278	H	0.771380671451	0.767344661378	0.479861617165
H279	H	0.267707958702	0.357661587877	0.522127646730
H280	H	0.732292041298	0.857661587873	0.477872353269
H281	H	0.327937236504	0.201313813361	0.539192886785
H282	H	0.672062763496	0.701313813358	0.460807113214
H283	H	0.354844607179	0.270917848120	0.508668932493
H284	H	0.645155392821	0.770917848117	0.491331067507
H285	H	0.401788313999	0.271065990641	0.575201762653
H286	H	0.598211686001	0.771065990638	0.424798237346
H287	H	0.386172250095	0.359535145817	0.554191508634
H288	H	0.613827749905	0.859535145813	0.445808491366
H289	H	0.291546732708	0.205272453633	0.616083801839
H290	H	0.708453267292	0.705272453629	0.383916198161
H291	H	0.216719421965	0.121626067824	0.646592485724

H292	H	0.783280578035	0.621626067821	0.353407514276
H293	H	0.177749095842	0.104920925537	0.606535622996
H294	H	0.822250904158	0.604920925533	0.393464377004
H295	H	0.336333195248	0.103650422716	0.588028238448
H296	H	0.663666804752	0.603650422713	0.411971761552
H297	H	0.332651781228	0.942345742172	0.577220006402
H298	H	0.667348218772	0.442345742169	0.422779993598
H299	H	0.452959896653	0.035849669008	0.587448441270
H300	H	0.547040103347	0.535849669004	0.412551558730
H301	H	0.426340519817	0.105589538688	0.548289943764
H302	H	0.573659480183	0.605589538685	0.451710056236
H303	H	0.466311151328	0.897684660328	0.577453303353
H304	H	0.533688848672	0.397684660325	0.422546696646
H305	H	0.492738152669	0.948269361141	0.539858079402
H306	H	0.507261847331	0.448269361138	0.460141920598
H307	H	0.417773004075	0.900752669432	0.539688983338
H308	H	0.582226995925	0.400752669429	0.460311016662
H309	H	0.370569044263	0.884438334640	0.688616816098
H310	H	0.629430955738	0.384438334637	0.311383183902
H311	H	0.392507508647	0.723142381681	0.659664403036
H312	H	0.607492491353	0.223142381677	0.340335596964
H313	H	0.344838645785	0.749918207854	0.695892824843
H314	H	0.655161354215	0.249918207851	0.304107175157
H315	H	0.286961427393	0.715782048113	0.634969557259
H316	H	0.713038572607	0.215782048110	0.365030442741
H317	H	0.261141669870	0.799785304403	0.657864561948
H318	H	0.738858330130	0.299785304400	0.342135438052
H319	H	0.352870840809	0.792909948404	0.595766304371
H320	H	0.647129159191	0.292909948401	0.404233695629
H321	H	0.288240343389	0.858165041623	0.603603930992
H322	H	0.711759656611	0.358165041619	0.396396069008
H323	H	0.446936676864	0.847334896733	0.722961381641
H324	H	0.553063323137	0.347334896729	0.277038618359
H325	H	0.568250850817	0.883114517139	0.719626082982
H326	H	0.431749149183	0.383114517135	0.280373917018
H327	H	0.515625215454	0.732408904278	0.749607515616
H328	H	0.484374784546	0.232408904275	0.250392484384
H329	H	0.591546667402	0.768112657230	0.759485860689
H330	H	0.408453332598	0.268112657227	0.240514139311
H331	H	0.474313449549	0.868535718664	0.774502279857
H332	H	0.525686550451	0.368535718661	0.225497720143
H333	H	0.493756881282	0.790030153925	0.801645105697
H334	H	0.506243118718	0.290030153921	0.198354894303
H335	H	0.525665637060	0.690126435242	0.689804797377
H336	H	0.474334362940	0.190126435239	0.310195202623
H337	H	0.657555791096	0.655971712518	0.678808114843
H338	H	0.342444208904	0.155971712515	0.321191885157
H339	H	0.572864891833	0.552459453886	0.686934998444
H340	H	0.427135108167	0.052459453882	0.313065001556
H341	H	0.620766288282	0.538013402480	0.649388238060
H342	H	0.379233711718	0.038013402476	0.350611761940
H343	H	0.542705900821	0.575148802615	0.645141333201
H344	H	0.457294099179	0.075148802612	0.354858666799
H345	H	0.542642373571	0.728601668040	0.619244866901
H346	H	0.457357626429	0.228601668037	0.380755133099
H347	H	0.624748495275	0.699175375848	0.558367640391
H348	H	0.375251504725	0.199175375845	0.441632359609
H349	H	0.508661286699	0.800830654327	0.572945157893
H350	H	0.491338713302	0.300830654323	0.427054842107
H351	H	0.548054389731	0.802479402190	0.532521380159
H352	H	0.451945610269	0.302479402186	0.467478619841
H353	H	0.489657942082	0.657269987207	0.564618731054
H354	H	0.510342057919	0.157269987203	0.435381268946

H355	H	0.403912959467	0.752554913411	0.553495987965
H356	H	0.596087040534	0.252554913408	0.446504012035
H357	H	0.399386359923	0.676165954751	0.523150378403
H358	H	0.600613640077	0.176165954747	0.476849621597
H359	H	0.432058273096	0.766622069179	0.510544413641
H360	H	0.567941726904	0.266622069176	0.489455586358
H361	H	0.499039195318	0.603380933551	0.504406070925
H362	H	0.500960804682	0.103380933548	0.495593929075
H363	H	0.574401097157	0.628001074138	0.520820453507
H364	H	0.425598902843	0.128001074135	0.479179546493
H365	H	0.536760595589	0.689516859859	0.490517175637
H366	H	0.463239404411	0.189516859856	0.509482824363
H367	H	0.601485906625	0.850427376642	0.619394132198
H368	H	0.398514093375	0.350427376638	0.380605867802
H369	H	0.688252042503	0.948892899529	0.580508429915
H370	H	0.311747957497	0.448892899525	0.419491570085
H371	H	0.634930354506	0.963677599734	0.654454291533
H372	H	0.365069645494	0.463677599731	0.345545708467
H373	H	0.678254351218	0.036048005995	0.632008651158
H374	H	0.321745648782	0.536048005992	0.367991348842
H375	H	0.710846249446	0.804243471993	0.640292016279
H376	H	0.289153750554	0.304243471990	0.359707983721
H377	H	0.842163172011	0.839437654197	0.656275572625
H378	H	0.157836827989	0.339437654193	0.343724427375
H379	H	0.779339108041	0.747041257048	0.691858915730
H380	H	0.220660891959	0.247041257045	0.308141084270
H381	H	0.846599763012	0.700630554402	0.672664459426
H382	H	0.153400236988	0.200630554399	0.327335540574
H383	H	0.769148556224	0.685593843906	0.655081247891
H384	H	0.230851443776	0.185593843903	0.344918752108
H385	H	0.775761328229	0.712944587543	0.589471772729
H386	H	0.224238671771	0.212944587539	0.410528227271
H387	H	0.904028857344	0.694810132940	0.560334366699
H388	H	0.095971142656	0.194810132937	0.439665633300
H389	H	0.850018974823	0.648428207063	0.508024082590
H390	H	0.149981025177	0.148428207060	0.491975917410
H391	H	0.739766280451	0.640173021868	0.511158894275
H392	H	0.260233719549	0.140173021865	0.488841105725
H393	H	0.876019643694	0.552316654676	0.553319710579
H394	H	0.123980356306	0.052316654673	0.446680289421
H395	H	0.801930224909	0.528995861136	0.534469694265
H396	H	0.198069775091	0.028995861133	0.465530305735
H397	H	0.803968884943	0.572468111043	0.576197753843
H398	H	0.196031115057	0.072468111040	0.423802246157
H399	H	0.781398646902	0.833791908700	0.545879567127
H400	H	0.218601353098	0.333791908697	0.454120432873
H401	H	0.834175752263	0.904493598807	0.487554514534
H402	H	0.165824247737	0.404493598803	0.512445485466
H403	H	0.731691623562	0.933657938697	0.521765767534
H404	H	0.268308376438	0.433657938693	0.478234232466
H405	H	0.777450295445	0.984553907553	0.551959700475
H406	H	0.222549704556	0.484553907550	0.448040299525
H407	H	0.752256099154	0.982211418466	0.454142542537
H408	H	0.247743900846	0.482211418463	0.545857457463
H409	H	0.777011204366	0.119693217808	0.546002634135
H410	H	0.222988795634	0.619693217805	0.453997365865
H411	H	0.738872463698	0.100627748576	0.419708543514
H412	H	0.261127536302	0.600627748573	0.580291456486
H413	H	0.763993622193	0.238283026341	0.511631415691
H414	H	0.236006377807	0.738283026337	0.488368584309
H415	H	0.756857508358	0.233556959866	0.420620459252
H416	H	0.243142491642	0.733556959863	0.579379540747
H417	H	0.894213877786	0.914338331793	0.572121894610

H418	H	0.105786122214	0.414338331789	0.427878105389
H419	H	0.987229691591	0.033282174193	0.548418547657
H420	H	0.012770308409	0.533282174189	0.451581452343
H421	H	0.979436568506	0.080394295641	0.610406995221
H422	H	0.020563431494	0.580394295638	0.389593004779
H423	H	0.870808432487	0.984121865889	0.619242106078
H424	H	0.129191567513	0.484121865885	0.380757893922
H425	H	0.908322825874	0.135512310712	0.561552034570
H426	H	0.091677174126	0.635512310709	0.438447965430
H427	H	0.881016585546	0.149478051409	0.604861362012
H428	H	0.118983414454	0.649478051405	0.395138637988
H429	H	0.846554262849	0.076319037813	0.578455965771
H430	H	0.153445737151	0.576319037810	0.421544034229
H431	H	0.981614778581	0.850513928402	0.583247357622
H432	H	0.018385221419	0.350513928398	0.416752642378
H433	H	0.065571520647	0.777780921987	0.607296788423
H434	H	0.934428479353	0.277780921984	0.392703211577
H435	H	0.112739844708	0.862665547030	0.610624283032
H436	H	0.887260155292	0.362665547027	0.389375716968
H437	H	0.965267555627	0.902784367350	0.642020458822
H438	H	0.034732444373	0.402784367347	0.357979541178
H439	H	0.001048548262	0.882749002365	0.715227136771
H440	H	0.998951451738	0.382749002362	0.284772863229
H441	H	0.871507645049	0.921660950112	0.683085823943
H442	H	0.128492354951	0.421660950108	0.316914176057
H443	H	0.890377051626	0.923911591023	0.727730760129
H444	H	0.109622948374	0.423911591020	0.272269239870
H445	H	0.920487308933	0.815958459022	0.750369857799
H446	H	0.079512691067	0.315958459018	0.249630142201
H447	H	0.906054895620	0.656146770550	0.723516441315
H448	H	0.093945104380	0.156146770547	0.276483558685
H449	H	0.967561062594	0.606073508170	0.766348359182
H450	H	0.032438937406	0.106073508167	0.233651640818
H451	H	0.948654517554	0.752034186644	0.809890648140
H452	H	0.051345482446	0.252034186641	0.190109351860
H453	H	0.912473913364	0.662313148782	0.817709924287
H454	H	0.087526086636	0.162313148779	0.182290075713
H455	H	0.068497192214	0.681963804041	0.768533190157
H456	H	0.931502807786	0.181963804037	0.231466809843
H457	H	0.027780680420	0.766262908281	0.757472738889
H458	H	0.972219319580	0.266262908278	0.242527261111
H459	H	0.034708908648	0.690037878405	0.726935683176
H460	H	0.965291091352	0.190037878402	0.273064316824
H461	H	0.021429849088	0.604100209385	0.829566206002
H462	H	0.978570150912	0.104100209382	0.170433793998
H463	H	0.998721255384	0.677968772071	0.858811865653
H464	H	0.001278744616	0.177968772067	0.141188134347
H465	H	0.055138123675	0.697245098492	0.825471723048
H466	H	0.944861876325	0.197245098489	0.174528276951
H467	H	0.842316028925	0.577934155939	0.764834153591
H468	H	0.157683971075	0.077934155935	0.235165846409
H469	H	0.779259287034	0.673572461777	0.816266273751
H470	H	0.220740712966	0.173572461773	0.183733726248
H471	H	0.702811221599	0.534582980480	0.794310905322
H472	H	0.297188778401	0.034582980477	0.205689094678
H473	H	0.679603511663	0.693539197204	0.763275517739
H474	H	0.320396488337	0.193539197201	0.236724482261
H475	H	0.710637719191	0.614138401403	0.740721820407
H476	H	0.2893662280809	0.114138401399	0.259278179593
H477	H	0.686861073602	0.601618772681	0.852237133683
H478	H	0.313138926398	0.101618772678	0.147762866317
H479	H	0.617695720343	0.596613272180	0.826718608443
H480	H	0.382304279657	0.096613272177	0.173281391556

H481	H	0.659876438179	0.685050027457	0.829155563684
H482	H	0.340123561822	0.185050027454	0.170844436316
H483	H	0.611370312703	0.536807984241	0.754100572951
H484	H	0.388629687297	0.036807984238	0.245899427049
H485	H	0.593578065003	0.622902394037	0.731096675343
H486	H	0.406421934997	0.122902394034	0.268903324657
H487	H	0.577919912748	0.617241534111	0.775882265369
H488	H	0.422080087252	0.117241534108	0.224117734631
H489	H	0.795954838722	0.623384683294	0.867215624516
H490	H	0.204045161278	0.123384683291	0.132784375484
H491	H	0.829354203947	0.457599190378	0.869514029184
H492	H	0.170645796053	0.957599190374	0.130485970816
H493	H	0.877879836653	0.487690578384	0.929920714060
H494	H	0.122120163347	0.987690578380	0.070079285940
H495	H	0.892884512977	0.648454799693	0.898211307995
H496	H	0.107115487024	0.148454799689	0.101788692005
H497	H	0.836039263046	0.625569470180	0.930277723286
H498	H	0.163960736954	0.125569470177	0.069722276714
H499	H	0.985161839693	0.515070878689	0.900469648299
H500	H	0.014838160307	0.015070878686	0.099530351701
H501	H	0.943456595480	0.533239826927	0.861404080088
H502	H	0.056543404520	0.033239826924	0.138595919912
H503	H	0.941199587877	0.440042337969	0.880470822889
H504	H	0.058800412123	0.940042337965	0.119529177110
H505	H	0.920890181109	0.592149867910	0.972389643392
H506	H	0.079109818891	0.092149867907	0.027610356608
H507	H	0.934774169766	0.686172383865	0.954073058505
H508	H	0.065225830234	0.186172383861	0.045926941495
H509	H	0.981171898945	0.607978154110	0.940693083198
H510	H	0.018828101055	0.107978154107	0.059306916802
H511	H	0.651610916249	0.441220930428	0.926304988833
H512	H	0.348389083751	0.941220930425	0.073695011167
H513	H	0.669456049419	0.322597995403	0.974848958621
H514	H	0.330543950581	0.822597995399	0.025151041379
H515	H	0.660787127667	0.308189506220	0.929844860891
H516	H	0.339212872333	0.808189506217	0.070155139109
H517	H	0.786430744675	0.317333844336	0.969869454274
H518	H	0.213569255325	0.817333844333	0.030130545725
H519	H	0.764092569105	0.248576930687	0.938222330697
H520	H	0.235907430896	0.748576930684	0.061777669303
H521	H	0.839195085164	0.372108668247	0.921505318643
H522	H	0.160804914836	0.872108668244	0.078494681357
H523	H	0.780691344984	0.340165818829	0.891517022019
H524	H	0.219308655017	0.840165818825	0.108482977981
H525	H	0.781968585758	0.482624703979	0.980966575655
H526	H	0.218031414242	0.982624703975	0.019033424345
H527	H	0.692633547332	0.562672593580	0.027487216636
H528	H	0.307366452668	0.062672593577	0.972512783364
H529	H	0.773816124476	0.538480347418	0.035864131961
H530	H	0.226183875524	0.038480347414	0.964135868039
H531	H	0.818349469660	0.651601991983	0.047146829793
H532	H	0.181650530340	0.151601991980	0.952853170207
H533	H	0.817857046706	0.774088520642	0.994227199273
H534	H	0.182142953295	0.274088520639	0.005772800727
H535	H	0.719438982848	0.806419967760	0.025799559377
H536	H	0.280561017152	0.306419967757	0.974200440623
H537	H	0.779896238236	0.872335542247	0.038573643762
H538	H	0.220103761764	0.372335542243	0.961426356238
H539	H	0.758101558165	0.795023553381	0.066585034178
H540	H	0.241898441835	0.295023553378	0.933414965822
H541	H	0.918608174493	0.695340465845	0.003660649748
H542	H	0.081391825507	0.195340465842	0.996339350252
H543	H	0.998624620510	0.789111196243	0.050622576968

H544	H	0.001375379490	0.289111196239	0.949377423032
H545	H	0.029266969721	0.627764404421	0.022969580621
H546	H	0.970733030279	0.127764404417	0.977030419379
H547	H	0.948007271617	0.641722822026	0.069981775297
H548	H	0.051992728383	0.141722822022	0.930018224703
H549	H	0.126460181974	0.704800024399	0.035688346779
H550	H	0.873539818026	0.204800024396	0.964311653221
H551	H	0.115811339233	0.630152970269	0.067025315517
H552	H	0.884188660767	0.130152970266	0.932974684483
H553	H	0.095494449433	0.726021901897	0.078437296804
H554	H	0.904505550567	0.226021901893	0.921562703196
H555	H	0.015198647156	0.884404288320	0.009127869354
H556	H	0.984801352844	0.384404288316	0.990872130646
H557	H	0.059112604169	0.834889008864	0.939931274309
H558	H	0.940887395831	0.334889008861	0.060068725691
H559	H	0.039097899920	0.999192086883	0.967185228331
H560	H	0.960902100080	0.499192086879	0.032814771669
H561	H	0.066582299264	0.973476642290	0.924963725620
H562	H	0.933417700736	0.473476642287	0.075036274380
H563	H	0.251876872340	0.863837962216	0.988329200197
H564	H	0.748123127660	0.363837962213	0.011670799803
H565	H	0.311161233459	0.752425951167	0.942396347247
H566	H	0.688838766541	0.252425951164	0.057603652753
H567	H	0.277712323874	0.731720313743	0.983939232178
H568	H	0.722287676126	0.231720313739	0.016060767822
H569	H	0.229571124333	0.680485522643	0.918189410242
H570	H	0.770428875667	0.180485522639	0.081810589758
H571	H	0.186820548124	0.676960818018	0.958804522053
H572	H	0.813179451876	0.176960818015	0.041195477947
H573	H	0.180394866151	0.800625730408	0.902587913692
H574	H	0.819605133849	0.300625730404	0.097412086308
H575	H	0.117802401523	0.759536167554	0.928591479150
H576	H	0.882197598477	0.259536167550	0.071408520850
H577	H	0.362387587630	0.894368529399	0.966528559506
H578	H	0.637612412370	0.394368529396	0.033471440494
H579	H	0.356936871541	0.022288383500	0.925105291661
H580	H	0.643063128459	0.522288383496	0.074894708339
H581	H	0.427085175119	0.969348915013	0.933593803213
H582	H	0.572914824881	0.469348915010	0.066406196787
H583	H	0.355677190841	0.836208238825	0.888831004957
H584	H	0.644322809159	0.336208238821	0.111168995043
H585	H	0.410209435992	0.885252276044	0.822330181444
H586	H	0.589790564008	0.385252276041	0.177669818556
H587	H	0.367208765183	0.755335237634	0.803834432848
H588	H	0.632791234817	0.255335237631	0.196165567152
H589	H	0.424334226609	0.750877523851	0.837126680490
H590	H	0.575665773392	0.250877523847	0.162873319510
H591	H	0.260573125613	0.828681857556	0.856058252036
H592	H	0.739426874387	0.328681857553	0.143941747963
H593	H	0.200091373597	0.929097378208	0.802241384408
H594	H	0.799908626403	0.429097378204	0.197758615592
H595	H	0.140307538579	0.796307255734	0.843261368543
H596	H	0.859692461421	0.296307255730	0.156738631457
H597	H	0.100594288821	0.854638568135	0.812776063693
H598	H	0.899405711179	0.354638568131	0.187223936307
H599	H	0.227804602382	0.705384807549	0.823061364925
H600	H	0.772195397618	0.205384807546	0.176938635075
H601	H	0.125309665070	0.844206291433	0.749774446313
H602	H	0.874690334931	0.344206291430	0.250225553687
H603	H	0.276896049650	0.632921369330	0.775178391819
H604	H	0.723103950351	0.132921369327	0.224821608181
H605	H	0.168290339039	0.767346798367	0.701773154810
H606	H	0.831709660961	0.267346798363	0.298226845190

H607	H	0.232199085351	0.663494224310	0.687705831582
H608	H	0.767800914649	0.163494224306	0.312294168418
H609	H	0.241054912938	0.024819106732	0.835992202714
H610	H	0.758945087062	0.524819106729	0.164007797286
H611	H	0.210967567796	0.038120132417	0.906941098178
H612	H	0.789032432204	0.538120132413	0.093058901822
H613	H	0.307744982838	0.094108069767	0.876837891558
H614	H	0.692255017162	0.594108069763	0.123162108442
H615	H	0.266988018608	0.163921939374	0.902822628003
H616	H	0.733011981392	0.663921939371	0.097177371997
H617	H	0.258276675413	0.164966266547	0.856850819416
H618	H	0.741723324587	0.664966266544	0.143149180584
H619	H	0.121880110452	0.110654317165	0.836978492654
H620	H	0.878119889548	0.610654317162	0.163021507346
H621	H	0.068405133398	0.228270687678	0.885803176482
H622	H	0.931594866602	0.728270687674	0.114196823518
H623	H	0.091467816309	0.241934361313	0.806899972513
H624	H	0.908532183691	0.741934361309	0.193100027487
H625	H	0.064327069911	0.315502560316	0.835464267078
H626	H	0.935672930089	0.815502560313	0.164535732922
H627	H	0.146529204762	0.321156566287	0.891376326779
H628	H	0.853470795238	0.821156566283	0.108623673221
H629	H	0.223774570705	0.329941195644	0.875244317314
H630	H	0.776225429295	0.829941195641	0.124755682685
C1	C	0.669048416985	0.773316205126	0.903978490027
C2	C	0.330951583015	0.273316205122	0.096021509973
C3	C	0.720386258740	0.778612711599	0.875940724412
C4	C	0.279613741260	0.278612711596	0.124059275588
C5	C	0.691306001128	0.817407063196	0.937210171067
C6	C	0.308693998872	0.317407063193	0.062789828933
C7	C	0.683702918126	0.904059695902	0.933369417756
C8	C	0.316297081874	0.404059695899	0.066630582244
C9	C	0.764564485202	0.858324297621	0.830111288910
C10	C	0.235435514798	0.358324297617	0.169888711090
C11	C	0.819272347691	0.900964061514	0.847771878587
C12	C	0.180727652309	0.400964061510	0.152228121413
C13	C	0.737021509070	0.906261210017	0.799698665382
C14	C	0.262978490930	0.406261210013	0.200301334617
C15	C	0.702554906941	0.852394468981	0.774672751705
C16	C	0.297445093059	0.352394468978	0.225327248295
C17	C	0.936516285810	0.919823117015	0.840962497825
C18	C	0.063483714190	0.419823117012	0.159037502175
C19	C	0.969940676551	0.933448264646	0.805911498204
C20	C	0.030059323449	0.433448264642	0.194088501796
C21	C	0.980312197862	0.870911083841	0.863997692831
C22	C	0.019687802138	0.370911083838	0.136002307169
C23	C	0.031881060352	0.020733125233	0.770374776987
C24	C	0.968118939648	0.520733125230	0.229625223013
C25	C	0.104077147627	0.030915272805	0.770308783300
C26	C	0.895922852373	0.530915272802	0.229691216699
C27	C	0.999575088459	0.096568086191	0.759792006318
C28	C	0.000424911541	0.596568086187	0.240207993681
C29	C	0.205020081229	0.011636737783	0.738515086904
C30	C	0.794979918771	0.511636737780	0.261484913096
C31	C	0.233372976833	0.092282995653	0.739837880086
C32	C	0.766627023167	0.592282995650	0.260162119914
C33	C	0.218960022245	0.971435110007	0.703486395359
C34	C	0.781039977755	0.471435110003	0.296513604641
C35	C	0.158987800900	0.986724335042	0.682305339972
C36	C	0.841012199100	0.486724335039	0.317694660028
C37	C	0.105751436117	0.979555517173	0.708886103154
C38	C	0.894248563883	0.479555517169	0.291113896846
C39	C	0.218167746827	0.230649349752	0.736471752801

C40	C	0.781832253173	0.730649349748	0.263528247199
C41	C	0.161395191361	0.283484119851	0.742307245710
C42	C	0.838604808639	0.783484119847	0.257692754289
C43	C	0.253702381493	0.255805597103	0.703520856935
C44	C	0.746297618507	0.755805597100	0.296479143065
C45	C	0.127979849768	0.414643841451	0.756614097167
C46	C	0.872020150232	0.914643841448	0.243385902833
C47	C	0.091610055069	0.433979236646	0.723265380776
C48	C	0.908389944931	0.933979236642	0.276734619223
C49	C	0.157492556087	0.485698278014	0.774735854485
C50	C	0.842507443914	0.985698278011	0.225264145515
C51	C	0.175667180407	0.464279808977	0.812291145632
C52	C	0.824332819593	0.964279808973	0.187708854368
C53	C	0.111892995502	0.553585910199	0.773003932555
C54	C	0.888107004498	0.053585910195	0.226996067445
C55	C	0.205461897146	0.527889395071	0.834239877685
C56	C	0.794538102854	0.027889395068	0.165760122315
C57	C	0.093658725509	0.455288220204	0.660579990526
C58	C	0.906341274491	0.955288220200	0.339420009474
C59	C	0.057565948429	0.383247485487	0.648883427738
C60	C	0.942434051571	0.883247485483	0.351116572262
C61	C	0.139108872202	0.488103524748	0.632461102965
C62	C	0.860891127798	0.988103524744	0.367538897035
C63	C	0.110013361458	0.483410449502	0.596055819568
C64	C	0.889986638542	0.983410449499	0.403944180432
C65	C	0.156967663515	0.571097030707	0.642259863931
C66	C	0.843032336485	0.071097030704	0.357740136068
C67	C	0.043227847487	0.245486587315	0.648842711955
C68	C	0.956772152513	0.745486587312	0.351157288045
C69	C	0.979570630562	0.252250857443	0.668191303736
C70	C	0.020429369438	0.752250857439	0.331808696264
C71	C	0.077303930920	0.170856528717	0.657992249316
C72	C	0.922696069080	0.670856528713	0.342007750684
C73	C	0.922550606168	0.291783066580	0.720676896107
C74	C	0.077449393832	0.791783066577	0.279323103893
C75	C	0.881159962104	0.354080395942	0.703320245441
C76	C	0.118840037896	0.854080395938	0.296679754559
C77	C	0.936039479509	0.308985643988	0.759107227539
C78	C	0.063960520491	0.808985643985	0.240892772461
C79	C	0.875730110829	0.322215413123	0.780972591849
C80	C	0.124269889171	0.822215413119	0.219027408151
C81	C	0.831439556722	0.252937114990	0.786250109234
C82	C	0.168560443278	0.752937114987	0.213749890766
C83	C	0.825600795076	0.138466745775	0.824689483362
C84	C	0.174399204924	0.638466745771	0.175310516637
C85	C	0.871042938059	0.476413344105	0.672640529977
C86	C	0.128957061941	0.976413344102	0.327359470023
C87	C	0.835284722374	0.439790544510	0.641917461819
C88	C	0.164715277626	0.939790544506	0.358082538181
C89	C	0.912809979855	0.541696569324	0.658205112704
C90	C	0.087190020145	0.041696569320	0.341794887296
C91	C	0.848341704289	0.363164253864	0.588887841256
C92	C	0.151658295711	0.863164253860	0.411112158744
C93	C	0.797848478754	0.300444560274	0.596305418399
C94	C	0.202151521247	0.800444560271	0.403694581601
C95	C	0.905006128587	0.333550660599	0.567273119476
C96	C	0.094993871413	0.833550660596	0.432726880523
C97	C	0.950694122431	0.399281655579	0.556804748062
C98	C	0.049305877569	0.899281655576	0.443195251938
C99	C	0.767196690947	0.199548322013	0.638600828348
C100	C	0.232803309054	0.699548322009	0.361399171652
C101	C	0.704634412469	0.237839425728	0.649618884513
C102	C	0.295365587531	0.737839425724	0.350381115487

C103	C	0.800802253886	0.161543421980	0.669817396645
C104	C	0.199197746114	0.661543421977	0.330182603355
C105	C	0.758151688060	0.115764757067	0.693451098725
C106	C	0.241848311941	0.615764757063	0.306548901275
C107	C	0.722369678286	0.152442136657	0.719535858251
C108	C	0.277630321715	0.652442136653	0.280464141749
C109	C	0.753595259308	0.035851368443	0.689760087326
C110	C	0.246404740692	0.535851368440	0.310239912674
C111	C	0.681909814891	0.109559511727	0.740820031417
C112	C	0.318090185109	0.609559511724	0.259179968583
C113	C	0.713115101699	0.992952757411	0.711089047374
C114	C	0.286884898301	0.492952757407	0.288910952626
C115	C	0.676897539902	0.029910525247	0.736583261664
C116	C	0.323102460098	0.529910525244	0.263416738336
C117	C	0.654611605988	0.345867549420	0.679834461874
C118	C	0.345388394012	0.845867549416	0.320165538126
C119	C	0.611659110938	0.374249481082	0.650362528401
C120	C	0.388340889062	0.874249481078	0.349637471599
C121	C	0.675072724892	0.414139430949	0.702145747311
C122	C	0.324927275108	0.914139430946	0.297854252689
C123	C	0.706155100720	0.391244802803	0.736403422362
C124	C	0.293844899281	0.891244802799	0.263596577638
C125	C	0.605615193983	0.419459449708	0.590389442052
C126	C	0.394384806017	0.919459449704	0.409610557948
C127	C	0.569989417612	0.348680236140	0.576877067838
C128	C	0.430010582388	0.848680236136	0.423122932161
C129	C	0.649117931079	0.456619187978	0.562560083168
C130	C	0.350882068921	0.956619187975	0.437439916832
C131	C	0.618869021309	0.453519957637	0.526583921443
C132	C	0.381130978691	0.953519957634	0.473416078557
C133	C	0.663985322510	0.539113766767	0.573573124437
C134	C	0.336014677490	0.039113766763	0.426426875563
C135	C	0.572819830231	0.210259491150	0.566864670315
C136	C	0.427180169769	0.710259491146	0.433135329685
C137	C	0.515684733230	0.192432954295	0.590914997880
C138	C	0.484315266770	0.692432954292	0.409085002120
C139	C	0.624377472452	0.147890547199	0.565981293483
C140	C	0.375622527548	0.647890547196	0.434018706516
C141	C	0.470103509773	0.182437148266	0.648722470540
C142	C	0.529896490227	0.682437148263	0.351277529460
C143	C	0.413783282914	0.237927883094	0.643976924917
C144	C	0.586216717086	0.737927883090	0.356023075083
C145	C	0.490630211764	0.183596831767	0.687073760271
C146	C	0.509369788236	0.683596831764	0.312926239728
C147	C	0.543888174175	0.127301102268	0.697273480280
C148	C	0.456111825825	0.627301102264	0.302726519720
C149	C	0.527456012329	0.041065002889	0.700388106962
C150	C	0.472543987671	0.541065002886	0.299611893038
C151	C	0.442516412685	0.016954672345	0.745110995336
C152	C	0.557483587315	0.516954672341	0.254889004664
C153	C	0.380978748689	0.373167157621	0.635465617822
C154	C	0.619021251311	0.873167157617	0.364534382178
C155	C	0.316213949430	0.351867454360	0.620263729994
C156	C	0.683786050570	0.851867454357	0.379736270006
C157	C	0.406514285750	0.446082502588	0.616712997811
C158	C	0.593485714250	0.946082502585	0.383287002189
C159	C	0.404665269644	0.520490502952	0.638331990057
C160	C	0.595334730356	0.020490502949	0.361668009943
C161	C	0.430898445837	0.586613954134	0.616061267223
C162	C	0.569101554163	0.086613954131	0.383938732777
C163	C	0.338221226928	0.540551816366	0.652348922995
C164	C	0.661778773072	0.040551816363	0.347651077005
C165	C	0.248989884212	0.308826310073	0.572757576497

C166	C	0.751010115788	0.808826310069	0.427242423503
C167	C	0.214859468763	0.236197988022	0.586098852249
C168	C	0.785140531237	0.736197988019	0.413901147751
C169	C	0.264639701068	0.300319271272	0.533989673920
C170	C	0.735360298933	0.800319271268	0.466010326080
C171	C	0.330672510494	0.263573900742	0.533726039802
C172	C	0.669327489507	0.763573900739	0.466273960198
C173	C	0.364494404088	0.305370705825	0.563229428891
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C177	C	0.264319562004	0.043679307684	0.612926934845
C178	C	0.735680437996	0.543679307681	0.387073065155
C179	C	0.360510509220	0.985084666728	0.591630483995
C180	C	0.639489490780	0.485084666724	0.408369516005
C181	C	0.380905541646	0.952657199607	0.626899670828
C182	C	0.619094458354	0.452657199603	0.373100329172
C183	C	0.419946610758	0.006416345380	0.569977375319
C184	C	0.580053389242	0.506416345377	0.430022624681
C185	C	0.450887066438	0.933950775067	0.555750747223
C186	C	0.549112933562	0.433950775064	0.444249252777
C187	C	0.389106083150	0.847209410044	0.667707774206
C188	C	0.610893916850	0.347209410041	0.332292225794
C189	C	0.461593987607	0.841678461553	0.671003227916
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C192	C	0.641467697707	0.266367905041	0.330585201499
C193	C	0.302005830969	0.772508606963	0.644717536184
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C195	C	0.326531660225	0.825334165325	0.615754472084
C196	C	0.673468339775	0.325334165321	0.384245527916
C197	C	0.545228007399	0.826590698860	0.717182416486
C198	C	0.454771992601	0.326590698856	0.282817583514
C199	C	0.588221886223	0.781119562346	0.692050624318
C200	C	0.411778113777	0.281119562342	0.307949375682
C201	C	0.543078751191	0.785967477475	0.752841635087
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C203	C	0.513730426001	0.831853716214	0.783315173511
C204	C	0.486269573999	0.331853716210	0.216684826489
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C206	C	0.437824226926	0.380799110602	0.196550187989
C207	C	0.612825400625	0.657304491894	0.664215562470
C208	C	0.387174599375	0.157304491891	0.335784437530
C209	C	0.631799678964	0.686304756870	0.627976599850
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C211	C	0.585293534335	0.576078140448	0.661358180888
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C213	C	0.598436366261	0.743160006479	0.572998390268
C214	C	0.401563633739	0.243160006475	0.427001609732
C215	C	0.644274169245	0.811614100474	0.574481954171
C216	C	0.355725830755	0.311614100471	0.425518045829
C217	C	0.536373124325	0.765122618052	0.554794682741
C218	C	0.463626875675	0.265122618049	0.445205317259
C219	C	0.495706801039	0.696763987351	0.542476489417
C220	C	0.504293198961	0.196763987348	0.457523510582
C221	C	0.429266827645	0.724430264122	0.531890708147
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C224	C	0.471724036874	0.152105427229	0.486842174383
C225	C	0.679345816281	0.924414563276	0.606361780808
C226	C	0.320654183720	0.424414563272	0.393638219192
C227	C	0.746096371170	0.902211568009	0.618958273157
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C237	C	0.855802252468	0.714546725993	0.554076987376
C238	C	0.144197747532	0.214546725990	0.445923012624
C239	C	0.867555108416	0.787058145234	0.531802733857
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C267	C	0.939858872201	0.049104050412	0.598455966964
C268	C	0.060141127799	0.549104050409	0.401544033036
C269	C	0.890986347772	0.106010362260	0.585042840348
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C271	C	0.064399284641	0.839459704469	0.613716283962
C272	C	0.935600715359	0.339459704465	0.386283716038
C273	C	0.047398429663	0.844018366291	0.652487503578
C274	C	0.952601570337	0.344018366287	0.347512496422
C275	C	0.964818455285	0.874011409011	0.695241960071
C276	C	0.035181544715	0.374011409008	0.304758039928
C277	C	0.942884356491	0.788776446580	0.700475796128
C278	C	0.057115643509	0.288776446576	0.299524203872
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C281	C	0.908556072169	0.696171592884	0.745406750364
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C287	C	0.956231356917	0.689534590233	0.807710233166
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C289	C	0.027381783385	0.703419898525	0.754517043893
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C294	C	0.222904406553	0.118210060083	0.197340698339
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C298	C	0.294210920832	0.097660765127	0.203624507795
C299	C	0.679023448102	0.630096332739	0.762476124796
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C304	C	0.388058476694	0.100204665495	0.244510657163
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C306	C	0.178092690255	0.010801876978	0.115589179182
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C309	C	0.881758370968	0.525636425501	0.906975616780
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C311	C	0.883439972291	0.609372810924	0.920222732119
C312	C	0.116560027709	0.109372810921	0.079777267881
C313	C	0.941247058361	0.502215249931	0.886280688475
C314	C	0.058752941639	0.002215249928	0.113719311525
C315	C	0.932548464659	0.624211076236	0.948411175317
C316	C	0.067451535341	0.124211076233	0.051588824683
C317	C	0.692124467337	0.423889618371	0.942384239669
C318	C	0.307875532663	0.923889618367	0.057615760331
C319	C	0.685256169595	0.476176644384	0.974563661949
C320	C	0.314743830405	0.976176644380	0.025436338051
C321	C	0.690651725094	0.336235911186	0.949472764649
C322	C	0.309348274906	0.836235911183	0.050527235351
C323	C	0.760029194653	0.309443291141	0.945639250588
C324	C	0.239970805347	0.809443291137	0.054360749412
C325	C	0.788058315858	0.362828706684	0.917936730816
C326	C	0.211941684142	0.862828706681	0.082063269184
C327	C	0.740737793829	0.559812100892	0.016172607306
C328	C	0.259262206171	0.059812100888	0.983827392694
C329	C	0.758072566442	0.641940281776	0.005035616329
C330	C	0.241927433558	0.141940281773	0.994964383671
C331	C	0.815242260196	0.760556551911	0.022170672230
C332	C	0.1847557739804	0.260556551908	0.977829327770
C333	C	0.882335793825	0.775862723719	0.037144751231
C334	C	0.117664206175	0.275862723716	0.962855248769
C335	C	0.764987733867	0.811700571406	0.039335159279
C336	C	0.235012266133	0.311700571403	0.960664840721
C337	C	0.997026564024	0.744098110909	0.030595644990
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C339	C	0.030982326716	0.770386527188	0.997122371348
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C343	C	0.095779025926	0.684126751665	0.056935764624
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C346	C	0.934951822779	0.377728421337	0.039592574852
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C348	C	0.864356261314	0.386294987897	0.030105366271
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C351	C	0.245986821349	0.841560215246	0.962063449837
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C358	C	0.787786343441	0.214389929111	0.059693343050
C359	C	0.167323871935	0.778312041171	0.928316910188
C360	C	0.832676128065	0.278312041168	0.071683089812
C361	C	0.379009724018	0.964994646293	0.922805775503
C362	C	0.620990275982	0.464994646290	0.077194224497
C363	C	0.384971078241	0.949516387281	0.883707148754
C364	C	0.615028921759	0.449516387278	0.116292851245
C365	C	0.371310618042	0.857166027014	0.836457886262
C366	C	0.628689381958	0.357166027011	0.163542113738
C367	C	0.309935281844	0.892676880125	0.821387517925
C368	C	0.690064718156	0.392676880122	0.178612482074
C369	C	0.375403496207	0.769367942882	0.831287868153
C370	C	0.624596503793	0.269367942879	0.168712131847
C371	C	0.330502496709	0.717531625489	0.853613575112
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C373	C	0.193199645854	0.896915329604	0.826425342861
C374	C	0.806800354146	0.396915329601	0.173574657139
C375	C	0.170185240053	0.954986707519	0.853851037994
C376	C	0.829814759947	0.454986707516	0.146148962006
C377	C	0.147230870853	0.830187207568	0.819394580286
C378	C	0.852769129147	0.330187207565	0.180605419714
C379	C	0.172736163075	0.780817871028	0.790160640985
C380	C	0.827263836925	0.280817871025	0.209839359015
C381	C	0.215517659371	0.720683318204	0.796567187532
C382	C	0.784482340629	0.220683318201	0.203432812468
C383	C	0.158390101016	0.797750137795	0.755623190258
C384	C	0.841609898985	0.297750137791	0.244376809742
C385	C	0.243133001270	0.678836370533	0.769534035249
C386	C	0.756866998730	0.178836370529	0.230465964751
C387	C	0.183773326415	0.755018235973	0.728203035633
C388	C	0.816226673586	0.255018235970	0.271796964367
C389	C	0.226335503645	0.695308937795	0.735340432748
C390	C	0.773664496355	0.195308937791	0.264659567252
C391	C	0.206543698096	0.072310791897	0.883160163523
C392	C	0.793456301904	0.572310791893	0.116839836477
C393	C	0.146054123026	0.119470213001	0.887708593298
C394	C	0.853945876974	0.619470212997	0.112291406702
C395	C	0.263434883135	0.127323042392	0.879653735219
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2) CRAMBIN CRYSTAL – optimized 84W

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H265	H	0.481727604534	0.585702857553	0.614307789476
H266	H	0.518272395466	0.085702857553	0.385692210523
H267	H	0.408026423770	0.578174968158	0.595668208594
H268	H	0.591973576230	0.078174968158	0.404331791406
H269	H	0.437020953394	0.546223664017	0.672063838098
H270	H	0.562979046606	0.046223664017	0.327936161902
H271	H	0.400445404887	0.458799970200	0.676878681411
H272	H	0.599554595113	0.958799970200	0.323121318589
H273	H	0.361624624322	0.533425490484	0.656104438484
H274	H	0.638375375678	0.033425490484	0.343895561516
H275	H	0.217236247060	0.279643412531	0.574536815572
H276	H	0.782763752940	0.779643412531	0.425463184428

H277	H	0.241171373079	0.195953673788	0.519035598619
H278	H	0.758828626921	0.695953673788	0.480964401381
H279	H	0.256067669008	0.292798454802	0.519275152980
H280	H	0.743932330992	0.792798454802	0.480724847020
H281	H	0.349269577070	0.168567081586	0.533216993548
H282	H	0.650730422930	0.668567081586	0.466783006452
H283	H	0.355121364819	0.241314797434	0.503059238479
H284	H	0.644878635181	0.741314797434	0.496940761521
H285	H	0.407188314630	0.256528314927	0.565987147810
H286	H	0.592811685370	0.756528314927	0.434012852190
H287	H	0.372758997129	0.334929843090	0.545790204928
H288	H	0.627241002871	0.834929843090	0.454209795072
H289	H	0.306168127555	0.191135890639	0.623884845136
H290	H	0.693831872445	0.691135890639	0.376115154864
H291	H	0.275421211897	0.101527533411	0.660340572765
H292	H	0.724578788103	0.601527533411	0.339659427234
H293	H	0.210560921405	0.079687332157	0.634562094216
H294	H	0.789439078595	0.579687332157	0.365437905784
H295	H	0.345323221114	0.072258395885	0.590022083127
H296	H	0.654676778886	0.572258395885	0.409977916873
H297	H	0.338302795009	0.920671973104	0.573398662093
H298	H	0.661697204991	0.420671973104	0.426601337907
H299	H	0.455593950893	0.009954032995	0.585683643783
H300	H	0.544406049107	0.509954032995	0.414316356217
H301	H	0.429063079573	0.083609692107	0.549456612927
H302	H	0.570936920427	0.583609692107	0.450543387073
H303	H	0.476097055265	0.880700388383	0.569889348589
H304	H	0.523902944735	0.380700388383	0.430110651411
H305	H	0.493497125596	0.938673334635	0.534855319089
H306	H	0.506502874404	0.438673334635	0.465144680911
H307	H	0.424253315580	0.885463459291	0.535126303763
H308	H	0.575746684420	0.385463459291	0.464873696237
H309	H	0.383507360748	0.813332206160	0.673709834558
H310	H	0.616492639252	0.313332206160	0.326290165441
H311	H	0.443860347304	0.703537428152	0.625050750963
H312	H	0.556139652696	0.203537428152	0.374949249037
H313	H	0.402873637091	0.682661986915	0.663101112137
H314	H	0.597126362909	0.182661986915	0.336898887863
H315	H	0.340362232041	0.671150097943	0.604282370004
H316	H	0.659637767959	0.171150097943	0.395717629996
H317	H	0.305925015368	0.718673233602	0.638553484022
H318	H	0.694074984632	0.218673233602	0.361446515978
H319	H	0.363473756055	0.788457696679	0.576522302111
H320	H	0.636526243945	0.288457696679	0.423477697889
H321	H	0.298497787703	0.817976942267	0.600529925142
H322	H	0.701502212297	0.317976942267	0.399470074858
H323	H	0.460583199654	0.813366021460	0.708385040291
H324	H	0.539416800347	0.313366021460	0.291614959709
H325	H	0.575235796062	0.888269789338	0.690638345669
H326	H	0.424764203938	0.388269789338	0.309361654331
H327	H	0.546396755501	0.779053624712	0.747921307848
H328	H	0.453603244499	0.279053624712	0.252078692152
H329	H	0.614500666548	0.831036748089	0.743103526103
H330	H	0.385499333453	0.331036748089	0.256896473897
H331	H	0.544915686295	0.950907853642	0.743882476610
H332	H	0.455084313705	0.450907853642	0.256117523390
H333	H	0.484603501887	0.890780363028	0.756916260083
H334	H	0.515396498113	0.390780363028	0.243083739917
H335	H	0.537328645985	0.690214338687	0.693302926568
H336	H	0.462671354015	0.190214338687	0.306697073432
H337	H	0.657243693068	0.644284085512	0.678679072637
H338	H	0.342756306932	0.144284085512	0.321320927363
H339	H	0.570841095845	0.555390824958	0.691127507659

H340	H	0.429158904155	0.055390824958	0.308872492341
H341	H	0.612166022549	0.529486227072	0.654293222424
H342	H	0.387833977451	0.029486227072	0.345706777576
H343	H	0.538824808823	0.572992495145	0.651002048579
H344	H	0.461175191177	0.072992495145	0.348997951421
H345	H	0.550199285351	0.717374665136	0.619758687068
H346	H	0.449800714649	0.217374665136	0.380241312932
H347	H	0.629490958111	0.679883690137	0.561551659165
H348	H	0.370509041890	0.179883690137	0.438448340835
H349	H	0.512269595515	0.772228162838	0.572395208511
H350	H	0.487730404485	0.272228162838	0.427604791488
H351	H	0.552651591483	0.776186227794	0.534098924346
H352	H	0.447348408517	0.276186227794	0.465901075654
H353	H	0.506639369512	0.629393359038	0.564101079515
H354	H	0.493360630488	0.129393359038	0.435898920485
H355	H	0.415070934071	0.707104392844	0.556499414153
H356	H	0.584929065929	0.207104392844	0.443500585847
H357	H	0.416564114736	0.639410935605	0.524054126218
H358	H	0.583435885264	0.139410935605	0.475945873782
H359	H	0.438496383230	0.733641875856	0.515495645789
H360	H	0.561503616770	0.233641875856	0.484504354211
H361	H	0.516224129793	0.579419689698	0.506545705961
H362	H	0.483775870207	0.079419689698	0.493454294039
H363	H	0.587881008314	0.616052713146	0.519323854633
H364	H	0.412118991686	0.116052713146	0.480676145367
H365	H	0.540485275084	0.667955237011	0.491456333287
H366	H	0.459514724916	0.167955237011	0.508543666713
H367	H	0.595750155285	0.838333676624	0.614427246726
H368	H	0.404249844715	0.338333676624	0.385572753274
H369	H	0.679855185907	0.930791707783	0.575628565240
H370	H	0.320144814093	0.430791707783	0.424371434760
H371	H	0.633438122020	0.948238176913	0.648099215603
H372	H	0.366561877980	0.448238176913	0.351900784397
H373	H	0.676719830749	0.015891762270	0.625548774268
H374	H	0.323280169251	0.515891762270	0.374451225731
H375	H	0.706573940345	0.799662541700	0.639889300456
H376	H	0.293426059655	0.299662541700	0.360110699544
H377	H	0.835154553765	0.836685484830	0.648263982694
H378	H	0.164845446235	0.336685484830	0.351736017306
H379	H	0.782621032198	0.759521292063	0.690341092138
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H381	H	0.837736247348	0.701051053252	0.670098976696
H382	H	0.162263752652	0.201051053252	0.329901023304
H383	H	0.758369487690	0.694388910603	0.659310547223
H384	H	0.241630512310	0.194388910603	0.340689452777
H385	H	0.763424343524	0.700165428324	0.591700421172
H386	H	0.236575656476	0.200165428324	0.408299578828
H387	H	0.887028264096	0.668664492555	0.564903366655
H388	H	0.112971735904	0.168664492555	0.435096633345
H389	H	0.834912343053	0.607625338668	0.518356825004
H390	H	0.165087656947	0.107625338668	0.481643174996
H391	H	0.732414042733	0.605841782331	0.516055810059
H392	H	0.267585957267	0.105841782331	0.483944189941
H393	H	0.858141842719	0.528541146934	0.567013969404
H394	H	0.141858157281	0.028541146934	0.432986030595
H395	H	0.786318257034	0.502584843524	0.550365561889
H396	H	0.213681742966	0.002584843524	0.449634438111
H397	H	0.788193886064	0.556929934765	0.587644782296
H398	H	0.211806113936	0.056929934765	0.412355217704
H399	H	0.772959212941	0.805537388227	0.545535564791
H400	H	0.227040787059	0.305537388227	0.454464435209
H401	H	0.834602392138	0.853561764481	0.485453391229
H402	H	0.165397607862	0.353561764481	0.514546608771

H403	H	0.726455264663	0.887762005884	0.507553674132
H404	H	0.273544735337	0.387762005884	0.492446325868
H405	H	0.761308466018	0.950061835018	0.535560150879
H406	H	0.238691533982	0.450061835018	0.464439849121
H407	H	0.746815127640	0.906747643272	0.443460453562
H408	H	0.253184872361	0.406747643272	0.556539546438
H409	H	0.788526030689	0.075572870036	0.516809811695
H410	H	0.211473969311	0.575572870036	0.483190188305
H411	H	0.747963017271	0.002418384071	0.398990555841
H412	H	0.252036982729	0.502418384071	0.601009444159
H413	H	0.789977148695	0.171994859500	0.471878183556
H414	H	0.210022851306	0.671994859500	0.528121816444
H415	H	0.761246643335	0.126115260454	0.386217723300
H416	H	0.238753356665	0.626115260454	0.613782276700
H417	H	0.846951011004	0.923477173540	0.569439803133
H418	H	0.153048988996	0.423477173540	0.430560196867
H419	H	0.939502068581	0.030510135101	0.545535046141
H420	H	0.060497931419	0.530510135101	0.454464953858
H421	H	0.930147948638	0.086756589863	0.601761529639
H422	H	0.069852051362	0.586756589863	0.398238470361
H423	H	0.844078610569	0.973848897610	0.619391689681
H424	H	0.155921389431	0.473848897610	0.380608310319
H425	H	0.852454055827	0.119395703959	0.558024400164
H426	H	0.147545944173	0.619395703959	0.441975599836
H427	H	0.826039245534	0.130666946753	0.599652741404
H428	H	0.173960754466	0.630666946753	0.400347258596
H429	H	0.800497913450	0.052312958195	0.575685324874
H430	H	0.199502086551	0.552312958195	0.424314675126
H431	H	0.946233517477	0.862223799675	0.589197153692
H432	H	0.053766482523	0.362223799675	0.410802846308
H433	H	0.038017849827	0.803898485987	0.608229179661
H434	H	0.961982150173	0.303898485987	0.391770820339
H435	H	0.075675580947	0.892311455507	0.609949554130
H436	H	0.924324419054	0.392311455507	0.390050445870
H437	H	0.942044772216	0.930959241731	0.645519785340
H438	H	0.057955227784	0.430959241731	0.354480214660
H439	H	0.984658118857	0.911591721264	0.714686611028
H440	H	0.015341881143	0.411591721264	0.285313388971
H441	H	0.855648610496	0.944252297465	0.686644029994
H442	H	0.144351389504	0.444252297465	0.313355970006
H443	H	0.877993395507	0.951225975739	0.729264578727
H444	H	0.122006604493	0.451225975739	0.270735421273
H445	H	0.918042376907	0.844000868000	0.754959855418
H446	H	0.081957623093	0.344000868000	0.245040144582
H447	H	0.880873958717	0.696055225439	0.726904089258
H448	H	0.119126041283	0.196055225439	0.273095910742
H449	H	0.941935085709	0.630854637928	0.767351235334
H450	H	0.058064914291	0.130854637928	0.232648764666
H451	H	0.995833495626	0.780987130296	0.790111488543
H452	H	0.004166504374	0.280987130296	0.209888511457
H453	H	0.943223982139	0.726620280280	0.813305671018
H454	H	0.056776017861	0.226620280280	0.186694328982
H455	H	0.047676015613	0.664473644298	0.743477947010
H456	H	0.952323984387	0.164473644298	0.256522052990
H457	H	0.014769446281	0.743233344660	0.724634228446
H458	H	0.985230553719	0.243233344660	0.275365771553
H459	H	0.989093614880	0.652430030709	0.713057444701
H460	H	0.010906385120	0.152430030709	0.286942555299
H461	H	0.021027394232	0.619924432864	0.814732096248
H462	H	0.978972605768	0.119924432864	0.185267903752
H463	H	0.045810470588	0.702892729558	0.835570396408
H464	H	0.954189529412	0.202892729558	0.164429603592
H465	H	0.076031136532	0.680935233310	0.795571291243

H466	H	0.923968863468	0.180935233310	0.204428708757
H467	H	0.813017737131	0.629261408293	0.758476251709
H468	H	0.186982262869	0.129261408293	0.241523748291
H469	H	0.763780445609	0.706374108838	0.818921324833
H470	H	0.236219554391	0.206374108838	0.181078675167
H471	H	0.721816698897	0.562380800263	0.784430726881
H472	H	0.278183301103	0.062380800263	0.215569273118
H473	H	0.648570972577	0.707128916782	0.781599177401
H474	H	0.351429027423	0.207128916782	0.218400822599
H475	H	0.707444743639	0.689641352236	0.751950789754
H476	H	0.292555256361	0.189641352236	0.248049210246
H477	H	0.689143188863	0.563483956379	0.844745874876
H478	H	0.310856811137	0.063483956379	0.155254125124
H479	H	0.624140519936	0.580904445823	0.818901170102
H480	H	0.375859480064	0.080904445823	0.181098829898
H481	H	0.660559770999	0.655651345719	0.840214401983
H482	H	0.339440229001	0.155651345719	0.159785598017
H483	H	0.658340025020	0.573203601800	0.733151902033
H484	H	0.341659974980	0.073203601800	0.266848097967
H485	H	0.601919374727	0.645583432801	0.732971266144
H486	H	0.398080625273	0.145583432801	0.267028733855
H487	H	0.601161163814	0.578656073738	0.765049612189
H488	H	0.398838836186	0.078656073738	0.234950387810
H489	H	0.780440135103	0.664252501593	0.869052503632
H490	H	0.219559864897	0.164252501593	0.130947496368
H491	H	0.827078360540	0.508985048901	0.875789579717
H492	H	0.172921639460	0.008985048901	0.124210420283
H493	H	0.882387098668	0.542609191743	0.927359268794
H494	H	0.117612901332	0.042609191743	0.072640731206
H495	H	0.866952022139	0.706742379478	0.906246968040
H496	H	0.133047977861	0.206742379478	0.093753031960
H497	H	0.825452794571	0.663123988605	0.938933019360
H498	H	0.174547205429	0.163123988605	0.061066980640
H499	H	0.975169067703	0.594567669759	0.897794095979
H500	H	0.024830932297	0.094567669758	0.102205904021
H501	H	0.928600246823	0.621202260774	0.863318411904
H502	H	0.071399753177	0.121202260774	0.136681588096
H503	H	0.937993265846	0.525039823637	0.873558204783
H504	H	0.062006734154	0.025039823637	0.126441795216
H505	H	0.924099940631	0.637352687835	0.970197054105
H506	H	0.075900059369	0.137352687835	0.029802945895
H507	H	0.912585483425	0.734442369292	0.962594142496
H508	H	0.087414516575	0.234442369292	0.037405857504
H509	H	0.966330911381	0.683597718266	0.938319160330
H510	H	0.033669088619	0.183597718266	0.061680839670
H511	H	0.663744990369	0.506291546043	0.944845330330
H512	H	0.336255009631	0.006291546043	0.055154669670
H513	H	0.683602606968	0.375986139972	0.980890446080
H514	H	0.316397393032	0.875986139972	0.019109553920
H515	H	0.661080659336	0.374996789879	0.938011513714
H516	H	0.338919340664	0.874996789879	0.061988486286
H517	H	0.791475398778	0.359456446006	0.966425000972
H518	H	0.208524601222	0.859456446006	0.033574999028
H519	H	0.756999070453	0.303159746241	0.934970138446
H520	H	0.243000929547	0.803159746241	0.065029861554
H521	H	0.833974067299	0.420297085659	0.919008649458
H522	H	0.166025932701	0.920297085659	0.080991350542
H523	H	0.769484712939	0.398955825891	0.892605701229
H524	H	0.230515287061	0.898955825891	0.107394298771
H525	H	0.815641415711	0.514191159121	0.976546523133
H526	H	0.184358584290	0.014191159121	0.023453476867
H527	H	0.771305880289	0.562733269800	0.042575490163
H528	H	0.228694119711	0.062733269800	0.957424509837

H529	H	0.848239094495	0.564416243001	0.026773667230
H530	H	0.151760905505	0.064416243001	0.973226332770
H531	H	0.836651919940	0.688682731406	0.057769013014
H532	H	0.163348080060	0.188682731406	0.942230986986
H533	H	0.810065579497	0.802435872328	0.006048990577
H534	H	0.189934420503	0.302435872328	0.993951009423
H535	H	0.721538746321	0.803929070608	0.045145627622
H536	H	0.278461253679	0.303929070608	0.954854372378
H537	H	0.767451317686	0.885708023929	0.050894134201
H538	H	0.232548682314	0.385708023929	0.949105865799
H539	H	0.772505875701	0.811065675809	0.080391264398
H540	H	0.227494124299	0.311065675809	0.919608735602
H541	H	0.921444081580	0.722136396124	0.029516072908
H542	H	0.078555918420	0.222136396124	0.970483927092
H543	H	0.992209391110	0.859096515546	0.046635837006
H544	H	0.007790608890	0.359096515546	0.953364162994
H545	H	0.019566446640	0.700103412139	0.070952169395
H546	H	0.980433553360	0.200103412139	0.929047830605
H547	H	0.941686602166	0.758351645378	0.098973007193
H548	H	0.058313397834	0.258351645378	0.901026992807
H549	H	0.116368990259	0.768394839153	0.060590517154
H550	H	0.883631009741	0.268394839153	0.939409482846
H551	H	0.101314568532	0.759374748632	0.104226600078
H552	H	0.898685431468	0.259374748632	0.895773399922
H553	H	0.088096207239	0.847289003046	0.083256386958
H554	H	0.911903792761	0.347289003046	0.916743613042
H555	H	0.014162731797	0.890611062414	0.996802624902
H556	H	0.985837268203	0.390611062414	0.003197375098
H557	H	0.045289561741	0.787849778469	0.943318481839
H558	H	0.954710438259	0.287849778469	0.056681518161
H559	H	0.060649144837	0.958051856503	0.952420523484
H560	H	0.939350855163	0.458051856503	0.047579476516
H561	H	0.074823759029	0.911599019396	0.914119931326
H562	H	0.925176240971	0.411599019396	0.085880068674
H563	H	0.244160343362	0.770829816291	0.967946238791
H564	H	0.755839656638	0.270829816291	0.032053761209
H565	H	0.291478146859	0.717154760051	0.907843222391
H566	H	0.708521853141	0.217154760051	0.092156777609
H567	H	0.239047047909	0.662770748588	0.931839101522
H568	H	0.760952952091	0.162770748588	0.068160898478
H569	H	0.209039116198	0.768657918067	0.873554591984
H570	H	0.790960883802	0.268657918067	0.126445408016
H571	H	0.187786596978	0.672602829130	0.876920692582
H572	H	0.812213403022	0.172602829130	0.123079307418
H573	H	0.106880416108	0.782679883082	0.896079752591
H574	H	0.893119583893	0.282679883082	0.103920247409
H575	H	0.112174536253	0.697849328826	0.919518550386
H576	H	0.887825463747	0.197849328826	0.080481449614
H577	H	0.340316617457	0.820834014719	0.953089864084
H578	H	0.659683382544	0.320834014719	0.046910135916
H579	H	0.335807932551	0.978411769749	0.940121442235
H580	H	0.664192067450	0.478411769749	0.059878557765
H581	H	0.402257162975	0.922378083544	0.941328505004
H582	H	0.597742837025	0.422378083544	0.058671494996
H583	H	0.343812289184	0.831493898585	0.879999325095
H584	H	0.656187710816	0.331493898585	0.120000674905
H585	H	0.384918417955	0.940163685433	0.829195825098
H586	H	0.615081582045	0.440163685433	0.170804174902
H587	H	0.392910136770	0.829037828470	0.791246939191
H588	H	0.607089863230	0.329037828470	0.208753060809
H589	H	0.441574592719	0.826650784672	0.826099904846
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H591	H	0.253139035471	0.899729038322	0.865047407538

H592	H	0.746860964529	0.399729038322	0.134952592462
H593	H	0.191231471071	0.961400916959	0.805657608114
H594	H	0.808768528929	0.461400916959	0.194342391886
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H599	H	0.231700539233	0.761814490013	0.820174819051
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H602	H	0.915170017125	0.364168243291	0.236105853977
H603	H	0.261950619422	0.690089073860	0.770591107195
H604	H	0.738049380579	0.190089073860	0.229408892805
H605	H	0.113893818925	0.789818125893	0.714326510041
H606	H	0.886106181075	0.289818125893	0.285673489959
H607	H	0.183022320536	0.699952798601	0.692705156918
H608	H	0.816977679464	0.199952798601	0.307294843082
H609	H	0.236543727398	0.056927660422	0.840824944707
H610	H	0.763456272602	0.556927660422	0.159175055293
H611	H	0.179871891568	0.073925400021	0.907600518422
H612	H	0.820128108432	0.573925400021	0.092399481578
H613	H	0.294145011253	0.092005493390	0.897384576973
H614	H	0.705854988747	0.592005493390	0.102615423027
H615	H	0.259570114062	0.175227203402	0.913807553083
H616	H	0.740429885938	0.675227203402	0.086192446917
H617	H	0.277716483126	0.168302634092	0.870313503802
H618	H	0.722283516874	0.668302634092	0.129686496198
H619	H	0.139421347784	0.130766928382	0.829634123597
H620	H	0.860578652216	0.630766928382	0.170365876403
H621	H	0.093402867125	0.275795891903	0.855726088187
H622	H	0.906597132875	0.775795891903	0.144273911813
H623	H	0.117138758885	0.231778246960	0.782695604116
H624	H	0.882861241115	0.731778246960	0.217304395884
H625	H	0.100300771735	0.322362235716	0.798644935148
H626	H	0.899699228265	0.822362235716	0.201355064851
H627	H	0.177985588113	0.360519554988	0.847327712300
H628	H	0.822014411887	0.860519554988	0.152672287700
H629	H	0.254306911562	0.337310676816	0.837020220869
H630	H	0.745693088438	0.837310676816	0.162979779131
H631	H	0.692217347540	0.034641708766	0.866572092650
H632	H	0.307782652460	0.534641708766	0.133427907350
H633	H	0.748286988652	0.026311274434	0.888666312534
H634	H	0.251713011348	0.526311274434	0.111333687466
H635	H	0.266283114802	0.149660292794	0.803484128728
H636	H	0.733716885198	0.649660292794	0.196515871272
H637	H	0.298055901929	0.083903726946	0.786453582932
H638	H	0.701944098071	0.583903726946	0.213546417068
H639	H	0.430958954321	0.034431089016	0.847348922418
H640	H	0.569041045679	0.534431089016	0.152651077582
H641	H	0.492444668717	0.007906142569	0.830186451821
H642	H	0.507555331283	0.507906142569	0.169813548179
H643	H	0.316675786093	0.345617682874	0.728774710097
H644	H	0.683324213907	0.845617682874	0.271225289903
H645	H	0.313407201490	0.434307039983	0.735672326944
H646	H	0.686592798510	0.934307039983	0.264327673056
H647	H	0.248911773417	0.409004261949	0.651338521626
H648	H	0.751088226584	0.909004261949	0.348661478374
H649	H	0.260639843844	0.426967784239	0.689140541910
H650	H	0.739360156156	0.926967784239	0.310859458090
H651	H	0.245366691711	0.540246891154	0.658792131545
H652	H	0.754633308289	0.040246891154	0.341207868455
H653	H	0.283884440375	0.610553940104	0.668674412875
H654	H	0.716115559625	0.110553940104	0.331325587125

H655	H	0.335039783154	0.602532491248	0.719040771234
H656	H	0.664960216846	0.102532491248	0.280959228766
H657	H	0.291139197010	0.668591107565	0.710335498684
H658	H	0.708860802990	0.168591107565	0.289664501316
H659	H	0.392620610655	0.510694770318	0.739682193354
H660	H	0.607379389345	0.010694770318	0.260317806646
H661	H	0.350460446097	0.528475124777	0.769735527461
H662	H	0.649539553903	0.028475124777	0.230264472539
H663	H	0.683946331011	0.290752058229	0.790891503926
H664	H	0.316053668989	0.790752058229	0.209108496074
H665	H	0.716174821269	0.312751585122	0.823615507189
H666	H	0.283825178732	0.812751585122	0.176384492811
H667	H	0.930829952479	0.502917266845	0.755414687305
H668	H	0.069170047521	0.002917266845	0.244585312695
H669	H	0.937189564756	0.520524994074	0.716594959758
H670	H	0.062810435244	0.020524994074	0.283405040242
H671	H	0.778832014088	0.563787050505	0.702434494842
H672	H	0.221167985912	0.063787050505	0.297565505158
H673	H	0.834746008061	0.539551602673	0.726424566805
H674	H	0.165253991939	0.039551602673	0.273575433195
H675	H	0.747799211735	0.507175062975	0.648661819111
H676	H	0.252200788266	0.007175062975	0.351338180889
H677	H	0.725981935652	0.590373320927	0.645772709663
H678	H	0.274018064348	0.090373320927	0.354227290337
H679	H	0.041509653345	0.190398702212	0.562328854586
H680	H	0.958490346655	0.690398702212	0.437671145414
H681	H	0.012895483381	0.112614956815	0.568473067223
H682	H	0.987104516619	0.612614956815	0.431526932777
H683	H	0.545535581964	0.212519126210	0.759985090916
H684	H	0.454464418036	0.712519126210	0.240014909084
H685	H	0.590491203992	0.277817795988	0.750345021125
H686	H	0.409508796008	0.777817795988	0.249654978875
H687	H	0.497990539845	0.326910438948	0.727898274303
H688	H	0.502009460155	0.826910438948	0.272101725697
H689	H	0.504502216024	0.367960903945	0.693478917206
H690	H	0.495497783976	0.867960903945	0.306521082794
H691	H	0.472395019598	0.491309452167	0.767564860329
H692	H	0.527604980402	0.991309452167	0.232435139671
H693	H	0.480558134686	0.449060970027	0.732865612511
H694	H	0.519441865314	0.949060970027	0.267134387489
H695	H	0.329747018135	0.206420074737	0.733736050445
H696	H	0.670252981865	0.706420074737	0.266263949555
H697	H	0.359567078633	0.242543637466	0.702875061463
H698	H	0.640432921367	0.742543637466	0.297124938537
H699	H	0.140874898298	0.190035934762	0.557389085319
H700	H	0.859125101702	0.690035934762	0.442610914681
H701	H	0.110098612758	0.243653090041	0.532016244570
H702	H	0.889901387242	0.743653090041	0.467983755430
H703	H	0.101675185689	0.009202058245	0.602631576275
H704	H	0.898324814311	0.509202058245	0.397368423725
H705	H	0.165466635804	0.035247603338	0.591165882807
H706	H	0.834533364196	0.535247603338	0.408834117193
H707	H	0.255874222131	0.869814933274	0.655764238760
H708	H	0.744125777869	0.369814933274	0.344235761240
H709	H	0.214776870786	0.797840150583	0.660902007322
H710	H	0.785223129214	0.297840150583	0.339097992678
H711	H	0.256791380171	0.059929299635	0.537358127283
H712	H	0.743208619829	0.559929299635	0.462641872717
H713	H	0.325042295543	0.044208088389	0.527740684484
H714	H	0.674957704458	0.544208088389	0.472259315516
H715	H	0.372924840663	0.787966774762	0.734532559744
H716	H	0.627075159337	0.287966774762	0.265467440256
H717	H	0.423901698920	0.724490310605	0.736887877057

H718	H	0.576098301080	0.224490310605	0.263112122943
H719	H	0.284795551710	0.852560509274	0.746557138877
H720	H	0.715204448290	0.352560509274	0.253442861123
H721	H	0.280553875634	0.830166530908	0.707401991561
H722	H	0.719446124366	0.330166530908	0.292598008439
H723	H	0.482552195123	0.598220267578	0.733349584459
H724	H	0.517447804878	0.098220267578	0.266650415541
H725	H	0.502887540506	0.666721143554	0.754321388700
H726	H	0.497112459494	0.166721143554	0.245678611300
H727	H	0.502991209764	0.112292644686	0.799818264227
H728	H	0.497008790236	0.612292644686	0.200181735773
H729	H	0.554305564578	0.064758242900	0.785220230266
H730	H	0.445694435422	0.564758242900	0.214779769734
H731	H	0.528673782179	0.751778432606	0.798139768956
H732	H	0.471326217821	0.251778432606	0.201860231044
H733	H	0.473990390163	0.696786499484	0.803697519798
H734	H	0.526009609837	0.196786499484	0.196302480202
H735	H	0.559672696836	0.714031917594	0.845424207642
H736	H	0.440327303165	0.214031917594	0.154575792358
H737	H	0.574408590176	0.797117664298	0.847939379153
H738	H	0.425591409824	0.297117664298	0.152060620847
H739	H	0.144916476312	0.704884562876	0.636588881870
H740	H	0.855083523688	0.204884562876	0.363411118130
H741	H	0.109147253348	0.765335808993	0.658449536198
H742	H	0.890852746652	0.265335808993	0.341550463802
H743	H	0.955519590103	0.702205375274	0.619687713634
H744	H	0.044480409897	0.202205375274	0.380312286365
H745	H	0.971030264823	0.717068247407	0.655865590060
H746	H	0.028969735177	0.217068247407	0.344134409940
H747	H	0.910510980641	0.516071369235	0.809149489383
H748	H	0.089489019359	0.016071369235	0.190850510617
H749	H	0.968034141978	0.468358200427	0.817714305959
H750	H	0.031965858022	0.968358200427	0.182285694041
H751	H	0.713280347888	0.450404872845	0.830716509390
H752	H	0.286719652112	0.950404872845	0.169283490610
H753	H	0.782829906750	0.456850100205	0.824258452885
H754	H	0.217170093250	0.956850100205	0.175741547115
H755	H	0.878366118365	0.422020722065	0.984045208411
H756	H	0.121633881635	0.922020722065	0.015954791589
H757	H	0.931960547485	0.472839456085	0.971101445866
H758	H	0.068039452515	0.972839456084	0.028898554134
H759	H	0.049552672516	0.485649539751	0.979649595522
H760	H	0.950447327484	0.985649539751	0.020350404478
H761	H	0.002911549320	0.528916506276	0.004106760705
H762	H	0.997088450680	0.028916506276	0.995893239295
H763	H	0.973887634241	0.598313999859	0.052638731766
H764	H	0.026112365759	0.098313999859	0.947361268234
H765	H	0.006392561036	0.640779947123	0.022387769486
H766	H	0.993607438964	0.140779947123	0.977612230514
H767	H	0.934496626085	0.546120445517	0.106978588412
H768	H	0.065503373915	0.046120445517	0.893021411588
H769	H	0.972882979868	0.614825566463	0.117751279893
H770	H	0.027117020132	0.114825566463	0.882248720107
H771	H	0.118479188112	0.550550201191	0.098322713435
H772	H	0.881520811889	0.050550201191	0.901677286565
H773	H	0.051354973059	0.575302593157	0.093794910429
H774	H	0.948645026941	0.075302593157	0.906205089571
H775	H	0.354388464314	0.686569211038	0.966555700938
H776	H	0.645611535686	0.186569211038	0.033444299062
H777	H	0.353277540915	0.724326010870	0.001150968688
H778	H	0.646722459085	0.224326010870	0.998849031312
H779	H	0.300663774069	0.636656101945	0.855862585639
H780	H	0.699336225932	0.136656101945	0.144137414361

H781	H	0.249167631361	0.576990959321	0.862042955119
H782	H	0.750832368639	0.076990959321	0.137957044881
H783	H	0.382809606879	0.598652420165	0.809988575473
H784	H	0.617190393121	0.098652420165	0.190011424527
H785	H	0.345163292690	0.540080548736	0.828409626758
H786	H	0.654836707310	0.040080548736	0.171590373242
H787	H	0.994093483457	0.366051628948	0.868521983114
H788	H	0.005906516543	0.866051628948	0.131478016886
H789	H	0.000921091875	0.349745812853	0.831440850918
H790	H	0.999078908125	0.849745812853	0.168559149082
H791	H	0.078223819813	0.409249621607	0.864468159414
H792	H	0.921776180187	0.909249621607	0.135531840586
H793	H	0.114887116814	0.403230446400	0.898387207972
H794	H	0.885112883186	0.903230446400	0.101612792028
H795	H	0.137602083213	0.572299305165	0.841267368901
H796	H	0.862397916787	0.072299305165	0.158732631099
H797	H	0.144872388171	0.509786933446	0.867691740591
H798	H	0.855127611829	0.009786933446	0.132308259409
C1	C	0.686001285101	0.810401429759	0.912889440538
C2	C	0.313998714899	0.310401429759	0.087110559462
C3	C	0.723229848918	0.815095288748	0.880638503843
C4	C	0.276770151082	0.315095288748	0.119361496157
C5	C	0.727606244869	0.817980302706	0.944324252072
C6	C	0.272393755131	0.317980302706	0.055675747928
C7	C	0.752899677476	0.897029341292	0.948733858068
C8	C	0.247100322524	0.397029341292	0.051266141932
C9	C	0.769903255926	0.895457944756	0.838905133836
C10	C	0.230096744074	0.395457944756	0.161094866164
C11	C	0.827424540276	0.938207648291	0.849648330972
C12	C	0.172575459724	0.438207648291	0.150351669028
C13	C	0.736734568752	0.932444845017	0.808602097307
C14	C	0.263265431248	0.432444845017	0.191397902693
C15	C	0.701934108444	0.872104647972	0.789517790255
C16	C	0.298065891556	0.372104647972	0.210482209745
C17	C	0.939635129854	0.943987583183	0.837965506548
C18	C	0.060364870146	0.443987583183	0.162034493452
C19	C	0.966072883651	0.961300512655	0.803053495957
C20	C	0.033927116349	0.461300512655	0.196946504043
C21	C	0.981915328352	0.884583336815	0.854009528190
C22	C	0.018084671648	0.384583336815	0.145990471810
C23	C	0.025831050398	0.041312959449	0.766645964287
C24	C	0.974168949602	0.541312959449	0.233354035712
C25	C	0.095887390839	0.047793124476	0.767507791008
C26	C	0.904112609161	0.547793124476	0.232492208992
C27	C	0.996334958230	0.113521867686	0.753280994472
C28	C	0.003665041770	0.613521867686	0.246719005528
C29	C	0.193923083150	0.024764904250	0.738804497461
C30	C	0.806076916851	0.524764904250	0.261195502539
C31	C	0.221139337905	0.102097209243	0.732190833572
C32	C	0.778860662095	0.602097209243	0.267809166428
C33	C	0.208223846377	0.969476546767	0.710396990919
C34	C	0.791776153623	0.469476546767	0.289603009081
C35	C	0.154065253511	0.978767578953	0.686400227698
C36	C	0.845934746489	0.478767578953	0.313599772302
C37	C	0.099112667163	0.987785304852	0.709905035575
C38	C	0.900887332837	0.487785304852	0.290094964425
C39	C	0.200909203519	0.232120735658	0.717101987437
C40	C	0.799090796481	0.732120735658	0.282898012563
C41	C	0.145251302387	0.282016993809	0.722933557112
C42	C	0.854748697613	0.782016993809	0.277066442887
C43	C	0.229800906834	0.248553805858	0.683053238035
C44	C	0.770199093166	0.748553805858	0.316946761965
C45	C	0.114053247212	0.411887187487	0.733294813646

C46	C	0.885946752788	0.911887187487	0.266705186354
C47	C	0.074539046725	0.421453871169	0.701717126225
C48	C	0.925460953275	0.921453871169	0.298282873775
C49	C	0.146143729633	0.485195504369	0.743748387542
C50	C	0.853856270367	0.985195504369	0.256251612458
C51	C	0.178128974250	0.476633290155	0.777990086333
C52	C	0.821871025750	0.976633290155	0.222009913667
C53	C	0.100898679140	0.550260587477	0.742964992663
C54	C	0.899101320860	0.050260587477	0.257035007337
C55	C	0.216167251099	0.545129083418	0.787448728014
C56	C	0.783832748901	0.045129083418	0.212551271986
C57	C	0.067083101925	0.432060113264	0.641290231217
C58	C	0.932916898075	0.932060113264	0.358709768783
C59	C	0.034599611132	0.359050977267	0.631692736328
C60	C	0.965400388868	0.859050977267	0.368307263672
C61	C	0.104657631131	0.470100404706	0.613061547328
C62	C	0.895342368869	0.970100404706	0.386938452672
C63	C	0.079630166470	0.454865928644	0.577823148312
C64	C	0.920369833530	0.954865928644	0.422176851688
C65	C	0.107440114947	0.554231416273	0.620908935408
C66	C	0.892559885053	0.054231416273	0.379091064592
C67	C	0.020964268804	0.225610142205	0.638450112702
C68	C	0.979035731196	0.725610142205	0.361549887298
C69	C	0.961776778276	0.235027174048	0.659347541807
C70	C	0.038223221724	0.735027174048	0.340652458192
C71	C	0.056905944930	0.154799219445	0.647210497594
C72	C	0.943094055070	0.654799219445	0.352789502406
C73	C	0.913329043030	0.287206744852	0.709970577815
C74	C	0.086670956970	0.787206744852	0.290029422185
C75	C	0.872537928012	0.344287891009	0.691757068116
C76	C	0.127462071988	0.844287891009	0.308242931884
C77	C	0.932759179639	0.316240804113	0.744729207951
C78	C	0.067240820361	0.816240804113	0.255270792049
C79	C	0.879138148932	0.341136669156	0.767136921760
C80	C	0.120861851068	0.841136669156	0.232863078240
C81	C	0.834758168197	0.279957760413	0.778544648271
C82	C	0.165241831803	0.779957760413	0.221455351729
C83	C	0.839132463785	0.167517113706	0.815298461984
C84	C	0.160867536215	0.667517113706	0.184701538016
C85	C	0.863238351379	0.455904149905	0.657698816614
C86	C	0.136761648621	0.955904149905	0.342301183386
C87	C	0.825526206716	0.417761530638	0.629895894543
C88	C	0.174473793284	0.917761530638	0.370104105457
C89	C	0.902062359413	0.518664135749	0.642267889423
C90	C	0.097937640587	0.018664135749	0.357732110577
C91	C	0.828353676217	0.332486950925	0.582068639631
C92	C	0.171646323783	0.832486950925	0.417931360369
C93	C	0.778113002215	0.279402179297	0.595272534743
C94	C	0.221886997785	0.779402179297	0.404727465257
C95	C	0.877623111753	0.291765112364	0.561459062937
C96	C	0.122376888247	0.791765112364	0.438540937063
C97	C	0.921961529740	0.347412932326	0.544313007043
C98	C	0.078038470260	0.847412932326	0.455686992957
C99	C	0.748910876201	0.193414179828	0.640924948664
C100	C	0.251089123800	0.693414179828	0.359075051336
C101	C	0.690698364097	0.234956286871	0.651803901507
C102	C	0.309301635903	0.734956286871	0.348196098493
C103	C	0.782630212756	0.157183786758	0.670827214762
C104	C	0.217369787244	0.657183786758	0.329172785238
C105	C	0.741973549580	0.112988739186	0.694136817334
C106	C	0.258026450420	0.612988739186	0.305863182666
C107	C	0.712950574196	0.148265768377	0.721337794494
C108	C	0.287049425804	0.648265768377	0.278662205506

C109	C	0.732582623377	0.036140890611	0.689256289129
C110	C	0.267417376623	0.536140890611	0.310743710871
C111	C	0.675271882332	0.107704000719	0.743019271243
C112	C	0.324728117668	0.607704000719	0.256980728757
C113	C	0.694369819902	0.995364464838	0.710743588347
C114	C	0.305630180098	0.495364464838	0.289256411652
C115	C	0.665572974720	0.031359251275	0.737646841952
C116	C	0.334427025280	0.531359251275	0.262353158048
C117	C	0.644584123521	0.340635424321	0.680160606449
C118	C	0.355415876479	0.840635424321	0.319839393550
C119	C	0.604070888660	0.366993728350	0.650941026209
C120	C	0.395929111340	0.866993728350	0.349058973791
C121	C	0.661632506043	0.406464643800	0.702922470406
C122	C	0.338367493957	0.906464643800	0.297077529594
C123	C	0.686734913573	0.382461539315	0.736853777446
C124	C	0.313265086427	0.882461539315	0.263146222554
C125	C	0.596819454253	0.402423485640	0.591841172814
C126	C	0.403180545748	0.902423485640	0.408158827186
C127	C	0.563508440292	0.332698039138	0.578733713148
C128	C	0.436491559708	0.832698039138	0.421266286851
C129	C	0.637892318580	0.440011479240	0.565048962067
C130	C	0.362107681420	0.940011479240	0.434951037933
C131	C	0.609104599645	0.436179945177	0.530098162765
C132	C	0.390895400355	0.936179945177	0.469901837235
C133	C	0.650424684964	0.520556076801	0.575906403483
C134	C	0.349575315036	0.020556076801	0.424093596517
C135	C	0.569005434074	0.198712694148	0.566208322588
C136	C	0.430994565927	0.698712694148	0.433791677412
C137	C	0.512734753366	0.180248443482	0.588440669113
C138	C	0.487265246634	0.680248443482	0.411559330887
C139	C	0.620106440754	0.139298392207	0.567585990735
C140	C	0.379893559246	0.639298392207	0.432414009265
C141	C	0.468492673033	0.184531882703	0.644960314912
C142	C	0.531507326967	0.684531882703	0.355039685087
C143	C	0.414694652441	0.239123194578	0.642044850561
C144	C	0.585305347559	0.739123194578	0.357955149439
C145	C	0.494622598096	0.186669010726	0.680782029896
C146	C	0.505377401904	0.686669010726	0.319217970104
C147	C	0.535227698633	0.119339814436	0.689266067374
C148	C	0.464772301367	0.619339814436	0.310733932626
C149	C	0.499309256590	0.046929147061	0.694470167905
C150	C	0.500690743410	0.546929147061	0.305529832095
C151	C	0.414488296547	0.005606493239	0.732388608714
C152	C	0.585511703453	0.505606493239	0.267611391285
C153	C	0.370613494188	0.357285074793	0.623785101737
C154	C	0.629386505812	0.857285074793	0.376214898263
C155	C	0.311869773624	0.325576001606	0.608164740300
C156	C	0.688130226376	0.825576001606	0.391835259700
C157	C	0.389884913077	0.429417032142	0.605967484709
C158	C	0.610115086923	0.929417032142	0.394032515291
C159	C	0.433568350939	0.480615347397	0.625757804312
C160	C	0.566431649061	0.980615347397	0.374242195688
C161	C	0.449425436799	0.546298083105	0.602679326407
C162	C	0.550574563201	0.046298083105	0.397320673593
C163	C	0.406468309534	0.506039661962	0.659434605116
C164	C	0.593531690466	0.006039661962	0.340565394884
C165	C	0.257850592556	0.245516407494	0.568575422497
C166	C	0.742149407444	0.745516407494	0.431424577503
C167	C	0.246010046708	0.169327861276	0.585134127930
C168	C	0.753989953292	0.669327861276	0.414865872070
C169	C	0.268571595618	0.239600302779	0.530908084704
C170	C	0.731428404382	0.739600302779	0.469091915296
C171	C	0.337808530981	0.227348976721	0.528103589226

C172	C	0.662191469019	0.727348976721	0.471896410774
C173	C	0.364514345584	0.278023473477	0.555364929139
C174	C	0.635485654416	0.778023473477	0.444635070861
C175	C	0.260312856066	0.089871671215	0.634612204672
C176	C	0.739687143934	0.589871671215	0.365387795328
C177	C	0.290732929433	0.017264662862	0.623987200863
C178	C	0.709267070567	0.517264662862	0.376012799137
C179	C	0.367945777856	0.956839187814	0.588760425241
C180	C	0.632054222144	0.456839187814	0.411239574759
C181	C	0.392221913305	0.916247243766	0.619938236195
C182	C	0.607778086695	0.416247243766	0.380061763805
C183	C	0.423897623527	0.983086927420	0.567986604108
C184	C	0.576102376473	0.483086927420	0.432013395892
C185	C	0.456067800030	0.917860990003	0.550868045739
C186	C	0.543932199970	0.417860990003	0.449131954261
C187	C	0.411236785620	0.801900771528	0.651231792366
C188	C	0.588763214380	0.301900771528	0.348768207634
C189	C	0.478079487973	0.822371291837	0.657574976298
C190	C	0.521920512027	0.322371291837	0.342425023702
C191	C	0.404736413786	0.719417296929	0.641110045221
C192	C	0.595263586214	0.219417296929	0.358889954779
C193	C	0.344850493743	0.719218588246	0.621128281397
C194	C	0.655149506257	0.219218588246	0.378871718602
C195	C	0.344796783767	0.793756316260	0.602060931577
C196	C	0.655203216233	0.293756316260	0.397939068423
C197	C	0.556976885921	0.834716020389	0.700085274928
C198	C	0.443023114080	0.334716020389	0.299914725072
C199	C	0.598168485250	0.775815839048	0.683571349939
C200	C	0.401831514750	0.275815839048	0.316428650061
C201	C	0.564755600256	0.832093615663	0.738349622135
C202	C	0.435244399744	0.332093615663	0.261650377865
C203	C	0.534809978452	0.898253147426	0.756824504064
C204	C	0.465190021548	0.398253147426	0.243175495936
C205	C	0.555225213840	0.905185072980	0.793388110251
C206	C	0.444774786160	0.405185072980	0.206611889749
C207	C	0.613968724432	0.648027564078	0.664666257582
C208	C	0.386031275568	0.148027564078	0.335333742418
C209	C	0.632965701182	0.669125500291	0.628656412024
C210	C	0.367034298818	0.169125500291	0.371343587976
C211	C	0.581815049911	0.571927144929	0.665286874400
C212	C	0.418184950089	0.071927144929	0.334713125600
C213	C	0.602152724104	0.722822223105	0.574402488421
C214	C	0.397847275896	0.222822223105	0.425597511579
C215	C	0.643625180591	0.791933033476	0.574545241148
C216	C	0.356374819409	0.291933033476	0.425454758852
C217	C	0.542006233876	0.739347835231	0.555546946415
C218	C	0.457993766125	0.239347835231	0.444453053585
C219	C	0.507667594605	0.669354914916	0.543164078439
C220	C	0.492332405395	0.169354914916	0.456835921560
C221	C	0.440880433133	0.688399274304	0.534333558327
C222	C	0.559119566867	0.188399274304	0.465666441673
C223	C	0.540043207250	0.631334300102	0.513684467481
C224	C	0.459956792751	0.131334300102	0.486315532519
C225	C	0.672691626116	0.907805692702	0.600948414541
C226	C	0.327308373884	0.407805692702	0.399051585459
C227	C	0.738109074171	0.886434328448	0.611970984275
C228	C	0.261890925829	0.386434328448	0.388029015725
C229	C	0.644506268775	0.969023291314	0.622806884074
C230	C	0.355493731225	0.469023291314	0.377193115926
C231	C	0.804543358055	0.792290232525	0.639239898897
C232	C	0.195456641946	0.292290232525	0.360760101103
C233	C	0.838858776923	0.759996347591	0.608677116042
C234	C	0.161141223077	0.259996347591	0.391322883958

C235	C	0.795204744302	0.732769261833	0.666455297757
C236	C	0.204795255698	0.232769261833	0.333544702243
C237	C	0.840350613743	0.686152311814	0.557920353677
C238	C	0.159649386258	0.186152311814	0.442079646323
C239	C	0.851684087173	0.749314749384	0.532380976712
C240	C	0.148315912827	0.249314749384	0.467619023288
C241	C	0.808573139764	0.618431013519	0.541609226137
C242	C	0.191426860236	0.118431013519	0.458390773863
C243	C	0.810725376382	0.548062416282	0.563284662328
C244	C	0.189274623618	0.048062416282	0.436715337672
C245	C	0.824581050996	0.873424272040	0.510970417854
C246	C	0.175418949004	0.373424272040	0.489029582146
C247	C	0.882440110287	0.917464730733	0.521639399295
C248	C	0.117559889713	0.417464730733	0.478360600705
C249	C	0.766814997975	0.924211315325	0.510714251883
C250	C	0.233185002025	0.424211315325	0.489285748117
C251	C	0.767418154060	0.983622432164	0.483730846231
C252	C	0.232581845940	0.483622432164	0.516269153769
C253	C	0.755939323268	0.964843851775	0.450216374659
C254	C	0.244060676732	0.464843851775	0.549783625341
C255	C	0.779412117207	0.059001985164	0.490974683553
C256	C	0.220587882793	0.559001985164	0.509025316447
C257	C	0.756341764243	0.018525863313	0.424906007640
C258	C	0.243658235757	0.518525863313	0.575093992360
C259	C	0.780164894028	0.113528221399	0.465947481793
C260	C	0.219835105972	0.613528221399	0.534052518207
C261	C	0.768851468616	0.093774497738	0.432511377550
C262	C	0.231148531384	0.593774497739	0.567488622450
C263	C	0.925112252409	0.995440524677	0.566817170743
C264	C	0.074887747591	0.495440524677	0.433182829257
C265	C	0.984120200335	0.965860042886	0.582422660387
C266	C	0.015879799665	0.465860042886	0.417577339612
C267	C	0.895155029192	0.046110467353	0.594021774492
C268	C	0.104844970808	0.546110467353	0.405978225508
C269	C	0.839765240727	0.089094708294	0.581017115457
C270	C	0.160234759273	0.589094708294	0.418982884543
C271	C	0.031710167750	0.863387126362	0.614359790381
C272	C	0.968289832250	0.363387126362	0.385640209619
C273	C	0.018299849586	0.865505406901	0.652041963274
C274	C	0.981700150414	0.365505406901	0.347958036726
C275	C	0.946882931163	0.900040510747	0.697216172225
C276	C	0.053117068837	0.400040510747	0.302783827774
C277	C	0.924862770893	0.819004869368	0.704884583727
C278	C	0.075137229107	0.319004869368	0.295115416273
C279	C	0.894626750229	0.956076855919	0.703388716375
C280	C	0.105373249771	0.456076855919	0.296611283625
C281	C	0.896997831678	0.728554669065	0.748517702029
C282	C	0.103002168322	0.228554669065	0.251482297971
C283	C	0.847365732790	0.730076031834	0.775494834533
C284	C	0.152634267211	0.230076031834	0.224505165467
C285	C	0.956121582312	0.688784853398	0.762056556732
C286	C	0.043878417688	0.188784853398	0.237943443268
C287	C	0.980999226449	0.722894546929	0.794908216757
C288	C	0.019000773551	0.222894546929	0.205091783243
C289	C	0.004449461709	0.687055926412	0.734194409629
C290	C	0.995550538291	0.187055926412	0.265805590371
C291	C	0.033995080068	0.678972749489	0.810910893825
C292	C	0.966004919932	0.178972749489	0.189089106175
C293	C	0.772126350789	0.653332242257	0.805907606296
C294	C	0.227873649211	0.153332242257	0.194092393703
C295	C	0.804354674215	0.598536066809	0.829573804392
C296	C	0.195645325785	0.098536066809	0.170426195608
C297	C	0.710115373663	0.616840762713	0.795756210169

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C299	C	0.674925234206	0.662149630834	0.769207217869
C300	C	0.325074765794	0.162149630834	0.230792782131
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C302	C	0.330889632230	0.103071063784	0.173389458678
C303	C	0.631871537263	0.612120519023	0.748989116440
C304	C	0.368128462737	0.112120519023	0.251010883560
C305	C	0.817479121501	0.562274294268	0.888359970444
C306	C	0.182520878499	0.062274294268	0.111640029555
C307	C	0.761514311710	0.553400116941	0.911579263106
C308	C	0.238485688290	0.053400116941	0.088420736894
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C310	C	0.123477516342	0.085479632716	0.092167797947
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C312	C	0.130529698045	0.162055014903	0.074653805479
C313	C	0.932416279344	0.581382223619	0.884323944935
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C317	C	0.706063458037	0.478135138608	0.952914815061
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C320	C	0.278246257783	0.015559451276	0.013335158761
C321	C	0.697589876135	0.392611677596	0.955450459064
C322	C	0.302410123865	0.892611677596	0.044549540936
C323	C	0.760224246299	0.360518491319	0.944854714434
C324	C	0.239775753701	0.860518491319	0.055145285566
C325	C	0.783895603140	0.415082555393	0.918102717583
C326	C	0.216104396860	0.915082555393	0.081897282417
C327	C	0.799969192222	0.576469154867	0.020622427251
C328	C	0.200030807778	0.076469154867	0.979377572749
C329	C	0.792712738599	0.660594179132	0.013174154160
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C332	C	0.182342496343	0.289040056325	0.967309381410
C333	C	0.881070197794	0.822310720299	0.041389718404
C334	C	0.118929802206	0.322310720299	0.958610281596
C335	C	0.766467253787	0.824532095464	0.053684808626
C336	C	0.233532746213	0.324532095464	0.946315191374
C337	C	0.992952492915	0.798487568229	0.042241623012
C338	C	0.007047507085	0.298487568229	0.957758376988
C339	C	0.028098561413	0.781310011453	0.009973199787
C340	C	0.971901438587	0.281310011453	0.990026800213
C341	C	0.019982684353	0.761242734865	0.073802191196
C342	C	0.980017315647	0.261242734865	0.926197808804
C343	C	0.085427571714	0.785942992952	0.080948532338
C344	C	0.914572428286	0.285942992952	0.919051467662
C345	C	0.062407940036	0.836912714542	0.957039170203
C346	C	0.937592059964	0.336912714542	0.042960829797
C347	C	0.132334212003	0.830702270093	0.961748637746
C348	C	0.867665787997	0.330702270093	0.038251362254
C349	C	0.048075277724	0.908549720443	0.937469312094
C350	C	0.951924722276	0.408549720443	0.062530687906
C351	C	0.230325395432	0.782026617913	0.941965889408
C352	C	0.769674604568	0.282026617913	0.058034110592
C353	C	0.261002161645	0.855214023207	0.930241618262
C354	C	0.738997838355	0.355214023207	0.069758381738
C355	C	0.244747979398	0.716004827930	0.918188216172
C356	C	0.755252020602	0.216004827930	0.081811783828
C357	C	0.195482484079	0.724170565351	0.891051485501
C358	C	0.804517515921	0.224170565351	0.108948514498
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C360	C	0.861855685466	0.247162548800	0.089265447806

C361	C	0.356744248901	0.927492316028	0.929598337055
C362	C	0.643255751099	0.427492316028	0.070401662945
C363	C	0.366469193059	0.940958531243	0.892098952724
C364	C	0.633530806941	0.440958531243	0.107901047276
C365	C	0.358603041261	0.889311371696	0.834835688376
C366	C	0.641396958739	0.389311371696	0.165164311624
C367	C	0.295162547165	0.904589462925	0.819172447863
C368	C	0.704837452835	0.404589462925	0.180827552137
C369	C	0.392877153085	0.823529888702	0.818683152512
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C371	C	0.369258915492	0.744651280940	0.826879893133
C372	C	0.630741084508	0.244651280940	0.173120106867
C373	C	0.185533637653	0.932454073514	0.829714507479
C374	C	0.814466362347	0.432454073514	0.170285492521
C375	C	0.163804284886	0.990795244846	0.855348580076
C376	C	0.836195715114	0.490795244847	0.144651419924
C377	C	0.139095282753	0.868704508647	0.824996566280
C378	C	0.860904717247	0.368704508647	0.175003433720
C379	C	0.155466932977	0.818910174688	0.795872421252
C380	C	0.844533067023	0.318910174688	0.204127578748
C381	C	0.204907473667	0.768520623331	0.797326840276
C382	C	0.795092526333	0.268520623331	0.202673159724
C383	C	0.123739124146	0.825619069762	0.765582751794
C384	C	0.876260875854	0.325619069762	0.234417248206
C385	C	0.222236498304	0.727180307548	0.769361054805
C386	C	0.777763501696	0.227180307548	0.230638945195
C387	C	0.139843394877	0.783555545332	0.737418900907
C388	C	0.860156605123	0.283555545332	0.262581099093
C389	C	0.189141828705	0.733492016209	0.739370036353
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C391	C	0.197236943956	0.103551054450	0.885313901892
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C393	C	0.150740711852	0.165839261192	0.878124557013
C394	C	0.849259288148	0.665839261192	0.121875442987
C395	C	0.261017118520	0.137051878869	0.892298119470
C396	C	0.738982881480	0.637051878869	0.107701880530
C397	C	0.092827455112	0.233957859579	0.835642960395
C398	C	0.907172544888	0.733957859579	0.164357039604
C399	C	0.024691853496	0.212748750420	0.830670665550
C400	C	0.975308146504	0.712748750420	0.169329334450
C401	C	0.122810933772	0.268811140786	0.804322889002
C402	C	0.877189066228	0.768811140786	0.195677110997
C403	C	0.191699966870	0.279579083287	0.809815726470
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N3	N	0.728583467397	0.882997056067	0.866841802912
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N5	N	0.877813944435	0.915557136454	0.833179513374
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N7	N	0.002248365501	0.021594412760	0.799584777492
N8	N	0.997751634499	0.521594412760	0.200415222508
N9	N	0.126189885208	0.024201017104	0.739948156215
N10	N	0.873810114792	0.524201017104	0.260051843785
N11	N	0.182397189073	0.154968103685	0.721050451058
N12	N	0.817602810928	0.654968103685	0.278949548942
N13	N	0.159812706914	0.353405683486	0.729249725470
N14	N	0.840187293086	0.853405683486	0.270750274529
N15	N	0.103260831005	0.424174977746	0.671896161995
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N17	N	0.058630137097	0.293043013356	0.641376489430
N18	N	0.941369862903	0.793043013356	0.358623510570
N19	N	0.967087233686	0.265804352289	0.690200656741

N20	N	0.032912766314	0.765804352289	0.309799343258
N21	N	0.863973431339	0.230384579330	0.803127699337
N22	N	0.136026568661	0.730384579330	0.196872300663
N23	N	0.779595908864	0.151714644602	0.810209675189
N24	N	0.220404091136	0.651714644602	0.189790324811
N25	N	0.875637547278	0.118719852079	0.831566888636
N26	N	0.124362452722	0.618719852079	0.168433111364
N27	N	0.900149742767	0.400684277218	0.675400492922
N28	N	0.099850257233	0.900684277218	0.324599507078
N29	N	0.856984980832	0.371939357721	0.609911491191
N30	N	0.143015019168	0.871939357721	0.390088508809
N31	N	0.972421662924	0.315911962980	0.530484867401
N32	N	0.027578337076	0.815911962980	0.469515132599
N33	N	0.791734947030	0.242926714388	0.623812884578
N34	N	0.208265052971	0.742926714388	0.376187115422
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N37	N	0.727923386192	0.427380901862	0.751195931861
N38	N	0.272076613809	0.927380901862	0.248804068139
N39	N	0.632129265336	0.386072961952	0.622124493481
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N41	N	0.596989025532	0.269676241845	0.575819886357
N42	N	0.403010974468	0.769676241845	0.424180113643
N43	N	0.517491162854	0.198156599079	0.620961351580
N44	N	0.482508837146	0.698156599079	0.379038648419
N45	N	0.461732151455	0.051265923514	0.724906282175
N46	N	0.538267848545	0.551265923514	0.275093717824
N47	N	0.387279774285	0.963580014093	0.709164489146
N48	N	0.612720225715	0.463580014093	0.290835510854
N49	N	0.393891737418	0.002921886090	0.764097084205
N50	N	0.606108262583	0.502921886090	0.235902915795
N51	N	0.420937640423	0.303338422265	0.625226157217
N52	N	0.579062359577	0.803338422265	0.374773842783
N53	N	0.314320324024	0.281488178982	0.580902291397
N54	N	0.685679675976	0.781488178982	0.419097708603
N55	N	0.275351681189	0.154087080217	0.613880974187
N56	N	0.724648318811	0.654087080217	0.386119025813
N57	N	0.333209699717	0.021681300940	0.599542182959
N58	N	0.666790300283	0.521681300940	0.400457817040
N59	N	0.385326212530	0.841970035085	0.622441506251
N60	N	0.614673787470	0.341970035085	0.377558493749
N61	N	0.493342453349	0.826957752231	0.690029625175
N62	N	0.506657546652	0.326957752231	0.309970374825
N63	N	0.575232308047	0.706067614724	0.679464200450
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N65	N	0.588747859938	0.696614282888	0.608450566003
N66	N	0.411252140062	0.196614282888	0.391549433997
N67	N	0.632858304425	0.843263537594	0.598657478118
N68	N	0.367141695575	0.343263537594	0.401342521882
N69	N	0.745108064053	0.824222101365	0.629992192832
N70	N	0.254891935948	0.324222101365	0.370007807168
N71	N	0.808886337642	0.712677693829	0.588073412062
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N73	N	0.814045991815	0.809370172822	0.533096482621
N74	N	0.185954008185	0.309370172822	0.466903517379
N75	N	0.882878519508	0.939083037877	0.554508885505
N76	N	0.117121480492	0.439083037877	0.445491114495
N77	N	0.984329159071	0.894620615764	0.593220882368
N78	N	0.015670840929	0.394620615764	0.406779117632
N79	N	0.969447675726	0.904964504757	0.662903961424
N80	N	0.030552324274	0.404964504757	0.337096038576
N81	N	0.909229938955	0.804595955981	0.736938431092
N82	N	0.090770061045	0.304595955981	0.263061568907

N83	N	0.811768086412	0.668620378355	0.777317785577
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N85	N	0.801357583170	0.615142160778	0.862129338035
N86	N	0.198642416830	0.115142160778	0.137870661965
N87	N	0.754251027016	0.486942745901	0.927291931428
N88	N	0.245748972985	0.986942745901	0.072708068572
N89	N	0.781586811807	0.531458112630	0.992525232086
N90	N	0.218413188193	0.031458112630	0.007474767914
N91	N	0.819562372994	0.707522965579	0.035207243753
N92	N	0.180437627006	0.207522965579	0.964792756247
N93	N	0.929443008830	0.776209678817	0.036463094456
N94	N	0.070556991170	0.276209678817	0.963536905544
N95	N	0.032544357228	0.840249239309	0.989361791568
N96	N	0.967455642772	0.340249239309	0.010638208432
N97	N	0.163466603854	0.788302967861	0.939769093117
N98	N	0.836533396146	0.288302967861	0.060230906883
N99	N	0.321082854883	0.861592011329	0.938410265102
N100	N	0.678917145117	0.361592011329	0.061589734898
N101	N	0.356608711443	0.882749293929	0.871150900674
N102	N	0.643391288557	0.382749293929	0.128849099326
N103	N	0.246603205770	0.907526811050	0.839894512201
N104	N	0.753396794230	0.407526811050	0.160105487799
N105	N	0.202137060563	0.049203027521	0.858510012451
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O1	O	0.747949308550	0.757735045431	0.869506857597
O2	O	0.252050691450	0.257735045431	0.130493142403
O3	O	0.691615746532	0.795629061569	0.972300495803
O4	O	0.308384253468	0.295629061569	0.027699504197
O5	O	0.826390069803	0.989607342012	0.870950945112
O6	O	0.173609930198	0.489607342012	0.129049054888
O7	O	0.699039299891	0.993749691967	0.819199957305
O8	O	0.300960700109	0.493749691967	0.180800042695
O9	O	0.955607982911	0.917162376759	0.779720105512
O10	O	0.044392017089	0.417162376759	0.220279894488
O11	O	0.122920510577	0.075029140035	0.791977674852
O12	O	0.877079489423	0.575029140035	0.208022325148
O13	O	0.277197174639	0.112437986904	0.736091906720
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3) CRAMBIN CRYSTAL – optimized 172W

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H44	H	0.999056841988	0.488190471288	0.275290222919
H45	H	0.987266326789	0.160563075781	0.791249578317
H46	H	0.011180295239	0.648558004356	0.251959969426
H47	H	0.005440689246	0.136501316383	0.749556399669
H48	H	0.997284142109	0.625305978603	0.294166262991
H49	H	0.197843494279	0.005805788381	0.780693644290
H50	H	0.801658790431	0.496445520429	0.269756407269
H51	H	0.234565208797	0.983487351265	0.716007204795
H52	H	0.771013742633	0.476302499782	0.335707071060
H53	H	0.191894231073	0.916018639732	0.737301692676
H54	H	0.811009986605	0.408244864710	0.313258402060
H55	H	0.139929195226	0.034008753081	0.689517017530
H56	H	0.867882867352	0.524700027166	0.360134764294
H57	H	0.130930884900	0.937754825985	0.685875975631
H58	H	0.877095542092	0.428528614038	0.362125010906
H59	H	0.045719041872	0.020632478688	0.718069482457
H60	H	0.958777040875	0.513886739929	0.328064000478
H61	H	0.067142235963	0.933052160708	0.735056066134
H62	H	0.936727058939	0.425861937192	0.311858439169
H63	H	0.120679204923	0.142334529034	0.736887908919
H64	H	0.882195207249	0.633942673079	0.311344712448
H65	H	0.217704056322	0.243389176056	0.753480898872
H66	H	0.785954489604	0.733612578253	0.293926972593
H67	H	0.232547331951	0.296972338092	0.700215790064
H68	H	0.771428162518	0.794631050305	0.345265679978
H69	H	0.243044996338	0.201247797352	0.695122848564
H70	H	0.758698267752	0.700280161962	0.352619112582
H71	H	0.180978965816	0.267381264549	0.655246537956
H72	H	0.821185193133	0.768635433140	0.391599119710

H73	H	0.187109746272	0.366218731155	0.747252556614
H74	H	0.817036216942	0.855276294581	0.297880577662
H75	H	0.062576296472	0.386224598885	0.768235011218
H76	H	0.938684940036	0.879405058760	0.274569671098
H77	H	0.166728049983	0.488750685799	0.750897911720
H78	H	0.839765876817	0.980005035362	0.301752028891
H79	H	0.096686100973	0.451586652653	0.814786357097
H80	H	0.881947721241	0.946581397659	0.230158250293
H81	H	0.168932150082	0.417798260231	0.804431842542
H82	H	0.815819002300	0.912156082690	0.248920505166
H83	H	0.073951909819	0.555185936254	0.731976128930
H84	H	0.938173276025	0.042338234717	0.310744832617
H85	H	0.105115399470	0.594695006770	0.768777454517
H86	H	0.895109591906	0.084914614299	0.278479675342
H87	H	0.039405483929	0.537812143648	0.771365430000
H88	H	0.957624898857	0.027813845236	0.268001947409
H89	H	0.212719084269	0.544937408293	0.809145128572
H90	H	0.780583567295	0.047217610078	0.255809546894
H91	H	0.178425771932	0.515818431892	0.847011031218
H92	H	0.782815889280	0.013086660908	0.214185659638
H93	H	0.141216119020	0.580466433348	0.820639016648
H94	H	0.840827838748	0.072619265646	0.228666427311
H95	H	0.130902736964	0.420416406572	0.686802540599
H96	H	0.875892470176	0.913599038201	0.357421935059
H97	H	0.011734751532	0.468037336969	0.662359135822
H98	H	0.995813525321	0.959327692151	0.380432140780
H99	H	0.127392444277	0.422184841877	0.628255014866
H100	H	0.878431488770	0.922455084385	0.414732411259
H101	H	0.047625463566	0.364970278576	0.591784433808
H102	H	0.952663305742	0.869531567858	0.454673430574
H103	H	0.080335769099	0.442618769712	0.572068518467
H104	H	0.923293892412	0.953246895703	0.470351146040
H105	H	0.007081521583	0.448891240849	0.590183608520
H106	H	0.997592494122	0.951202886359	0.453317661753
H107	H	0.116116100022	0.553098587360	0.605625799416
H108	H	0.890822808542	0.056708793152	0.432435082022
H109	H	0.118067426553	0.550702516544	0.650324784369
H110	H	0.892534920232	0.046736031789	0.387964106135
H111	H	0.048018379846	0.562215822468	0.628466019404
H112	H	0.960842543588	0.059705670519	0.411235734367
H113	H	0.076552985998	0.286391590287	0.671106830481
H114	H	0.929286121247	0.778904858627	0.374908413953
H115	H	0.977496449189	0.217400393230	0.634660477191
H116	H	0.028588726682	0.711520883966	0.411843708756
H117	H	0.068119725613	0.146072242480	0.650135554286
H118	H	0.936414437829	0.638930719804	0.395417389926
H119	H	0.003007745089	0.105635772579	0.668092797848
H120	H	0.002433087337	0.598114146665	0.378778039695
H121	H	0.054184967276	0.158834658162	0.693761097000
H122	H	0.953287146347	0.651323261430	0.352136941004
H123	H	0.990733418512	0.281182880200	0.720186663246
H124	H	0.016057814407	0.770243953996	0.325140776401
H125	H	0.870191436573	0.238778741324	0.739324192092
H126	H	0.138735112473	0.726666757718	0.308940312368
H127	H	0.947596844138	0.278727239215	0.780970634396
H128	H	0.065380409063	0.759706894010	0.264046378937
H129	H	0.954025459210	0.365277724760	0.761133239339
H130	H	0.055556205091	0.848372453574	0.281434886405
H131	H	0.896602943411	0.383126445668	0.810996952023
H132	H	0.117856784271	0.864355518911	0.233849944877
H133	H	0.848868369190	0.399044842457	0.776468058831
H134	H	0.163357597699	0.881218812565	0.269203181879
H135	H	0.793461091096	0.334327470159	0.818416383925

H136	H	0.223684794381	0.815826625589	0.230745519996
H137	H	0.801132635813	0.273659843229	0.783907981658
H138	H	0.208651531038	0.751541032541	0.262910303103
H139	H	0.900206476507	0.255666027539	0.832613333555
H140	H	0.115134760534	0.738952703929	0.211898733518
H141	H	0.742006604689	0.212791475944	0.829770364305
H142	H	0.276413862680	0.710030879130	0.209690773428
H143	H	0.755072330454	0.118248171908	0.835098342551
H144	H	0.267092777462	0.616025117088	0.200071268877
H145	H	0.910315411223	0.144811892571	0.855100571738
H146	H	0.107309681896	0.629195404620	0.187358692859
H147	H	0.847208602309	0.092745534565	0.864431562333
H148	H	0.172185054148	0.587314301821	0.172090318944
H149	H	0.923751073765	0.410237649518	0.702640609792
H150	H	0.079178664072	0.898376600447	0.341966773424
H151	H	0.806173626750	0.474930267195	0.701090043643
H152	H	0.192933074555	0.969316492475	0.343284281513
H153	H	0.903964335016	0.492749079059	0.647687111766
H154	H	0.097523066853	0.982916128183	0.398338757829
H155	H	0.840904060360	0.552232516384	0.655179982957
H156	H	0.155529095525	0.047532060143	0.387806706527
H157	H	0.927979922568	0.596325285803	0.680976513214
H158	H	0.067534815712	0.083645693681	0.364367315886
H159	H	0.876729335010	0.357232591298	0.640368271685
H160	H	0.130874233716	0.851705357289	0.408012024205
H161	H	0.774866250242	0.356407422261	0.594615516049
H162	H	0.245855115732	0.864727358945	0.445673034966
H163	H	0.873805317350	0.240626358492	0.607668258318
H164	H	0.135774880955	0.766444173320	0.456831480086
H165	H	0.819414232697	0.237284316201	0.574634826385
H166	H	0.205137363335	0.760195782695	0.480191003966
H167	H	0.944630772786	0.240576711945	0.564592994439
H168	H	0.071101905827	0.831149945649	0.486895318681
H169	H	0.956224550418	0.316435653447	0.537469829818
H170	H	0.086012331583	0.912798124512	0.509017513924
H171	H	0.811658481900	0.238137777927	0.664985292092
H172	H	0.195123463547	0.740647509949	0.381564819375
H173	H	0.712583692696	0.139923916176	0.656841326675
H174	H	0.293039284367	0.639359394648	0.391624744701
H175	H	0.802049605268	0.130321833842	0.697285945902
H176	H	0.203800820137	0.624012566391	0.351466180756
H177	H	0.768988629651	0.198962269120	0.722600335868
H178	H	0.235602376933	0.691238475515	0.324943522491
H179	H	0.672925758034	0.168886323802	0.754595809227
H180	H	0.331859923655	0.662375587558	0.293630268937
H181	H	0.760956391763	0.007362050797	0.692569319510
H182	H	0.247435367814	0.501332397528	0.357505958128
H183	H	0.610498439414	0.070551878362	0.779817517646
H184	H	0.395712742101	0.564210961692	0.269449146252
H185	H	0.697587899979	0.907677846018	0.717962634814
H186	H	0.314272442808	0.403192411879	0.333930713873
H187	H	0.622588308866	0.939812436174	0.761259042883
H188	H	0.388718893379	0.435655224328	0.290051964342
H189	H	0.718171013611	0.312060496721	0.702954798217
H190	H	0.286382940556	0.807023929044	0.342974785853
H191	H	0.593353291904	0.294434899178	0.722454970107
H192	H	0.411757028960	0.797055473295	0.323782546160
H193	H	0.666414974658	0.438854313489	0.716820965385
H194	H	0.327532682388	0.931387066620	0.329452605318
H195	H	0.594801601436	0.427254939376	0.735641575761
H196	H	0.401956268856	0.934038348995	0.313772393102
H197	H	0.718123830554	0.475822339217	0.764721920235
H198	H	0.293853761767	0.974157359096	0.277475808172

H199	H	0.717457432925	0.422647860237	0.802115484290
H200	H	0.303939597045	0.923946385466	0.239583918249
H201	H	0.657407167391	0.375613941337	0.648956643850
H202	H	0.342991019402	0.878294917283	0.397117444917
H203	H	0.540010261644	0.429272262515	0.624574748521
H204	H	0.458455902265	0.932250893796	0.422972000161
H205	H	0.660172018080	0.394415915034	0.591442321770
H206	H	0.339743295591	0.890111552001	0.456247033749
H207	H	0.617562639046	0.454305002725	0.539010900019
H208	H	0.381014530527	0.951584015995	0.508577294163
H209	H	0.544141679343	0.451149000679	0.556509281281
H210	H	0.454242012869	0.951570959737	0.490897671882
H211	H	0.583211142343	0.367958847968	0.547835013114
H212	H	0.417447006203	0.866699092821	0.499432811025
H213	H	0.664169013252	0.532746165313	0.585157078046
H214	H	0.331018567764	0.027570859817	0.463852436457
H215	H	0.655352420308	0.507779222619	0.627624413839
H216	H	0.338928896617	0.005554226039	0.420993074778
H217	H	0.591937091267	0.539765422947	0.604034911918
H218	H	0.402083692654	0.039861619525	0.444250237995
H219	H	0.622022243134	0.260209183408	0.611017985991
H220	H	0.380871470533	0.759357257969	0.436259424885
H221	H	0.534233639294	0.193579122532	0.567175337314
H222	H	0.472803422731	0.697999228117	0.479501557439
H223	H	0.637489632457	0.146051414384	0.577432338081
H224	H	0.370025466706	0.646935906913	0.472623560265
H225	H	0.622471203809	0.131887182144	0.620699543650
H226	H	0.381193792629	0.631311039119	0.429111082457
H227	H	0.536165905695	0.205752686787	0.656672903498
H228	H	0.464836072669	0.708637110250	0.390108323511
H229	H	0.427788302201	0.115625283134	0.662066749078
H230	H	0.575525361779	0.623479902612	0.383621155949
H231	H	0.490779220971	0.223437360545	0.710813465606
H232	H	0.501977025523	0.720952230559	0.335230489897
H233	H	0.429537350466	0.167558753279	0.721998299429
H234	H	0.567912812235	0.674164042909	0.323032743837
H235	H	0.548236062837	0.102960605071	0.694868091075
H236	H	0.458158698571	0.595173042861	0.353884484468
H237	H	0.536773931306	0.122089520862	0.737441687678
H238	H	0.465056984181	0.610830150284	0.310827430410
H239	H	0.453589767140	0.019224240878	0.695879566463
H240	H	0.558113136773	0.524041845195	0.353460124267
H241	H	0.517605664901	0.988537400682	0.718717612501
H242	H	0.497561006933	0.483691751400	0.330825296636
H243	H	0.468094669836	0.050484816053	0.769965027622
H244	H	0.544576999995	0.552856096337	0.279469386564
H245	H	0.382315353942	0.949798697969	0.706897338250
H246	H	0.623685412873	0.445937517796	0.342823355170
H247	H	0.331993690529	0.920497610321	0.737823300914
H248	H	0.674280892775	0.414532222901	0.312383146028
H249	H	0.402104490108	0.020486031416	0.803958202836
H250	H	0.611655168690	0.515195258682	0.245273407147
H251	H	0.338615610338	0.964311109612	0.792959699311
H252	H	0.669781481683	0.454617138362	0.256933230088
H253	H	0.440885450419	0.299613528174	0.636859434152
H254	H	0.557896330513	0.806700795780	0.407234629245
H255	H	0.334991102685	0.352451695090	0.670143337259
H256	H	0.662574586382	0.863172866284	0.374972992227
H257	H	0.393590524073	0.397729627218	0.603818662758
H258	H	0.598209299518	0.899782187279	0.440416297864
H259	H	0.330219901558	0.442678068482	0.620937229067
H260	H	0.666451300273	0.944651153401	0.430173411924
H261	H	0.454846898015	0.431614675098	0.654822119771

H262	H	0.553185016129	0.945659372093	0.385231496389
H263	H	0.451888970942	0.509799459137	0.603200698283
H264	H	0.535896092688	0.007331861180	0.440207836555
H265	H	0.460971242237	0.566190304741	0.639495661702
H266	H	0.539875189606	0.074653994564	0.407737174952
H267	H	0.389463120155	0.560143578638	0.618887229450
H268	H	0.602368828472	0.061044752105	0.435492969698
H269	H	0.413455275954	0.526450056161	0.695132037118
H270	H	0.607267500804	0.050966051325	0.356569360676
H271	H	0.377856695202	0.439827758351	0.699063049695
H272	H	0.647266750267	0.967573308490	0.352508695364
H273	H	0.340205280244	0.512932143732	0.677401193941
H274	H	0.671823049745	0.034272613928	0.382412908523
H275	H	0.204790195943	0.267911537552	0.587081028601
H276	H	0.793036767901	0.768877482199	0.455657132609
H277	H	0.236649897652	0.156834697373	0.542591460047
H278	H	0.761209366477	0.675776217414	0.506052868943
H279	H	0.246754241259	0.251273839844	0.533065714306
H280	H	0.748069447578	0.771248909587	0.509511543030
H281	H	0.341793713084	0.144500813112	0.560699589062
H282	H	0.655406528389	0.656276567821	0.486481850459
H283	H	0.348156442290	0.207692951211	0.526698100832
H284	H	0.647891411713	0.722979033512	0.518955911900
H285	H	0.391653872943	0.244279466020	0.589525486601
H286	H	0.605077709093	0.752996403746	0.455267859466
H287	H	0.355292345248	0.312383884205	0.564167278303
H288	H	0.641798709352	0.823530061019	0.478903612957
H289	H	0.292061178946	0.168734975489	0.640528207486
H290	H	0.709011344764	0.678725136921	0.401570746125
H291	H	0.251473698117	0.086843993290	0.678745981460
H292	H	0.737390268636	0.585857949561	0.367377468589
H293	H	0.192528304966	0.062226758893	0.649496935176
H294	H	0.804550541597	0.571798891204	0.392229084049
H295	H	0.322340337355	0.051444404868	0.606847254391
H296	H	0.667809346992	0.561895706653	0.434582648580
H297	H	0.324316577542	0.903753654298	0.594864425456
H298	H	0.680012018104	0.414606389699	0.457122113975
H299	H	0.436595145937	0.996557331311	0.610093921869
H300	H	0.563710357641	0.494455421694	0.437053910531
H301	H	0.413135287896	0.064150606924	0.570708268127
H302	H	0.581898732756	0.570933874898	0.473808465795
H303	H	0.462115758738	0.869082386259	0.597027821908
H304	H	0.542826409021	0.368258977715	0.452454476532
H305	H	0.479939476981	0.924056312087	0.561420874370
H306	H	0.521659558948	0.424055206824	0.487210153082
H307	H	0.413560473424	0.868408789905	0.560583396039
H308	H	0.590292748172	0.373114646646	0.489244010711
H309	H	0.365944284307	0.800514985405	0.696957939170
H310	H	0.644672919211	0.294836210776	0.357591291479
H311	H	0.427370458589	0.691171115078	0.649879214652
H312	H	0.583042424257	0.190063046574	0.406432379838
H313	H	0.385833491516	0.671807196708	0.687454295474
H314	H	0.626370897281	0.167138556497	0.370304366483
H315	H	0.326057742578	0.657756728623	0.627613299196
H316	H	0.682659664600	0.162002058981	0.431824576183
H317	H	0.291257302173	0.707454912579	0.660624918031
H318	H	0.719823763168	0.206948717053	0.398249184746
H319	H	0.353835723749	0.771316179984	0.599264393516
H320	H	0.652810805753	0.278767478260	0.456153874871
H321	H	0.286640625942	0.801390769218	0.619683179428
H322	H	0.720733012555	0.307479310269	0.436070055459
H323	H	0.441723718127	0.797001805341	0.733024527021
H324	H	0.570814250174	0.286985361237	0.321480385946

H325	H	0.553071594068	0.873989813506	0.718952274853
H326	H	0.462009022713	0.373046142568	0.334282208658
H327	H	0.528393987430	0.755142783245	0.772025089028
H328	H	0.484921100209	0.254981734952	0.280885480072
H329	H	0.593568423049	0.810157627753	0.770050689768
H330	H	0.424184914778	0.317438749260	0.280925771801
H331	H	0.526501805350	0.924975316132	0.778091012502
H332	H	0.495720034878	0.424087896708	0.273450852065
H333	H	0.464195391833	0.865459203215	0.782539981100
H334	H	0.557781175373	0.363540676473	0.276418355656
H335	H	0.520743288527	0.677161329696	0.716280520392
H336	H	0.486562955909	0.173716865703	0.336173969828
H337	H	0.640626376640	0.638973745360	0.702906258341
H338	H	0.361895230258	0.144844889362	0.345987634628
H339	H	0.560272774164	0.548283633230	0.716058940156
H340	H	0.438076990755	0.048755309238	0.332573175099
H341	H	0.598015139265	0.523060885263	0.678447029947
H342	H	0.395365085387	0.024484600126	0.368623917139
H343	H	0.524578964118	0.563423145074	0.676348541740
H344	H	0.471113940545	0.056954290738	0.373473008022
H345	H	0.532750261757	0.707456174454	0.643337224002
H346	H	0.469066910007	0.207222316747	0.406948443709
H347	H	0.613766484475	0.673573958083	0.586431771978
H348	H	0.384958377977	0.175275245773	0.462637178932
H349	H	0.493972801074	0.756647377171	0.593850633913
H350	H	0.505782696471	0.257825089596	0.457208199101
H351	H	0.535915661339	0.763081938006	0.556540980160
H352	H	0.462856966319	0.260319226310	0.494281477714
H353	H	0.495139951788	0.615540011853	0.586042587071
H354	H	0.504222720991	0.115672433314	0.462367407084
H355	H	0.403164304905	0.687297903810	0.573457484944
H356	H	0.596204779480	0.186830367526	0.475056890076
H357	H	0.410873304722	0.617518114971	0.542605354270
H358	H	0.589645479773	0.115432076214	0.505294386987
H359	H	0.429705459187	0.710662621253	0.532813802553
H360	H	0.570911335895	0.208003605877	0.516133197424
H361	H	0.514312767201	0.567213254670	0.528066211005
H362	H	0.486921018181	0.063519202152	0.519949797982
H363	H	0.580997524561	0.605119946434	0.545820860356
H364	H	0.419628736499	0.101137389391	0.502705560163
H365	H	0.539230981769	0.655760063712	0.515281676279
H366	H	0.461128167212	0.150797281360	0.533862622752
H367	H	0.577288348530	0.827335185885	0.639599890244
H368	H	0.428683268364	0.329465913974	0.411176402382
H369	H	0.658921010665	0.921283428206	0.601819240817
H370	H	0.347331740178	0.426567880317	0.447494238724
H371	H	0.610923965903	0.935108536540	0.673731377748
H372	H	0.397522253836	0.437382470340	0.375892578784
H373	H	0.655824924140	0.002451419502	0.653430967060
H374	H	0.353059897498	0.506031017842	0.395398168972
H375	H	0.686304650262	0.793400949424	0.668081223693
H376	H	0.322329721426	0.300701054770	0.380371169119
H377	H	0.811753726995	0.833160716350	0.677295473569
H378	H	0.199353400880	0.347121005678	0.367149896069
H379	H	0.760537990045	0.752441300362	0.718146853933
H380	H	0.256564354427	0.268050973396	0.327531274684
H381	H	0.820194335863	0.701814487352	0.699116800320
H382	H	0.189402987985	0.222438230415	0.341034032134
H383	H	0.743807829146	0.686043135541	0.686317623520
H384	H	0.260974552880	0.195863970048	0.357911509744
H385	H	0.745292473654	0.695367248893	0.619586888540
H386	H	0.256140672214	0.199788677162	0.423359522571
H387	H	0.867525572026	0.671805606834	0.593290713022

H388	H	0.132477900911	0.178834251632	0.445532147958
H389	H	0.817274995804	0.614585080757	0.544746250300
H390	H	0.176968936870	0.119199934292	0.495879164116
H391	H	0.718060487309	0.601585610117	0.544086496653
H392	H	0.277044843457	0.100424839897	0.496972914551
H393	H	0.847364958016	0.534537632761	0.592693510402
H394	H	0.146775989593	0.044657978270	0.448114353869
H395	H	0.780599143515	0.502504877601	0.573085473794
H396	H	0.214115515164	0.008014770689	0.465498369060
H397	H	0.775536398388	0.550308539955	0.612143296192
H398	H	0.217828032860	0.060099352570	0.427566610103
H399	H	0.749647420165	0.802193163501	0.572532626646
H400	H	0.251022122121	0.301244245531	0.474907552944
H401	H	0.812341763128	0.847404994321	0.513541362782
H402	H	0.184878461698	0.347194174815	0.532506552463
H403	H	0.703802961591	0.879259874763	0.527385825392
H404	H	0.294056650300	0.377599764352	0.520121641865
H405	H	0.729988996558	0.941871670157	0.558172015358
H406	H	0.270297576869	0.438087855485	0.487975867745
H407	H	0.757039243643	0.896327910992	0.466825709568
H408	H	0.248389820774	0.401144269477	0.580050350375
H409	H	0.746979180504	0.068771156131	0.540846306155
H410	H	0.247034028577	0.566306025786	0.502360653810
H411	H	0.780876415120	0.987533157085	0.423349136610
H412	H	0.230457958392	0.496894507273	0.622685126212
H413	H	0.772747393342	0.161248195780	0.496935273538
H414	H	0.228313695704	0.663144974389	0.545461727945
H415	H	0.789841702876	0.112264252279	0.411309532478
H416	H	0.219325300426	0.619626016634	0.632810879832
H417	H	0.828044597108	0.913264345718	0.596802854390
H418	H	0.182966736217	0.424377573757	0.449733506012
H419	H	0.910990027340	0.029764699779	0.572681520829
H420	H	0.097682632081	0.537994251369	0.471611274729
H421	H	0.900641241878	0.080480214453	0.630248017615
H422	H	0.097715587043	0.577447153869	0.412237836393
H423	H	0.821278340983	0.961994028273	0.645295758834
H424	H	0.181614663076	0.462131131697	0.399627141141
H425	H	0.821061753491	0.110740676671	0.586553439463
H426	H	0.177192879849	0.622611424784	0.452586451980
H427	H	0.795358561124	0.115671794842	0.628566789139
H428	H	0.201158371145	0.619640336976	0.410387227859
H429	H	0.774579182353	0.038786463665	0.602854383940
H430	H	0.226731876508	0.550625998281	0.439237575606
H431	H	0.925831607137	0.859688982753	0.609519913998
H432	H	0.083536574409	0.367154917214	0.430271688602
H433	H	0.014417009473	0.800780765740	0.627359437063
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H435	H	0.054034321626	0.885988175470	0.628549031523
H436	H	0.951779539293	0.393936275815	0.418745693621
H437	H	0.925449131545	0.923616500988	0.667518892035
H438	H	0.076838001794	0.425454088626	0.377681186427
H439	H	0.976029670541	0.910094456290	0.735907512187
H440	H	0.025565416669	0.406241444110	0.309811779405
H441	H	0.845486127457	0.939090409398	0.711741468703
H442	H	0.157163318469	0.432497874880	0.332808885365
H443	H	0.874122294846	0.949837101708	0.753263412183
H444	H	0.128021416052	0.439162393478	0.291263119140
H445	H	0.918248780015	0.845376330925	0.777814204223
H446	H	0.071944673267	0.334032743831	0.269491658303
H447	H	0.874707818873	0.700785694411	0.751291383018
H448	H	0.117438647988	0.192029905694	0.297530526579
H449	H	0.936201021966	0.636477093691	0.792226643562
H450	H	0.052130831823	0.123516582463	0.261085683018

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H452	H	0.996047723263	0.266927895614	0.234920349281
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H454	H	0.049423749796	0.213822658798	0.212979642084
H455	H	0.038914204742	0.667024755100	0.766838381490
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H458	H	0.987596606339	0.242426389344	0.302414182040
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H463	H	0.041143281398	0.706194794082	0.859146069776
H464	H	0.946717111368	0.182888217450	0.191735070170
H465	H	0.068201187650	0.681326202649	0.819067845974
H466	H	0.922335520961	0.160409330263	0.232493871120
H467	H	0.821390281368	0.630637272400	0.788783840959
H468	H	0.164951339964	0.117371147563	0.258589993304
H469	H	0.767981155008	0.718731833892	0.844386599601
H470	H	0.217820158254	0.207052716297	0.203298524057
H471	H	0.711340677506	0.578699806257	0.814677831324
H472	H	0.283922637291	0.079839786645	0.238605494027
H473	H	0.662407580878	0.733481484897	0.801566589906
H474	H	0.293941556215	0.245809041782	0.251711558641
H475	H	0.709718243540	0.685715095863	0.773082090810
H476	H	0.266683894625	0.178037602073	0.278585577669
H477	H	0.683646027223	0.603858884443	0.874689008979
H478	H	0.314667553763	0.104738082494	0.178797531354
H479	H	0.620661118777	0.621020810981	0.848331826520
H480	H	0.373550956633	0.129209511960	0.206980555860
H481	H	0.664212582818	0.696078651186	0.864104114530
H482	H	0.327075648722	0.198512284667	0.188536890499
H483	H	0.636749150923	0.581270772581	0.769318195484
H484	H	0.366587850273	0.114108814364	0.281630497599
H485	H	0.601251228951	0.665289238141	0.757712593564
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H487	H	0.586882275123	0.626470732645	0.797314616257
H488	H	0.399644468483	0.183570530097	0.256523901525
H489	H	0.789377222624	0.678093274777	0.895303751492
H490	H	0.195126431643	0.169602570495	0.154487376908
H491	H	0.831973868448	0.522780737592	0.899131243834
H492	H	0.167869680152	0.009983663666	0.146344694129
H493	H	0.894432600498	0.550339784281	0.948545428940
H494	H	0.099987094630	0.033357965345	0.100296254146
H495	H	0.868003217955	0.713847336758	0.935045598307
H496	H	0.121864766176	0.198897129322	0.110569204142
H497	H	0.838464721010	0.661781912671	0.968514775146
H498	H	0.147687153971	0.145384170044	0.076795517603
H499	H	0.979758416198	0.604046918721	0.916967702047
H500	H	0.013611431660	0.081951782650	0.132314654355
H501	H	0.928964848162	0.647725594501	0.888153306766
H502	H	0.062317977731	0.133644615987	0.159123828729
H503	H	0.935609403373	0.550312811765	0.889030166021
H504	H	0.062654943880	0.036357196285	0.161267014902
H505	H	0.943295302992	0.640648475044	0.992021496864
H506	H	0.038866211775	0.119754164255	0.058720013069
H507	H	0.925259145948	0.735733610061	0.988668992137
H508	H	0.057836115194	0.214844821938	0.058622839278
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H511	H	0.678870451700	0.492989460197	0.970177411882
H512	H	0.318920320708	0.036715184061	0.073996386782
H513	H	0.731230278216	0.385944254885	0.013401271435

H514	H	0.312447253649	0.905964678706	0.037672554593
H515	H	0.688478391968	0.370068981669	0.975964389489
H516	H	0.336815194300	0.908514011487	0.080285876356
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H519	H	0.782189166940	0.313545441204	0.959007334135
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H521	H	0.845576238992	0.434536375344	0.936123213020
H522	H	0.164751177841	0.923721939015	0.101271345829
H523	H	0.775467018856	0.408980285274	0.916246994778
H524	H	0.232591995933	0.913234036259	0.126311085154
H525	H	0.827328092107	0.534496182985	0.003689120224
H526	H	0.168593038720	0.018781371914	0.043670126420
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H531	H	0.835341361075	0.696242393763	0.088325755349
H532	H	0.156847445912	0.193649308674	0.959088292508
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H535	H	0.743469323822	0.805796564051	0.111250008234
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H540	H	0.198152609452	0.305570868469	0.929201124665
H541	H	0.913609337918	0.738415758551	0.064568450815
H542	H	0.077788586023	0.232520940610	0.984395909084
H543	H	0.977357983575	0.882323155793	0.068864068642
H544	H	0.014050398483	0.375091785893	0.974581269516
H545	H	0.018082250309	0.730366116336	0.094488644363
H546	H	0.986860516308	0.223394017586	0.944072901116
H547	H	0.939364906800	0.761995650023	0.124867194431
H548	H	0.064086289771	0.272108919939	0.918912514537
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H550	H	0.891821140197	0.288733636931	0.950840981506
H551	H	0.090631255095	0.801371097744	0.129503121073
H552	H	0.913402262322	0.292389096420	0.908023538025
H553	H	0.065549847560	0.886030835981	0.110238195889
H554	H	0.923410551328	0.372090955047	0.934584349693
H555	H	0.998273140836	0.907073846764	0.017540472807
H556	H	0.992450919465	0.398962968472	0.025601274545
H557	H	0.026196373660	0.800690775626	0.966474701489
H558	H	0.957282635404	0.288056358247	0.073384802493
H559	H	0.054106259236	0.966426525175	0.973696503214
H560	H	0.954271395231	0.457753739033	0.072989765511
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H562	H	0.933143515755	0.405313070654	0.108410513884
H563	H	0.221833950802	0.769141999018	0.991001405675
H564	H	0.760743427692	0.290329769682	0.047815436597
H565	H	0.261931375572	0.716130283072	0.930686816448
H566	H	0.716601422716	0.211905767019	0.101990698021
H567	H	0.211014158583	0.664202757107	0.955182781018
H568	H	0.761127241331	0.169605038485	0.070692210993
H569	H	0.179294189302	0.767698703471	0.896509592675
H570	H	0.804136594067	0.232272539195	0.138795932836
H571	H	0.157042864790	0.673341694234	0.901036834012
H572	H	0.820565029353	0.143135060186	0.122947232064
H573	H	0.081629395425	0.786277800362	0.920836802582
H574	H	0.901399339309	0.256160857293	0.115927403970
H575	H	0.086579603289	0.702757346918	0.944547187562
H576	H	0.891880891952	0.190058910614	0.083004546276

H577	H	0.312756492280	0.825203113100	0.980695324212
H578	H	0.671281152795	0.338747822366	0.067675788038
H579	H	0.306216763496	0.976583876271	0.964363587649
H580	H	0.681293487871	0.484519056851	0.092825204004
H581	H	0.372898523516	0.925575236145	0.970585885660
H582	H	0.614777247105	0.430354258824	0.089614674626
H583	H	0.319713555192	0.837755631068	0.904801775274
H584	H	0.669930393240	0.319991096778	0.142373135298
H585	H	0.362151303640	0.949140039533	0.856786625983
H586	H	0.630390590095	0.407597016787	0.200128015160
H587	H	0.379741612915	0.843906266424	0.817865198247
H588	H	0.638313823038	0.292316140106	0.232658528013
H589	H	0.420819915349	0.836935968137	0.856177532833
H590	H	0.589264484985	0.287790464946	0.197813506928
H591	H	0.231679071531	0.900745180946	0.886967161155
H592	H	0.763879636501	0.386218209725	0.160812345066
H593	H	0.174364152474	0.954531038380	0.824181681480
H594	H	0.821402783508	0.449342725764	0.221953095644
H595	H	0.119205655432	0.834014930116	0.868028464466
H596	H	0.875962581686	0.329359339515	0.177605139181
H597	H	0.078943547999	0.887429867318	0.838163768695
H598	H	0.917392703284	0.384672522818	0.206544981914
H599	H	0.207448195421	0.748841853965	0.843785546579
H600	H	0.792059148029	0.242837121507	0.203138371010
H601	H	0.079960247769	0.865898860472	0.780734923198
H602	H	0.917548880348	0.366617271765	0.264667838206
H603	H	0.235688176480	0.671330585562	0.795451452018
H604	H	0.763362653310	0.169283665047	0.252640508599
H605	H	0.108317904145	0.789267563231	0.732373319644
H606	H	0.890391831249	0.291862717559	0.314099713623
H607	H	0.166608470911	0.689381938124	0.714566173412
H608	H	0.835163569352	0.190379459704	0.332886436654
H609	H	0.215767390555	0.053077553440	0.859621246188
H610	H	0.778164156017	0.547949639496	0.188974956458
H611	H	0.156327480814	0.068676200125	0.924963983733
H612	H	0.825668121722	0.570097649206	0.122003722412
H613	H	0.271477022855	0.081195388330	0.915379507928
H614	H	0.719590445631	0.599125436900	0.141458505246
H615	H	0.239831966583	0.158932442606	0.935831516684
H616	H	0.753584784897	0.675025675991	0.121145814270
H617	H	0.255421097292	0.163654284146	0.892544680258
H618	H	0.748865492911	0.674174763708	0.165828076394
H619	H	0.121193397063	0.130596272322	0.847281964925
H620	H	0.884170071425	0.619361701697	0.199395266900
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H622	H	0.927867357455	0.761766232599	0.171948864537
H623	H	0.105371337001	0.227580901549	0.800370142805
H624	H	0.914328510648	0.717669608230	0.245781405751
H625	H	0.091170149197	0.319008245832	0.814421478325
H626	H	0.927849281426	0.806868856004	0.228890734301
H627	H	0.169273252827	0.357747844892	0.862481304912
H628	H	0.846512826250	0.848245970876	0.185512081888
H629	H	0.244522720094	0.330723592313	0.854462079712
H630	H	0.772478303476	0.819342324318	0.194786839851
H631	H	0.958014645814	0.785614237943	0.551918495211
H632	H	0.043091105823	0.544337968985	0.515722514995
H633	H	0.004736998668	0.559656159088	0.484050744308
H634	H	0.965418170630	0.954475406408	0.530134152236
H635	H	0.014242570534	0.773320607378	0.530813460642
H636	H	0.034854108063	0.023449702848	0.506153740449
H637	H	0.009582922144	0.896092473252	0.543348687743
H638	H	0.023623440137	0.140934913000	0.469148779438
H639	H	0.068808733088	0.094657437834	0.515178993483

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H641	H	0.057712624193	0.214264156200	0.468247953897
H642	H	0.036067530472	0.341654411157	0.499902743189
H643	H	0.578512487570	0.745958765190	0.209730965722
H644	H	0.420009366472	0.511742947918	0.151580941355
H645	H	0.486244618149	0.482614303817	0.152623018857
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H647	H	0.517329199662	0.778240914204	0.194593042512
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H650	H	0.502353049452	0.156357139734	0.167993613068
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H652	H	0.539411134366	0.354803881859	0.132170829707
H653	H	0.496729448472	0.239186558267	0.178948453039
H654	H	0.526871833685	0.385740542426	0.169447114792
H655	H	0.726930251966	0.097694320941	0.919826514703
H656	H	0.281851726578	0.535294456779	0.126090625962
H657	H	0.773881778488	0.035212538326	0.912545766441
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H659	H	0.248182450794	0.149927239037	0.822379036406
H660	H	0.750726536978	0.648666145248	0.227662625417
H661	H	0.281196229001	0.087015023432	0.805058463415
H662	H	0.722129584274	0.587478754392	0.248462855213
H663	H	0.330799123043	0.155016451399	0.848566768614
H664	H	0.649138028386	0.640504451322	0.219586101277
H665	H	0.348578120015	0.184460852888	0.885235761868
H666	H	0.606407034213	0.643601369082	0.187959323305
H667	H	0.295245819702	0.340591346176	0.745422344243
H668	H	0.709296357877	0.836969792142	0.298102348050
H669	H	0.295195859257	0.427965577343	0.751505583010
H670	H	0.711926058434	0.923449352987	0.290269881768
H671	H	0.228657512320	0.399053815462	0.666915572594
H672	H	0.773772521574	0.899517551064	0.376825849817
H673	H	0.239954253337	0.419530003386	0.704542096645
H674	H	0.765274653141	0.917198448845	0.338793897627
H675	H	0.219313977372	0.533472084884	0.676038817024
H676	H	0.782913920346	0.029719562551	0.366890243612
H677	H	0.257064683978	0.601802976960	0.687643908898
H678	H	0.744375583900	0.098118691024	0.356991387816
H679	H	0.317369404483	0.587165040340	0.733640547136
H680	H	0.688496990992	0.084411039417	0.303383366204
H681	H	0.271827738641	0.652950844209	0.730314864903
H682	H	0.733461688405	0.147890475435	0.313015685760
H683	H	0.378890007161	0.499534602484	0.760835383004
H684	H	0.630590114990	0.995465653644	0.282383691868
H685	H	0.326650036516	0.530371850606	0.782784594022
H686	H	0.674778796185	0.007197200615	0.251973934470
H687	H	0.671179390836	0.299954971820	0.820087933237
H688	H	0.342662867703	0.801030383735	0.228723218261
H689	H	0.711844468483	0.333514860863	0.848078736055
H690	H	0.316031352093	0.838730885761	0.196429733924
H691	H	0.896320975449	0.529846890203	0.774191847240
H692	H	0.108826690132	0.018475025931	0.273385567392
H693	H	0.888796350688	0.552515009285	0.735663574593
H694	H	0.112584390646	0.044767227148	0.311569022695
H695	H	0.737992962090	0.557788575045	0.723650359227
H696	H	0.265257582208	0.056573231077	0.323036557876
H697	H	0.790975304597	0.549747279579	0.750427712214
H698	H	0.214461345797	0.040945520473	0.296084839204
H699	H	0.725454418214	0.501290997105	0.670342634164
H700	H	0.271782600379	0.010347456347	0.375754852488
H701	H	0.704925568262	0.585028808876	0.665779817738
H702	H	0.291740637721	0.093367394393	0.381999938205

H703	H	0.019591712108	0.156429422428	0.570820354824
H704	H	0.982083088512	0.733301082459	0.479394002024
H705	H	0.989486998235	0.103366968420	0.595909257004
H706	H	0.031464775313	0.681688628702	0.493920474130
H707	H	0.545007320867	0.213161137966	0.793240949283
H708	H	0.525735563438	0.810774814067	0.246856109709
H709	H	0.583242312522	0.269901098187	0.774332595022
H710	H	0.474995935141	0.775700000235	0.267266899696
H711	H	0.492771818128	0.312232448234	0.755685106123
H712	H	0.549345671232	0.830368298104	0.302648874250
H713	H	0.491509607341	0.349452147397	0.720002076515
H714	H	0.534263953790	0.848027191386	0.339501063103
H715	H	0.473107557329	0.491084255987	0.786592270513
H716	H	0.521714421241	0.986009627478	0.286490686062
H717	H	0.465755921414	0.436932028706	0.755396104118
H718	H	0.563457135017	0.935727145406	0.310333752222
H719	H	0.307421776622	0.205433951921	0.753974828155
H720	H	0.695189032076	0.699453914307	0.293921661755
H721	H	0.336059866824	0.234413510023	0.721827295966
H722	H	0.661053905786	0.742018129890	0.320972854145
H723	H	0.124308136062	0.154258446498	0.563498817867
H724	H	0.878135751103	0.687396322178	0.469839898166
H725	H	0.101108308046	0.204274099775	0.533212517416
H726	H	0.889463153627	0.744466008086	0.497876338709
H727	H	0.078064600190	0.003238001829	0.623646323951
H728	H	0.924138151308	0.516630129497	0.427270484138
H729	H	0.137656960643	0.029320220948	0.608305463448
H730	H	0.860419192172	0.545106376370	0.436698739465
H731	H	0.238970910366	0.858353367538	0.676778551252
H732	H	0.765624421252	0.357672181211	0.375207958471
H733	H	0.197282049433	0.788405486993	0.682034246419
H734	H	0.805617284888	0.287326945222	0.368329714289
H735	H	0.253891653676	0.981917523607	0.521561495635
H736	H	0.745852243238	0.543304108851	0.493448089681
H737	H	0.312599617517	0.013145251061	0.539972185852
H738	H	0.676968744180	0.533495475785	0.499805858953
H739	H	0.348951934926	0.798984676521	0.759216793483
H740	H	0.659844957350	0.280433190200	0.294761542838
H741	H	0.383302196710	0.740020306417	0.780163878777
H742	H	0.636627084695	0.201883565950	0.302128096053
H743	H	0.258464583752	0.849683900697	0.768233598257
H744	H	0.744190651829	0.343300879501	0.281606586912
H745	H	0.258670991736	0.825394124830	0.729035587860
H746	H	0.745134366951	0.323596880300	0.321420158055
H747	H	0.467415831210	0.580483769807	0.748466006336
H748	H	0.550821674980	0.076581847336	0.313941605916
H749	H	0.477410199343	0.650018640828	0.769982162098
H750	H	0.547298039864	0.145053437681	0.290854201414
H751	H	0.509599379754	0.095417873817	0.822862959002
H752	H	0.551392214586	0.595550018080	0.223982548652
H753	H	0.499560205973	0.008575255990	0.824895006875
H754	H	0.517443244370	0.517523481029	0.223335744463
H755	H	0.509021389006	0.719009016901	0.823806430988
H756	H	0.522505414161	0.205927210961	0.237938275025
H757	H	0.441254812439	0.691836112350	0.821740168746
H758	H	0.581735543466	0.160761755304	0.234361999720
H759	H	0.576651424387	0.772205863113	0.914219251275
H760	H	0.443332227004	0.348653228176	0.147946152267
H761	H	0.583217290964	0.792314704158	0.875403620786
H762	H	0.390834606961	0.330080545753	0.173613188694
H763	H	0.126827441193	0.696519328907	0.658327690767
H764	H	0.878177860516	0.194361658277	0.388673318882
H765	H	0.093048604013	0.758807073368	0.678849170246

H766	H	0.910359574205	0.257626873327	0.368131855741
H767	H	0.932150941292	0.697717992336	0.644025248405
H768	H	0.039560580148	0.171750219248	0.410391364801
H769	H	0.950919667842	0.710970967469	0.679939709462
H770	H	0.062269675972	0.205896792945	0.376326789034
H771	H	0.894319816487	0.525298185140	0.828956645240
H772	H	0.116346033204	0.006045458119	0.219992595677
H773	H	0.955637531458	0.482887001293	0.829292321001
H774	H	0.054356299206	0.965680398118	0.221115951793
H775	H	0.692049079335	0.457780206177	0.853585832910
H776	H	0.324488196349	0.965198394528	0.178312161826
H777	H	0.762380133395	0.471344484548	0.849298136181
H778	H	0.256891560812	0.966141682914	0.190584119341
H779	H	0.888562291862	0.448323338578	0.012887770250
H780	H	0.109017748765	0.927219355079	0.037943627530
H781	H	0.942923149724	0.497305682823	0.001695954549
H782	H	0.058971965186	0.983525418684	0.048476327784
H783	H	0.062505974613	0.468668782021	0.004870435332
H784	H	0.942518833906	0.004857842254	0.036619656804
H785	H	0.043254158862	0.516740379992	0.036096613029
H786	H	0.990083589503	0.046395476855	0.013325709437
H787	H	0.955910831753	0.620793892855	0.084523901746
H788	H	0.018015784061	0.109922392499	0.963369495877
H789	H	0.983539194289	0.653750900534	0.051690204852
H790	H	0.988373331640	0.155845801216	0.992780769033
H791	H	0.948492718256	0.537374812900	0.133521839244
H792	H	0.048273769843	0.047990539925	0.909057619253
H793	H	0.992294031445	0.599975182188	0.144521978583
H794	H	0.016562822502	0.120334924388	0.897593397694
H795	H	0.104179720661	0.541642805593	0.084463588870
H796	H	0.875584671798	0.075314977511	0.923444510937
H797	H	0.039052086327	0.559465592691	0.093801444158
H798	H	0.941587430734	0.097513860476	0.925353152768
H799	H	0.314193450610	0.753102077547	0.049943681520
H800	H	0.592053018171	0.307483475951	0.029756146051
H801	H	0.369231270206	0.796182364845	0.034929669674
H802	H	0.600734069817	0.269043503924	0.064957736025
H803	H	0.278197009882	0.660983387468	0.878005430720
H804	H	0.725394441796	0.125644545579	0.159668489203
H805	H	0.268895569019	0.590634893612	0.857102689185
H806	H	0.715936517104	0.045014125667	0.172044574232
H807	H	0.340502942025	0.617895173336	0.825057721213
H808	H	0.656852757845	0.071555030231	0.206902453032
H809	H	0.347842216777	0.534030830513	0.835726890173
H810	H	0.630803365403	0.991246728560	0.199533280873
H811	H	0.980947718670	0.406940065346	0.879384149336
H812	H	0.035955484255	0.897639953595	0.170580970605
H813	H	0.993861211075	0.361874328719	0.847598437469
H814	H	0.021919487829	0.842320130884	0.198921453555
H815	H	0.073084863130	0.419642115650	0.874131286289
H816	H	0.940563491483	0.909180253261	0.177363833572
H817	H	0.095382477192	0.392623400373	0.908380502837
H818	H	0.920503297823	0.878576076575	0.143441820574
H819	H	0.080501831973	0.585282895278	0.876639819660
H820	H	0.828042696494	0.064955979712	0.161599055904
H821	H	0.104049840251	0.522886355288	0.899024378696
H822	H	0.880219555459	0.009720693572	0.158117942073
H823	H	0.632328656799	0.308426526732	0.873573693379
H824	H	0.608150004158	0.388432883854	0.876821770392
H825	H	0.455239938476	0.658174216123	0.086253177704
H826	H	0.460626893949	0.699543346406	0.051244811775
H827	H	0.383949497280	0.738669153979	0.953360533281
H828	H	0.353920114321	0.716596559099	0.918170507331

H829	H	0.391306235860	0.226078977064	0.994854172743
H830	H	0.338329797772	0.172725684617	0.986534059443
H831	H	0.437625681734	0.604735555752	0.951528481974
H832	H	0.391391328439	0.566696149532	0.927222246356
H833	H	0.578775838853	0.927353423695	0.040742644800
H834	H	0.548883192809	0.951887658755	0.005481595426
H835	H	0.295672804156	0.562913372300	0.904998252457
H836	H	0.308201576260	0.510696805552	0.937765849419
H837	H	0.526399409222	0.254864981560	0.090116315555
H838	H	0.541377508683	0.235029565629	0.127738167191
H839	H	0.451434699747	0.644658715158	0.901594297107
H840	H	0.477798546219	0.674563294086	0.866701229044
H841	H	0.512343720753	0.335549928642	0.997823007114
H842	H	0.567977152986	0.383029597654	0.986725466575
H843	H	0.449006729148	0.999925583370	0.092261089935
H844	H	0.495650661220	0.064983691671	0.094388022049
H845	H	0.422252664421	0.921847891801	0.030378469486
H846	H	0.477581960263	0.872128176040	0.034864742433
H847	H	0.425951465704	0.030662839801	0.175373280191
H848	H	0.407419003736	0.041599270420	0.138437417034
H849	H	0.573544429989	0.684030722447	0.951684836608
H850	H	0.518905677129	0.700603530247	0.927282846838
H851	H	0.652708156553	0.958498070438	0.085806041157
H852	H	0.650198192419	0.873670970618	0.074529017756
H853	H	0.617464544925	0.090303223581	0.899198074487
H854	H	0.595150157713	0.015687703021	0.884763514767
H855	H	0.557126487968	0.285723565886	0.921713611526
H856	H	0.565282432909	0.209668312445	0.939343502925
H857	H	0.406634004677	0.746863183229	0.094340436171
H858	H	0.346340433408	0.753546425328	0.112123097262
H859	H	0.426878483986	0.064639063665	0.933493888185
H860	H	0.465012331808	0.111168739417	0.961050612712
H861	H	0.523977478643	0.670188566456	0.013360584686
H862	H	0.483640079234	0.737281863152	0.000333761308
H863	H	0.616427855132	0.079761138223	0.094380697248
H864	H	0.576377708143	0.151511704302	0.096191290057
H865	H	0.333955806784	0.383434712080	0.948194927367
H866	H	0.396487531561	0.392975309265	0.930622830282
H867	H	0.422849813473	0.933727444040	0.134365928867
H868	H	0.414964691523	0.863840760239	0.111015515484
H869	H	0.548019557144	0.508830962774	0.075590363644
H870	H	0.528970298813	0.584440437978	0.092468431755
H871	H	0.472407420778	0.165651689027	0.901470437496
H872	H	0.433474952167	0.185316453994	0.869399250835
H873	H	0.405015043858	0.113407249526	0.073073525187
H874	H	0.371749800985	0.161219625872	0.043060687194
H875	H	0.643278560523	0.771320280108	0.106933543379
H876	H	0.605927285828	0.799772161207	0.136598220053
H877	H	0.706817674415	0.024020427481	0.964661186772
H878	H	0.706019624609	0.006010905072	0.003287839871
H879	H	0.587767871582	0.570828205186	0.926211862153
H880	H	0.540640216732	0.595784997000	0.898874963034
H881	H	0.530973054891	0.646066450000	0.131958759212
H882	H	0.474958315061	0.597609797462	0.137984636716
H883	H	0.320027386107	0.654339082431	0.972731526926
H884	H	0.322706790539	0.690528807189	0.007986037629
H885	H	0.646206444586	0.780452592044	0.041514589059
H886	H	0.672278808063	0.723655444783	0.067626600215
H887	H	0.390374200375	0.170111230294	0.934420355070
H888	H	0.363875441777	0.250477032106	0.932323743737
H889	H	0.674645889192	0.148796051872	0.998246832979
H890	H	0.685453988013	0.227387169058	0.985277368893
H891	H	0.574684234378	0.761205376743	0.007167999240

H892	H	0.596264296621	0.841172528014	0.005599366144
H893	H	0.578599273718	0.899144429843	0.109265903670
H894	H	0.512499082457	0.884931717410	0.122899678111
H895	H	0.533938762646	0.121517188415	0.006835962094
H896	H	0.481788389704	0.173667891605	0.015354111981
H897	H	0.640234577242	0.146999264158	0.952188503149
H898	H	0.584963043730	0.091760026703	0.949370223355
H899	H	0.526824421545	0.410510978538	0.043804479237
H900	H	0.477191551412	0.444464914686	0.066807957502
H901	H	0.450749351647	0.813674702898	0.957383589109
H902	H	0.431114157161	0.827531178497	0.995924608455
H903	H	0.529870492593	0.181566334702	0.853382892772
H904	H	0.585066888219	0.130714706915	0.847853161721
H905	H	0.265782222135	0.542136376349	0.062676124517
H906	H	0.288135384245	0.576910009923	0.028194732290
H907	H	0.431593392189	0.762424557119	0.152873709986
H908	H	0.406535551431	0.784171665830	0.187587487904
H909	H	0.442159769011	0.049442723429	0.015830626683
H910	H	0.372001082687	0.031750774339	0.015913049369
H911	H	0.582177888320	0.888203251442	0.903426034024
H912	H	0.538841930270	0.930232225373	0.879246546766
H913	H	0.335187930457	0.341302311478	0.889160006034
H914	H	0.341804040707	0.289184962691	0.858420278118
H915	H	0.490576384836	0.873254906720	0.911726492442
H916	H	0.467025208931	0.793139170398	0.903891909591
H917	H	0.556116866362	0.437980339661	0.941527879239
H918	H	0.607816994351	0.385511183933	0.932572075512
H919	H	0.448953811042	0.209132156917	0.061742247866
H920	H	0.458342448780	0.287580592000	0.049696692054
H921	H	0.609038559149	0.186093241227	0.028985194195
H922	H	0.598414666748	0.111250417945	0.045925802182
H923	H	0.740225926286	0.924159525591	0.032543061086
H924	H	0.797438989219	0.958685200709	0.047562924493
H925	H	0.376320922184	0.423867906377	0.858601618252
H926	H	0.368102839055	0.489506670207	0.883194866262
H927	H	0.335922799892	0.652737817251	0.079971018530
H928	H	0.272859225485	0.644606179153	0.096685953374
H929	H	0.389854283993	0.427193655845	0.062131674902
H930	H	0.362510196893	0.505923209048	0.057989477444
H931	H	0.718570457110	0.026348617435	0.078176289852
H932	H	0.711218978397	0.049172070617	0.117352982200
H933	H	0.372323854847	0.425199235616	0.140241806995
H934	H	0.371903837422	0.477317025656	0.108642252215
H935	H	0.526018518551	0.343199961630	0.875591215818
H936	H	0.471033728102	0.294678714297	0.882064102292
H937	H	0.283233356367	0.470691687763	0.997603801610
H938	H	0.348935003361	0.457607547875	0.985479704538
H939	H	0.483176026076	0.267274639389	0.961646276317
H940	H	0.423339678491	0.313761371727	0.963226934482
H941	H	0.466071018725	0.485158806781	0.924441399960
H942	H	0.476099239645	0.402050231572	0.909630959598
H943	H	0.623288729515	0.680283571294	0.139343218535
H944	H	0.622588478562	0.589104598728	0.142055306979
H945	H	0.554575651297	0.573405324266	0.035426708244
H946	H	0.509817460869	0.562599579783	0.004779857324
H947	H	0.446735090260	0.440548066324	0.974101396392
H948	H	0.427018427053	0.496737388662	0.002876045329
H949	H	0.607608708191	0.001040879794	0.973181019882
H950	H	0.557060312703	0.979284186320	0.946393756854
H951	H	0.428307603079	0.607828150733	0.031871865275
H952	H	0.381729798745	0.604187419743	0.002655443646
H953	H	0.681900859427	0.602388738626	0.058396047241
H954	H	0.629119620500	0.613966489830	0.081751616739

H955	H	0.607248054702	0.592587145361	0.981695380712
H956	H	0.666485599182	0.608048787111	0.959316604946
H957	H	0.577088483917	0.479973693529	0.842369403006
H958	H	0.598058389104	0.504468687533	0.877387909141
H959	H	0.351796147394	0.324509876128	0.041803379240
H960	H	0.401698674069	0.370444401456	0.021661689845
H961	H	0.464592450602	0.499717360633	0.844107697276
H962	H	0.494196405862	0.569946394299	0.828058202856
H963	H	0.416596171075	0.679716753262	0.244867409153
H964	H	0.409904643214	0.675366844523	0.191223269894
H965	H	0.423009792523	0.598099672437	0.205432610247
H966	H	0.451537766145	0.878704224101	0.238044252302
H967	H	0.477752250929	0.650307013794	0.255705794660
H968	H	0.443013901642	0.987092779880	0.249686517351
H969	H	0.471602878691	0.920858457316	0.206521073033
H970	H	0.347237462957	0.284605266119	0.225990692518
H971	H	0.466850977367	0.065140594886	0.260786275876
H972	H	0.388517432140	0.416460078039	0.219243603213
H973	H	0.417972081876	0.294128077790	0.220463960900
H974	H	0.424636751830	0.477980402516	0.200700870053
C1	C	0.719550514019	0.834193587097	0.945238302822
C2	C	0.288866045517	0.312270938925	0.110235996614
C3	C	0.743972165007	0.835338082578	0.909731866793
C4	C	0.254223871921	0.321812341877	0.142958803689
C5	C	0.769580210343	0.841064866918	0.972624759153
C6	C	0.244883868984	0.308758735263	0.079898254195
C7	C	0.809427427518	0.908770450562	0.969158952593
C8	C	0.209074086108	0.380032418478	0.075602311347
C9	C	0.767887612963	0.912972556268	0.861558690953
C10	C	0.217041167960	0.404486023102	0.185570757933
C11	C	0.828789600157	0.949705489086	0.868838206266
C12	C	0.156402140760	0.431132526083	0.171796126892
C13	C	0.727854486809	0.959096779085	0.837129584291
C14	C	0.239415666120	0.467091261799	0.210010496448
C15	C	0.667522497899	0.920294395296	0.831051610311
C16	C	0.258352774691	0.436716987778	0.244173971185
C17	C	0.937342953428	0.945792982683	0.857643871427
C18	C	0.047696819536	0.426022971232	0.184641462049
C19	C	0.965537082687	0.961116497359	0.823451471118
C20	C	0.024114556248	0.444418497004	0.219831068287
C21	C	0.973505098100	0.884137206466	0.875287760234
C22	C	0.009945665343	0.362952619952	0.169243209453
C23	C	0.014592726447	0.045198931476	0.785642774569
C24	C	0.984226338318	0.533341874161	0.258919925502
C25	C	0.083418756788	0.050010482050	0.785757767026
C26	C	0.915403049982	0.539596003860	0.260958465877
C27	C	0.984317914120	0.115943359305	0.772575308301
C28	C	0.016054314848	0.604208521045	0.270617330168
C29	C	0.177845287074	0.025248500303	0.756917043994
C30	C	0.823698675622	0.516736804517	0.292851710384
C31	C	0.203736550737	0.102366345342	0.751258161131
C32	C	0.798417925899	0.593792096248	0.298929783574
C33	C	0.190939658752	0.972660706439	0.727641137085
C34	C	0.813299528555	0.464851971913	0.322762168613
C35	C	0.136443194120	0.982727770538	0.704052335009
C36	C	0.869907047994	0.474630271304	0.344711958433
C37	C	0.083688632998	0.988218263033	0.728249021465
C38	C	0.920288190578	0.480773563517	0.319008836186
C39	C	0.182814378894	0.230159037436	0.734601534124
C40	C	0.820568780740	0.721978575028	0.313179267312
C41	C	0.128333655448	0.279856995431	0.740388555733
C42	C	0.875555713159	0.769628957210	0.305914628027
C43	C	0.209031870818	0.243861511272	0.699882814493

C44	C	0.793900718849	0.740989036714	0.347223776503
C45	C	0.095828158711	0.406925529917	0.750178319928
C46	C	0.907327487506	0.896873823276	0.294320412664
C47	C	0.057270434648	0.418440029746	0.718236558709
C48	C	0.948320415894	0.905771474076	0.325523551051
C49	C	0.124239806162	0.478558291129	0.764498337637
C50	C	0.875969817479	0.969264574435	0.283512955408
C51	C	0.139238501247	0.466186177438	0.802090690304
C52	C	0.846432438232	0.959955259041	0.248458004651
C53	C	0.083121692189	0.544976796820	0.758828837006
C54	C	0.919434901437	0.034343355211	0.285260348170
C55	C	0.169349191727	0.530434012709	0.820572763389
C56	C	0.811042128447	0.027187506372	0.236141730649
C57	C	0.046505589383	0.425943952405	0.657891596022
C58	C	0.960241348692	0.918910913997	0.386017574801
C59	C	0.009157433009	0.355453830932	0.652763919960
C60	C	0.996311931167	0.848319240003	0.393348346071
C61	C	0.082777538212	0.449593830201	0.626615818998
C62	C	0.923499574891	0.948821480879	0.416017721007
C63	C	0.052696998759	0.425353434651	0.593404760955
C64	C	0.951283239059	0.929595419951	0.450472244394
C65	C	0.092026123633	0.533606756427	0.627864044881
C66	C	0.916218345252	0.032630657467	0.411643087227
C67	C	0.995893239212	0.223569136080	0.660318672732
C68	C	0.009829966275	0.716336358807	0.386144179564
C69	C	0.939958635648	0.233186116741	0.682728612534
C70	C	0.066215541920	0.725409501954	0.363844915125
C71	C	0.032556476112	0.154328041374	0.668802717230
C72	C	0.973217095225	0.647098651300	0.377530773838
C73	C	0.897585538507	0.287882434615	0.734226881799
C74	C	0.110071831532	0.775482596205	0.312067988519
C75	C	0.853974729780	0.342078852234	0.716908486821
C76	C	0.151252649613	0.832505350200	0.329365567377
C77	C	0.921794186768	0.321337764986	0.767360165772
C78	C	0.089057298410	0.804536854776	0.277386077967
C79	C	0.873412434679	0.355001923904	0.789982068649
C80	C	0.139526970450	0.836856611293	0.255522550911
C81	C	0.826467674254	0.302092733456	0.804147382448
C82	C	0.187358402575	0.783603328215	0.242366744488
C83	C	0.830674724008	0.183100358367	0.835221578646
C84	C	0.188156988334	0.674525706404	0.204116858840
C85	C	0.838698373012	0.452025719268	0.683338516280
C86	C	0.162066619895	0.945170476146	0.361625867493
C87	C	0.800892423934	0.410658543648	0.656370898283
C88	C	0.202959955742	0.908622343166	0.388593228087
C89	C	0.874151761777	0.515190666475	0.667246205541
C90	C	0.123976674390	0.006287651638	0.377549597832
C91	C	0.799661004496	0.319143923960	0.611668636602
C92	C	0.213298083182	0.824491509355	0.435438364043
C93	C	0.752433266165	0.267905275395	0.627046570533
C94	C	0.253837252879	0.764522521543	0.420614472414
C95	C	0.845035913490	0.275102828644	0.591234948185
C96	C	0.176069142951	0.797379143040	0.465189270226
C97	C	0.882945547770	0.325014332383	0.568433987552
C98	C	0.160214563554	0.862948677841	0.487924838762
C99	C	0.726874241680	0.185405316506	0.673532483120
C100	C	0.278507608698	0.682991085882	0.374044841314
C101	C	0.668619258698	0.226085436364	0.682395795417
C102	C	0.336628302681	0.723472025687	0.364460972694
C103	C	0.758635262849	0.153477392961	0.705143752402
C104	C	0.246794983494	0.647587901978	0.343187874850
C105	C	0.721608083824	0.094419480306	0.721941470821
C106	C	0.285085950917	0.588362769055	0.327336827106

C107	C	0.679114688017	0.111682112000	0.746611716947
C108	C	0.327303620843	0.605575144176	0.302525115008
C109	C	0.728162285114	0.020556167520	0.711963868370
C110	C	0.280416750079	0.514912425042	0.338285855923
C111	C	0.643726784221	0.056247206126	0.760797475053
C112	C	0.364340462230	0.550703818180	0.289298691237
C113	C	0.692932773633	0.964955713005	0.726099199161
C114	C	0.317812866029	0.460082791926	0.325254272895
C115	C	0.650354444472	0.983041946867	0.750371101745
C116	C	0.360310146699	0.478281871600	0.300973525606
C117	C	0.622258726980	0.332145491944	0.708258421855
C118	C	0.381342174166	0.831830788653	0.338610222791
C119	C	0.582967108589	0.355022529338	0.677793305710
C120	C	0.418908103588	0.855662088441	0.369584701584
C121	C	0.637805214340	0.399161398127	0.730183821566
C122	C	0.362363317854	0.898022488092	0.317120312386
C123	C	0.665497773716	0.379919739676	0.764405702299
C124	C	0.342229297604	0.876939746636	0.281502119065
C125	C	0.576915816246	0.391061490231	0.618650513467
C126	C	0.422590414670	0.892294257637	0.428581188864
C127	C	0.544218584632	0.321647870787	0.605464082691
C128	C	0.457066533818	0.824164179947	0.441678463114
C129	C	0.618051871676	0.427048110943	0.592111079013
C130	C	0.380508956730	0.925258808545	0.455423000677
C131	C	0.589046328402	0.424879959001	0.556966011442
C132	C	0.410061390412	0.923500377949	0.490490136853
C133	C	0.633339355225	0.506087064152	0.602803346428
C134	C	0.362029191829	0.003791945846	0.445523896643
C135	C	0.551119036965	0.189128842840	0.593212202876
C136	C	0.453915801207	0.691652997632	0.453943509679
C137	C	0.494912669410	0.167957458930	0.613628874299
C138	C	0.508809303640	0.671262468655	0.432312850514
C139	C	0.601971289045	0.131332909020	0.595378225496
C140	C	0.404072501639	0.632403925901	0.453795019764
C141	C	0.446856611249	0.170028889076	0.668679437578
C142	C	0.554184952364	0.676353737926	0.376662936340
C143	C	0.393574728078	0.223027251162	0.664157261846
C144	C	0.606173861116	0.731632598712	0.379948345713
C145	C	0.469045015960	0.170193136629	0.705538540773
C146	C	0.529604455315	0.671814515498	0.340361952428
C147	C	0.512955736370	0.107309554353	0.713948510905
C148	C	0.491655985702	0.602395669664	0.333984638077
C149	C	0.482603030000	0.032047045077	0.717710810513
C150	C	0.528513112612	0.531567781510	0.331342915065
C151	C	0.396847470806	0.992170255461	0.754634199390
C152	C	0.613784669403	0.490794585511	0.295104110956
C153	C	0.351128043214	0.339959354520	0.644738632478
C154	C	0.647490069045	0.848275142449	0.400311192641
C155	C	0.294304243279	0.308846849927	0.627211526903
C156	C	0.704100207685	0.815409492823	0.417156744784
C157	C	0.371271189969	0.411516760424	0.627573821602
C158	C	0.626390200499	0.917194293386	0.419301620306
C159	C	0.413096247562	0.462113911958	0.648596727428
C160	C	0.591515086190	0.973845576117	0.397785734961
C161	C	0.429813236697	0.528169687335	0.626431959611
C162	C	0.565922007837	0.032404784706	0.421497359837
C163	C	0.384443289568	0.486474432150	0.681729078369
C164	C	0.631566619100	0.008394426643	0.370912150991
C165	C	0.242943320984	0.229078705550	0.586547052103
C166	C	0.752638996066	0.734133735801	0.458347337554
C167	C	0.222276473789	0.160803334660	0.606032565909
C168	C	0.768125595759	0.660721293975	0.441382892799
C169	C	0.259790569085	0.207380646786	0.550502582591

C170	C	0.736398578218	0.722030389947	0.495135596125
C171	C	0.328598774495	0.199494831099	0.551615988971
C172	C	0.667877709661	0.712445436687	0.494313461961
C173	C	0.349489998184	0.258490696901	0.576575989897
C174	C	0.647275446920	0.768268123130	0.467829055382
C175	C	0.241033790026	0.073913534345	0.652284364819
C176	C	0.755300898960	0.578271752522	0.393089926546
C177	C	0.273787636999	0.002263169271	0.644248751205
C178	C	0.729388857071	0.506106741183	0.406185063673
C179	C	0.351632722946	0.940697111419	0.610967967822
C180	C	0.651419568695	0.446585200216	0.439591483857
C181	C	0.374590708474	0.901358150302	0.642893828227
C182	C	0.632333128053	0.401596523354	0.408506614607
C183	C	0.407848938839	0.967345861822	0.591706834514
C184	C	0.592437634945	0.470455687728	0.456912450574
C185	C	0.442677382097	0.903140285844	0.576728698284
C186	C	0.560140334317	0.404794240265	0.472432844964
C187	C	0.393949487320	0.788972076758	0.674922440475
C188	C	0.616375929535	0.285195940500	0.379659109895
C189	C	0.459502409160	0.809112009629	0.682505882439
C190	C	0.550893136604	0.303944520586	0.371264897938
C191	C	0.388275260892	0.707187311583	0.665150774868
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C193	C	0.330246639459	0.706217746313	0.643943699031
C194	C	0.679534429363	0.207931429975	0.413949093742
C195	C	0.332036979825	0.778367346022	0.623816945686
C196	C	0.675923723054	0.282783937809	0.431853095768
C197	C	0.536585254449	0.819104648374	0.726456757351
C198	C	0.476779678419	0.317760139095	0.326347359979
C199	C	0.578426901301	0.765039025013	0.708402301715
C200	C	0.431410658120	0.265347470666	0.342621942173
C201	C	0.544609859316	0.809982861241	0.764740778545
C202	C	0.472086101365	0.311231340583	0.287989141453
C203	C	0.513608923882	0.869002671505	0.785954769031
C204	C	0.509943296472	0.367045851804	0.268608875308
C205	C	0.525992444607	0.862819175120	0.823779203268
C206	C	0.509543366523	0.355211477950	0.230710017999
C207	C	0.597804137780	0.640457246659	0.688613347115
C208	C	0.404255003135	0.142005066579	0.360674445723
C209	C	0.615244106351	0.661953967299	0.652575326393
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C212	C	0.428948231142	0.063199684675	0.358857709393
C213	C	0.584684623526	0.714735897679	0.598374389235
C214	C	0.415425630630	0.215689235584	0.451193609850
C215	C	0.623784849447	0.784502582194	0.599137792709
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C217	C	0.525998505873	0.726400254102	0.577940508190
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C219	C	0.497059895327	0.654439890233	0.564751012400
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C221	C	0.431776475596	0.668210478803	0.552750050458
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C223	C	0.534947504555	0.618812582731	0.537154505603
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C226	C	0.354956121940	0.402432131703	0.422511281050
C227	C	0.716434316149	0.877025421145	0.638469046923
C228	C	0.290970816244	0.384392684783	0.409489409831
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C235	C	0.776311690257	0.728195954163	0.694460917252
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C238	C	0.177658190708	0.194048922344	0.454883485171
C239	C	0.830849607332	0.752532924238	0.561960071362
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C241	C	0.792316967862	0.620258793393	0.568565617773
C242	C	0.203721876405	0.125546739015	0.472753651614
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C244	C	0.195260307370	0.055576841485	0.451911789996
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C246	C	0.198873286572	0.369620621244	0.508107213647
C247	C	0.852849767287	0.920082973342	0.547767862808
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C251	C	0.749683124310	0.975369367968	0.507177624344
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C258	C	0.234453396550	0.512282263647	0.596361806083
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C261	C	0.779266999889	0.080737335355	0.457354659404
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C266	C	0.045187885737	0.466552165686	0.441364218831
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C268	C	0.133090938205	0.539839264142	0.421597011070
C269	C	0.811021227837	0.077899956059	0.609054035645
C270	C	0.188239098254	0.585429357969	0.431654882299
C271	C	0.010754185165	0.859208328926	0.634419246960
C272	C	0.993384167631	0.363848912775	0.412608516251
C273	C	0.002434744357	0.862015286615	0.672562179059
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C276	C	0.064010073444	0.394859379599	0.326714774271
C277	C	0.915510399871	0.819468140020	0.727748578066
C278	C	0.083259237974	0.314055078574	0.319913887866
C279	C	0.886074171936	0.953283253564	0.726627795399
C280	C	0.116656557839	0.446430332441	0.317821051774
C281	C	0.892090268552	0.732943810342	0.772687350836
C282	C	0.098321086556	0.222254337376	0.275933371811
C283	C	0.843042880188	0.737668300907	0.799175951734
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C285	C	0.950075723008	0.692923157709	0.785942797936
C286	C	0.039156479837	0.181436317783	0.264992633368
C287	C	0.976577574793	0.727479428285	0.818335645637
C288	C	0.012572717665	0.210136652484	0.231391895071
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C291	C	0.027601791208	0.682323921123	0.834677253089
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C295	C	0.799813727479	0.608592506051	0.855449687020

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C299	C	0.676549874223	0.678027391737	0.793124907774
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C301	C	0.666820052478	0.639408246921	0.854200374037
C302	C	0.326878526526	0.142544512326	0.199394354196
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C304	C	0.362547776427	0.172230341555	0.274014910891
C305	C	0.823928731837	0.573831550574	0.913098437254
C306	C	0.171016102304	0.064063539887	0.134130607726
C307	C	0.773017589721	0.561230607667	0.937964530687
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C314	C	0.059210520346	0.083239414776	0.143694227155
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C316	C	0.052138545788	0.166307863723	0.074968849134
C317	C	0.724847840240	0.480482481814	0.979051527181
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C320	C	0.259044217906	0.034229772476	0.032519684015
C321	C	0.729353258252	0.396646917447	0.986242614200
C322	C	0.298553466041	0.919842237143	0.063194540078
C323	C	0.786787813143	0.370215536215	0.968600851269
C324	C	0.241385605521	0.878171020569	0.073728036177
C325	C	0.797347042265	0.425543131984	0.940193013536
C326	C	0.214116218118	0.926809909458	0.101146713296
C327	C	0.806124144175	0.595842758093	0.046935856329
C328	C	0.175693724481	0.083030424095	0.999683645380
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C330	C	0.190140179877	0.164903307371	0.006253887665
C331	C	0.808773606675	0.801264011382	0.070834858751
C332	C	0.182723708779	0.292091309507	0.983088618151
C333	C	0.869225373278	0.838879185753	0.062887892964
C334	C	0.121501919009	0.332155857847	0.984188092958
C335	C	0.788244444790	0.828090716459	0.105565204332
C336	C	0.219762493648	0.320127448414	0.953355733897
C337	C	0.979884199049	0.822038193826	0.066479482047
C338	C	0.011119699149	0.314862906962	0.977019135353
C339	C	0.013275531755	0.801234495101	0.034449529237
C340	C	0.972877101762	0.295413422008	0.007464593444
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C348	C	0.873294921955	0.340752832613	0.058534567092
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C353	C	0.237359219567	0.852825892061	0.953238742240
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C356	C	0.761308752965	0.212418637195	0.090369081258
C357	C	0.166450867153	0.724767953937	0.914603582251
C358	C	0.813188297968	0.200764522425	0.115756751873

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C363	C	0.346368182642	0.941635494095	0.919247834621
C364	C	0.655717173193	0.432816465065	0.138221449102
C365	C	0.337787941186	0.896885367636	0.860673499117
C366	C	0.661468411534	0.364637820924	0.191374232604
C367	C	0.276384708010	0.906807174311	0.842330582108
C368	C	0.722610167264	0.387595767460	0.206855948495
C369	C	0.375207014536	0.834588029762	0.844952293494
C370	C	0.637177014572	0.291345381527	0.205020271024
C371	C	0.351556390108	0.756347411752	0.850294624504
C372	C	0.663953970583	0.217861106881	0.193586789439
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C374	C	0.827892504407	0.423123100532	0.197356547150
C375	C	0.143674767404	0.987860190944	0.872666702091
C376	C	0.848914487714	0.483623752369	0.173187574966
C377	C	0.123429935477	0.863788787713	0.844092717009
C378	C	0.873169561570	0.359845675118	0.201494755433
C379	C	0.141472440256	0.813689046983	0.815767619124
C380	C	0.857239005221	0.310293614720	0.230372663506
C381	C	0.185529610537	0.758503767447	0.819468119200
C382	C	0.813967783295	0.254110350554	0.227338253907
C383	C	0.114842307751	0.823770118560	0.784005839706
C384	C	0.883453672590	0.323431684248	0.261980910795
C385	C	0.201576269732	0.714294198857	0.792357962340
C386	C	0.797880448796	0.211940849755	0.255072840577
C387	C	0.130505401927	0.780353430415	0.756579033657
C388	C	0.868348634612	0.281406481358	0.289956045028
C389	C	0.173517496070	0.724391365201	0.760855137204
C390	C	0.826218194157	0.224297551872	0.286310917662
C391	C	0.176192893907	0.098205157859	0.903596115745
C392	C	0.816471658820	0.598574136310	0.145880653471
C393	C	0.134762604744	0.163479299407	0.896062290678
C394	C	0.867775208069	0.653995884485	0.151030366532
C395	C	0.239378665470	0.127064551646	0.912518586851
C396	C	0.756071065863	0.639856048893	0.143431174774
C397	C	0.082320057036	0.236437445470	0.853259826992
C398	C	0.931647855588	0.719726071897	0.191555501929
C399	C	0.014001666864	0.222031934449	0.849782406600
C400	C	0.999835512813	0.702286394005	0.193299101904
C401	C	0.112083541858	0.266132576468	0.821293239347
C402	C	0.905935913039	0.753445101637	0.224035221490
C403	C	0.180248976256	0.274369560987	0.827249806398
C404	C	0.837478882434	0.762284566953	0.220143182592
N1	N	0.687000800878	0.762948841751	0.949823318069
N2	N	0.324350968390	0.242820872542	0.113414165207
N3	N	0.738307731771	0.900027665418	0.893436021761
N4	N	0.257891393806	0.387536641263	0.158519124419
N5	N	0.875078237985	0.923401094681	0.851353353944
N6	N	0.110220792700	0.404619344290	0.189529112027
N7	N	0.993235281397	0.026023602299	0.818869737004
N8	N	0.001921853876	0.512261804958	0.225216740218
N9	N	0.111416653234	0.024329390087	0.758287357642
N10	N	0.889864917354	0.516066253699	0.289618005269
N11	N	0.165328191039	0.154041628654	0.739637899035
N12	N	0.837275705666	0.645191540681	0.310060821647
N13	N	0.142211764317	0.350901850302	0.746048337812
N14	N	0.861882466190	0.840004490235	0.299040785740
N15	N	0.084429720830	0.421124517503	0.688198230726
N16	N	0.922237424305	0.911470775788	0.355820087140
N17	N	0.033488970689	0.289938369417	0.661604120564

N18	N	0.972403920756	0.782621124959	0.384314030398
N19	N	0.947983825300	0.266323776938	0.712901356045
N20	N	0.058454915822	0.754630557449	0.332756312728
N21	N	0.855402672976	0.247402355384	0.826179401643
N22	N	0.160513336392	0.733158479771	0.217450473710
N23	N	0.772044049820	0.169487130703	0.829294396239
N24	N	0.247882283613	0.665477901603	0.206711898196
N25	N	0.866413560218	0.130907911309	0.849047446382
N26	N	0.153426311504	0.623084118015	0.188600672275
N27	N	0.878084581805	0.400391425783	0.701054028787
N28	N	0.124868645455	0.889640407847	0.344896565687
N29	N	0.830650142914	0.362666979759	0.637399187760
N30	N	0.176561576990	0.861993715336	0.410090394455
N31	N	0.933556604104	0.292796612545	0.557124706129
N32	N	0.101397209491	0.870559793829	0.494490101458
N33	N	0.768009950096	0.234219223283	0.656004896065
N34	N	0.238049926131	0.733849204958	0.391089705003
N35	N	0.675593930073	0.291824182583	0.698021957856
N36	N	0.329230588413	0.788425711795	0.348467263850
N37	N	0.703386972536	0.429095460716	0.777664284413
N38	N	0.310328035340	0.928321627739	0.264981497032
N39	N	0.611180819676	0.375777340121	0.649590931210
N40	N	0.389230229911	0.876089380142	0.397429786869
N41	N	0.577069286099	0.259217136181	0.604173695762
N42	N	0.425912534484	0.760405786365	0.442918494491
N43	N	0.496682595442	0.185811316820	0.646417413390
N44	N	0.505368739749	0.690357572446	0.399787138616
N45	N	0.447316347069	0.030614402291	0.748423896608
N46	N	0.564965112964	0.532645543461	0.300953802649
N47	N	0.366577087608	0.954963189159	0.730958461764
N48	N	0.640745640606	0.450989102880	0.319015120305
N49	N	0.376608049687	0.992981249577	0.786379833803
N50	N	0.636188890928	0.490612176492	0.263806888604
N51	N	0.400668378683	0.287059105413	0.647917465156
N52	N	0.598556391842	0.794633697095	0.396714209111
N53	N	0.298117209230	0.264025291570	0.600287847991
N54	N	0.698809331321	0.770639881028	0.444011279522
N55	N	0.257329392008	0.136599132272	0.631645703679
N56	N	0.739244824691	0.643001236540	0.412536118479
N57	N	0.315926976652	0.004464228250	0.620268432312
N58	N	0.684354655598	0.511355451345	0.428597966512
N59	N	0.368954294497	0.827842044279	0.645415680869
N60	N	0.639784539936	0.328274698817	0.408228632458
N61	N	0.474139835227	0.810516374101	0.715436174179
N62	N	0.538018169035	0.305139315614	0.338241810309
N63	N	0.558013994303	0.695774591347	0.703161266033
N64	N	0.447534179793	0.194474408287	0.347081836213
N65	N	0.571174439886	0.688645294901	0.632290530353
N66	N	0.429783366830	0.189406933093	0.417409063505
N67	N	0.613081552350	0.833800128976	0.623775580624
N68	N	0.392053045458	0.336992687797	0.426288785850
N69	N	0.723823057593	0.817469488110	0.657833363715
N70	N	0.284353211502	0.326318379943	0.389232508658
N71	N	0.789511013516	0.710268011822	0.616389254415
N72	N	0.212848252499	0.218364111841	0.426306939069
N73	N	0.790973720947	0.808730249909	0.561498430449
N74	N	0.208660115498	0.308814446556	0.484569442156
N75	N	0.859119641106	0.935563192763	0.580956353265
N76	N	0.148857292047	0.442966332786	0.464570986579
N77	N	0.962198963825	0.892291133505	0.615043747915
N78	N	0.044305404808	0.397107163389	0.429856550143
N79	N	0.956015061998	0.902174324243	0.684427790515
N80	N	0.045553457957	0.403178882410	0.361365374934

N81	N	0.905140062099	0.806660432406	0.760427274925
N82	N	0.087025491919	0.297039126788	0.287144330507
N83	N	0.810923077840	0.675182363854	0.803406978166
N84	N	0.174064852295	0.160882990978	0.242881676719
N85	N	0.804116988755	0.627006420390	0.887908456550
N86	N	0.185920997196	0.115929162419	0.160789309824
N87	N	0.768660678423	0.494207213712	0.952229743657
N88	N	0.234196550781	0.002031669369	0.091896185188
N89	N	0.791219720600	0.552447054358	0.017473570627
N90	N	0.199413043545	0.038470054330	0.026738814068
N91	N	0.812054907449	0.720830255744	0.068770474075
N92	N	0.175297614622	0.212150954036	0.981481419587
N93	N	0.918217060047	0.794931964684	0.063679081551
N94	N	0.072052829028	0.288299572009	0.983821815960
N95	N	0.015559136291	0.856171087354	0.011750199439
N96	N	0.970342304232	0.349878954069	0.030200403117
N97	N	0.140999886065	0.790320731158	0.963795669648
N98	N	0.842761238506	0.289083967466	0.075410683986
N99	N	0.295933438856	0.860789116852	0.963052199682
N100	N	0.693096218665	0.369478848027	0.085895741079
N101	N	0.330866652906	0.889219419281	0.896684504455
N102	N	0.660058310869	0.367643321748	0.154802419319
N103	N	0.226868734705	0.906570481276	0.861403459911
N104	N	0.768855313427	0.396986692590	0.186033457450
N105	N	0.180642911382	0.046277929308	0.876063368688
N106	N	0.812482227343	0.543009283000	0.172010427783
N107	N	0.115003137240	0.171707489821	0.864680988499
N108	N	0.894491497113	0.657513276077	0.181187035233
N109	N	0.198812656737	0.323691320507	0.850314069255
N110	N	0.817824964849	0.812458780386	0.197607291468
O1	O	0.768112167378	0.779790456872	0.897747982614
O2	O	0.222875723795	0.269957540121	0.153199720216
O3	O	0.739822106898	0.841190785146	0.004029396113
O4	O	0.280302165936	0.294449312092	0.050925242328
O5	O	0.834013260654	0.000879028994	0.889916377557
O6	O	0.151999735450	0.478099186172	0.148855379954
O7	O	0.721234236691	0.032393399165	0.849107870723
O8	O	0.282498355898	0.512867111661	0.194103449912
O9	O	0.962451739818	0.913219932739	0.801123753768
O10	O	0.026893681791	0.396824953918	0.242268228354
O11	O	0.112271959529	0.077069693142	0.809743526009
O12	O	0.884570748696	0.565922950438	0.237578180369
O13	O	0.258628142783	0.113144106618	0.756330466267
O14	O	0.743275994627	0.605230068068	0.294686653953
O15	O	0.075745909995	0.255540968200	0.739187874687
O16	O	0.927887410780	0.744471783471	0.307095669367
O17	O	0.162646867739	0.243262556057	0.674643008881
O18	O	0.839526198778	0.742151138767	0.372871151610
O19	O	0.001695159366	0.424222694570	0.721163867512
O20	O	0.003866399441	0.907396364498	0.321855692958
O21	O	0.957026090485	0.360690643702	0.641230890887
O22	O	0.047472482290	0.853545643858	0.406287543916
O23	O	0.889836650655	0.211155290654	0.672516852164
O24	O	0.116466878068	0.706277020127	0.374964066681
O25	O	0.798457576436	0.332205754291	0.718758308607
O26	O	0.207068425166	0.825224889994	0.327993023414
O27	O	0.745241633751	0.421748819660	0.652845703621
O28	O	0.258310258214	0.922520753008	0.390334881986
O29	O	0.908437948093	0.553543369972	0.692152671478
O30	O	0.084807092699	0.039259508705	0.353216853940
O31	O	0.702939479273	0.258194505924	0.612595046091
O32	O	0.301172047119	0.748133312889	0.436072823462
O33	O	0.865740158160	0.387636525630	0.560912053570

034	O	0.200902698794	0.904563381848	0.498388022754
035	O	0.618408038506	0.199051392840	0.675825590160
036	O	0.386854794431	0.696877126522	0.371434460619
037	O	0.526930494269	0.353798521793	0.679740181734
038	O	0.475062821892	0.854908371871	0.368979649258
039	O	0.650094225557	0.322048515223	0.779507795319
040	O	0.358431490808	0.817035039511	0.268989473109
041	O	0.490267591390	0.324244148244	0.596633111778
042	O	0.510769827360	0.828810896802	0.450709552479
043	O	0.450721565940	0.137210435051	0.600026811531
044	O	0.554015019674	0.640501266877	0.444971739667
045	O	0.343649303827	0.204973172165	0.676160785057
046	O	0.655934814490	0.714772730567	0.367411471787
047	O	0.243726832779	0.326269852705	0.638525408175
048	O	0.755018597492	0.830662173585	0.405702742080
049	O	0.175279382056	0.129038953615	0.596586684951
050	O	0.806565174953	0.620011253724	0.455111924847
051	O	0.262251209692	0.945419146908	0.660180452098
052	O	0.747887459989	0.446101948272	0.395766657813
053	O	0.401780034573	0.938679111499	0.664542565267
054	O	0.606072299122	0.434821700491	0.385131520722
055	O	0.388986513495	0.019571984487	0.566597711710
056	O	0.604979548316	0.527098218922	0.481058114802
057	O	0.497093727105	0.816621860292	0.659681301755
058	O	0.512356000214	0.312136593353	0.393583844445
059	O	0.629330442701	0.785946316525	0.699784580732
060	O	0.380951425266	0.289527382207	0.350445037656
061	O	0.541404300499	0.801047943924	0.836415589083
062	O	0.493164587855	0.291479360014	0.219476777852
063	O	0.518751960647	0.921236587390	0.840934163277
064	O	0.526226547230	0.407357383152	0.212090290161
065	O	0.667671854791	0.652783341933	0.642404817385
066	O	0.333388157959	0.154738773002	0.406129672797
067	O	0.663615855696	0.793968939701	0.577977964408
068	O	0.336890274799	0.296963801344	0.470388590257
069	O	0.759240878825	0.915565742602	0.628245257904
070	O	0.248219465515	0.424558953999	0.418473622134
071	O	0.870085096320	0.779969095301	0.631605419465
072	O	0.137937796904	0.297811737683	0.412470291141
073	O	0.876063486684	0.752107741169	0.543697903188
074	O	0.116592199699	0.260060679285	0.494454564030
075	O	0.730628842418	0.636954271004	0.561779682767
076	O	0.265296682569	0.139770081605	0.481021142579
077	O	0.884885893150	0.946662591488	0.525766346122
078	O	0.106507226568	0.439846007052	0.516257781990
079	O	0.795983846022	0.132219956617	0.434523896355
080	O	0.216126055702	0.640438246848	0.609494627996
081	O	0.997977210808	0.010387908720	0.616971485918
082	O	0.000792759354	0.508718821259	0.441694857972
083	O	0.857347615982	0.992344528382	0.650084188297
084	O	0.144732206900	0.490487607977	0.394219941617
085	O	0.038713056464	0.828366706652	0.691229587305
086	O	0.964001034404	0.326756965539	0.356637065796
087	O	0.907523057074	0.772959284393	0.705422136334
088	O	0.095095110405	0.270799620093	0.343038812447
089	O	0.834919271012	0.794623584420	0.815975447105
090	O	0.154749301832	0.282343521215	0.231900525240
091	O	0.815754749882	0.546843588087	0.844308982554
092	O	0.192437884225	0.028160278978	0.201846479067
093	O	0.738549121320	0.613184379359	0.945695057210
094	O	0.254196345079	0.120946115244	0.105257476335
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096	O	0.296579801980	0.054972739187	0.011341209993

097	O	0.764561551178	0.702187962767	0.017729107046
098	O	0.213323404723	0.183736653925	0.033415955255
099	O	0.871368019605	0.906927923747	0.058267042243
0100	O	0.119642969816	0.400484527419	0.984620036997
0101	O	0.034181963825	0.738805777159	0.029721149602
0102	O	0.949352983658	0.233723469138	0.011307701819
0103	O	0.971495182994	0.799943438905	0.126234614584
0104	O	0.029572982874	0.306777838792	0.917960069633
0105	O	0.141683050704	0.866551496857	0.008931391529
0106	O	0.847622790364	0.388642621808	0.040957631497
0107	O	0.211250950908	0.897589962825	0.934491002701
0108	O	0.781423716137	0.387673912490	0.114909090243
0109	O	0.369940827734	0.001333731975	0.911566122791
0110	O	0.646679731775	0.491949924549	0.153041122358
0111	O	0.274344038273	0.916604779320	0.811307641748
0112	O	0.726762798612	0.399587237223	0.237739621680
0113	O	0.319096303848	0.743491801568	0.875686807143
0114	O	0.699452146486	0.215897862574	0.169030953628
0115	O	0.367112393840	0.707493434926	0.829038238525
0116	O	0.645004955224	0.162070959979	0.209886697317
0117	O	0.095907906121	0.980589660098	0.888442415534
0118	O	0.895068208522	0.477560379029	0.155919932512
0119	O	0.189460650076	0.678111117886	0.735518721583
0120	O	0.811220799962	0.179018120604	0.312306864943
0121	O	0.123438763174	0.208484248503	0.919109126017
0122	O	0.880457545230	0.696393674998	0.127252457524
0123	O	0.993656788429	0.159883289645	0.858998289649
0124	O	0.018528260194	0.639835109880	0.183408660050
0125	O	0.216055891924	0.234175819506	0.811758164740
0126	O	0.802638388687	0.722009863316	0.236075468329
0127	O	0.981810868098	0.273655086041	0.838100383499
0128	O	0.033857626050	0.752866476728	0.204421802353
0129	O	0.020920447105	0.583856199636	0.504344572065
0130	O	0.000886665045	0.798685489580	0.551357681108
0131	O	0.008274022299	0.948612265699	0.536403840048
0132	O	0.053646674085	0.066554093595	0.495597986785
0133	O	0.023865969095	0.188771122812	0.456912072343
0134	O	0.993638139165	0.331632340939	0.494902808577
0135	O	0.460512347420	0.521796717912	0.161894859135
0136	O	0.555273655738	0.792133853442	0.206501035530
0137	O	0.561278594134	0.938546141602	0.189545120764
0138	O	0.496149018095	0.069851169486	0.192960368591
0139	O	0.497405600723	0.206825803460	0.159119625053
0140	O	0.513069433511	0.386513944777	0.145465813165
0141	O	0.737447233474	0.047316347749	0.925722074042
0142	O	0.246555673191	0.551948284276	0.112929733815
0143	O	0.270647643737	0.103797202282	0.827700625050
0144	O	0.724203696641	0.605044420089	0.225103008270
0145	O	0.356938994796	0.190408666595	0.860936206816
0146	O	0.606888951117	0.652405223939	0.212824431751
0147	O	0.270752580479	0.386052266607	0.742456393783
0148	O	0.734478160591	0.881837032836	0.300993038721
0149	O	0.216107449938	0.434600901946	0.684309109976
0150	O	0.788765279556	0.932781265869	0.359049756386
0151	O	0.224044540800	0.586737773087	0.671841370919
0152	O	0.778380803318	0.083033814373	0.371572233698
0153	O	0.306679943521	0.630277343857	0.719526742868
0154	O	0.693537929040	0.127621568275	0.318390030677
0155	O	0.334482936317	0.508411793919	0.760351680438
0156	O	0.674068507901	0.002416914649	0.276827801825
0157	O	0.688670799380	0.288551357021	0.842749913730
0158	O	0.331603991788	0.791038008244	0.204582468326
0159	O	0.868465969447	0.552315906644	0.757634229283

0160	O	0.135076082318	0.043366152115	0.290206213021
0161	O	0.746679865646	0.554727719959	0.748118209514
0162	O	0.258632509323	0.046154782356	0.298833820098
0163	O	0.718202572925	0.548224702835	0.682520308598
0164	O	0.271190032505	0.060311426082	0.365836732280
0165	O	0.982604794288	0.150035517718	0.583981621307
0166	O	0.024820291370	0.733367433663	0.486927099877
0167	O	0.545568150526	0.241198236829	0.772168355190
0168	O	0.499078830455	0.822072115572	0.266001221468
0169	O	0.473655729744	0.352287742642	0.742498040875
0170	O	0.568382819714	0.847869327225	0.323830307767
0171	O	0.458110294977	0.488957527091	0.763147780886
0172	O	0.560632822893	0.985147493361	0.299145790847
0173	O	0.328720800732	0.248680396048	0.745183830165
0174	O	0.673365302092	0.745849983795	0.297442845629
0175	O	0.090605123566	0.161993473248	0.547350131439
0176	O	0.898514464459	0.734480030959	0.474176423189
0177	O	0.121891851425	0.995501906620	0.625123499233
0178	O	0.882470647501	0.520528419227	0.418844713127
0179	O	0.234510439394	0.812837492930	0.689884149752
0180	O	0.767933544512	0.312515629163	0.361707246857
0181	O	0.276178547235	0.027055514940	0.527332576098
0182	O	0.716795571819	0.534979507987	0.511238946669
0183	O	0.390308668594	0.781896801205	0.765325524469
0184	O	0.622478721009	0.250325421778	0.293935671484
0185	O	0.284029380881	0.840413028312	0.748944183561
0186	O	0.719426659011	0.337024323204	0.301493842148
0187	O	0.471052904553	0.634771624701	0.746628462528
0188	O	0.544353022154	0.130589817894	0.314598720517
0189	O	0.483298077543	0.054644482712	0.814946896802
0190	O	0.519149606561	0.565400970228	0.234824876733
0191	O	0.483683202677	0.673580662966	0.821233057784
0192	O	0.539639952594	0.156952367536	0.243350273729
0193	O	0.603691972090	0.796963482900	0.897734355122
0194	O	0.398999223452	0.339359134335	0.149620092511
0195	O	0.130480575802	0.728884587029	0.677756908036
0196	O	0.872775101079	0.227900101114	0.369763415997
0197	O	0.958008527096	0.675844262376	0.661499095882
0198	O	0.045169185540	0.161257099043	0.386319416900
0199	O	0.931953559301	0.519343071542	0.816503333168
0200	O	0.078204291741	0.004472329702	0.232256087211
0201	O	0.731487664889	0.432723238242	0.851842677955
0202	O	0.291562395496	0.933727194950	0.186374805874
0203	O	0.901034745439	0.484580945857	0.995790421564
0204	O	0.099588884595	0.966155885982	0.054537194200
0205	O	0.027220566490	0.487802411350	0.016841845079
0206	O	0.984115044012	0.004306839222	0.028995603579
0207	O	0.945234548194	0.639690532958	0.062033605886
0208	O	0.019298940710	0.117975907180	0.987883483337
0209	O	0.979241553116	0.571240817588	0.124588494854
0210	O	0.024483947201	0.089631397287	0.917720346251
0211	O	0.067754304382	0.564061412577	0.075128539547
0212	O	0.901013007934	0.118125220382	0.927652208786
0213	O	0.331466850091	0.770492378013	0.028823554039
0214	O	0.620996620528	0.276772640643	0.043442576058
0215	O	0.256993014525	0.612783571151	0.878653881783
0216	O	0.737742078240	0.073674137368	0.154855810818
0217	O	0.321809633958	0.568307516871	0.822501046424
0218	O	0.667474161614	0.017877243501	0.207008911436
0219	O	0.996874769985	0.413247536850	0.856847863269
0220	O	0.018227994720	0.895855275848	0.192831247192
0221	O	0.110402799773	0.416437014489	0.888066849735
0222	O	0.903929552377	0.904119809711	0.163051575185

0223	O	0.087318664702	0.572869866433	0.900134361581
0224	O	0.871989735767	0.062646272240	0.159415517047
0225	O	0.605669016926	0.338991302136	0.887860675754
0226	O	0.430979377051	0.675028213265	0.066398321033
0227	O	0.361244198235	0.699625073487	0.941240774949
0228	O	0.356134891834	0.201355767248	0.004853843879
0229	O	0.435813585557	0.576033293870	0.930814115356
0230	O	0.551413570107	0.911651916726	0.022150560856
0231	O	0.326270482618	0.530726629534	0.917182267045
0232	O	0.560494146287	0.254224950370	0.106811091285
0233	O	0.475456709208	0.684581943677	0.891008220913
0234	O	0.547400201152	0.363127972379	0.006978497553
0235	O	0.452097784246	0.053681827731	0.095397461036
0236	O	0.433093551946	0.868734280447	0.033936209447
0237	O	0.396240672924	0.013020935335	0.158435843044
0238	O	0.544113052264	0.722688539959	0.945119603421
0239	O	0.625973925325	0.919023382360	0.076571695785
0240	O	0.616072634833	0.061264499701	0.877900720956
0241	O	0.547555763491	0.259456525091	0.942404415380
0242	O	0.386620482600	0.776017068186	0.112023638596
0243	O	0.450316587926	0.110147284950	0.937382084013
0244	O	0.509595055580	0.720211219805	0.019505729089
0245	O	0.575956863426	0.099751010178	0.088529533056
0246	O	0.362959157159	0.357426006851	0.933905622276
0247	O	0.439243874430	0.909207986989	0.114229559243
0248	O	0.558030336851	0.562543162954	0.076610553086
0249	O	0.472375379239	0.196811978617	0.881107398294
0250	O	0.385008544256	0.160712056780	0.067084643883
0251	O	0.639564872709	0.766088185065	0.131468441835
0252	O	0.681645625792	0.003217038468	0.982610268054
0253	O	0.564214812633	0.553324271661	0.906349184248
0254	O	0.489623208148	0.636861510985	0.122588043056
0255	O	0.313823932765	0.642472886876	0.996772486420
0256	O	0.667715895890	0.777811187386	0.063537808092
0257	O	0.352845888766	0.198592028328	0.929735163983
0258	O	0.694911632189	0.176229197920	0.980065196637
0259	O	0.611926968274	0.790200627575	0.002579250409
0260	O	0.556076651553	0.880455536982	0.128962684593
0261	O	0.489788793438	0.127818549206	0.002970317042
0262	O	0.606495823025	0.131233988346	0.936917335086
0263	O	0.518591641885	0.425570203095	0.067282649328
0264	O	0.432340515301	0.790410222631	0.977444975539
0265	O	0.558878228049	0.166118379297	0.835847382166
0266	O	0.290382352258	0.532985184218	0.042784490516
0267	O	0.442778320244	0.762432880748	0.176877878258
0268	O	0.412551888397	0.009619412817	0.019065616102
0269	O	0.557425097969	0.934081779594	0.902708214083
0270	O	0.329688988936	0.340036303264	0.864606627949
0271	O	0.457620240881	0.838410969039	0.916163349378
0272	O	0.595828368767	0.421214066857	0.949816394271
0273	O	0.482119495381	0.242657138675	0.054472912989
0274	O	0.607624367916	0.132582351347	0.023591965103
0275	O	0.754532445800	0.970317115280	0.043040397677
0276	O	0.389545326978	0.475536635568	0.862513351502
0277	O	0.299696183174	0.680446120687	0.085785032542
0278	O	0.395015998103	0.479243529887	0.070319982526
0279	O	0.689065511184	0.038512106383	0.095598376069
0280	O	0.357819335321	0.474744970571	0.132576752428
0281	O	0.482046644619	0.347123213575	0.878624253409
0282	O	0.306278679191	0.459671066008	0.977424370004
0283	O	0.450091709751	0.283030231786	0.977132604497
0284	O	0.470295831486	0.432655015850	0.930752501058
0285	O	0.601072692607	0.635137410077	0.147307312647

O286	O	0.550306449618	0.580028820399	0.010501879163
O287	O	0.423611398325	0.444619770291	0.994988426698
O288	O	0.563872068541	0.006902477902	0.967407415948
O289	O	0.423179586067	0.586516856727	0.009124262978
O290	O	0.669953183180	0.633184086679	0.077892834078
O291	O	0.622041087609	0.613312151445	0.960284495513
O292	O	0.610985562322	0.472199884311	0.858314221571
O293	O	0.392686975640	0.346990637090	0.043402003588
O294	O	0.498331182384	0.516070714283	0.829887440251
O295	O	0.391214359104	0.635174058701	0.204182262490
O296	O	0.447820625944	0.686786231235	0.262524086238
O297	O	0.436830421502	0.915033327174	0.221164003455
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S1	S	0.941351103191	0.850691100809	0.914571646238
S2	S	0.042493632907	0.316776860735	0.132962021345
S3	S	0.903097185098	0.102800769454	0.764277483404
S4	S	0.097964425046	0.591988483542	0.276566221533
S5	S	0.579722694863	0.036458206068	0.584971187223
S6	S	0.428763650376	0.538735078525	0.464456989352
S7	S	0.552652196222	0.993982066447	0.631161291304
S8	S	0.455436871585	0.496801600903	0.418147566243
S9	S	0.901445118690	0.051396585294	0.717273896802
S10	S	0.104799932424	0.546179432377	0.324713247361
S11	S	0.960363124356	0.937757835074	0.947186047034
S12	S	0.041388806464	0.401191067882	0.097608385108

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