

### Supporting Information

#### The Origin of the Ligand-Controlled Regioselectivity in Rh-Catalyzed [(2+2)+2] Carbocyclizations: Steric vs. Stereoelectronic Effects

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### Computational Details

All calculations were carried out using DFT<sup>1</sup> as implemented in the Jaguar 8.1 suite of ab initio quantum chemistry programs.<sup>2</sup> Structures were optimized with the B3LYP<sup>3-7</sup> functional including Grimme's D3 dispersion correction<sup>8</sup> and the 6-31G\*\* basis set. The Los Alamos LACVP<sup>9-11</sup> basis that includes relativistic effective core potentials was used to represent Rh. Additional single point calculations were performed on each optimized geometry using Dunning's correlation consistent triple- $\zeta$  basis set cc-pVTZ(-f)<sup>12</sup> that includes a double set of polarization functions to improve the electronic energy. For Rh, we used a modified version of LACVP, designated as LACV3P, in which the exponents were decontracted to match the effective core potential with triple- $\zeta$  quality. Solvation energies were evaluated by a self-consistent reaction field (SCRF)<sup>13-15</sup> approach based on accurate numerical solutions of the Poisson-Boltzmann equation. Solvation calculations were carried out with the 6-31G\*\*/LACVP basis at the optimized gas-phase geometry employing the dielectric constants of  $\epsilon = 7.6$  for THF and 2.284 for benzene. Reactions using PPh<sub>3</sub> as the ligand were performed in benzene and those using xyl-binap were done in THF for solubility of the ligand.<sup>16</sup> As is the case for all continuum models, the solvation energies are subject to empirical parameterization of the atomic radii that are used to generate the solute surface. We employed the standard set of optimized radii in Jaguar for H (1.150 Å), C (1.900 Å), P (2.074 Å), O (1.600 Å), and Rh (1.464 Å). Analytical vibrational frequencies within the harmonic approximation were computed with the 6-31G\*\*/LACVP basis to confirm that all intermediates had no imaginary frequencies except for transition states, which possessed one imaginary frequency.

The energy components have been computed with the following protocol. The change in Gibbs free energy in solution phase  $\Delta G(\text{Sol})$  has been calculated as follows:

$$\Delta G(\text{Sol}) = \Delta G(\text{gas}) + \Delta G^{\text{solv}} \quad (1)$$

$$\Delta G(\text{gas}) = \Delta H(\text{gas}) - T\Delta S(\text{gas}) \quad (2)$$

$$\Delta H(\text{gas}) = \Delta E(\text{SCF}) + \Delta ZPE + \Delta C_v T + \Delta PV \quad (3)$$

$$\Delta H(\text{gas}) \approx \Delta E(\text{SCF}) + \Delta ZPE \quad (4)$$

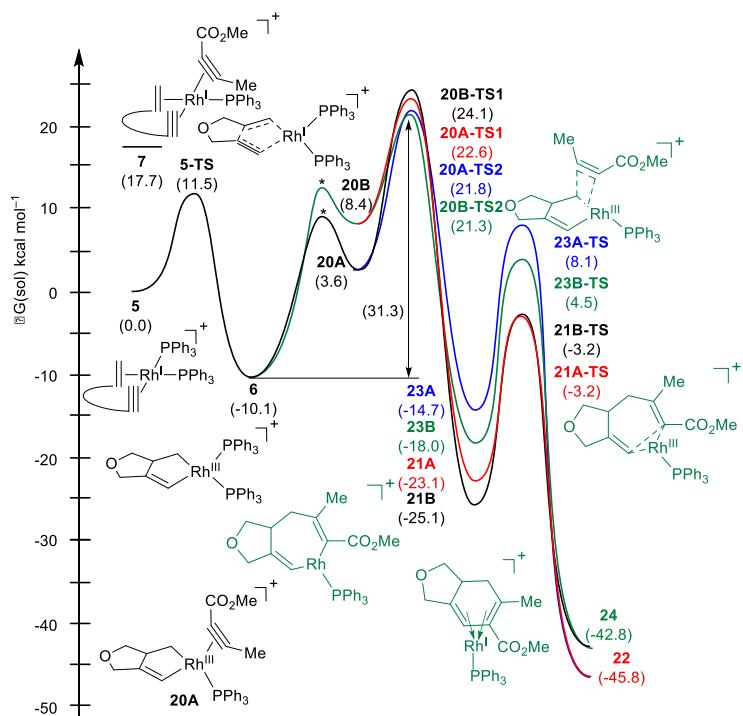
G(gas) is the Gibbs free energy in gas phase; G(solv) is the free energy of solvation as computed using the continuum solvation model; H(gas) is the enthalpy in gas phase; T is the temperature (333 K); S(gas) is the entropy in gas phase; E(SCF) is the self-consistent field energy, i.e. "raw" electronic energy as computed from the SCF procedure and ZPE is the zero point energy. Note that by entropy here we refer specifically to the vibrational/rotational/translational entropy of the solute(s); the entropy of the solvent is incorporated implicitly in the continuum solvation model. As the contributions from the last two terms in equation 3 are negligibly small, this equation can be essentially reduced to equation 4.

To locate transition states, the potential energy surface was first explored approximately using the linear synchronous transit (LST) method,<sup>17</sup> followed by a quadratic synchronous transit (QST)<sup>18</sup> search using the LST geometry as an initial guess.

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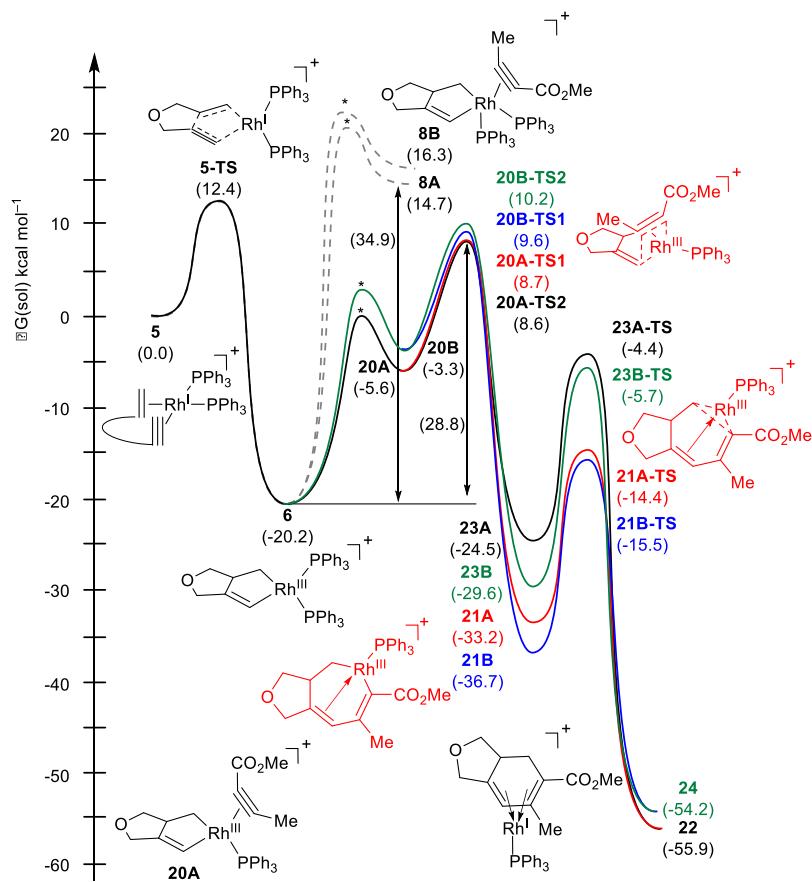
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**Figure S1.** Regiodivergent reaction energy profiles for the Rh-catalyzed [2 + 2 + 2] carbocyclization with one  $\text{PPh}_3$  ligand bound during alkyne insertion. Transition states indicated by \* were not explicitly located and are shown for illustration only.

The reaction profile for alkyne insertion and subsequent product generation with only one monodentate phosphine ligand bound to Rh is shown in Figure S1. Our calculations indicate that the alkyne bound intermediates **20A** and **20B** with only one phosphine attached are 7.5 and 12.3 kcal mol<sup>-1</sup> higher in energy

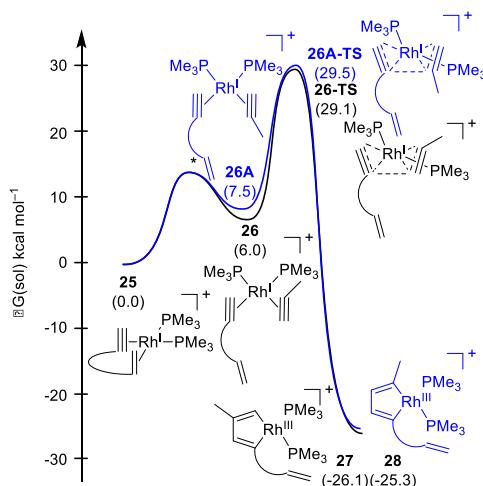
than **8C**, respectively. These intermediates are still accessible under the experimental conditions and dissociation of a phosphine ligand provided a sensible hypothesis for the observed change in regioselectivity when a bulky bidentate ligand such as xyl-binap was used. The calculated activation barriers for alkyne insertion with only one phosphine ligand attached, however, are much too high to be accomplished with the lowest barrier height **20B-TS2** being 31.33 kcal mol<sup>-1</sup> uphill with respect to **6**. Moreover, **20B-TS2** is expected to generate the wrong regiosiomer compared to experiments with monodentate phosphine. Whereas the lowest energy pathway **20A-TS2** leading to the expected regioisomeric product is only 0.5 kcal mol<sup>-1</sup> higher in energy, the calculated energy differences are too small to explain the experimentally observed product ratios.



**Figure S2.** Regiodivergent reaction energy profiles for the Rh-catalyzed [2 + 2 + 2] carbocyclization calculated with B3LYP without Grimme's D3 dispersion correction.<sup>[S1]</sup> Transition states indicated by \* were not explicitly located and are shown for illustration only.

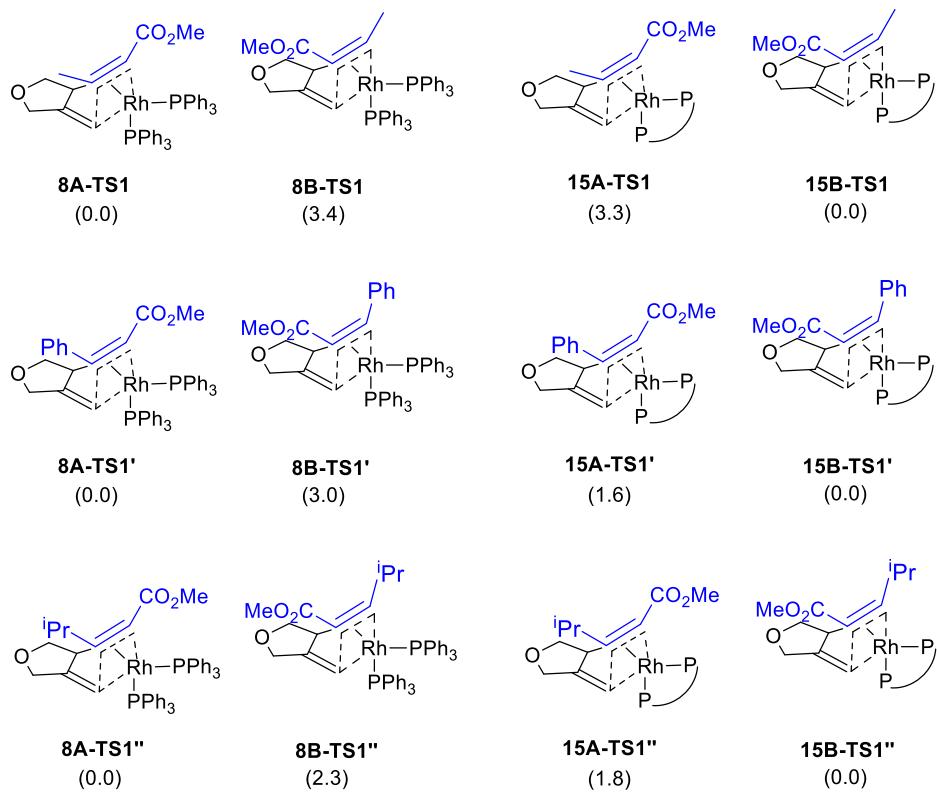
When the reaction profile is computed with B3LYP without including Grimme's D3 correction to account for noncovalent interactions, dissociation of a PPh<sub>3</sub> ligand prior to alkyne binding is computed to be favorable by 5.6 kcal mol<sup>-1</sup>. B3LYP and B3LYP-D3 give a less than 1 kcal mol<sup>-1</sup> energy difference (Figure 1 and Figure S1) for the barrier of **5-TS**. Intermediates **8A** and **8B** are substantially higher in energy than intermediates **20A** and **20B** where only one phosphine ligand remains bound to Rh. Surprisingly, insertion into the Rh–alkyl bond through **20A-TS2** is calculated to be essentially isoenergetic with insertion into the Rh–alkenyl bond. Transition states **20A-TS1** and **20A-TS2** both lead to the correct experimentally observed regiosiomer with an activation barrier of about 28.8 kcal mol<sup>-1</sup>.

However, when (S)-xyl-binap is used as the ancillary ligand the lowest calculated barrier to alkyne insertion increases to 37.0 kcal mol<sup>-1</sup>. Utilizing dispersion corrections to account for noncovalent actions seems to be critical to properly assess ligand binding energies and accurately predict the correct regioisomeric products.



**Figure S3.** Reaction profile for coupling of alkyne of 1,6-eneyne with methyl substituted alkyne substrate to produce the rhodacyclopentadiene with a dangling tethered alkyne computed with B3LYP.

A small model was used to explore the above pathway in Figure S3, which shows coupling of the alkyne of the 1,6-eneyne with the methyl-substituted alkyne substrate. In this slightly truncated model the PPh<sub>3</sub> ligand was replaced by PMe<sub>3</sub> and the ester moiety of the alkyne substrate was replaced by hydrogen. Binding an equivalent of alkyne in place of the alkene fragment of the 1,6-eneyne is uphill by 6.0 kcal mol<sup>-1</sup>. The oxidative addition has a barrier of 29.1 kcal mol<sup>-1</sup> compared to only 12.4 kcal mol<sup>-1</sup> for the coupling of the alkyne and alkene shown in Figure S1. As such, this pathway was not explored any further.



**Figure S4.** Relative energies of the key transition states using different substrates in  $\text{kcal mol}^{-1}$

Unlike the ester moiety, the aryl and isopropyl fragments are able to rotate away to avoid a steric clash with the phosphine ligands bound to Rh. This flexibility of the aryl and alkyl substituents results in the change in regioselectivity being observed when the ancillary ligand is changed from  $\text{L} = \text{PPh}_3$  to  $\text{L} = (\text{S})\text{-xyl-binap}$  despite an increase in the steric bulk attached to the alkyne substrate.

**Table S1.** Energy components of optimized structures (L = PPh<sub>3</sub>) in kcal/mol

Structure	E(SCF) (kcal/mol) cc-pVTZ(-f)	ZPE	TS (333 K)	G (solv) $\epsilon = 2.284$	G(sol) $\epsilon = 2.284$
<b>1</b>	-216276.66	62.56	31.04	-3.64	-216248.79
<b>2</b>	-193696.82	76.94	30.63	-2.65	-193653.16
<b>PPh<sub>3</sub></b>	-650459.05	171.99	46.57	-3.10	-650336.73
<b>3</b>	-410066.85	146.68	40.88	-4.04	-409965.09
<b>4</b>	-410067.77	146.76	40.62	-4.08	-409965.71
<b>5</b>	-1563305.48	426.77	88.09	-21.05	-1562987.85
<b>5-TS</b>	-1563292.70	426.82	89.04	-21.43	-1562976.35
<b>6</b>	-1129099.66	317.46	75.81	-24.18	-1128882.19
<b>6-TS</b>	-1129081.09	316.66	75.68	-23.82	-1128863.94
<b>7</b>	-1563313.85	427.03	89.48	-21.60	-1562997.90
<b>8A</b>	-1779603.20	492.68	103.61	-23.13	-1779237.26
<b>8B</b>	-1779605.27	492.54	103.51	-23.42	-1779239.66
<b>8C</b>	-1779608.45	492.83	101.81	-23.10	-1779240.53
<b>8C-BPR</b>	-1779601.74	492.14	103.48	-22.40	-1779235.48
<b>8A-TS1</b>	-1779599.16	491.94	102.74	-23.73	-1779233.69
<b>8A-TS2</b>	-1779591.57	491.68	103.29	-22.89	-1779226.07
<b>8B-TS1</b>	-1779599.67	491.77	98.67	-23.71	-1779230.28
<b>8B-TS2</b>	-1779589.80	491.59	102.15	-22.93	-1779223.29
<b>9A</b>	-1779642.21	493.91	101.32	-22.09	-1779271.71
<b>9B</b>	-1779639.10	494.35	103.62	-23.11	-1779271.48
<b>11A</b>	-1779638.09	493.36	103.75	-22.72	-1779271.19
<b>11B</b>	-1779648.42	493.80	101.71	-21.55	-1779277.88
<b>9A-TS</b>	-1779632.97	493.98	100.91	-21.88	-1779261.78
<b>9B-TS</b>	-1779633.91	493.83	98.00	-22.76	-1779260.84
<b>11A-TS</b>	-1779623.37	493.28	101.61	-22.17	-1779253.88
<b>11B-TS</b>	-1779624.04	493.32	103.32	-21.74	-1779255.78
<b>10</b>	-1779677.08	495.97	97.90	-21.78	-1779300.79
<b>12</b>	-1779671.18	496.16	98.43	-21.85	-1779295.30
<b>20A</b>	-1129112.11	317.86	77.61	-24.45	-1128896.31
<b>20B</b>	-1129107.71	317.54	76.64	-24.73	-1128891.54
<b>20A-TS1</b>	-1129092.62	317.11	77.28	-24.50	-1128877.29
<b>20A-TS2</b>	-1129095.92	317.63	76.36	-23.47	-1128878.12
<b>20B-TS1</b>	-1129090.99	316.96	76.81	-24.96	-1128875.79
<b>20B-TS2</b>	-1129095.58	317.62	76.60	-24.07	-1128878.63
<b>21A</b>	-1129143.66	319.91	75.02	-24.21	-1128922.98
<b>21B</b>	-1129143.54	319.58	76.31	-24.70	-1128924.97
<b>23A</b>	-1129131.44	319.84	75.47	-27.53	-1128914.59
<b>23B</b>	-1129140.38	320.73	71.77	-26.46	-1128917.89
<b>21A-TS</b>	-1129124.40	319.06	73.99	-23.73	-1128903.06
<b>21B-TS</b>	-1129124.15	319.15	74.02	-24.08	-1128903.09
<b>23A-TS</b>	-1129111.30	318.86	74.86	-24.53	-1128891.84
<b>23B-TS</b>	-1129117.25	319.02	73.57	-23.57	-1128895.37
<b>22</b>	-1129169.53	321.06	74.19	-23.07	-1128945.73
<b>24</b>	-1129167.34	321.38	73.70	-23.03	-1128942.70
<b>25</b>	-841139.81	224.03	57.47	-28.99	-841002.24
<b>26</b>	-914376.54	258.84	69.75	-26.84	-914214.29
<b>26A</b>	-914375.27	258.82	69.56	-26.76	-914212.76
<b>26-TS</b>	-914356.80	258.89	66.97	-26.31	-914191.19
<b>26A-TS</b>	-914355.81	259.01	67.50	-26.48	-914190.78
<b>27</b>	-39652.677	261.74	66.93	-28.98	-914246.41
<b>28</b>	-39652.706	261.88	66.47	-28.13	-914245.63

**Table S2.** Energy components of optimized structures (L = Xyl-binap) in kcal/mol

Structure	E(SCF) (kcal/mol) cc-pVTZ(-f)	ZPE	TS (333 K)	G (solv) $\epsilon = 7.6$	G(sol) $\epsilon = 7.6$
<b>1</b>	-216276.66	62.56	31.04	-6.52	-216251.67
<b>13</b>	-1952897.71	609.62	121.97	-31.87	-1952441.92
<b>13-TS</b>	-1952891.25	609.18	118.47	-31.83	-1952432.37
<b>14</b>	-1952900.63	610.76	122.98	-33.24	-1952446.10
<b>15A</b>	-2169194.75	675.28	133.53	-34.13	-2168687.14
<b>15B</b>	-2169193.58	675.64	134.06	-34.24	-2168686.23
<b>15A-TS1</b>	-2169184.84	675.70	132.53	-34.34	-2168676.01
<b>15A-TS2</b>	-2169178.15	675.17	132.50	-34.44	-2168669.92
<b>15B-TS1</b>	-2169185.90	675.03	134.75	-33.72	-2168679.34
<b>15B-TS2</b>	-2169176.05	675.13	131.30	-34.57	-2168666.79
<b>16A</b>	-2169239.49	676.82	131.82	-34.18	-2168728.67
<b>16B</b>	-2169234.40	677.18	131.62	-33.88	-2168722.71
<b>18A</b>	-2169223.44	676.78	133.35	-36.18	-2168716.20
<b>18B</b>	-2169229.02	677.23	133.90	-33.40	-2168719.09
<b>16A-TS</b>	-2169221.46	677.21	127.20	-33.89	-2168705.34
<b>16B-TS</b>	-2169221.37	676.95	129.61	-33.60	-2168707.63
<b>18A-TS</b>	-2169202.76	676.09	125.91	-34.18	-2168686.76
<b>18B-TS</b>	-2169206.72	676.91	129.97	-33.86	-2168693.64
<b>17</b>	-2169269.01	679.49	131.16	-32.49	-2168753.17
<b>19</b>	-2169261.31	680.03	129.40	-32.45	-2168743.13

**Table S3.** Energy components of optimized structures with (R = C<sub>6</sub>H<sub>5</sub> or C<sub>3</sub>H<sub>7</sub>)

Structure	E(SCF) (kcal/mol) cc-pVTZ(-f)	ZPE	-TS (333 K)	G (solv) <sup>a</sup> $\epsilon = 2.284$ <sup>b</sup> $\epsilon = 7.6$	G(sol) <sup>a</sup> $\epsilon = 2.284$ <sup>b</sup> $\epsilon = 7.6$
<b>8A-TS1'</b>	-1899959.79	525.45	108.43	-22.39 <sup>a</sup>	-1899565.16 <sup>a</sup>
<b>8B-TS1'</b>	-1899958.06	525.34	106.91	-22.45 <sup>a</sup>	-1899562.08 <sup>a</sup>
<b>8A-TS1''</b>	-1828964.31	528.10	106.83	-22.29 <sup>a</sup>	-1828565.33 <sup>a</sup>
<b>8B-TS1''</b>	-1828961.57	528.10	107.18	-22.38 <sup>a</sup>	-1828563.03 <sup>a</sup>
<b>15A-TS1'</b>	-2289543.80	709.34	135.37	-34.20 <sup>b</sup>	-2289004.04 <sup>b</sup>
<b>15B-TS1'</b>	-2289542.65	708.52	137.69	-33.83 <sup>b</sup>	-2289005.65 <sup>b</sup>
<b>15A-TS1''</b>	-2218547.13	711.58	132.56	-33.65 <sup>b</sup>	-2218001.92 <sup>b</sup>
<b>15B-TS1''</b>	-2218547.13	711.35	134.72	-33.19 <sup>b</sup>	-2218003.68 <sup>b</sup>

**Table S4.** Cartesian coordinates of optimized geometries

1	C -0.552773472	-0.012288480	-1.921401186
	C 0.430856116	0.035649868	-1.218804888
	C -1.736098131	-0.072345964	-2.768592870
	H -1.497617184	0.252834573	-3.787745442
	H -2.136657035	-1.090496832	-2.822367756
	H -2.523901160	0.585980861	-2.385338982
	C 1.602412834	0.170968464	-0.384780926
	O 2.105736849	1.228357048	-0.063534959
	O 2.071657986	-1.038139219	-0.003814942
	C 3.241245503	-0.990838480	0.832825288
	H 4.067584645	-0.498150097	0.313040203
	H 3.032935782	-0.443463556	1.756254894
	H 3.487786217	-2.030395515	1.048909032
2	C -2.524300000	-0.260700000	-1.983900000
	C -2.017800000	-0.850000000	-0.900400000
	C 3.304800000	-1.179100000	0.101800000
	C 2.200100000	-0.775100000	-0.167900000
	C 0.877800000	-0.267800000	-0.519500000
	O -0.045700000	-0.592300000	0.514100000
	C -1.362500000	-0.118400000	0.240600000
	H 0.925800000	0.826300000	-0.662200000
	H 0.559400000	-0.696000000	-1.482900000
	H -1.916900000	-0.288900000	1.170400000
	H -1.356600000	0.967200000	0.045800000
	H -2.053700000	-1.933800000	-0.795800000
	H 4.275600000	-1.545300000	0.342000000
	H -2.488500000	0.819000000	-2.111500000
	H -3.002200000	-0.828600000	-2.776300000
PPh <sub>3</sub>	P -0.677200000	-0.026500000	-0.483300000
	C 1.111100000	-0.078100000	-0.011000000
	C 1.605200000	0.286000000	1.250800000
	H 0.921500000	0.631900000	2.019700000
	C 2.970900000	0.201400000	1.528400000
	H 3.338800000	0.486900000	2.510400000
	C 3.860700000	-0.253400000	0.553900000
	H 4.922700000	-0.321200000	0.773400000
	C 3.380400000	-0.616200000	-0.706300000
	H 4.067300000	-0.966800000	-1.471700000
	C 2.018200000	-0.519800000	-0.988200000
	H 1.652900000	-0.793700000	-1.975200000
	C -1.209500000	-1.754100000	-0.087500000
	C -0.428300000	-2.677600000	0.623500000
	H 0.560700000	-2.395100000	0.970200000
	C -0.915700000	-3.957800000	0.894400000
	H -0.299200000	-4.662300000	1.446500000
	C -2.190400000	-4.331200000	0.465900000
	H -2.568700000	-5.326800000	0.680600000
	C -2.975700000	-3.420700000	-0.244700000
	H -3.967400000	-3.705500000	-0.585600000
	C -2.484700000	-2.146500000	-0.526400000
	H -3.097900000	-1.446600000	-1.089300000
	C -1.404900000	0.909100000	0.938000000
3	C -1.426300000	2.309800000	0.839900000
	H -1.043500000	2.791100000	-0.057100000
	C -1.929900000	3.090500000	1.879900000
	H -1.933400000	4.173400000	1.790300000
	C -2.436900000	2.480700000	3.029400000
	H -2.835700000	3.087100000	3.838000000
	C -2.433100000	1.088700000	3.133000000
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5

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C	-2.054701423	1.476329664	4.718023159	Rh	1.754471528	0.016279920	1.026311535
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C	-1.228118817	4.373947727	0.908191042	C	0.413094827	2.420247516	0.072123710
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H	-0.865609534	6.901122053	3.168320370	H	2.010026310	2.564408361	1.604468813
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H	4.817119405	-0.027745284	3.056765421	C	-1.345774104	-0.407835109	2.449370972
C	5.411975705	-1.707612514	1.849923880	C	1.966866640	0.116638837	4.244383780
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C	5.278594291	-2.359409377	0.621527193	H	-1.661484259	-1.245637156	1.821176144
H	5.822477575	-3.280259587	0.434121343	H	-1.628578506	-0.613828594	3.487191657
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H	4.334407425	-2.333163182	-1.319024719	O	1.532527946	-0.768494151	5.143386599
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C	5.825225333	-0.562144851	3.584177713	C	1.588420994	-3.943741310	2.671605500	
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C	6.230577800	-1.337399887	4.671144997	C	3.827168329	-2.011582001	0.058727977	
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H	5.891278506	-3.131481214	5.815452658	C	5.913821949	-1.526708098	-1.076801785	
C	4.495219258	-2.950279502	4.182249686	H	6.855315707	-0.987327311	-1.116236699	
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C	4.613570362	-1.090113945	-2.553205653	C	3.763086813	-1.656466353	2.917990291	
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H	5.699220815	-2.747183729	-3.404002503	C	4.418826932	-0.779082704	5.080480310	
C	5.870383643	-2.697038516	-1.255964456	H	4.294491436	-0.043595879	5.869862538	
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C	5.071192246	1.582504730	1.383992056	H	6.287763132	-3.504685314	4.271422354	
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H	3.964858298	2.328708273	3.085480041	H	4.879254168	-3.389307026	2.248819133	
C	5.408790962	3.763565605	2.382591929	C	2.944953275	1.020099792	-0.445721030	
H	5.148872508	4.501225429	3.135908790	C	3.146641611	1.330652048	0.755128881	
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C	0.150448527	-1.826500558	-2.267312122	C	7.164171433	-3.818436958	0.835379552
C	0.971535632	-1.381714991	-3.314918882	H	7.806177492	-4.687725365	0.941630477
H	2.031808965	-1.610185736	-3.318078941	C	5.885853738	-3.833990854	1.393270750
C	0.432995852	-0.655751888	-4.379344127	H	5.550048172	-4.715634025	1.927984119
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C	-1.224108392	-1.539067966	-2.318173276	C	2.377972114	0.073180807	-0.267540025
H	-1.883124449	-1.881319924	-1.528385673	Rh	1.446435759	-1.222730902	1.100617668
C	2.259704016	-3.620905327	-1.592180520	P	3.307149979	-2.772894488	2.139032387
C	3.520391673	-3.014896484	-1.675125737	P	0.810768503	-2.601833848	-0.670521062
H	3.677786538	-2.030650100	-1.255054353	C	0.142638052	1.076578550	-0.031778370
C	4.594284084	-3.685558301	-2.260267951	C	1.599063844	1.382662274	-0.259059583
H	5.570384140	-3.211839038	-2.286437458	C	1.502249750	2.187200634	-1.574542672
C	4.412949116	-4.969287505	-2.775554743	C	-0.663490761	2.141293055	-0.743859961
H	5.247888975	-5.499998412	-3.222923496	O	0.310033773	2.954474483	-1.415923017
C	3.154370369	-5.573865331	-2.7711430984	H	3.419660068	0.161617136	0.046297823
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C	2.080398454	-4.905906558	-2.125135085	H	-1.179258506	-0.442318576	0.717207581
H	1.117451950	-5.399481594	-2.056383662	H	-1.356261372	1.679095985	-1.464820967
C	-0.350227809	-3.922098400	-0.286670278	H	-1.239202969	2.790084932	-0.073802932
C	-0.410703068	-4.270714518	1.071316695	H	2.327727235	2.883317531	-1.747299369
H	0.271010737	-3.818275879	1.784285249	H	1.425811601	1.496761611	-2.432331500
C	-1.312479603	-5.235363640	1.518414033	H	1.957688603	2.052229684	0.536527778
H	-1.333843845	-5.501662639	2.570432230	C	1.115348164	0.122826512	2.998166232
C	-2.168734915	-5.864252748	0.613255650	C	2.255195367	0.549862552	2.866119745
H	-2.871971987	-6.615415884	0.959083344	C	3.608499505	1.085013295	2.855961735
C	-2.116251475	-5.525184453	-0.741273014	C	-0.185616013	-0.184224053	3.579115336
H	-2.778651268	-6.011857010	-1.450599665	H	3.890938866	1.454033059	1.865715428
C	-1.214912235	-4.560894725	-1.191870973	H	3.673323116	1.920512255	3.562141153
H	-1.190014176	-4.301618363	-2.245385135	H	4.318316043	0.311297828	3.168200866
C	3.749897909	-2.249504517	3.796131253	O	-0.537931348	-1.456531241	3.266868707
C	2.688062579	-2.034949602	4.691402376	O	-0.837660009	0.568655822	4.258103422
C	2.929921769	-1.745770958	6.032975920	C	-1.835395718	-1.881944062	3.745998479
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C	4.240556452	-1.654217959	6.502202208	H	-1.851883552	-1.884335918	4.838446611
H	4.431570018	-1.420724111	7.544966427	H	-2.610134921	-1.206704937	3.375267731
C	5.303526847	-1.862141401	5.622762463	C	0.008490430	-1.765231847	-2.093976835
H	6.326859010	-1.796813796	5.980561271	C	0.761333424	-1.420985513	-3.226975806
C	5.063200803	-2.158902035	4.280469120	H	1.802194098	-1.718495100	-3.305758165
H	5.904090442	-2.317308053	3.615643740	C	0.178353282	-0.701405814	-4.272782738
C	2.892340386	-4.456614786	2.157259193	H	0.775998657	-0.443705066	-5.142384382
C	2.270962039	-4.984534048	3.300643571	C	-1.163423222	-0.326316957	-4.207955801
H	2.141038959	-4.377801402	4.188570932	H	-1.615870396	0.230436434	-5.022906136
C	1.829832728	-6.308320692	3.321921734	C	-1.924706673	-0.681107942	-3.090295462
H	1.359419960	-6.699748116	4.219292539	H	-2.974061329	-0.405718589	-3.035715290

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H	-1.950609242	-1.655908859	-1.179982832	P	2.974654912	1.180373340	1.168571290
C	2.162123648	-3.545612622	-1.479787439	C	0.328381924	-0.158578702	0.019907924
C	3.460405577	-3.017292399	-1.508209620	C	1.104599490	2.126458609	-1.166975104
H	3.678313599	-2.075367011	-1.024122096	C	0.312427800	-0.213819532	-1.310314832
C	4.500744708	-3.721300455	-2.117288551	C	0.487521289	1.065166511	-2.081753884
H	5.504695093	-3.307595555	-2.099619946	C	1.305692587	0.530987560	-3.273943627
C	4.252067882	-4.958382711	-2.714041539	C	0.330805460	-1.351378776	-2.303637748
H	5.060547727	-5.513539951	-3.180462993	O	0.722741390	-0.748469862	-3.545299267
C	2.955146471	-5.481822055	-2.706805720	H	0.763214124	3.143817045	-1.381049374
H	2.753648704	-6.443528739	-3.170211925	H	2.192158014	2.109277413	-1.261645253
C	1.914822603	-4.781846068	-2.097050383	H	0.268433378	-1.016599675	0.693266629
H	0.921626475	-5.217738478	-2.074188996	H	1.044132548	-2.134083800	-2.004694922
C	-0.409621437	-3.829386517	-0.0696665228	H	-0.654117014	-1.814384487	-2.448741057
C	-0.405957626	-4.195880709	1.285039974	H	1.225100847	1.129362406	-4.185792046
H	0.293037061	-3.740119752	1.975823189	H	2.369146480	0.436060498	-2.997747081
C	-1.289633857	-5.164996909	1.759861574	H	-0.490251047	1.391187343	-2.458433531
H	-1.254671298	-5.452108211	2.806904382	C	0.898906608	4.451121611	2.486269991
C	-2.198381976	-5.772762065	0.891510773	C	0.622036543	3.384572953	3.001134170
H	-2.888218286	-6.525692401	1.261236539	C	1.209549208	5.736105278	1.887232200
C	-2.216654412	-5.406952699	-0.456685448	C	0.319171449	2.280176830	3.888912470
H	-2.923178099	-5.871618933	-1.138334575	H	0.946773219	5.744626758	0.825276635
C	-1.329793295	-4.443472399	-0.937397691	H	0.637038970	6.526137632	2.382457304
H	-1.362754885	-4.163179025	-1.985682790	H	2.278138618	5.950376586	1.986142769
C	3.601189608	-2.329037079	3.902753048	O	0.122823497	2.365717426	5.074998239
C	2.491245880	-2.134716008	4.742942792	O	0.313570897	1.103175118	3.198986129
C	2.663664447	-1.811438395	6.087145072	C	0.232875904	-0.096611451	4.012413095
H	1.794669720	-1.668192038	6.723356664	H	0.322753481	-0.925417291	3.312109740
C	3.949953492	-1.661863120	6.610310536	H	1.059678436	-0.105319007	4.723281607
H	4.085958113	-1.402413312	7.656158877	H	-0.724203855	-0.122797502	4.534461193
C	5.058554878	-1.849391701	5.784766306	C	-1.813778668	4.079202044	0.491765861
H	6.061832476	-1.740793919	6.186959552	C	-2.206246284	4.801705384	1.629902913
C	4.889157616	-2.185025361	4.439873838	H	-2.486562055	4.281989687	2.539177617
H	5.762835052	-2.336432505	3.814721072	C	-2.240555923	6.196392551	1.607668820
C	2.841313933	-4.558935875	2.240927899	H	-2.562713928	6.735659499	2.493991312
C	2.291027405	-5.118588091	3.405211654	C	-1.867505763	6.893590189	0.457975954
H	2.205937220	-4.532806522	4.313038275	H	-1.906850986	7.978666859	0.439834744
C	1.852983718	-6.443805112	3.417655190	C	-1.436436291	6.187384979	-0.667170026
H	1.434346009	-6.858548383	4.330621852	H	-1.134523182	6.719450280	-1.564636841
C	1.962201930	-7.235092902	2.274341477	C	-1.397509202	4.792987302	-0.647497187
H	1.617901598	-8.265250442	2.286510665	H	-1.066028759	4.263091883	-1.534352949
C	2.531764033	-6.696261223	1.120220018	C	-2.657298944	1.686167539	-0.995104878
H	2.641213147	-7.302493274	0.225590268	C	-3.295990162	2.550806887	-1.895399891
C	2.970842118	-5.374316310	1.103460702	H	-3.249732203	3.624720983	-1.763697373
H	3.435583667	-4.989344437	0.206063050	C	-4.027426708	2.038131592	-2.968634576
C	5.010015884	-2.790626173	1.445307331	H	-4.514141847	2.722861397	-3.657080734
C	5.530799197	-1.593122057	0.932679441	C	-4.140746168	0.661357423	-3.151120005
H	4.918812808	-0.698596063	0.926654922	H	-4.705429473	0.266256695	-3.990240900
C	6.829425305	-1.537206002	0.428354107	C	-3.540227595	-0.207170324	-2.236919555
H	7.216722956	-0.602742460	0.032167101	H	-3.643546723	-1.281725214	-2.356442558
C	7.627639542	-2.683454221	0.431303838	C	-2.812031489	0.298403143	-1.163801260
H	8.638024267	-2.645219909	0.034374228	H	-2.363806691	-0.388721956	-0.457051673
C	7.125140171	-3.875899973	0.955522881	C	-2.835570843	1.611061715	1.789834885
H	7.744756552	-4.768035417	0.971676118	C	-4.058418649	2.228338489	2.098523413
C	5.827625447	-3.930336837	1.465570391	H	-4.334863999	3.166624510	1.628944129
H	5.454901637	-4.862796543	1.875369357	C	-4.938420055	1.629359994	2.998066934
H	1.486938810	-2.242768734	4.345402699	H	-5.877078748	2.120513630	3.237154023
=====				C	-4.625668172	0.397376145	3.576580459
8C				H	-5.316668286	-0.067705988	4.273247593
=====				C	-3.432964007	-0.243089823	3.240182951
Rh	0.620794352	1.646925867	0.826495015	H	-3.197196273	-1.215665369	3.663300225

C	-2.543608178	0.361011832	2.351906946	H	0.566356783	-4.019740707	3.630393042
H	-1.630568880	-0.149557991	2.071724336	H	-0.892057739	-3.342483237	4.379995893
C	4.036380133	2.679925339	1.101968681	O	2.089436481	0.787075241	3.930185446
C	5.329242842	2.645422794	1.652510008	O	0.098669372	1.471785199	3.078611637
H	5.681960526	1.750318164	2.155293476	C	2.466854767	2.164680082	4.159500866
C	6.164351914	3.756481874	1.561276889	H	3.486539128	2.119350552	4.537150230
H	7.159805076	3.717491465	1.993757181	H	2.427364843	2.723343255	3.221640967
C	5.724670628	4.913300482	0.913278314	H	1.792141227	2.623274894	4.886670718
H	6.378803445	5.777052555	0.839533705	C	-0.530714899	-1.403601815	-1.966290763
C	4.444294964	4.955147232	0.360871940	C	0.076592272	-1.940420236	-3.113342346
H	4.098165811	5.851479318	-0.146170200	C	-1.326294359	-0.252580135	-2.094745021
C	3.602184422	3.845671214	0.457405988	C	-0.113936907	-1.341531742	-4.359942993
H	2.606499601	3.894262205	0.033514475	C	-1.504238920	0.347411613	-3.340529939
C	3.390677937	0.494787795	2.825540431	C	-0.896951979	-0.192412063	-4.476914875
C	3.340199775	1.374068334	3.922456955	H	0.693550572	-2.830510106	-3.045628424
H	3.130848436	2.427981068	3.765690521	H	-1.813277694	0.175027934	-1.224374876
C	3.574735758	0.912594950	5.215379469	H	0.357502991	-1.773126143	-5.237980477
H	3.524593617	1.605995845	6.049493104	H	-2.122192229	1.236621338	-3.422764558
C	3.868311077	-0.436497360	5.436210113	H	-1.036616660	0.276873872	-5.445855766
H	4.050948914	-0.798148273	6.443705384	C	-1.811512757	-1.860837451	0.584140676
C	3.942065228	-1.311003921	4.352621509	C	-2.829038408	-2.814667930	0.413078802
H	4.192927717	-2.356045438	4.510600367	C	-2.063504689	-0.724119993	1.368147240
C	3.705967907	-0.851446556	3.054860331	C	-4.073729382	-2.628942542	1.011845034
H	3.800320688	-1.545752195	2.229101654	C	-3.312228877	-0.543357131	1.962087311
C	3.727417030	0.052197575	-0.065997711	C	-4.318831504	-1.492722189	1.784548510
C	4.696829462	0.512147048	-0.969767693	H	-2.655477170	-3.704856159	-0.181341834
H	5.058123773	1.533057040	-0.913620966	H	-1.296674376	0.016262589	1.546472029
C	5.210685414	-0.340156427	-1.949750396	H	-4.852040164	-3.373339618	0.872204026
H	5.958742947	0.032348686	-2.643312596	H	-3.488552224	0.340215621	2.567862958
C	4.771718686	-1.660535307	-2.036503598	H	-5.290163861	-1.350616452	2.248959850
H	5.174480773	-2.321171187	-2.798276161	C	0.017174985	-3.883566320	-0.470353471
C	3.807712349	-2.128128038	-1.140885643	C	0.801398085	-4.561339110	0.479065127
H	3.455816468	-3.153674154	-1.203402429	C	-0.594078625	-4.629634253	-1.492466693
C	3.277010551	-1.275665387	-0.175921080	C	0.986217825	-5.941346340	0.402704004
H	2.501744341	-1.648072536	0.482051445	C	-0.408889507	-6.011269352	-1.565826571
=====				C	0.384061864	-6.671211957	-0.623671073
8C-BPR				H	1.278171540	-4.013275950	1.286121841
=====				H	-1.212075048	-4.135608515	-2.235452059
C	1.074541205	0.482752594	0.231309233	H	1.601894630	-6.440206161	1.145824378
C	2.752070957	-1.311007715	-0.971195453	H	-0.887007079	-6.572120437	-2.363635792
Rh	1.653741129	-1.354926600	0.841250194	H	0.526854022	-7.745636372	-0.687882240
P	3.782292864	-2.107693838	2.067269215	C	3.422142062	-3.143886706	3.541187097
P	-0.206385253	-2.067027418	-0.289044139	C	3.005253045	-2.539113337	4.739768183
C	1.836145397	0.991627026	-0.733084145	C	3.449669714	-4.546116873	3.458984317
C	2.947916161	0.166354985	-1.316170075	C	2.631710357	-3.323895433	5.830435264
C	2.886829321	0.643411296	-2.780922326	C	3.067227496	-5.325802617	4.552981672
C	1.701174733	2.240837898	-1.583168059	C	2.654970271	-4.718640323	5.741028180
O	2.620283191	2.044399521	-2.664147793	H	2.969889019	-1.457192006	4.818402398
H	3.697252539	-1.833847826	-0.843843355	H	3.787350543	-5.034156970	2.549785972
H	2.184569305	-1.827442731	-1.744761286	H	2.319917793	-2.843040319	6.753355266
H	0.206935283	0.970414684	0.665698277	H	3.103887840	-6.409038729	4.477934984
H	0.668655345	2.336093135	-1.954919212	H	2.362828370	-5.325938549	6.592504788
H	1.972161753	3.170463591	-1.069907213	C	4.935109473	-3.143621290	1.084317615
H	3.821956590	0.527818258	-3.334918704	C	6.324041273	-3.110645159	1.274738401
H	2.079176074	0.124093818	-3.319813095	C	4.395761214	-4.039140157	0.145312686
H	3.904199332	0.517938868	-0.901603460	C	7.152594365	-3.964831099	0.546558983
C	0.630552551	-0.822934010	3.180176116	C	5.226114280	-4.899508797	-0.571636361
C	0.224937962	-1.967366716	3.282993330	C	6.607191615	-4.864247956	-0.371306834
C	-0.263761823	-3.321590598	3.481913144	H	6.763908482	-2.419084549	1.985668223
C	0.884259091	0.595884108	3.377060385	H	3.325256019	-4.065343962	-0.030462762
H	-0.876193187	-3.648210675	2.635661456	H	8.227294474	-3.928456107	0.699514886

H	4.793987995	-5.589927632	-1.290588184	C	3.994649221	-4.965778929	-2.791515510
H	7.256845472	-5.528558796	-0.933838685	C	4.987684202	-4.017811661	-0.802331481
C	4.777692464	-0.703143435	2.678102934	C	5.097538597	-4.806914964	-1.947008950
C	5.656346289	-0.823578472	3.766346503	H	1.947409863	-4.441552467	-3.173860980
C	4.685991468	0.520616627	1.999237320	H	3.697386547	-2.806800006	0.403227380
C	6.441554268	0.261720478	4.155556006	H	4.081646223	-5.564134475	-3.693695597
C	5.483297542	1.598474883	2.381770924	H	5.840339499	-3.875555928	-0.144359632
C	6.362891398	1.470232624	3.459051303	H	6.040821953	-5.287227006	-2.190411775
H	5.722854727	-1.759492184	4.312824253	C	-0.262066311	-3.972699816	-0.782133710
H	3.978373230	0.638747017	1.185208570	C	-1.468055566	-3.526573065	-0.210302638
H	7.118660586	0.161436061	4.999040470	C	-0.169958675	-5.298238459	-1.222499301
H	5.409715034	2.540200570	1.845474956	C	-2.565547823	-4.379291578	-0.107528514
H	6.981778894	2.310732685	3.759843007	C	-1.270116717	-6.149262508	-1.116471473
=====				C	-2.469052982	-5.693375248	-0.568123398
8A-TS1				H	-1.554356230	-2.501327214	0.145396937
=====				H	0.760164926	-5.680683086	-1.624941982
C	-0.037408423	0.043581524	-0.189636593	H	-3.492192966	-4.019185760	0.330422486
C	-0.401405142	0.314589986	1.989307477	H	-1.184530741	-7.177098917	-1.456444200
C	2.608104503	-0.170979936	0.546676629	H	-3.321812068	-6.361385587	-0.490425653
C	0.613070864	-0.016179601	2.668546959	C	1.399346949	-4.833095451	2.164026220
Rh	0.945723220	-1.358791965	1.045344166	C	0.156253062	-5.374326475	2.526351607
P	1.857811392	-3.095734182	2.632505410	C	2.295590693	-5.637656755	1.439960247
P	1.080875372	-2.732825941	-0.918300401	C	-0.172816869	-6.686400968	2.188424788
C	0.768445634	1.037775633	-0.576178830	C	1.964514698	-6.950306665	1.108188518
C	2.121339141	1.182243806	0.066129797	C	0.731206319	-7.481481621	1.484919126
C	2.899963908	1.856866502	-1.089391622	H	-0.555426826	-4.790492598	3.097657185
C	0.685845740	2.025694510	-1.719060087	H	3.268276822	-5.258330972	1.154676236
O	1.940948749	2.713855204	-1.702014840	H	-1.137261730	-7.087537117	2.485744294
H	3.179754292	-0.110593245	1.468875810	H	2.679911172	-7.558428916	0.561856072
H	3.145710949	-0.724026317	-0.223745584	H	0.476530652	-8.507173948	1.233662369
H	-0.999664966	-0.157017577	-0.657469218	C	3.634369092	-3.269982904	3.082073077
H	0.529015558	1.502614486	-2.673303300	C	4.112014492	-4.442621729	3.695342672
H	-0.112972236	2.766795012	-1.593752624	C	4.535180310	-2.224231847	2.838812904
H	3.743183150	2.470417918	-0.763115414	C	5.456152135	-4.562299226	4.045122321
H	3.264281031	1.091636802	-1.795771386	C	5.882274411	-2.348208106	3.182663831
H	2.050556915	1.885396177	0.907534479	C	6.346132904	-3.517863529	3.785659663
C	-1.758361652	0.875052929	1.869779791	H	3.435193424	-5.266446108	3.896395819
H	-2.458466998	0.146098708	1.448475431	H	4.185405686	-1.307581697	2.387595277
H	-2.091043762	1.141419239	2.880070817	H	5.808060908	-5.474386674	4.518554044
H	-1.771449073	1.765094164	1.235476323	H	6.566541037	-1.529576113	2.978679699
C	1.237755733	0.233108804	3.975774220	H	7.394274183	-3.616360915	4.053006282
O	0.661017886	0.727492243	4.918560116	C	0.991951229	-2.901497567	4.251233540
O	2.533039409	-0.140661647	3.978919973	C	-0.376735542	-2.582233187	4.245962581
C	3.224132961	0.034821000	5.234538987	C	1.638372468	-3.075229814	5.483006280
H	3.282853617	1.095439682	5.490273000	C	-1.082966320	-2.451803489	5.440115748
H	2.697790204	-0.502208611	6.026455625	C	0.930496866	-2.935019016	6.677607851
H	4.217009543	-0.385213578	5.075600935	C	-0.429067918	-2.624665835	6.660335646
C	0.746639255	-1.859378756	-2.504831616	H	-0.896877513	-2.424246050	3.305049158
C	1.812265153	-1.222464688	-3.162458751	H	2.695404272	-3.313374373	5.519136578
C	-0.546242282	-1.740176273	-3.032238381	H	-2.139827860	-2.203201975	5.417261668
C	1.589887547	-0.491421515	-4.328285356	H	1.446859002	-3.069396945	7.623891136
C	-0.765602953	-1.002495779	-4.198339707	H	-0.975020671	-2.512399895	7.592094086
C	0.298445251	-0.376297348	-4.849976336	=====			
H	2.823646278	-1.314472295	-2.777775943	8A-TS2			
H	-1.383634694	-2.233044703	-2.548151967	=====			
H	2.425683902	-0.010621062	-4.828153971	C	-0.636012362	-0.092945386	0.737502056
H	-1.771407767	-0.926764966	-4.601711730	C	0.562318952	-0.588941853	2.573637586
H	0.124854605	0.191755703	-5.758826968	Rh	1.628626251	-0.022949525	0.776870348
C	2.652651187	-3.581408108	-1.315781474	P	1.637346998	2.478907402	1.418598970
C	2.784509868	-4.345494010	-2.489016144	P	3.822978160	0.034408862	-0.157016380
C	3.771476678	-3.407484793	-0.492537492	C	1.315075146	-1.839276314	-0.120130012

C	0.049655590	-2.257384200	-0.213185378	C	3.452444963	5.625573104	-0.625525048
C	-1.081836512	-1.484414225	0.411186712	C	5.047841579	4.726343358	0.941502081
C	-2.137310329	-1.646164446	-0.713545951	C	4.722408373	5.652447858	-0.052100974
C	-0.576335765	-3.316289045	-1.105253719	H	1.527803985	4.694119185	-0.670824502
O	-1.973510987	-2.997418613	-1.131531690	H	4.373602682	3.092023097	2.144842995
H	-1.235478484	0.492126198	1.425227494	H	3.182774138	6.348431408	-1.390414028
H	-0.413921171	0.491622125	-0.163648796	H	6.029512896	4.743133369	1.406604394
H	2.139651334	-2.390766331	-0.565654844	H	5.449688869	6.394750692	-0.368535112
H	-0.145682968	-3.292266911	-2.117174370	C	1.704753427	2.887020922	3.211402990
H	-0.466401884	-4.333569326	-0.709478375	C	1.473226650	4.208327305	3.631337405
H	-3.168099044	-1.516439418	-0.375331676	C	2.055991922	1.928785934	4.169358936
H	-1.935720887	-0.936244698	-1.534230057	C	1.565324330	4.550339602	4.978398822
H	-1.464588258	-2.003636727	1.298851597	C	2.157399451	2.273413558	5.519552020
C	1.635155814	-1.276958101	2.390201136	C	1.907539249	3.583313281	5.928848240
C	2.567098696	-2.303571718	2.887211271	H	1.225474659	4.971158286	2.899629777
H	3.569089130	-1.877819737	3.009978293	H	2.238111476	0.904746605	3.872640624
H	2.216597028	-2.688288773	3.850657524	H	1.377679570	5.574894798	5.286218071
H	2.639659328	-3.127835847	2.170834247	H	2.432304322	1.514248303	6.246479545
C	-0.284852244	-0.077437721	3.657445928	H	1.985591277	3.853941929	6.977677481
O	-1.133574092	0.787361595	3.563185489	C	0.000027461	3.059859178	0.820963077
O	0.063445339	-0.674825767	4.813716322	C	-0.238520740	3.015820071	-0.565820510
C	-0.630136967	-0.185644973	5.985205706	C	-1.047508836	3.407711202	1.681488882
H	-0.392215037	0.869906480	6.141090310	C	-1.488318459	3.352780502	-1.080058384
H	-1.709809170	-0.300980405	5.867075901	C	-2.301713239	3.736168292	1.160904628
H	-0.262959910	-0.793159418	6.811699563	C	-2.524334423	3.716701935	-0.215260641
C	4.427890574	-1.501521766	-0.960976981	H	0.553456517	2.710503553	-1.246126288
C	4.904057068	-2.535834714	-0.137217399	H	-0.904107944	3.394718480	2.755192334
C	4.351520981	-1.709317170	-2.344785615	H	-1.655890407	3.325929099	-2.153259681
C	5.299560420	-3.751619099	-0.690044687	H	-3.107787289	4.000475622	1.839024115
C	4.749530418	-2.929886493	-2.894025142	H	-3.501197099	3.974629525	-0.613874169
C	5.220531475	-3.952292028	-2.070814775	=====			
H	4.980486639	-2.385189692	0.935921331	8B-TS1			
H	3.991505571	-0.923136508	-2.999778950	=====			
H	5.673435563	-4.541289658	-0.044803767	C	-0.120141609	-0.069398005	0.030523525
H	4.693139976	-3.077162279	-3.968664741	C	0.098744317	-0.034055055	2.300625790
H	5.529144853	-4.900226760	-2.501529185	C	2.640762051	0.168201168	0.178359589
C	3.776314016	1.282575284	-1.496809140	C	1.294293373	0.060936000	2.721961877
C	2.655805059	1.240659021	-2.347926008	Rh	1.350033149	-1.258348401	1.014627647
C	4.755341756	2.261283912	-1.702321100	P	3.131876985	-2.608698810	1.971046595
C	2.531065312	2.149210257	-3.397849176	P	0.823315233	-2.690929523	-0.952490607
C	4.621415401	3.172596719	-2.750739768	C	0.420554393	1.056461228	-0.434830515
C	3.516821690	3.117553175	-3.600642860	C	1.839994203	1.425307618	-0.078137497
H	1.886756131	0.485031510	-2.196928258	C	2.223650300	2.278288870	-1.313554429
H	5.605254172	2.339667457	-1.034866373	C	-0.060940527	2.040267030	-1.482247288
H	1.667485723	2.099911643	-4.055243706	O	1.020612953	2.959394386	-1.651344880
H	5.379829492	3.936060278	-2.893437149	H	3.466983631	0.294700273	0.878943845
H	3.419730971	3.829928784	-4.414641110	H	2.980064588	-0.302055469	-0.742833857
C	5.197737724	0.425931529	0.984475133	H	-1.125215980	-0.412582271	-0.186832291
C	6.525305602	0.459165760	0.525386626	H	-0.291308008	1.515326250	-2.421966353
C	4.940612541	0.629042435	2.345535319	H	-0.947156066	2.605079591	-1.172624854
C	7.565021910	0.738604521	1.410821012	H	2.993372645	3.027767764	-1.114893490
C	5.983785909	0.899287141	3.232537140	H	2.557371007	1.622733118	-2.134766486
C	7.297246635	0.963037758	2.765047738	H	1.832405544	2.069244719	0.812174414
H	6.746199844	0.256571421	-0.518690429	C	2.194078505	0.686774426	3.710407287
H	3.920528585	0.594547245	2.706805917	H	3.128774328	1.021856865	3.253680240
H	8.587061926	0.772838677	1.045041608	H	1.676588574	1.542163345	4.156904921
H	5.765715691	1.065327240	4.283559313	H	2.461152168	-0.016586688	4.503279283
H	8.111170291	1.176488421	3.451286239	C	-1.285247169	0.302466528	2.656605904
C	2.831542862	3.739729121	0.771278955	O	-1.532672806	1.148588948	3.488194221
C	2.511666826	4.677488656	-0.219308754	O	-2.206039036	-0.451508089	2.031901445
C	4.110194772	3.782628379	1.352596190	C	-3.577980588	-0.184840347	2.398062885

H	-3.720665890	-0.327910190	3.471925530	C	4.502535783	-1.713898991	5.770171295
H	-3.847932789	0.841091874	2.136550711	C	5.786459326	-0.409153854	4.193172879
H	-4.170414887	-0.898390402	1.826279624	C	5.492024711	-0.764699667	5.512166034
C	0.711317189	-1.704805735	-2.495773940	H	3.030086412	-3.036107990	4.932421093
C	1.887598273	-1.181474130	-3.059573778	H	5.337136674	-0.722938469	2.115815090
C	-0.517671085	-1.399951410	-3.095675379	H	4.280822208	-2.007114827	6.792314767
C	1.837563793	-0.388454503	-4.204838065	H	6.566538376	0.317661717	3.986277805
C	-0.565616117	-0.603470014	-4.242218833	H	6.039157613	-0.311639495	6.333439508
C	0.608409046	-0.097603106	-4.800432321	=====	=====	=====	=====
H	2.854873052	-1.403557313	-2.619095141	8B-TS2	=====	=====	=====
H	-1.440355521	-1.785823503	-2.675769855	C	0.115223994	0.012558891	0.125330527
H	2.757337244	0.001052739	-4.631472076	C	0.215731561	0.324677727	2.388609858
H	-1.525679211	-0.380266780	-4.698659822	Rh	2.112592696	0.022635879	1.200122834
H	0.567190782	0.522337232	-5.690895461	P	2.417849770	2.625724487	1.011091076
C	1.748790805	-4.204662107	-1.450651694	P	4.443681846	-0.403786787	1.412176486
C	1.808380379	-5.241849179	-0.507443882	C	1.824173664	-1.978627507	0.981511014
C	2.360946869	-4.381196579	-2.698055944	C	0.653442956	-2.367763239	0.468102893
C	2.503072755	-6.414517205	-0.788240616	C	-0.441263067	-1.379151765	0.160937633
C	3.053809438	-5.560497338	-2.977581836	C	-0.953937682	-1.986949430	-1.170067569
C	3.137007413	-6.573403468	-2.022786472	C	0.235348204	-3.693557581	-0.143597691
H	1.296561963	-5.141199517	0.442682362	O	-0.928108446	-3.388088231	-0.926763311
H	2.298993878	-3.612127300	-3.459038059	H	-0.584237120	0.842420394	0.143385642
H	2.542548622	-7.204255986	-0.043429971	H	0.806903663	0.155942322	-0.713031432
H	3.524911147	-5.686393938	-3.948363535	H	2.614490291	-2.687775699	1.214433662
H	3.681097989	-7.487158753	-2.243663809	H	1.034009194	-4.114940811	-0.771279956
C	-0.843720778	-3.412079321	-0.682838984	H	-0.046021448	-4.444836624	0.604361654
C	-1.389817627	-4.289631584	-1.635936384	H	-1.978588780	-1.703772036	-1.423731861
C	-1.556011376	-3.152583754	0.493881486	H	-0.285714820	-1.701482315	-2.001175175
C	-2.633600617	-4.875956819	-1.418952125	H	-1.253364452	-1.472246220	0.894834775
C	-2.798592990	-3.749509286	0.713517261	C	1.189284559	-0.281118183	2.959946909
C	-3.339782699	-4.608611715	-0.241867768	C	-1.050469555	1.058213098	2.570497077
H	-0.837167679	-4.517973761	-2.542599158	H	-0.967261970	2.075217694	2.172650189
H	-1.157980100	-2.477366654	1.241368466	H	-1.892408128	0.563141140	2.076279627
H	-3.049395527	-5.548611100	-2.163435310	H	-1.256480064	1.114813633	3.644287167
H	-3.337578064	-3.543140413	1.633981734	C	1.627740605	-0.810756079	4.254193842
H	-4.306576375	-5.073903235	-0.072013044	O	2.658549380	-1.420825414	4.448641753
C	4.499332034	-3.229193209	0.927479800	O	0.745587821	-0.476130940	5.215288056
C	5.560675421	-3.953871777	1.499740112	C	1.095939774	-0.912721155	6.549747794
C	4.538061459	-2.935209131	-0.438743412	H	1.156133398	-2.002714547	6.587902802
C	6.609482236	-4.407364569	0.704483809	H	2.059820874	-0.490556868	6.844594736
C	5.591112231	-3.384946432	-1.234305142	H	0.297373923	-0.546831556	7.193330325
C	6.624300533	-4.127323424	-0.664949932	C	5.311013967	0.394787408	2.801952700
H	5.575022233	-4.146666538	2.568499993	C	4.587466165	1.115011979	3.758996194
H	3.737701974	-2.359155350	-0.881037093	C	6.699811800	0.249491442	2.954960385
H	7.421476098	-4.970767874	1.154715318	C	5.241279029	1.718307029	4.832994042
H	5.599582300	-3.157840672	-2.296061332	C	7.353252661	0.862156265	4.022511070
H	7.446176539	-4.478767557	-1.281736963	C	6.625929878	1.600716663	4.960295246
C	2.250815579	-4.054840407	2.682893240	H	3.514863299	1.212488460	3.656936643
C	0.992193251	-3.817913878	3.263898588	H	7.266567801	-0.347699119	2.246327720
C	2.749375540	-5.365395020	2.649520571	H	4.668464325	2.282668725	5.563307959
C	0.248228287	-4.870374053	3.797607754	H	8.428966934	0.755882225	4.128241117
C	2.001918621	-6.414788883	3.183493035	H	7.138404625	2.072899157	5.793503400
C	0.751871959	-6.171263476	3.757278701	C	5.078508363	-2.125434370	1.482501992
H	0.595280453	-2.806679582	3.313018035	C	5.681592332	-2.750388780	0.380951271
H	3.703729659	-5.576467381	2.180920447	C	4.953682550	-2.829380300	2.693180412
H	-0.722873773	-4.673333931	4.242220553	C	6.157437029	-4.058574960	0.491811409
H	2.396513699	-7.426336698	3.148659441	C	5.432685568	-4.134262318	2.793602343
H	0.171890198	-6.992803384	4.167335448	C	6.035425555	-4.753701881	1.695378913
C	4.074586091	-1.932157730	3.392805683	H	5.796195860	-2.222355087	-0.559403515
C	3.795188948	-2.297613979	4.716941312	H	4.478893434	-2.360391024	3.547012719

H	6.630119433	-4.529756012	-0.365218879	H	2.049792193	0.151410513	-2.574472173
H	5.335309052	-4.667541146	3.734932771	H	1.036297834	-1.244810732	-3.033969093
H	6.409924907	-5.769628537	1.778979980	H	-0.535443686	2.285661660	-4.135778953
C	5.103773776	0.263479278	-0.166143673	H	1.065204712	2.467663183	-3.368614090
C	4.406345186	-0.093773431	-1.336608496	H	-1.528139730	1.608274797	-2.045564779
C	6.213551176	1.110621977	-0.267961587	C	-1.574997318	-0.251394012	0.159883717
C	4.817558914	0.383039712	-2.581307257	C	-1.289961226	0.857373002	0.864305182
C	6.619161369	1.587127545	-1.516081437	C	-2.799200729	-1.120809773	0.215329435
C	5.926601837	1.228283722	-2.673270544	C	-2.231167927	1.595350656	1.726776611
H	3.554531525	-0.769593077	-1.276815884	P	1.265766103	2.855240217	2.017452287
H	6.748424942	1.426299667	0.619875148	H	-3.566721542	-0.682505477	0.852882094
H	4.277088230	0.089056858	-3.476929950	H	-3.201276993	-1.292641595	-0.789674023
H	7.473008764	2.254526574	-1.577884111	H	-2.525032147	-2.095229594	0.637941576
H	6.247514324	1.603755678	-3.640351398	C	1.124249042	2.512901843	3.811474554
C	3.975412867	3.513395436	0.541633327	C	2.194284587	2.712223224	4.694314351
C	4.201981980	4.069705734	-0.723959949	H	3.169767808	3.001551549	4.321307829
C	4.950607753	3.683133548	1.539263747	C	2.018739897	2.514387015	6.064238508
C	5.383110428	4.765966018	-0.988219745	H	2.860643542	2.658839385	6.734079930
C	6.128178204	4.375849263	1.271031839	C	0.780965911	2.117049143	6.571383524
C	6.350467988	4.918622556	0.003393447	H	0.651688603	1.963399998	7.638507263
H	3.461116736	3.982864914	-1.509180674	C	-0.287868894	1.911907645	5.696954483
H	4.788009744	3.289925575	2.535577738	H	-1.256460468	1.598615386	6.075936218
H	5.539107911	5.195185129	-1.973924416	C	-0.117245882	2.105994114	4.326803717
H	6.867497107	4.497879982	2.057520394	H	-0.962034287	1.949510071	3.670071809
H	7.265604201	5.465443215	-0.205153424	C	3.043006150	3.061732833	1.601671868
C	1.871830700	3.694088650	2.411223733	C	3.785795950	4.170192987	2.038059380
C	1.502590722	3.157983139	3.651714284	H	3.319379028	4.921780721	2.668162554
C	1.879374620	5.092786802	2.255590647	C	5.118571859	4.320126047	1.653623501
C	1.139911358	3.995679691	4.709898122	H	5.684364220	5.177392923	2.006199354
C	1.510129409	5.925720831	3.308735843	C	5.721624984	3.383974792	0.808948622
C	1.139739172	5.379675960	4.541822888	H	6.757013220	3.510051079	0.507427796
H	1.490321979	2.087165902	3.800862035	C	4.985622946	2.290721119	0.347633368
H	2.183751815	5.528354362	1.308296141	H	5.440549271	1.557410184	-0.311738848
H	0.858983327	3.560620196	5.664918112	C	3.657347760	2.135333322	0.743108715
H	1.518977790	7.002906676	3.169849489	H	3.114475362	1.260179802	0.387165396
H	0.858465724	6.030975106	5.363934124	C	0.618168516	4.561689855	1.840631212
C	1.257587693	3.017631526	-0.359740014	C	-0.139092390	5.174246254	2.849345574
C	1.527110820	2.461955875	-1.624507421	H	-0.365544758	4.640986921	3.765679474
C	0.064564569	3.728281873	-0.173805868	C	-0.601681535	6.481495485	2.688125611
C	0.634148616	2.633049277	-2.679804714	H	-1.178673184	6.945458733	3.483083411
C	-0.836758499	3.883965543	-1.230830940	C	-0.320139605	7.191421319	1.520192680
C	-0.554888178	3.341439784	-2.484068199	H	-0.682299647	8.207712938	1.397661820
H	2.437526833	1.887830150	-1.782683940	C	0.445747478	6.592482701	0.516577059
H	-0.164963580	4.168838828	0.791151801	H	0.685331477	7.142057981	-0.388934353
H	0.862085053	2.207747385	-3.653169067	C	0.917348447	5.291280024	0.676420211
H	-1.758294011	4.436764885	-1.071833006	H	1.540112023	4.855815963	-0.096681443
H	-1.255436366	3.468354545	-3.304003945	O	-2.104990474	2.932279388	1.609024503
=====				O	-3.037470294	1.061197042	2.469354920
9A				C	-3.037470294	1.061197042	2.469354920
=====				C	-3.051889754	3.710261827	2.372845696
Rh	0.663257432	1.160847339	0.563500252	H	-4.073580846	3.419061554	2.119849072
C	-0.455414611	-0.640883570	-0.743290678	H	-2.856807219	4.746254257	2.103563084
C	0.072675051	2.530973183	-0.909139060	H	-2.892687239	3.556887296	3.443983809
C	0.059012123	0.195608797	-1.692332135	P	1.594762667	-0.800939394	1.987647993
C	-0.434104225	1.613439363	-2.012754057	C	2.780494776	-1.838460313	1.037896388
C	0.164069927	1.834953673	-3.429000272	C	3.476233558	-2.896534342	1.649385336
C	1.019182964	-0.176695926	-2.804102601	C	3.022675758	-1.567778563	-0.314215748
O	0.505888054	0.536051887	-3.917509681	C	4.370696317	-3.670830830	0.913100841
H	-0.647606393	3.262293395	-0.545878241	C	3.925210980	-2.337422269	-1.051193679
H	1.008870854	3.024326881	-1.194503327	C	4.597650504	-3.395295676	-0.439373147
H	-0.114864280	-1.676528350	-0.710429720	H	3.318980517	-3.109678272	2.702656532
H	2.503689403	-0.748076843	-0.794924889				

H	4.896223093	-4.489224902	1.396541651	C	-0.762060697	2.230632020	4.216287446
H	4.100003168	-2.109460901	-2.099026192	H	-1.311747498	1.755521086	3.408619549
H	5.298361397	-3.999037895	-1.008105053	C	2.901291849	2.929798965	2.295365378
C	2.545555572	-0.582394167	3.555832651	C	3.661431892	3.480136287	1.249753916
C	2.049330055	-0.952081706	4.812337936	H	3.189037086	4.061834016	0.468006914
C	3.849513888	-0.063115545	3.468784574	C	5.045098066	3.305567723	1.212796844
C	2.841325953	-0.807280355	5.954045729	H	5.615977391	3.743014761	0.398822372
C	4.634599641	0.080770453	4.610203552	C	5.694211073	2.583976151	2.217194240
C	4.133933272	-0.292288849	5.860301052	H	6.770901409	2.447536119	2.183958885
H	1.051659520	-1.365469309	4.909319610	C	4.948222173	2.050065335	3.268426683
H	4.265662712	0.212318576	2.505203106	H	5.434118811	1.490085903	4.061534103
H	2.441240138	-1.104231625	6.919315388	C	3.564352243	2.218286094	3.308411873
H	5.642297748	0.476838995	4.520382609	H	3.009162894	1.783483999	4.129010112
H	4.748544345	-0.189014988	6.749783512	C	0.592285780	4.650262917	1.677779552
C	0.213162710	-1.918866826	2.434751032	C	-0.055849492	5.531985371	2.557835662
C	0.148392993	-3.262211120	2.037816300	H	-0.273394239	5.231611204	3.576051192
C	-0.853779259	-1.372600552	3.167727036	C	-0.435252470	6.806386782	2.133945201
C	-0.951810425	-4.046249257	2.392346430	H	-0.936361009	7.471598542	2.830959036
C	-1.946323410	-2.158130663	3.525184909	C	-0.176961943	7.223805938	0.828674988
C	-1.996460330	-3.499843554	3.139584366	H	-0.474765167	8.215275797	0.501714134
H	0.953588899	-3.704703910	1.460979618	C	0.464585170	6.354280392	-0.055808524
H	-0.837864600	-0.328511073	3.455578748	H	0.668890101	6.665403718	-1.076065926
H	-0.989014171	-5.087328846	2.084446947	C	0.840479169	5.078452255	0.361108345
H	-2.764856468	-1.712560361	4.082035714	H	1.317476080	4.422024034	-0.354758010
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C	0.749528770	-1.677708506	-1.290638308	C	4.873438121	-2.831615986	0.762036887
O	1.194920654	-1.312379351	-2.592151577	C	4.853779498	-0.622044189	-0.213145508
H	0.191452328	2.797294144	-1.053083425	C	5.414663539	-1.896895500	-0.124957065
H	1.816027893	2.073346077	-0.810152501	H	3.380712002	-3.225280574	2.253793463
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H	-2.095758843	3.387961092	1.862702942	H	0.413573730	-0.076366325	4.972221387
H	-1.663905246	3.774087317	0.211010307	H	4.359881298	-1.270150559	3.700791423
H	-3.231910184	2.986407603	0.561275636	H	1.165075935	-0.065945967	7.294754872
P	1.063792106	2.958357574	2.232326402	H	5.105999586	-1.246232899	6.037807991
C	0.461346972	2.870518339	3.958018905	H	3.522593375	-0.647716770	7.862775492
C	1.147913187	3.488182478	5.015607378	C	0.462860086	-2.068709989	2.404537058
H	2.087209805	3.999879722	4.831393833	C	0.597771742	-3.285327566	1.722557160
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H	1.172455198	3.916538844	7.122012153	C	-0.448179237	-4.211857803	1.713526756
C	-0.587062063	2.803783819	6.557918940	C	-1.789331679	-2.725967735	3.059380856
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11A

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11B

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H	0.838504710	-0.573501215	2.589540165	C	-5.716718695	4.937135119	2.477798507
C	2.779753254	2.247544908	2.449436966	C	-5.040008764	5.923568269	3.197837960
C	3.570155178	1.091620928	2.485682455	H	-1.899195302	5.408138937	2.002952764
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C	4.832852002	1.084629085	1.887296824	H	-3.129134078	6.859411280	3.566371432
H	5.437140823	0.182974075	1.926452441	H	-6.788207056	4.810672492	2.602491799
C	5.320462237	2.227528513	1.252960863	H	-5.582634026	6.564469654	3.886366562
H	6.303747735	2.219050360	0.792180903	C	-3.796413579	1.865498679	-0.252883264
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H	4.920537079	4.289443102	0.751532801	C	-4.264356355	0.979946833	0.733970775
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H	2.691028002	4.311577419	1.809069421	C	-5.101095141	-0.079798297	0.394063106
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C	2.140519127	4.319555372	4.785707058	H	-3.848154896	2.345246081	-2.361914870
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C	2.026369689	5.435858320	5.615059138	H	-5.300852445	0.448911981	-2.959689097
H	2.916448741	5.857794407	6.072598364	H	-5.463083269	-0.749396011	1.168880920
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H	0.693019126	6.877727230	6.503072596	=====			
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H	-1.344133561	5.894407566	5.460416590	=====			
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C	5.843807157	-1.789435180	-0.884608332	C	4.607162052	-1.916781176	2.755321882
H	5.859862397	-2.872011155	-0.799986656	C	5.863272849	-2.219275646	3.304559481
C	4.678812443	-1.092423932	-0.563474242	C	3.853804695	-2.945477658	2.165156842
H	3.800317296	-1.638512390	-0.236698748	C	6.352804351	-3.525208089	3.255784023
C	2.182093970	1.260752975	-1.775052516	C	4.339383415	-4.250562189	2.131256410
C	2.299076741	0.215416242	-2.707109827	C	5.592708648	-4.542435247	2.674628243
H	2.948396116	-0.630096028	-2.505394314	H	6.461079418	-1.439909626	3.766077581
C	1.600527525	0.265179354	-3.912326379	H	2.889559453	-2.741911378	1.714890989
H	1.705592881	-0.545404678	-4.627654468	H	7.328140927	-3.747387829	3.679305648
C	0.783785149	1.358931641	-4.205177221	H	3.730554129	-5.029062734	1.680690192
H	0.248011760	1.400956521	-5.148903560	H	5.976926056	-5.557940222	2.645274521
C	0.668374113	2.403335534	-3.286356973	C	5.297160084	0.901618426	3.100999094
H	0.046609375	3.263726889	-3.518023940	C	5.281535691	1.908562941	4.078016715
C	1.355931542	2.356721300	-2.074132436	C	6.375085317	0.829377224	2.203835009
H	1.257806952	3.170619350	-1.365432229	C	6.319749234	2.837028415	4.143087859
C	3.525045976	2.894705757	0.216352882	C	7.407364721	1.762425491	2.273222351
C	3.958017658	3.771658896	-0.794027134	C	7.379904342	2.771332905	3.237770186
H	3.975510800	3.448568941	-1.830397466	H	4.464121535	1.971654054	4.788985388
C	4.348593044	5.070496335	-0.473549148	H	6.416533782	0.042026489	1.460856580
H	4.678644404	5.742105686	-1.260676972	H	6.300245656	3.610735995	4.905268330
C	4.308798751	5.507043117	0.852406508	H	8.233265552	1.697247896	1.570815909
H	4.613373841	6.519992925	1.099320669	H	8.184804838	3.498754744	3.288799036
C	3.863926753	4.646117185	1.855702893	<hr/>			
H	3.818517332	4.984228661	2.886468916	10			
C	3.465809567	3.349739116	1.537731795	<hr/>			
H	3.090568717	2.694311669	2.312974362	C	0.614980944	-0.304813913	-0.439140705
H	0.656797578	-0.799283228	-0.850191718	C	0.141545738	-0.267720376	1.014534034
			Rh	1.873947775	-0.466473381	2.333438860	
			C	1.114204498	-2.390085715	1.653145863	

C	2.141713381	-1.932762245	0.760937876	C	0.669328276	-1.072711222	5.378777608
C	1.714749544	-1.363828483	-0.585646525	C	1.974419372	-2.903549343	6.274245555
C	3.060077039	-0.960808220	-1.189109304	C	-0.344917695	-1.342935794	6.296412803
C	3.488960125	-2.553712276	0.503767681	C	0.953890125	-3.176766110	7.185412205
O	4.024105388	-1.877448216	-0.639681077	C	-0.205299891	-2.397780110	7.199740776
H	-0.230716521	-0.511320969	-1.104051427	H	0.528294791	-0.254470126	4.675518967
H	0.986748777	0.686417629	-0.709247148	H	2.876763141	-3.506814190	6.282960963
H	1.170299401	-3.302319835	2.234016826	H	-1.243269769	-0.732435519	6.299160494
H	4.180698295	-2.467080858	1.344819148	H	1.068771426	-3.995075414	7.890339383
H	3.372752596	-3.628033684	0.284181027	H	-0.995176746	-2.611281841	7.913950575
H	3.088987821	-1.042088861	-2.279616625	C	4.138665850	-2.912188062	3.893649383
H	3.317554970	0.068088280	-0.910923841	C	5.536647264	-2.895039552	3.774033620
H	1.335283763	-2.228884918	-1.150577622	C	3.457682494	-4.123079812	3.671553150
C	0.008000732	-1.509607675	1.765516197	C	6.230307721	-4.053734811	3.419228829
C	-1.141435042	-1.846000855	2.674939653	C	4.154459627	-5.278332948	3.320254317
C	-0.806880137	0.815743843	1.410033633	C	5.544321721	-5.245278239	3.182245360
P	2.862717878	1.712724865	2.054636504	H	6.093974292	-1.985298776	3.965370655
H	-1.503517530	-0.972043820	3.215086545	H	2.380741427	-4.171046767	3.796077961
H	-1.966322487	-2.225498401	2.057501946	H	7.312665504	-4.022078882	3.334687459
H	-0.865347335	-2.618779212	3.395122869	H	3.611416686	-6.205150309	3.159143315
C	2.551521195	2.865352310	3.451015178	H	6.087583268	-6.143397009	2.904637396
C	2.687158155	4.256995220	3.297211644	C	4.267060768	-0.312770979	5.240946410
H	2.937385801	4.676865068	2.327740646	C	3.986432610	-0.102685532	6.601232344
C	2.481745394	5.110039375	4.380400552	C	5.359398706	0.356568212	4.665549407
H	2.590028507	6.182460929	4.245827333	C	4.780546373	0.755970421	7.360260445
C	2.132650134	4.591482606	5.630321355	C	6.151209361	1.213365399	5.428676951
H	1.970788932	5.259199980	6.471256740	C	5.863632881	1.414945804	6.778702446
C	1.980955118	3.213711185	5.787797351	H	3.147706328	-0.599785342	7.074509363
H	1.702338829	2.798197020	6.751688347	H	5.595611654	0.220437156	3.618749849
C	2.185065037	2.359179164	4.704735421	H	4.548340897	0.909828789	8.410237117
H	2.067586753	1.293418344	4.848998813	H	6.984166118	1.726150940	4.957599579
C	4.687296927	1.683661406	1.809254938	H	6.475414324	2.087865941	7.372557513
C	5.261728842	0.574179002	1.170524940	=====			
H	4.646540692	-0.248881760	0.834779849	12			
C	6.639611213	0.507460720	0.960396544	=====			
H	7.058665502	-0.359720862	0.458402856	C	-0.305607766	0.006773210	0.728868002
C	7.465264190	1.545550947	1.396626585	C	-0.123874996	0.572005608	2.135584801
H	8.539150297	1.493640644	1.243665008	Rh	2.057355492	-0.549874004	2.646021186
C	6.899078460	2.657136116	2.026624879	C	0.283674968	-1.675436651	3.127399765
H	7.533008802	3.471845195	2.365340493	C	0.531460410	-2.124133507	1.832811581
C	5.520390746	2.730581967	2.230071609	C	-0.219499320	-1.515503137	0.670442579
H	5.105189509	3.592473816	2.740332225	C	0.420848785	-2.236992924	-0.516870626
C	2.291662225	2.678105864	0.596364146	C	1.025449812	-3.468205488	1.348044145
C	3.055989436	2.749904719	-0.577943650	O	0.627641551	-3.562274920	-0.019983944
H	4.040007020	2.294660528	-0.618955812	H	-1.284291468	0.341719629	0.359311377
C	2.568789241	3.427342532	-1.696973753	H	0.432764737	0.471296533	0.069696716
H	3.171039896	3.474806496	-2.599718312	H	0.325308954	-2.318667351	3.994209655
C	1.322468787	4.051687766	-1.652103765	H	2.115384014	-3.527282252	1.431063346
H	0.946395085	4.582227721	-2.521936188	H	0.589566358	-4.308006472	1.903353165
C	0.567081360	4.003931312	-0.478623462	H	-0.220560851	-2.306254123	-1.398582308
H	-0.395957384	4.503665787	-0.433207911	H	1.369236230	-1.761447125	-0.799145194
C	1.042983372	3.319265364	0.637433107	H	-1.231954830	-1.937384793	0.776260021
H	0.452528626	3.293025436	1.548159166	C	-0.074762702	-0.263932346	3.262693209
O	-1.461719442	1.328581703	0.355750259	C	-0.249992552	0.231287248	4.674433572
O	-0.978720380	1.199808293	2.557778064	C	-0.382102710	2.055017311	2.203427501
C	-2.431719245	2.353246726	0.652187905	H	-0.227356594	2.481752277	3.189228165
H	-3.222599532	1.951992921	1.290582194	H	0.257489413	2.576454399	1.485316502
H	-2.832812144	2.662599074	-0.312278332	H	-1.418566144	2.247537348	1.895249811
H	-1.959683953	3.194416942	1.164163306	P	3.476885589	1.275165111	1.872976682
P	3.181828040	-1.369917862	4.192269004	C	3.288656613	2.882186651	2.728449478
C	1.839023766	-1.852337894	5.353930841	C	3.993664301	4.016102642	2.285157789

H	4.667293185	3.941329037	1.436092940	C	4.482429206	-4.086633577	1.929643485
C	3.836885819	5.236944976	2.937521006	C	5.928273416	-2.153901551	1.812891356
H	4.380809776	6.108427841	2.584601284	C	5.222930109	-4.700578243	0.919140821
C	2.988214770	5.339626939	4.045136719	C	6.663984758	-2.772095336	0.802115415
H	2.871450980	6.292546682	4.552997867	C	6.314324337	-4.044405438	0.347350623
C	2.298666976	4.214292444	4.496410121	H	3.648360720	-4.625554898	2.365340998
H	1.637741550	4.280129817	5.355860542	H	6.223338060	-1.168799397	2.147386256
C	2.448413293	2.989969821	3.841445846	H	4.943631238	-5.694451354	0.581969879
H	1.894111746	2.130617735	4.197336929	H	7.511961685	-2.247273811	0.372535059
C	5.312996393	1.225701716	1.641719551	H	6.888255417	-4.522756009	-0.440471469
C	5.924714755	0.956036907	0.407578713	=====	=====	=====	=====
H	5.329833829	0.789986175	-0.481839875	13	=====	=====	=====
C	7.315877635	0.909222554	0.299534930	=====	=====	=====	=====
H	7.767396077	0.704656941	-0.667251741	C	1.488389845	5.497343958	10.780622588
C	8.120598459	1.130387494	1.417842108	C	1.134248994	6.830348934	10.523618665
H	9.202344906	1.090261788	1.331399033	H	1.111294248	7.552952380	11.331397643
C	7.520525711	1.425385168	2.644561773	C	0.805807603	7.262623434	9.234529653
H	8.130029435	1.614313361	3.523021247	C	0.479288971	8.715463338	8.979389770
C	6.132203121	1.478598568	2.755872713	C	0.804262445	6.324435214	8.198427901
H	5.691297465	1.720703803	3.715246833	H	0.537685674	6.644723567	7.193093211
C	2.859638872	1.508721320	0.160525683	C	1.130696607	4.981708061	8.422233107
C	2.283678537	2.700241392	-0.300352748	C	1.123654037	3.992185478	7.280025478
H	2.206628731	3.560164365	0.356721987	C	1.471196537	4.579547646	9.7117502124
C	1.808550757	2.789635402	-1.611359032	H	1.724259324	3.539919648	9.888638651
H	1.358410309	3.716421399	-1.955333482	C	2.062671119	3.138163644	12.312480696
C	1.917042297	1.701905846	-2.478007481	C	3.183513973	2.521660754	11.752691836
H	1.553185692	1.779270697	-3.498308106	H	4.049421951	3.114729606	11.472191863
C	2.493426290	0.511372346	-2.028056089	C	3.211789407	1.132816208	11.558227066
H	2.578038351	-0.341598984	-2.695377688	C	4.449412683	0.475816096	10.996460399
C	2.949841182	0.410413944	-0.714921255	C	2.085080296	0.385013831	11.914896730
H	3.372972340	-0.527010480	-0.361116916	H	2.094987391	-0.692192106	11.760900165
O	0.051116121	1.326888551	5.108025688	C	0.938908470	0.984808636	12.457543228
O	-0.779099349	-0.739294663	5.441554080	C	-0.269945322	0.150792053	12.810649470
C	-0.952577907	-0.407219292	6.837922152	C	0.939815464	2.367337782	12.655532865
H	-1.390696575	-1.294601135	7.292979658	H	0.059636333	2.850425212	13.076494899
H	0.013712979	-0.172267628	7.292210742	C	3.549694922	5.724025593	12.910704962
H	-1.616792452	0.453044548	6.944511024	C	3.814618707	7.003470473	12.341581682
P	3.734986362	-1.893323848	3.557894363	H	3.225229486	7.347566922	11.502998411
C	3.142647251	-3.117315001	4.813654162	C	4.826606269	7.803036966	12.806704924
C	2.117878910	-2.710003068	5.684551233	H	5.017160725	8.766549964	12.340625494
C	3.781148295	-4.342349559	5.058883932	C	5.637610814	7.388795707	13.890104593
C	1.706050982	-3.524563398	6.736780186	C	6.667717695	8.216106263	14.409159774
C	3.362194946	-5.160090942	6.111194298	H	6.825263119	9.194676691	13.962772299
C	2.318847809	-4.761930824	6.947042737	C	7.457588327	7.783964414	15.449448429
H	1.649041191	-1.741073516	5.554231817	H	8.247247633	8.420352161	15.838230687
H	4.616447667	-4.662413740	4.446638588	C	7.243751659	6.503638805	16.011463968
H	0.909137217	-3.189003565	7.394454926	H	7.867104728	6.168450112	16.835708686
H	3.863873147	-6.108522869	6.280199448	C	6.256683311	5.677751442	15.525320673
H	1.997445286	-5.401026392	7.763761051	H	6.101873197	4.704909930	15.975383415
C	4.799909879	-0.869086072	4.654706923	C	5.421209059	6.088435624	14.448577431
C	4.190903708	0.205089465	5.323742187	C	4.382703204	5.242777807	13.922281863
C	6.139001711	-1.173690840	4.931903332	C	4.321650972	3.834846653	14.435333592
C	4.918464421	0.986680193	6.220263271	C	5.393315302	2.953900019	14.050988823
C	6.866520942	-0.384929335	5.824247697	C	6.413615950	3.346096541	13.136686800
C	6.264736861	0.702145818	6.462290604	H	6.382953977	4.335515743	12.696181279
H	3.147939244	0.442866297	5.133962770	C	7.438165019	2.489500509	12.802993226
H	6.622700022	-2.014621407	4.445853809	H	8.204103670	2.813510015	12.104248527
H	4.436212542	1.824775017	6.714877972	C	7.506033696	1.191766042	13.363249434
H	7.908556969	-0.621666159	6.019497445	H	8.326208292	0.530264477	13.099698664
H	6.837385717	1.315559909	7.151481774	C	6.526128582	0.770424892	14.231328347
C	4.823792404	-2.801448574	2.392110537	H	6.558316100	-0.227738404	14.659274588

C	5.451277510	1.627482766	14.586657746	H	-1.077536087	0.767582534	13.216165105
C	4.432325971	1.208456496	15.473074773	H	-0.659146061	-0.372476034	11.929921337
H	4.477217523	0.208242374	15.896570120	H	-0.018088480	-0.616434203	13.552192999
C	3.400207262	2.047580275	15.804658125	H	1.308017048	2.972012529	7.628187225
H	2.646138157	1.693764053	16.493694140	H	0.162599614	4.001479907	6.753912188
C	3.321200761	3.369965907	15.284166715	H	1.896466915	4.239092243	6.542706713
C	0.958906397	3.432688303	16.957685488	H	-0.090465836	8.843468076	8.055043768
C	0.757242484	3.781521646	18.293300811	H	-0.105747606	9.144649730	9.799795179
H	1.228041323	4.668872129	18.705768194	H	1.395389325	9.311703923	8.885832278
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C	1.449165290	5.613263163	11.105344953				
C	0.795334699	6.823960656	11.397250039				
H	0.713641934	7.157061495	12.429201797				
C	0.244694080	7.604667439	10.379146130				
C	-0.436899995	8.917606064	10.684348331				
C	0.349331313	7.147682950	9.058097680				
H	-0.080669989	7.746002879	8.256924351				
C	0.983956810	5.943752784	8.740595596				
C	1.054216411	5.464821674	7.309421332				
C	1.534637036	5.179259481	9.778755978				
H	2.019586353	4.238813433	9.539721632				
C	2.686247860	3.042169838	11.864533875				
C	3.768281615	3.027477344	10.970702068				
C	4.214553969	3.962655407	10.641743506				
C	4.297631668	1.818186777	10.514501306				
C	5.487364605	1.791325445	9.586937623				
C	3.739246085	0.624898196	10.990865960				
H	4.161167875	-0.321450726	10.658687999				
C	2.673923941	0.613050491	11.895647382				
C	2.153913161	-0.684432745	12.464205117				
C	2.143969592	1.836930603	12.319523436				
H	1.335881948	1.851507382	13.044326400				
C	3.595199914	5.498073152	13.108517775				
C	3.859570344	6.818120526	12.655386994				
H	3.230793515	7.261024722	11.892915145				
C	4.912611534	7.539008013	13.160545811				
H	5.110511994	8.543716659	12.795195271				
C	5.760925744	6.988848696	14.150551138				
C	6.847588562	7.729030736	14.685810802				
H	7.013487111	8.742079379	14.328547834				
C	7.680034389	7.173500401	15.628482277				
H	8.514582779	7.743920611	16.025673349				
C	7.450724306	5.852248135	16.081570964				
H	8.113257130	5.416472708	16.824104723				
C	6.395319438	5.115799656	15.594377271				
H	6.227092755	4.110814697	15.962464323				
C	5.520588704	5.653167490	14.608801021				
C	4.421378164	4.909308865	14.066533544				
C	4.213244935	3.497998836	14.535401849				
C	5.147466467	2.494178142	14.114902487				
C	6.243537999	2.784088359	13.254725490				
H	6.377618279	3.794341554	12.888865851				
C	7.136238856	1.803231089	12.888629095				
H	7.975429010	2.052281567	12.245211035				
C	6.971417829	0.472594062	13.341491757				
H	7.682667258	-0.291937605	13.043016856				
C	5.915598924	0.153154844	14.162405983				
H	5.781422952	-0.864168246	14.519544313				
H	4.987735747	1.145839738	14.573063034				

C	3.914927338	0.840907285	15.444258694	H	0.893216186	3.465529735	21.374329622
H	3.806646525	-0.176138218	15.811385048	H	0.200667649	5.020855545	20.911910069
C	3.025617079	1.810566271	15.835910062	H	2.139933614	9.691065838	15.519231921
H	2.218650653	1.549672167	16.509641358	H	3.385937661	10.317230803	16.613270251
C	3.158771540	3.149418310	15.380279215	H	3.840826872	9.627541360	15.049906003
C	0.835670741	3.614236767	17.126858858	H	5.438446116	7.203427299	19.899192272
C	0.862950131	4.043667223	18.456110099	H	5.350594586	5.452744049	19.634325039
H	1.541285110	4.832563168	18.764719914	H	6.474643056	6.439689872	18.689866234
C	0.000992253	3.476539178	19.408520644	=====	=====	=====	=====
C	0.055900012	3.937717224	20.845947764	14	=====	=====	=====
C	-0.885112941	2.477468563	19.001440065	C	1.544423783	4.986412988	10.631220841
H	-1.561532537	2.039145295	19.732435578	C	0.504535120	5.792506571	10.175157769
C	-0.936210888	2.028409500	17.673210559	H	-0.150462409	6.280138534	10.887952297
C	-1.895386645	0.934532522	17.268219844	C	0.311492142	5.987414462	8.796193292
C	-0.076216337	2.612514742	16.742832040	C	-0.825350413	6.859148530	8.315690636
H	-0.117717689	2.290681747	15.704625931	C	1.184040184	5.364192690	7.905172982
C	2.746013662	5.787044693	16.535156686	H	1.044343335	5.511266736	6.836164219
C	3.690098654	5.571606223	17.551328949	C	2.240624292	4.547014975	8.343478744
H	3.866821747	4.566533315	17.926267940	C	3.164046252	3.894914213	7.341561889
C	4.427372430	6.637350637	18.071551339	C	2.407643054	4.358976652	9.712529102
C	5.473403483	6.418741612	19.136648243	H	3.210987658	3.718334870	10.066436178
C	4.216884090	7.917136288	17.539988291	C	1.670562309	2.815727248	12.391698413
H	4.802532748	8.748698093	17.926848849	C	2.718402722	1.905542290	12.245998056
C	3.296132106	8.153505551	16.515996471	H	3.746229256	2.244528657	12.223288954
C	3.152884797	9.523150242	15.898308131	C	2.451407231	0.534620731	12.122640458
C	2.553256431	7.073657805	16.026051400	C	3.593925519	-0.441407547	11.976434679
H	1.852415286	7.225911087	15.211630726	C	1.119293870	0.109477626	12.117560793
P	2.076706586	4.630855833	12.518724652	H	0.903942346	-0.952152308	12.016540063
P	1.850050830	4.379711972	15.802320025	C	0.049262056	1.010779748	12.220310056
Rh	0.390186123	4.685481299	14.060477982	C	-1.380636387	0.531395163	12.140871615
C	-0.732791495	3.612636238	12.751868029	C	0.339579118	2.367250850	12.368370256
C	-1.752999368	4.224226170	13.260553107	H	-0.476616205	3.079480743	12.451335626
H	-0.541728813	3.016222965	11.871279271	C	3.522913121	5.339327860	12.745382485
C	-3.155456302	4.550862291	12.810369708	C	3.728797315	6.580204124	12.061333798
O	-3.889161730	5.135557123	13.860709751	H	3.054508322	6.857939996	11.259237908
H	-3.087066692	5.239881953	11.951743660	C	4.753840925	7.421128629	12.402011760
H	-3.672876460	3.641895436	12.490458457	H	4.895002017	8.354597732	11.864021478
C	-0.616305276	6.017598253	15.390099410	C	5.635950121	7.092956019	13.459855263
C	-1.773018526	5.226070655	14.992987676	C	6.687268960	7.967296653	13.839035284
H	-0.312563940	5.937021926	16.429447879	H	6.802610414	8.905069725	13.302291741
H	-0.566451896	7.031985251	14.993220307	C	7.544616225	7.635211236	14.861244608
H	-2.011685185	4.401613685	15.664823320	H	8.347875936	8.309609640	15.142435008
C	-3.013590496	5.998894677	14.547374723	C	7.382088295	6.407927241	15.546961753
H	-3.543656871	6.367286512	15.430296297	H	8.064676477	6.146329925	16.350379488
H	-2.715709045	6.860229417	13.924805242	C	6.372461150	5.538980645	15.202285840
H	-1.397242998	8.996344234	10.164183183	H	6.272216921	4.602300366	15.736389843
H	-0.621067368	9.037061503	11.756163620	C	5.462372321	5.847638086	14.149414808
H	0.177588691	9.764047897	10.355521662	C	4.394395232	4.958227903	13.775438067
H	1.748301062	4.627249536	7.198770179	C	4.362952552	3.626557025	14.467853993
H	0.070527040	5.129057707	6.960575498	C	5.400713483	2.692222289	14.118838553
H	1.378817289	6.266013376	6.637579246	C	6.305280650	2.928950282	13.044646677
H	5.432282654	0.953190408	8.885552031	H	6.228250648	3.848886659	12.476141406
H	5.574065163	2.716718342	9.010226837	C	7.268981128	2.003814758	12.711641175
H	6.410221743	1.673564475	10.167124212	H	7.943640940	2.203381766	11.884257671
H	1.098829879	-0.609980764	12.744463860	C	7.392973085	0.797900255	13.440718570
H	2.263703664	-1.510716819	11.756207194	H	8.163665361	0.081467541	13.172752388
H	2.714554980	-0.946831063	13.369687525	C	6.535674729	0.536016127	14.484604688
H	-1.994420175	0.867916836	16.180911286	H	6.618952606	-0.388140210	15.050208397
H	-1.550667955	-0.040659703	17.632544771	C	5.520179832	1.461980120	14.841438085
H	-2.891229739	1.102347525	17.691083959	C	4.616667002	1.199582150	15.900308009

H	4.723772357	0.281110319	16.470640893	H	-1.491481832	-0.474362404	12.556211988
C	3.612244230	2.082752567	16.198157213	H	3.907877244	3.259304208	7.830036550
H	2.920085920	1.852037683	16.998987954	H	2.601601250	3.274372227	6.634970716
C	3.457114492	3.299440469	15.473827184	H	3.699599780	4.648451661	6.752706258
C	0.840268810	3.223480045	16.679617262	H	-0.830427878	6.954749959	7.226670413
C	0.337876308	3.439587764	17.963383699	H	-1.793736727	6.446150410	8.621294554
H	0.669072900	4.295581103	18.544789470	H	-0.756086024	7.866701831	8.741818144
C	-0.584799381	2.541242863	18.526746536	=====			
C	-1.110944619	2.779432737	19.923035645	15A			
C	-0.978527401	1.430714626	17.779298200	=====			
H	-1.681106380	0.722462775	18.213501779	C	0.519968038	-0.193796466	-0.543269868
C	-0.483356838	1.191375468	16.487200813	C	0.255356174	-0.135681580	2.143967547
C	-0.923623054	-0.026219073	15.709291083	C	2.675163462	0.016242759	4.332216147
C	0.418702575	2.102551720	15.941753813	C	1.594297724	0.228848335	5.194408734
H	0.820334560	1.923626397	14.948887014	H	0.823121445	0.945659836	4.938228848
C	2.559830228	5.574125082	17.115616606	C	1.496110878	-0.464968629	6.405119201
C	3.832230865	5.548954232	17.687812827	C	0.303439139	-0.255239583	7.308896575
H	4.521973883	4.746717118	17.445486503	C	2.509686727	-1.367990085	6.741401033
C	4.236268036	6.561956487	18.570147891	H	2.445929266	-1.908522643	7.683827696
C	5.637316373	6.556077478	19.132621490	C	3.610416807	-1.589024487	5.905030859
C	3.331555619	7.579959920	18.879293539	C	4.693349809	-2.563612340	6.306495973
H	3.636956898	8.367833800	19.564889319	C	3.685255117	-0.886045447	4.698997161
C	2.041289980	7.624170413	18.329345173	H	4.542720011	-1.044310974	4.052607364
C	1.092004287	8.740381430	18.695560448	C	3.523727063	2.592788962	3.681365032
C	1.671248424	6.617489208	17.437419879	C	4.772950712	2.601145425	4.305093371
H	0.673410524	6.638834536	17.001695791	H	5.444744447	1.754608003	4.197451796
P	1.859945351	4.627615974	12.397230540	C	5.178895500	3.703881560	5.066445655
P	2.006573037	4.369869564	15.855273159	C	6.552256341	3.723026578	5.693144528
Rh	1.010626571	5.767341941	14.110463857	C	4.285794280	4.767842886	5.226441088
C	-0.900832603	5.062440543	14.422907946	H	4.584744341	5.620597267	5.832752154
C	-1.855701034	5.741726259	13.458100279	C	3.008940577	4.760667273	4.650470347
C	-1.274058861	7.073931947	13.056554443	C	2.048375329	5.895024000	4.914183231
C	0.059161314	7.236863693	13.092291991	C	2.641644699	3.667012692	3.862044064
H	0.552664677	8.156611999	12.765775715	H	1.657232575	3.640202045	3.406278051
C	-2.433756002	8.020918738	12.818557081	C	4.047701001	0.218344050	1.757925679
H	-2.003447826	5.124490500	12.558826197	C	3.692288723	-1.148838124	1.529632327
C	-3.242770448	6.188539472	13.970141486	H	2.888116812	-1.597596184	2.099309583
H	-0.922307145	3.972176808	14.431651501	C	4.345854037	-1.900322710	0.587936433
H	-1.040311797	5.434762392	15.450000812	H	4.054438157	-2.934153996	0.428577287
H	-2.376903746	8.894766295	13.487231408	C	5.375215528	-1.334755682	-0.200550654
H	-2.491031649	8.387528294	11.786148817	C	6.063828348	-2.102555544	-1.176265850
H	-4.017726575	5.420045375	13.915803752	H	5.809611587	-3.153689159	-1.285279008
H	-3.166090520	6.544921934	15.012514139	C	7.029735797	-1.528209005	-1.969005351
O	-3.608154919	7.245617859	13.084080025	H	7.551647577	-2.123844947	-2.712346073
H	0.140256677	8.654064630	18.163380676	C	7.336821753	-0.153437148	-1.826529203
H	0.877882029	8.737347736	19.770410090	H	8.081412461	0.300029990	-2.473999353
H	1.524361631	9.718372068	18.456289675	C	6.700346279	0.613268078	-0.879576674
H	5.740389723	7.244779765	19.975340906	H	6.938763337	1.665565183	-0.791482409
H	5.926879189	5.555971139	19.472318998	C	5.712388368	0.049476812	-0.024296259
H	6.356182448	6.858029395	18.361010195	C	5.037205771	0.823921255	0.976922429
H	-1.795114585	1.986880727	20.237666416	C	5.405938019	2.264970147	1.150396336
H	-0.291574128	2.824703719	20.649640634	C	6.680126623	2.587654351	1.727606010
H	-1.648971301	3.732447538	19.985012308	C	7.585686948	1.591256504	2.190553496
H	-0.260920832	-0.216386460	14.860966117	H	7.309710985	0.545541870	2.112681158
H	-0.934081696	-0.918918970	16.343188672	C	8.807421044	1.935427634	2.725217423
H	-1.939785737	0.103105535	15.317742406	H	9.482730383	1.156728552	3.067713397
H	3.253504547	-1.476140763	12.067684761	C	9.195463879	3.293285998	2.829127073
H	4.074939393	-0.333435374	10.997056766	H	10.165686858	3.549326203	3.243916820
H	4.364069538	-0.263386469	12.733486489	C	8.336530467	4.282745880	2.407368860
H	-2.058218479	1.199034368	12.681625115	H	8.617301261	5.329639530	2.487910293
H	-1.716921782	0.493787853	11.097874587	C	7.066300765	3.960853385	1.858520257

C	6.169152209	4.965658705	1.423343125	H	-0.522142944	-0.921317358	7.028000153
H	6.461183968	6.008621652	1.516632843	H	6.682388307	4.583818690	6.354937988
C	4.952559891	4.640383288	0.877819481	H	6.730474747	2.814492677	6.279066089
H	4.298399142	5.433904663	0.540268116	H	7.327424583	3.768129628	4.920952702
C	4.551590471	3.284315805	0.733619117	H	1.131740817	5.796156606	4.318702631
C	2.135169624	4.464578721	-0.434114138	H	1.757408763	5.919960801	5.975480883
C	1.747965644	4.869287206	-1.716431062	H	2.507072707	6.868389688	4.684656272
H	2.009324090	4.267758670	-2.581018095	H	2.807596691	-1.119131803	-3.725884730
C	1.041505309	6.065220181	-1.919014943	H	3.931507820	-0.810741558	-5.061387357
C	0.644462403	6.474709307	-3.318615815	H	4.534614631	-1.424216656	-3.514673235
C	0.736833428	6.858618107	-0.811892965	H	6.584270033	3.323282909	-5.143506389
H	0.201189739	7.793928219	-0.958421746	H	5.291178479	4.521374692	-5.047210413
C	1.121965089	6.488788902	0.484778498	H	6.520460367	4.456694368	-3.782716295
C	0.776923379	7.369598340	1.662027723	H	0.122125421	7.435043159	-3.326226875
C	1.811489350	5.286193547	0.662247546	H	1.523642957	6.564831920	-3.967055221
H	2.133748194	5.005249620	1.661004560	H	-0.017054977	5.729637275	-3.776117529
C	3.651866441	2.350017144	-1.756194984	H	1.544616176	7.263948460	2.478762238
C	4.477184365	3.238757583	-2.463076935	H	0.724417023	8.451231838	1.345626620
H	4.671020068	4.231318975	-2.064395410	H	-0.235258570	7.082793437	2.088261834
C	5.056359720	2.864914245	-3.677684210	=====	=====	=====	=====
C	5.912286896	3.840118891	-4.452336082	15B	=====	=====	=====
C	4.808587637	1.574556536	-4.166910466	C	0.828553357	0.557544975	-1.204721043
H	5.259919194	1.272308661	-5.109809611	C	0.359890398	-0.373386448	1.938313809
C	4.012502044	0.660836320	-3.471983564	C	2.390896592	0.345311828	4.566581726
C	3.806673717	-0.747187196	-3.976592450	C	1.122983414	0.295680553	5.147833175
C	3.438980098	1.063501396	-2.259415530	H	0.257448482	0.640217589	4.600682297
H	2.841203950	0.355611149	-1.698675460	C	0.957345620	-0.195125299	6.451509156
P	2.872642915	1.099240068	2.866790295	C	-0.423844958	-0.281511259	7.058202575
P	2.960347083	2.847243158	-0.126222125	C	2.085645844	-0.621094224	7.156007927
Rh	1.463948856	1.127230225	0.999979116	H	1.966558970	-0.995233023	8.170953767
C	-0.102623802	2.441218774	1.484348959	C	3.371757612	-0.572208237	6.597812249
C	-0.721425621	2.005517938	2.795435461	C	4.571490474	-1.029147887	7.394733771
C	-0.670057429	0.502445675	2.854440206	C	3.511375462	-0.084398191	5.299322083
H	0.375112715	-1.215255168	2.124614204	H	4.503712741	-0.031650536	4.858970827
C	-1.833001403	0.044805823	3.709623206	C	3.375523100	2.753093044	3.585843965
H	-0.169225062	2.432456455	3.647525150	C	4.706656500	2.958681625	3.963711897
C	-2.225614715	2.234977551	3.046617475	H	5.454796781	2.195155345	3.784065300
H	0.314383625	3.448378850	1.471651016	C	5.092790671	4.160466222	4.564780359
H	-0.813625119	2.319499607	0.664304410	C	6.539980688	4.388817478	4.933010473
H	-2.474564750	-0.672499171	3.175016032	C	4.109377116	5.124448477	4.833894516
H	-1.517616644	-0.416111035	4.654539580	H	4.400233980	6.054390586	5.317649898
H	-2.476603567	3.213575562	3.464888396	C	2.763797895	4.920349046	4.506939955
H	-2.796124970	2.087852452	2.113144869	C	1.701844330	5.947005289	4.818276984
O	-2.555002523	1.246152736	4.023770175	C	2.411514105	3.732113554	3.855696460
C	0.356770856	0.902179086	-1.095096809	H	1.377201379	3.577674318	3.557671897
C	0.009836072	1.968402995	-2.030516970	C	3.921025954	0.052611924	2.114887019
C	0.473297895	-1.659530886	-0.504596784	C	3.658277585	-1.345053383	2.294944039
H	-0.216465899	2.908504635	-1.520843247	H	2.976568012	-1.651092285	3.079754880
H	0.851396098	2.144412463	-2.707995092	C	4.250316454	-2.293300235	1.503855480
H	-0.859335440	1.659747053	-2.620660744	H	4.057978335	-3.348457314	1.679582524
O	1.154100145	-2.374988586	0.201504851	C	5.106351747	-1.912070552	0.436426109
O	-0.420216021	-2.101128583	-1.403629063	C	5.678517921	-2.872774885	-0.436669838
C	-0.547940278	-3.539684315	-1.483461690	H	5.452814324	-3.923390102	-0.274079777
H	-1.311725065	-3.719350274	-2.238822542	C	6.503689870	-2.486187742	-1.469206256
H	0.403617059	-3.990032128	-1.777000599	H	6.937188764	-3.229539514	-2.131190340
H	-0.853792961	-3.946200327	-0.516333980	C	6.787479899	-1.114041020	-1.666667162
H	5.513004265	-2.579348365	5.582414625	H	7.433301629	-0.809952641	-2.485145172
H	5.113097073	-2.305711435	7.285363338	C	6.252563627	-0.158059156	-0.831508126
H	4.296637676	-3.582393994	6.384720957	H	6.470109809	0.888370384	-1.006114043
H	0.549245563	-0.464956630	8.353961843	C	5.397054123	-0.521788141	0.246143843

C	4.824798042	0.464532475	1.129171919	H	1.325053642	-2.476739412	-1.529281777
C	5.379502559	1.854228380	1.034020327	O	-0.197447682	2.529469098	-2.059112498
C	6.738141023	2.015669037	1.491233924	O	0.625662988	0.952984230	-3.458089729
C	7.434893092	0.988608556	2.189603837	C	0.261375563	1.796081504	-4.576184354
H	6.947634789	0.037484940	2.369829899	H	0.562489073	1.239765810	-5.463500438
C	8.716364991	1.191536483	2.652657638	H	-0.815629452	1.981368247	-4.577708849
H	9.225455527	0.398202783	3.191896871	H	0.800208236	2.744573917	-4.512786664
C	9.377640400	2.421648271	2.431194638	H	5.504066892	-0.878371784	6.843539567
H	10.390591458	2.564913841	2.795238334	H	4.647010451	-0.479667758	8.339758529
C	8.734545443	3.434437860	1.756787178	H	4.497576532	-2.093413648	7.645950305
H	9.231094068	4.385163644	1.581144808	H	-0.392041112	-0.181950265	8.147241879
C	7.408696319	3.263025238	1.282268007	H	-1.085046603	0.495386556	6.661851041
C	6.732291427	4.296414538	0.585927371	H	-0.888510448	-1.249980171	6.833446828
H	7.259869352	5.221361925	0.368203454	H	6.729347207	5.435773029	5.185346032
C	5.431641445	4.134580993	0.192969166	H	6.823438161	3.782215119	5.801397124
H	4.933483889	4.934338556	-0.342216932	H	7.205388372	4.108229551	4.109960570
C	4.715363879	2.932676835	0.467827194	H	1.119831251	6.185530033	3.921520921
C	2.282271265	4.545802353	0.276964489	H	1.002549497	5.568315132	5.572599264
C	1.103906691	4.916659047	-0.386470125	H	2.134758454	6.875516421	5.199019514
H	0.625399550	4.226588738	-1.072552516	H	3.319259111	-0.529963197	-4.473821767
C	0.519995819	6.171180242	-0.171556243	H	4.770108714	0.107856235	-5.261179349
C	-0.747189709	6.546129676	-0.904030543	H	4.860861584	-0.542409378	-3.612294925
C	1.145370178	7.058086603	0.708536612	H	4.209081567	4.934287734	-5.764217084
H	0.709376819	8.041977765	0.871277435	H	2.486453541	5.101833318	-5.421003266
C	2.321766664	6.714350475	1.385708994	H	3.665142502	5.929885521	-4.402447618
C	3.018130760	7.720580995	2.271829262	H	-1.208510651	7.442796013	-0.478102595
C	2.866333185	5.441206380	1.187368106	H	-0.542382492	6.748005347	-1.963797538
H	3.752480800	5.164056127	1.745535759	H	-1.479992824	5.731428274	-0.868337215
C	3.213503753	2.779987878	-1.864759769	H	3.690322315	7.231088512	2.980872090
C	3.187672416	3.905194566	-2.697886254	H	3.617783455	8.413092184	1.668503016
H	2.904767215	4.874066003	-2.298902849	H	2.301058211	8.323150951	2.837608416
C	3.528759201	3.795768548	-4.050797837	=====			
C	3.475329490	5.005201557	-4.955696566	15A-TS1			
C	3.891070496	2.539295698	-4.553380982	=====			
H	4.154867051	2.447519848	-5.605162455	C	0.857199312	0.543455429	-0.879661720
C	3.918915298	1.399668173	-3.742120738	C	0.419049123	-0.448733724	1.771340067
C	4.243151911	0.037592863	-4.305371497	C	2.403631765	0.412152319	4.582879526
C	3.588509814	1.537332289	-2.390675922	C	1.101389560	0.465331477	5.083789630
H	3.614795243	0.661439803	-1.749386836	H	0.312815517	0.918249370	4.494995054
P	2.722158362	1.168534322	2.962965775	C	0.803516909	-0.043736920	6.354984203
P	2.940447232	2.856469586	-0.048411149	C	-0.611486442	-0.010672680	6.883807511
Rh	1.576881153	1.001446861	0.944488199	C	1.839823705	-0.602488339	7.107887667
C	-0.128602252	2.208624713	1.227582114	H	1.620624717	-0.995525588	8.099039550
C	-0.956772137	1.644539586	2.361279709	C	3.157653858	-0.662903563	6.631035815
C	-0.750674564	0.155094440	2.445668236	C	4.251168330	-1.262664437	7.483759911
H	0.591340132	-1.436580353	2.004416229	C	3.428448505	-0.145558947	5.363363017
C	-1.997283283	-0.431400914	3.076876309	H	4.447140192	-0.169585590	4.984391191
H	-0.655067362	2.104893976	3.317011892	C	3.562633882	2.789067255	3.709879985
C	-2.495009786	1.695895954	2.283927767	C	4.904818033	2.949890340	4.062475250
H	0.257113338	3.211260724	1.408454959	H	5.627775516	2.171107308	3.846213328
H	-0.636607837	2.172395003	0.265006046	C	5.336618944	4.129745148	4.679313695
H	-2.425553192	-1.235495160	2.459016363	C	6.799229846	4.316827078	5.005666917
H	-1.822991930	-0.832608747	4.084409738	C	4.385619298	5.110830041	4.994359749
H	-2.940188829	2.636327846	2.619065556	H	4.711806046	6.021354653	5.491730194
H	-2.832112442	1.486205418	1.254504201	C	3.025948838	4.945568950	4.700433658
O	-2.908807410	0.670828804	3.191874111	C	1.995882834	5.970904637	5.108839214
C	1.047045920	-0.567280418	-0.744038808	C	2.630689934	3.786000788	4.026845868
C	1.223113995	-2.005257357	-0.546315884	H	1.585482771	3.662253153	3.750934557
C	0.364610079	1.468267816	-2.249941712	C	3.984701211	0.136861365	2.140325486
H	2.120059384	-2.218599784	0.041725984	C	3.691149218	-1.258345312	2.281569729
H	0.357993626	-2.436756881	-0.035726080	H	3.041288601	-1.578289776	3.087799758

C	4.214849452	-2.186980756	1.423188689	H	0.258697226	3.253495909	1.557934788
H	3.994637942	-3.242738286	1.561593244	H	-0.479654305	2.447093954	0.154100708
C	5.045097612	-1.791373165	0.343058935	H	-2.174630528	-1.465820845	2.528854824
C	5.571164462	-2.737802926	-0.573028533	H	-1.732455833	-0.637355542	4.039879311
H	5.316032120	-3.786459965	-0.443095888	H	-3.082231403	2.393852494	2.094808598
C	6.394148099	-2.339474398	-1.601807362	H	-2.741790816	1.191075657	0.817001591
H	6.795839776	-3.071995454	-2.295683364	O	-2.951797181	0.465990525	2.785701995
C	6.716521017	-0.970733861	-1.757272126	C	0.625516507	-0.565766893	-0.293239176
H	7.360518539	-0.658746022	-2.574487338	C	0.387821097	-2.016107128	-0.454096363
C	6.219658841	-0.028567252	-0.884383420	C	0.553771149	1.186754085	-2.164849838
H	6.464515071	1.016410916	-1.027326489	H	1.213606394	-2.593403254	-0.023005891
C	5.374000488	-0.405853287	0.195645431	H	-0.545752026	-2.340606783	0.013028831
C	4.849001594	0.560934449	1.125857253	H	0.349674745	-2.215657300	-1.530375126
C	5.394713405	1.955663080	1.039418900	O	0.181503042	2.338189431	-2.282436955
C	6.768960443	2.120262601	1.441900056	O	0.694397135	0.330892780	-3.192352509
C	7.509398389	1.081089990	2.072287531	C	0.420895071	0.892852549	-4.497515340
H	7.037994086	0.121288777	2.249122080	H	0.552581629	0.069748424	-5.199088830
C	8.812074575	1.279391588	2.473249568	H	-0.599182499	1.281096094	-4.540277817
H	9.353545872	0.473664691	2.960543395	H	1.129029178	1.698346905	-4.706312225
C	9.453054807	2.520934684	2.254791328	H	5.227499097	-1.195632887	6.995534254
H	10.483204230	2.661351556	2.568766025	H	4.321526155	-0.749419452	8.449426951
C	8.766545950	3.547940431	1.648133984	H	4.052076995	-2.319734991	7.694528793
H	9.245056240	4.508747863	1.476857922	H	-0.634023847	0.198900429	7.957935366
C	7.418219220	3.378352769	1.239289616	H	-1.214003774	0.748627427	6.375635368
C	6.698883972	4.430241208	0.618323564	H	-1.106434639	-0.978318563	6.734803836
H	7.204401945	5.371021105	0.415826165	H	7.005305992	5.329193825	5.363371033
C	5.383616980	4.267456938	0.278835370	H	7.120287630	3.615766450	5.784870608
H	4.855691818	5.081232899	-0.203259478	H	7.424403662	4.129931408	4.125938621
C	4.698400679	3.043152486	0.531052630	H	1.246423318	6.112379348	4.323043467
C	2.226980156	4.614153409	0.310486079	H	1.466703210	5.643513358	6.011715027
C	1.075416198	4.966308740	-0.410550261	H	2.451249470	6.940355189	5.326513076
H	0.658286909	4.274451057	-1.136384088	H	3.184087498	-0.501539944	-4.281197962
C	0.457050032	6.204862771	-0.206960335	H	4.472301835	0.147103065	-5.314342415
C	-0.765244970	6.591207457	-1.006183268	H	4.841402938	-0.452077134	-3.684363965
C	1.018861867	7.089904491	0.719328996	H	4.451387787	5.111211528	-5.523023358
H	0.556022615	8.063934348	0.869310229	H	2.687680247	5.104408553	-5.526335463
C	2.164781843	6.761651144	1.452506203	H	3.559345246	6.022239761	-4.293011723
C	2.796387864	7.772562965	2.381137932	H	-1.447279325	7.215471075	-0.420245763
C	2.747846420	5.502808260	1.263204742	H	-0.481875520	7.167277003	-1.895524430
H	3.618304807	5.237748363	1.850696609	H	-1.312162990	5.708866751	-1.349822791
C	3.214232512	2.846667523	-1.808169650	H	3.546470440	7.308315988	3.026610844
C	3.246528563	3.984492519	-2.624277418	H	3.294668761	8.561742083	1.805081594
H	3.009633381	4.959939038	-2.212466347	H	2.049560271	8.260320694	3.015537463
C	3.565670634	3.878337906	-3.980399283	=====			
C	3.569393206	5.096008690	-4.874161816	=====			
C	3.858731578	2.611481945	-4.505543546	15A-TS2			
H	4.104718769	2.521504531	-5.562089196	=====			
C	3.842109435	1.462601691	-3.709594382	C	0.205689580	1.040996453	-0.362370768
C	4.106088197	0.092948679	-4.285331340	C	-0.223424589	0.697724007	2.598738743
C	3.527347147	1.596565479	-2.350932521	C	2.845236666	-0.195272670	4.373440059
H	3.517920887	0.709662208	-1.724159715	C	1.753299481	-0.044496249	5.234616146
P	2.831623164	1.267106466	3.024525211	H	0.956926109	0.651450245	4.987824039
P	2.928894208	2.947178222	0.005277772	C	1.687865927	-0.758761777	6.438881494
Rh	1.663300208	1.143671870	0.946069108	C	0.491825542	-0.608548069	7.349687561
C	-0.076500080	2.298809221	1.155974652	C	2.742622766	-1.615223671	6.764547152
C	-1.015227167	1.561134859	2.097123567	H	2.706003365	-2.167520614	7.701457885
C	-0.703498335	0.099345573	2.252650339	C	3.856031073	-1.773096705	5.927262675
H	0.703096746	-1.472040749	2.004288547	C	4.988483141	-2.690169323	6.326267448
C	-1.897071691	-0.493723913	2.962300009	C	3.897428669	-1.053854375	4.731725403
H	-0.885730754	1.988329668	3.107259735	H	4.763816421	-1.157469463	4.085468220
C	-2.529643118	1.480341700	1.859595008	C	3.748264389	2.385455666	3.788489157
			C	5.026370751	2.329306290	4.348671699	

H	5.646527603	1.448503260	4.208142339	C	3.081424577	1.047626380	-1.916851431
C	5.532001426	3.413358379	5.073332692	H	2.598195977	0.375489256	-1.220393745
C	6.943070646	3.380802659	5.607207669	P	3.003147923	0.945384723	2.948074016
C	4.712207729	4.532479652	5.259722989	P	2.949012772	2.953137523	0.148974190
H	5.093198781	5.375012678	5.833551998	Rh	1.236617667	1.569823060	1.442367836
C	3.412783428	4.596772170	4.743286724	C	-0.477367025	2.865555833	0.863247110
C	2.535320882	5.794517938	5.018348664	C	-1.714692737	2.373414456	1.563881930
C	2.942716962	3.512779310	3.995595486	C	-1.446934695	1.220396220	2.490581876
H	1.935169960	3.542558967	3.584762588	H	-0.040168733	-0.222036641	3.151254961
C	4.159732486	0.121290180	1.778598223	C	-2.808256904	0.696859958	2.883914191
C	3.866450485	-1.259512220	1.556610296	H	-2.083147810	3.221305875	2.170388009
H	3.161416516	-1.763196498	2.209148885	C	-2.925437414	1.807392291	0.812119808
C	4.475001767	-1.963139484	0.550462148	H	0.095018897	3.577277406	1.473456786
H	4.258769412	-3.019577158	0.412050898	H	-0.595186362	3.269585983	-0.138135016
C	5.382423150	-1.323191718	-0.331414009	H	-2.819324815	-0.399676166	2.939110583
C	5.990784872	-2.023939601	-1.404408451	H	-3.169392387	1.093163151	3.842609998
H	5.773760417	-3.082071775	-1.525656211	H	-3.562041308	2.565262169	0.346828384
C	6.831569982	-1.375106793	-2.279775950	H	-2.602658206	1.089196792	0.042205093
H	7.287621969	-1.917250921	-3.102844587	O	-3.688872624	1.163965068	1.842489855
C	7.095340644	0.004126993	-2.113031409	C	0.505587844	-0.003658881	0.321416411
H	7.741778206	0.516601611	-2.819412052	C	0.509836325	-1.472210101	0.418062339
C	6.541507645	0.703948756	-1.065788483	C	-0.076166922	1.435421991	-1.745396110
H	6.746169663	1.762210541	-0.958837738	H	1.536591898	-1.845270218	0.347580774
C	5.674288303	0.065410104	-0.136783163	H	0.089629055	-1.808535546	1.370474722
C	5.070357518	0.780513612	0.957053833	H	-0.082143210	-1.888257404	-0.403664539
C	5.478470473	2.212150691	1.157565937	O	-0.268240333	2.563694888	-2.157388918
C	6.803850427	2.471580972	1.647760197	O	-0.066838975	0.338074416	-2.529386195
C	7.684527284	1.429642772	2.054100835	C	-0.246390346	0.594951497	-3.940670852
H	7.349228257	0.399897815	1.997494708	H	-0.269506694	-0.387149176	-4.411419269
C	8.952562758	1.708670850	2.513890612	H	-1.179763120	1.134013625	-4.117043354
H	9.605230100	0.895305053	2.817432607	H	0.593611630	1.184788334	-4.316812936
C	9.417749251	3.043906413	2.590627353	H	5.793336922	-2.685237357	5.585823331
H	10.423229887	3.248624113	2.945769504	H	5.415604947	-2.390065089	7.289881700
C	8.589258125	4.076604013	2.214192136	H	4.639670311	-3.723234524	6.436654448
H	8.929926427	5.107422543	2.269182667	H	0.744295562	-0.847287986	8.386677811
C	7.272866716	3.821719172	1.744950566	H	0.095805950	0.411606132	7.322746575
C	6.409666378	4.871697448	1.351323178	H	-0.319288511	-1.282005420	7.045827385
H	6.767336748	5.897039431	1.402278212	H	7.078139491	4.085962712	6.432261579
C	5.140851635	4.609073957	0.901314615	H	7.212369377	2.381562877	5.963408638
H	4.511988507	5.434390568	0.593880083	H	7.654522635	3.646064684	4.816652119
C	4.650265638	3.276988662	0.811770773	H	1.652399805	5.805871400	4.373421896
C	2.186870511	4.607356679	-0.084132223	H	2.186931902	5.792198929	6.057947064
C	1.536633958	4.926820309	-1.279267128	H	3.079899958	6.732278198	4.864686366
H	1.562890951	4.242010878	-2.118184404	H	2.140955666	-1.151535349	-3.185153404
C	0.805889793	6.116704364	-1.404686689	H	3.120022734	-0.988850141	-4.657150607
C	0.098851529	6.422166222	-2.703391156	H	3.868948471	-1.529717459	-3.148562079
C	0.759290480	6.992546601	-0.318918937	H	5.934986706	3.170112680	-5.171038362
H	0.207775505	7.925842790	-0.411995967	H	4.415163044	4.016107931	-5.457766960
C	1.406479916	6.702657599	0.890738216	H	5.500388902	4.570870257	-4.177170465
C	1.336306201	7.673610618	2.047209249	H	-0.604173076	7.252382529	-2.595921048
C	2.098645110	5.494093431	1.006164855	H	0.816242365	6.692167002	-3.487271636
H	2.595025996	5.257202968	1.943548825	H	-0.453279490	5.545208037	-3.056484128
C	3.362704242	2.359191249	-1.535651864	H	2.234757434	7.622854297	2.668340499
C	4.044491774	3.207529243	-2.424146261	H	1.224948101	8.703614471	1.695164352
H	4.285569963	4.224022702	-2.124777266	H	0.477559537	7.458310661	2.695064138
C	4.403685101	2.764938125	-3.696906320	=====			
C	5.103891066	3.680524825	-4.673070701	15B-TS1			
C	4.080065077	1.449206461	-4.065167501	=====			
H	4.354294110	1.098174653	-5.058293029	C	0.249589264	-0.235437200	-0.033941156
C	3.429700905	0.577473103	-3.191059362	C	0.157059726	-0.181297861	1.964679238
C	3.120200027	-0.850298638	-3.571978224	C	2.688906757	-0.065377318	4.289849300

C	1.575711673	0.173707838	5.105453952	C	0.831932637	7.534610314	1.457352892
H	0.864821486	0.948269273	4.839266437	C	1.841431298	5.378401272	0.598721583
C	1.382154529	-0.547078192	6.286839201	H	2.234780051	5.204701200	1.596402745
C	0.175276487	-0.295754321	7.160682565	C	3.594463080	2.292492202	-1.680155527
C	2.331749266	-1.513641908	6.639141904	C	4.402833856	3.155171307	-2.438896311
H	2.196246471	-2.076442400	7.561003876	H	4.615800438	4.156873641	-2.074768373
C	3.459025696	-1.766307617	5.849294571	C	4.930371977	2.744848437	-3.663343450
C	4.469220376	-2.809340559	6.267739433	C	5.784264059	3.669820287	-4.498079821
C	3.630214524	-1.030234338	4.670850072	C	4.640989604	1.448498424	-4.115805669
H	4.509183326	-1.210726069	4.058888981	H	5.043803509	1.122606019	-5.072837714
C	3.658931834	2.512046575	3.751629406	C	3.864596459	0.561588772	-3.368896239
C	4.853840740	2.461533859	4.472146941	C	3.598474699	-0.847279532	-3.841263473
H	5.474297727	1.570147386	4.440030230	C	3.352461593	0.996711160	-2.138769041
C	5.270223470	3.560887915	5.232510905	H	2.768939427	0.305660014	-1.539187810
C	6.593748361	3.525086265	5.958091903	P	2.961899323	1.069684317	2.883080517
C	4.447232323	4.691687538	5.279676127	P	2.950740768	2.877998500	-0.061701998
H	4.757993798	5.545072110	5.879451892	Rh	1.517020344	1.255725272	0.987581131
C	3.230384231	4.755572690	4.588850368	C	-0.027412699	2.606061409	1.448769611
C	2.359564952	5.986321901	4.681088555	C	-0.714592279	2.051389219	2.677006839
C	2.847936045	3.653256851	3.821219676	C	-0.685812277	0.548304014	2.704481197
H	1.905785756	3.671889779	3.281447667	H	0.301228387	-1.243311765	2.116837909
C	4.119624510	0.210068678	1.736953795	C	-1.753344786	0.126728630	3.690774887
C	3.776830394	-1.149338674	1.443445305	H	-0.159521334	2.386467082	3.570849391
H	2.985379355	-1.637284243	2.000782756	C	-2.204736076	2.300434527	2.966994133
C	4.424167694	-1.839100029	0.450567117	H	0.426226283	3.583678414	1.597503439
H	4.149272968	-2.869613891	0.243617049	H	-0.687670160	2.646645034	0.580413815
C	5.435959890	-1.219262027	-0.325816144	H	-2.397405227	-0.653741366	3.258290022
C	6.117495664	-1.919847253	-1.354949640	H	-1.346827570	-0.251834879	4.637209215
H	5.879173262	-2.968010004	-1.516517727	H	-2.433398089	3.283230223	3.387763266
C	7.056771160	-1.286045494	-2.136497027	H	-2.807527649	2.148576494	2.055993386
H	7.569434149	-1.832720114	-2.922562433	O	-2.503180359	1.319412846	3.967744299
C	7.350737223	0.082338459	-1.923729055	C	0.387191339	0.831038946	-0.742442048
H	8.078130773	0.581699343	-2.556647842	C	0.034423483	1.481645161	-2.019022335
C	6.722669792	0.783119493	-0.919795954	C	0.233105183	-1.692038550	-0.284802592
H	6.950740182	1.831720569	-0.771535125	H	-0.354409355	2.492668918	-1.843440916
C	5.757074106	0.156524625	-0.082577523	H	0.920435998	1.587852994	-2.652549085
C	5.080303311	0.865089885	0.964804211	H	-0.717297073	0.891223172	-2.551481384
C	5.413660073	2.306779073	1.184128933	O	0.829599882	-2.533960297	0.356979699
C	6.667893865	2.631610788	1.796089930	O	-0.492948588	-1.947541512	-1.387485827
C	7.562932335	1.631924129	2.271683621	C	-0.537571885	-3.337932829	-1.781655137
H	7.295521124	0.586326126	2.166969023	H	-1.182827651	-3.368808146	-2.658759032
C	8.760620706	1.979027441	2.856686428	H	0.465678680	-3.697711691	-2.023972225
H	9.431245059	1.201960289	3.211869916	H	-0.950023653	-3.948027278	-0.974278602
C	9.131058583	3.339358027	2.997933216	H	5.362054475	-2.783758569	5.636545885
H	10.082976284	3.596166758	3.453013873	H	4.784750637	-2.659510132	7.306024767
C	8.282106511	4.330009514	2.558020856	H	4.043488295	-3.817403344	6.202291589
H	8.552323731	5.377494765	2.663804551	H	0.460609333	-0.199903421	8.213663064
C	7.036553762	4.006105528	1.956982888	H	-0.352731627	0.616488448	6.867744426
C	6.148092540	5.007924047	1.496247261	H	-0.536590280	-1.127671120	7.096335200
H	6.433226390	6.051947695	1.598302438	H	6.644251095	4.284664556	6.743375929
C	4.945061593	4.679403082	0.922022374	H	6.770210141	2.547007941	6.417270076
H	4.298364568	5.471565573	0.567220815	H	7.415775056	3.709028856	5.256944295
C	4.552083967	3.321625132	0.770820512	H	1.425693463	5.862320705	4.125070808
C	2.102648444	4.458385298	-0.431643107	H	2.101551262	6.212856318	5.721665996
C	1.597732120	4.707491174	-1.713448988	H	2.876531124	6.867103892	4.281187660
H	1.801138582	4.014907572	-2.523707528	H	2.613941898	-1.197609857	-3.513172169
C	0.845038024	5.859205503	-1.979700361	H	3.640815731	-0.922218106	-4.931620525
C	0.282988567	6.098743640	-3.361284492	H	4.347028026	-1.533109367	-3.428826819
C	0.616429820	6.763890487	-0.940284286	H	6.707146939	3.173386367	-4.817153261
H	0.047512493	7.669310984	-1.141076229	H	5.255242339	3.979964203	-5.406975299
C	1.108373691	6.542707730	0.352465670	H	6.059091370	4.573510030	-3.947074721

H	0.124352205	7.163815415	-3.552314900	H	6.352928854	6.031654970	1.653059902
H	0.947457781	5.707601917	-4.137961281	C	4.894685950	4.623766709	0.980575535
H	-0.685780468	5.597820092	-3.478203715	H	4.201417768	5.398584626	0.677060696
H	1.583248516	7.475488300	2.249036677	C	4.554304113	3.257446480	0.786595324
H	0.816705975	8.560884657	1.077563757	C	2.088768299	4.374734486	-0.350325275
H	-0.146438823	7.344868873	1.916052627	C	1.660253176	4.734903967	-1.633955571
=====	=====	=====	H	1.952881885	4.143106812	-2.495513081	
15B-TS2	=====	=====	C	0.849702032	5.863967620	-1.826524634	
C	0.676159234	-0.133637652	0.187531126	C	0.425447953	6.266598916	-3.219543090
C	-0.282266704	0.841175458	2.547241191	C	0.467121740	6.616176212	-0.711720697
C	2.733108732	-0.457650310	4.088948261	H	-0.169029985	7.487512306	-0.853178480
C	1.670886773	-0.220391376	4.973011882	C	0.876857173	6.276474871	0.584910961
H	0.974830598	0.589162433	4.779071792	C	0.465360049	7.117023651	1.770527040
C	1.511051482	-0.989752081	6.128304843	C	1.682267248	5.147197855	0.751991743
C	0.350219291	-0.746682428	7.063263960	H	2.002822099	4.868311072	1.752817088
C	2.443904426	-1.999015778	6.395440929	C	3.518960637	2.174256155	-1.630191039
H	2.332068641	-2.600218618	7.295531192	C	4.306081933	2.998058875	-2.451760063
C	3.529688802	-2.237104248	5.546990997	H	4.539462300	4.011941786	-2.136391723
C	4.525593569	-3.329824927	5.858549745	C	4.799530816	2.527862384	-3.669579583
C	3.670778692	-1.451496101	4.395780594	C	5.647860555	3.403714855	-4.561357894
H	4.529152032	-1.618528760	3.753156212	C	4.501983951	1.209549230	-4.046194303
C	3.587099092	2.166424101	3.675851771	H	4.887516470	0.832603882	-4.991868698
C	4.829292631	2.112667226	4.313249361	C	3.745309516	0.361475176	-3.234563291
H	5.472734233	1.247045218	4.179985833	C	3.491922097	-1.075333835	-3.623123079
C	5.264350634	3.173531302	5.112793940	C	3.258013998	0.859164145	-2.019102510
C	6.635022075	3.143138210	5.743312704	H	2.697193309	0.203327232	-1.365655266
C	4.416714934	4.276182976	5.279121497	P	2.949450268	0.743633183	2.719609290
H	4.745985116	5.103387825	5.904763805	P	2.947180860	2.790298766	-0.005124862
C	3.155216666	4.341355214	4.677630266	Rh	1.199954324	1.460206347	1.287582684
C	2.272406828	5.553544551	4.859025170	C	-0.642506535	2.527488962	0.320572338
C	2.746892067	3.268289491	3.878420448	C	-1.018033250	3.030198670	1.711273241
H	1.752774745	3.283085222	3.434187384	C	-1.145735881	1.843989922	2.668877906
C	4.226245748	0.057400510	1.580736959	H	-0.298867864	-0.113688596	3.062446903
C	4.018079865	-1.314536609	1.243713886	C	-2.380359975	2.082831351	3.521716169
H	3.266240858	-1.883972440	1.774879226	H	-0.304707447	3.783478754	2.069275111
C	4.747550855	-1.925124370	0.257939477	C	-2.447814447	3.632803427	1.823883050
H	4.585534737	-2.976233944	0.031558443	H	-0.286467872	3.281075887	-0.378368262
C	5.710009979	-1.200675373	-0.486095665	H	-1.496796761	1.979346119	-0.072679989
C	6.455956996	-1.812632945	-1.526091137	H	-3.159721640	1.336407048	3.295631704
H	6.302615089	-2.870548301	-1.723872044	C	-2.187429279	2.064818766	4.598512202
C	7.350544162	-1.081289227	-2.273002040	H	-2.489592167	4.708423177	1.635028494
H	7.915174590	-1.556216294	-3.070075707	H	-3.130949503	3.117007905	1.126690926
C	7.528500818	0.296103761	-2.006675003	O	-2.815783178	3.400219899	3.174473891
H	8.220347889	0.875303237	-2.611488080	C	0.194135242	0.732557311	-0.627490261
C	6.834977909	0.911495660	-0.990045671	C	-0.140501451	1.022113558	-2.034344046
H	6.980082071	1.968955625	-0.807608041	C	0.866263794	-1.574765220	0.361376722
C	5.913419524	0.184623305	-0.185623261	H	-1.148757628	1.425590461	-2.163637569
C	5.170841164	0.807836127	0.880181878	H	0.576361417	1.740595890	-2.446440886
C	5.450091620	2.257318386	1.158623523	H	-0.052743000	0.088757481	-2.599874085
C	6.710075197	2.615700303	1.746825201	O	0.960947941	-2.138945510	1.432122231
C	7.659989892	1.642917422	2.167710809	O	0.938469733	-2.187159500	-0.838980940
H	7.423250707	0.590312648	2.058072435	C	1.135062143	-3.618407573	-0.785775016
C	8.872602919	2.018349133	2.702015257	H	1.145071458	-3.949448358	-1.823458591
H	9.582364476	1.256700434	3.011692176	H	2.084909058	-3.848435925	-0.296675072
C	9.206588734	3.386662326	2.849070105	H	0.322983973	-4.095474017	-0.231651419
H	10.170586554	3.668172751	3.262000818	H	5.477372456	-3.165956086	5.344580382
C	8.302938213	4.353665303	2.470675963	H	4.726275002	-3.393325448	6.932792659
H	8.541795239	5.408030953	2.584137562	H	4.143717655	-4.307855150	5.541088462
C	7.041741263	3.998868154	1.921398969	H	0.662750969	-0.805054196	8.110829128
C	6.101924297	4.981478941	1.526631721	H	-0.099368016	0.236948690	6.898403948

H	6.683555947	3.780088684	6.631162259	C	4.837560264	1.425245697	13.573672336
H	6.919469988	2.127265834	6.034245205	H	5.403477860	2.198765199	13.070389404
H	7.387216579	3.501280281	5.031104732	C	5.031289759	0.108301758	13.229503946
H	1.215541728	5.306621047	4.716766222	H	5.758378127	-0.145377925	12.463428895
H	2.384853282	5.989495763	5.856453337	C	4.292910218	-0.922118290	13.860050861
H	2.530410242	6.334924268	4.132650125	H	4.468895708	-1.958560638	13.586706442
H	2.656511875	-1.498745847	-3.056762119	C	3.351091614	-0.607212891	14.810915770
H	3.272842034	-1.172458329	-4.691353267	H	2.773578041	-1.387545749	15.298865132
H	4.379435731	-1.682620464	-3.410988482	C	3.110341102	0.744792886	15.171744522
H	6.617175470	2.933560685	-4.763629169	C	2.132370601	1.095708296	16.130967491
H	5.163059004	3.570109906	-5.530497329	H	1.574991313	0.309280383	16.633686645
H	5.836021442	4.380995943	-4.107948447	C	1.876192734	2.412140659	16.422475811
H	-0.484281746	6.873884589	-3.204295110	H	1.119649388	2.642327015	17.160361013
H	1.208943335	6.860631331	-3.706819410	C	2.598718987	3.472139781	15.802996955
H	0.242051974	5.391932860	-3.852239235	C	1.015853842	5.175244530	17.632152885
H	0.385542785	6.517635631	2.681635106	C	1.570051687	5.831613899	18.735470327
H	1.202657239	7.905371437	1.963583188	H	2.499429718	6.381008883	18.637248913
H	-0.496523272	7.608393161	1.599090259	C	0.933983195	5.802320841	19.985939304
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16A				C	1.564757530	6.508557737	21.162814815
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C	2.399611877	6.270557399	11.432043708	C	-0.272110445	5.111213784	20.111091666
C	2.467306404	7.562929484	11.980067909	H	-0.772193680	5.084312573	21.077186217
H	2.707658895	7.694291460	13.033957200	C	-0.864006289	4.460968836	19.018521043
C	2.238228592	8.694379380	11.191620371	C	-2.184629982	3.745508840	19.175565059
C	2.325247772	10.076007239	11.796014822	C	-0.211738173	4.506608343	17.787539551
C	1.940806101	8.509300138	9.835818897	H	-0.666412781	3.998102060	16.949638675
H	1.749475250	9.380192452	9.211839755	C	3.232425672	6.380527509	16.224511885
C	1.884976373	7.234103847	9.258182771	C	4.411548661	6.041043949	16.895194845
C	1.574597875	7.073395737	7.788182904	H	4.561751193	5.027440365	17.255211135
C	2.118168251	6.116072821	10.070277970	C	5.410831245	6.998148485	17.104386444
H	2.063341586	5.124244517	9.633260452	C	6.699936299	6.619170635	17.791146475
C	2.506768215	3.314336977	11.721845417	C	5.197183888	8.297669432	16.631756009
C	3.399183643	3.069716263	10.669133652	H	5.968167786	9.049093996	16.792184832
H	4.083559434	3.849385568	10.343473966	C	4.014936582	8.666466352	15.977760277
C	3.419619444	1.824046329	10.033018162	C	3.810935089	10.079424052	15.485783790
C	4.392489937	1.542736974	8.912185132	C	3.029711974	7.695296605	15.782647651
C	2.549631844	0.825202735	10.489083519	H	2.078832415	7.981737765	15.344422234
H	2.566150190	-0.148418438	10.002893664	P	2.498615518	4.891730770	12.636325293
C	1.672822613	1.033410295	11.559114306	P	1.886554781	5.175019058	16.009462475
C	0.806206038	-0.085724712	12.082293127	Rh	0.676117309	5.649630193	14.100825457
C	1.657998713	2.293509284	12.162976250	H	-0.008867817	0.293836582	12.706311218
H	1.006378882	2.471458074	13.009113477	H	0.368839061	-0.671578454	11.267791220
C	4.216739275	5.006656706	13.285793473	H	1.404188498	-0.766851166	12.699400557
C	5.168070749	5.881092846	12.691741111	H	3.972658486	0.843221927	8.182911672
H	4.866255729	6.528296975	11.877380905	H	4.676189399	2.457543749	8.383653567
C	6.470890475	5.898648473	13.121217101	H	5.311940365	1.090996759	9.304188753
H	7.194314960	6.557604362	12.648195075	H	1.485773890	6.020495838	7.506607153
C	6.900055203	5.040767673	14.164402480	H	0.636221069	7.574308799	7.524952312
C	8.257671415	5.000184582	14.578648860	H	2.361358491	7.520433907	7.169620634
H	8.972098907	5.653502131	14.084500682	H	1.702263703	10.792707039	11.253003544
C	8.666643234	4.143360588	15.574763806	H	2.010444752	10.072748542	12.844418348
H	9.709893735	4.111606811	15.874941744	H	3.355606631	10.450334240	11.767528967
C	7.723059062	3.307139868	16.217241453	H	0.890004183	6.543716463	22.022248071
H	8.047392362	2.643462830	17.013525944	H	2.482504791	5.998834349	21.479332818
C	6.399193305	3.326351312	15.840916916	H	1.838542935	7.536652968	20.902918433
H	5.690341146	2.676208216	16.341042686	H	-2.510370337	3.286761328	18.237684973
C	5.946099630	4.174967688	14.792195536	H	-2.120698221	2.956793519	19.933737707
C	4.585807245	4.170622008	14.331631269	H	-2.969799728	4.438735539	19.498540087
C	3.639651510	3.161727976	14.918929739	H	2.754551020	10.283314835	15.287672324
C	3.875451551	1.789412690	14.560341726	H	4.166021159	10.812920969	16.216657454
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H	6.538081991	5.848808761	18.551241544	C	7.395168507	7.279048037	13.996473743
H	7.411421757	6.211634693	17.065004441	H	7.764057194	8.131344670	13.431353499
C	-0.766134585	4.171265832	14.325359344	C	8.060971883	6.838089419	15.116222437
C	-0.655539124	6.984624585	14.816562829	H	8.964975569	7.340023499	15.448776967
C	-1.671483437	4.508373277	13.156100720	C	7.562717460	5.728816915	15.839811286
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C	-0.976561454	5.519302054	12.226490427	C	6.428033389	5.070829023	15.425774989
C	-0.820303559	6.860850772	12.436815500	H	6.054161276	4.233714969	16.001676721
H	-0.472184175	7.458381354	11.592225739	C	5.715759051	5.495031680	14.268854010
C	-0.828358509	4.827418722	10.884891335	C	4.523566786	4.830832237	13.816107542
C	-1.794149921	8.929853300	13.596107933	C	4.175757031	3.533013234	14.475122513
C	-1.980775418	3.347958234	12.170388104	C	5.062829198	2.424863468	14.225116152
H	-2.592665294	4.973236344	13.525173869	C	6.138554077	2.507061278	13.294776167
C	-0.824473304	7.497780199	16.189347063	H	6.293509806	3.423858699	12.738023661
H	-0.260814975	3.206483464	14.269488051	C	6.982116526	1.438986087	13.088330015
H	-1.266190478	4.294757845	15.280117154	H	7.794025275	1.526533232	12.371989171
O	-1.922828559	3.916261420	10.866442352	C	6.805338898	0.230089719	13.802269916
H	-0.916227235	5.508450920	10.034843407	H	7.486707227	-0.599479759	13.637565326
H	0.125684071	4.286582864	10.807132167	C	5.765353476	0.107451785	14.694236713
H	-1.230886890	2.548087195	12.275772849	H	5.610775753	-0.818636064	15.241731483
H	-2.975222270	2.917768934	12.309547987	C	4.869245364	1.186286733	14.915798348
H	-1.235456580	9.592559756	12.922595277	C	3.785023017	1.079867430	15.817039449
H	-2.806608221	8.833401514	13.186103709	H	3.637290545	0.149698848	16.359899915
H	-1.862021046	9.415992856	14.572399330	C	2.927595435	2.130495183	16.016207420
O	0.012220313	8.147597524	16.790847517	H	2.123222970	2.007117137	16.725995968
O	-2.013335001	7.141111988	16.713474074	C	3.099784672	3.375411995	15.341702149
C	-2.250052841	7.595334920	18.063702374	C	0.780637933	4.013585652	16.901928172
H	-3.231740730	7.206621339	18.333749470	C	0.544913536	4.422305984	18.214659840
H	-1.481386504	7.205401997	18.732335880	H	1.138969269	5.216554686	18.656118286
H	-2.244950147	8.687615527	18.103885221	C	-0.459096112	3.807718218	18.984605717
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16B				C	-0.690889662	4.254971555	20.409000994
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C	1.788798589	5.460072192	10.626412085	C	-1.212264443	2.783805109	18.409236243
C	1.608926134	6.827327555	10.374228283	H	-1.990847721	2.303434006	18.998213768
H	1.626908070	7.533302429	11.199831213	C	-0.992084473	2.351069497	17.090846512
C	1.404836451	7.306797632	9.074966811	C	-1.819473443	1.233764079	16.499587425
C	1.235238764	8.787833745	8.828631735	C	0.004346364	2.976679758	16.347717681
C	1.373819104	6.382603068	8.026412427	H	0.189213651	2.648362283	15.327273981
H	1.206911033	6.738577608	7.011684277	C	3.155692255	5.810669738	16.794774579
C	1.548558730	5.009411836	8.245650332	C	3.762788958	5.253012117	17.928864241
C	1.507483138	4.041579323	7.086505042	H	3.493373690	4.250983987	18.253505718
C	1.754387980	4.558151195	9.553482795	C	4.725295057	5.971040155	18.645569685
H	1.883448062	3.495714938	9.732232686	C	5.351488262	5.381439844	19.887646529
C	1.762775342	3.097902266	12.249634418	C	5.088257304	7.243925229	18.186865251
C	2.743391406	2.139073045	11.997182271	H	5.848653982	7.802417908	18.728837083
H	3.777975816	2.436230011	11.861528020	C	4.520952958	7.810841317	17.040922261
C	2.404306401	0.779192408	11.918296798	C	4.983657846	9.147335909	16.513343775
C	3.484274518	-0.251584568	11.688932479	C	3.543383068	7.081983490	16.355408209
C	1.063396089	0.415181911	12.069352620	H	3.092719319	7.512225640	15.464595336
H	0.791956461	-0.636986677	12.007550645	P	2.049949110	4.893730672	12.355897124
C	0.052835097	1.367383144	12.275762483	P	1.995840181	4.810198972	15.792503622
C	-1.392900719	0.943966494	12.390667728	Rh	0.857713915	6.088720484	14.194080964
C	0.416285184	2.711198257	12.367959998	H	-2.050875455	1.803768480	12.546614229
H	-0.357347146	3.466765076	12.479046849	H	-1.726269527	0.429235014	11.482489968
C	3.815124191	5.340588968	12.725705766	H	-1.537918064	0.246267794	13.224188849
C	4.352885981	6.452423496	12.012280757	H	3.063475311	-1.236103779	11.466323326
H	3.851061495	6.812468343	11.124598797	H	4.135620239	0.036615250	10.856461813
C	5.515069233	7.065094128	12.403585583	H	4.123940724	-0.346697923	12.574214406
H	5.911924464	7.896577739	11.826298819	H	1.714468609	3.017414925	7.408615582
C	6.212185097	6.629882571	13.554586300	H	0.523653122	4.049571361	6.603250511
				H	2.244579910	4.311475104	6.321852872
				H	0.804588323	8.986022713	7.843520277

H	0.583382828	9.246471070	9.580748758	C	4.440207528	4.144434566	4.781276119
H	2.200331134	9.306619899	8.877777339	C	5.608461676	4.121448669	5.737218024
H	-1.571700903	3.776118915	20.844853209	C	3.724448183	5.326195577	4.540372497
H	0.170551452	4.009474895	21.041534709	H	4.000159955	6.226634907	5.085403966
H	-0.832519105	5.340081082	20.465210381	C	2.666854876	5.382809743	3.627778961
H	-1.563373923	1.057501885	15.450917401	C	1.930861514	6.669726320	3.345373997
H	-1.664400433	0.296273537	17.046144055	C	2.320998083	4.215650632	2.939671346
H	-2.889713280	1.463501325	16.552927013	H	1.493531149	4.226274400	2.239710961
H	4.155020341	9.712448168	16.074014152	C	3.707739629	0.698668404	1.237786349
H	5.433437340	9.758487499	17.301217676	C	3.361276537	-0.631428934	0.837472515
H	5.740160727	9.000171563	15.732532161	H	2.464863596	-1.092818187	1.236896686
H	6.286475653	5.887408224	20.144268247	C	4.142746062	-1.328184822	-0.047850383
H	4.679413535	5.475637814	20.749396784	H	3.869128584	-2.339269899	-0.337166397
H	5.565628411	4.315285902	19.758279617	C	5.313508505	-0.746542704	-0.590795157
C	-1.013425730	5.266893563	14.645824722	C	6.155074445	-1.471996180	-1.472422849
C	0.264931626	7.578179086	15.450262365	H	5.895464212	-2.499509669	-1.712928646
C	-1.947511764	6.208947429	13.920412007	C	7.282432770	-0.891210809	-2.004174528
C	-0.015966159	8.540985841	14.524970677	H	7.926876921	-1.457234289	-2.670221852
C	-1.086097319	6.961689995	12.897498625	C	7.603643902	0.448843692	-1.685865100
C	-0.268020147	8.030019718	13.156897265	H	8.490982942	0.905294223	-2.114535235
H	0.137472288	8.586017142	12.314764900	C	6.798437860	1.184301880	-0.847815019
C	-1.489873403	6.431357663	11.533971701	H	7.054758340	2.212794456	-0.626936990
C	-0.021889261	10.001448975	14.796348628	C	5.637662090	0.610757998	-0.256483599
C	-2.955991067	5.496195236	12.998776382	C	4.794609683	1.345716522	0.643913061
H	-2.412849742	6.915089487	14.616066960	C	5.056604076	2.809134666	0.838647233
C	0.244786639	7.717376754	16.933366338	C	6.196540011	3.231451311	1.591945912
H	-0.979656190	4.269894405	14.210014235	C	7.051230806	2.308811192	2.255498750
H	-1.160960058	5.222010371	15.721277391	H	6.833563450	1.247634950	2.194798647
O	-2.226576703	5.240245239	11.798163423	C	8.149289084	2.744985857	2.961604884
H	-2.128969130	7.184914924	11.038979178	H	8.792819456	2.024584194	3.458225727
H	-0.662326064	6.191292904	10.869295791	C	8.450058364	4.126229977	3.045122936
H	-3.311144304	4.540367987	13.392534768	H	9.324597399	4.455166515	3.598844842
H	-3.823398655	6.145513949	12.796871713	C	7.631067679	5.047108302	2.432889481
O	0.207009608	10.520902224	15.872582016	H	7.847656193	6.110027268	2.500292112
O	-0.291033186	10.707621114	13.670821418	C	6.489294902	4.629835758	1.699515216
C	-0.284124519	12.140195577	13.831853665	C	5.630361366	5.559977739	1.066562293
H	0.694008218	12.482175052	14.181104169	H	5.855206252	6.620727191	1.143392019
H	-1.042414908	12.446100340	14.557299822	C	4.525680115	5.138880532	0.368254378
H	-0.507159398	12.548374482	12.846158332	H	3.878040394	5.870744978	-0.100208166
H	-0.256712695	6.850695534	17.378042284	C	4.222386824	3.757261100	0.244792524
H	1.260573332	7.736869045	17.340046914	C	1.971799427	4.808090053	-1.260556696
H	-0.258339955	8.636313714	17.241662673	C	2.250503166	5.342511255	-2.524564110
=====				H	2.904042950	4.812898595	-3.210556785
18A				C	1.686780515	6.560753577	-2.926488683
=====				C	2.019603098	7.135983577	-4.283110512
C	-1.276964682	3.153338386	1.733763441	C	0.830678991	7.230649739	-2.044102596
C	-0.087609886	0.212182111	1.313408686	H	0.382583029	8.171973319	-2.354336733
C	2.268687487	0.403413582	3.819514633	C	0.525574103	6.714141852	-0.778877590
C	1.546829315	0.927793405	4.901433762	C	-0.423445835	7.417333753	0.161878996
H	1.142429094	1.933224913	4.854101643	C	1.105931465	5.500039882	-0.400398402
C	1.361467853	0.188175981	6.073630745	H	0.842348766	5.073868119	0.560548241
C	0.532099919	0.755103593	7.200822963	C	3.375798660	2.345527195	-2.096219170
C	1.942641509	-1.079785185	6.159613574	C	4.538958835	2.799118895	-2.734922639
H	1.815293733	-1.661228472	7.070339490	H	5.014227366	3.718741995	-2.403090324
C	2.706146231	-1.612243529	5.113939101	C	5.130233730	2.056276239	-3.759800748
C	3.349202476	-2.972265726	5.252701305	C	6.386177260	2.540641004	-4.444099399
C	2.861847261	-0.862443276	3.944883193	C	4.542050696	0.838656811	-4.123009527
H	3.480660709	-1.267863466	3.154668448	H	5.013844130	0.236450456	-4.896749617
C	3.024063893	3.029437661	3.158252237	C	3.384791912	0.358363449	-3.502639022
C	4.069387741	2.989425610	4.091248636	C	2.833009766	-1.002019803	-3.853084578
H	4.599293262	2.060388689	4.281857460	C	2.799480568	1.131946453	-2.493463630

H	1.911881474	0.755689965	-1.989123487	H	1.188355961	1.954727615	4.900376758
P	2.476392302	1.492235738	2.358478032	C	1.287367559	0.187041972	6.101905110
P	2.687206377	3.232853441	-0.650773412	C	0.460731706	0.779866293	7.218328369
Rh	1.103722406	1.680673666	0.572245149	C	1.796523834	-1.112203217	6.182929729
C	-0.978169110	2.657767787	3.131830809	H	1.617210580	-1.697631606	7.082437365
C	-1.371367328	1.188789052	3.349676979	C	2.551728797	-1.671313370	5.145746572
C	-0.972630909	0.154305087	2.313386919	C	3.108964789	-3.069158217	5.273322867
H	-0.001166160	-0.662552032	0.652351416	C	2.774163901	-0.915776770	3.989726224
C	-1.933838412	-1.011815495	2.537589417	H	3.384148559	-1.345053970	3.204972923
H	-0.939087727	0.864907354	4.308729002	C	3.059419148	2.991992931	3.218635730
C	-2.878507917	0.894197696	3.442037581	C	4.102840691	2.950567959	4.152273118
H	0.087170813	2.779718151	3.330221786	H	4.630232778	2.019755742	4.341434262
H	-1.512573670	3.273612753	3.860701031	C	4.475281243	4.104056597	4.844123441
H	-2.361687698	-1.355900219	1.583471275	C	5.642885156	4.080249036	5.800134561
H	-1.442013293	-1.869132421	3.017356006	C	3.762129585	5.287591479	4.603260984
H	-3.336069291	1.244267923	4.371116145	H	4.040141575	6.187677293	5.147993614
H	-3.418978499	1.350014081	2.597859317	C	2.702808100	5.345198501	3.692918190
O	-2.953908864	-0.531234711	3.413741033	C	1.968662286	6.634257682	3.415694123
C	-0.538990836	2.756883834	0.688521359	C	2.356361511	4.178908207	3.003266547
C	-0.832860617	2.758770726	-0.786066792	H	1.528756535	4.188175206	2.302385183
C	-2.518739135	3.953377069	1.586627666	C	3.749884213	0.671447071	1.307959952
H	-0.674852269	3.742170084	-1.233514484	C	3.387667948	-0.647005542	0.882804869
H	-0.163356744	2.058498571	-1.333199825	H	2.490299546	-1.109738992	1.278661888
H	-1.854074285	2.416364554	-0.974369167	C	4.154346226	-1.331104484	-0.026214394
O	-3.353617978	4.072815262	2.463562975	H	3.863123099	-2.329708986	-0.340897782
O	-2.625285958	4.564444322	0.379942994	C	5.332234549	-0.754594306	-0.557344230
C	-3.839032953	5.316333988	0.178403133	C	6.157786082	-1.473261941	-1.462498835
H	-3.761407356	5.729051950	-0.827524204	H	5.874215896	-2.487573860	-1.731032982
H	-4.712606061	4.665197959	0.263776934	C	7.296492834	-0.903775078	-1.982439345
H	-3.921636922	6.115921437	0.918848570	H	7.926387041	-1.463705873	-2.667141394
H	4.028483705	-3.185878171	4.422606250	C	7.644756755	0.420551571	-1.623591670
H	3.919783146	-3.047387581	6.184613751	H	8.541447331	0.870885256	-2.039303956
H	2.589934364	-3.762655924	5.274985767	C	6.854023905	1.150657905	-0.766607132
H	0.731833389	0.243055115	8.145790669	H	7.131856482	2.167538579	-0.519586414
H	0.728278347	1.822851488	7.342709359	C	5.679437866	0.587912042	-0.190851826
H	-0.538200277	0.646023888	6.985391301	C	4.841064983	1.317792471	0.718466275
H	5.537899248	4.922683508	6.478230243	C	5.099192596	2.784227311	0.906346931
H	5.671111937	3.167454943	6.270082589	C	6.227403321	3.222847696	1.667178045
H	6.547396988	4.253965702	5.187947956	C	7.080460745	2.313474109	2.350846296
H	0.858125152	6.495302091	3.212365095	H	6.867523651	1.250665440	2.301337375
H	2.060709522	7.398424762	4.149984220	C	8.171009954	2.764870961	3.059258617
H	2.303567099	7.123488119	2.418364418	H	8.814555540	2.054794263	3.570636765
H	1.763582689	-1.075696463	-3.633777711	C	8.464534972	4.149016866	3.125188511
H	2.981151541	-1.238168386	-4.911072397	H	9.333510710	4.490110400	3.680495352
H	3.345012037	-1.778802277	-3.270096682	C	7.646993527	5.057369115	2.492357307
H	7.040342869	1.704140438	-4.709059034	H	7.859214377	6.122116313	2.544868155
H	6.149623880	3.076308983	-5.371733196	C	6.513875890	4.624530787	1.754554531
H	6.952150045	3.223875268	-3.803755504	C	5.660259650	5.541609573	1.094943219
H	1.357780358	7.966133136	-4.543424260	H	5.880708348	6.604379795	1.157303392
H	3.049134052	7.513335737	-4.304793243	C	4.570072555	5.103861297	0.383814406
H	1.937581029	6.376502454	-5.067730335	H	3.927834172	5.824616897	-0.109555917
H	0.100935527	7.780783613	1.053505409	C	4.274615828	3.719146415	0.279334131
H	-0.904876725	8.275036069	-0.315160736	C	2.007344019	4.688743692	-1.283433625
H	-1.203787624	6.726674849	0.498870393	C	2.138499087	5.087501912	-2.620263420
=====				H	2.740170837	4.498720899	-3.305945063
18B				C	1.501506285	6.244147249	-3.088202356
=====				C	1.681479751	6.685530584	-4.522215902
C	-1.289224007	3.135866127	1.754472166	C	0.718987960	6.987391257	-2.196369572
C	-0.085370788	0.172809824	1.287390948	H	0.211498957	7.880515533	-2.555362148
C	2.250142259	0.379084064	3.866821112	C	0.566218134	6.609332535	-0.857205096
C	1.537190927	0.928125235	4.943159699	C	-0.330814054	7.380861701	0.080977313

C	1.221442106	5.457723165	-0.412946736	H	-1.862538799	2.792671870	-3.095317565
H	1.094357169	5.146429728	0.617250115	H	-2.168031863	4.560323661	-2.982585389
C	3.484238426	2.300942453	-2.085465946	H	-3.394212059	3.479974753	2.022568367
C	4.677214620	2.754762768	-2.665096567	H	-2.737409354	4.246698132	0.556919510
H	5.170761108	3.638185061	-2.268464719	H	-2.396136247	4.918995277	2.163955497
C	5.265091391	2.062122741	-3.726765190	=====	=====	=====	=====
C	6.551489030	2.550397236	-4.348623609	16A-TS	=====	=====	=====
C	4.639606185	0.899178669	-4.190985015	C	1.597223377	3.541404796	12.058811401
H	5.103726534	0.338515346	-5.000134531	C	0.991428347	4.409875489	11.136408474
C	3.445454792	0.427935219	-3.636179116	H	0.836628910	5.451646873	11.403358103
C	2.830424067	-0.865201713	-4.115742402	C	0.600600124	3.966243900	9.871648296
C	2.866370045	1.147266656	-2.584777134	C	-0.061258187	4.899100548	8.886178482
H	1.934773546	0.797864216	-2.151505077	C	0.810505404	2.619611668	9.544845776
P	2.498378094	1.466474863	2.407415503	H	0.500422538	2.258333876	8.566383248
P	2.768899468	3.153707657	-0.631445900	C	1.402560754	1.727971204	10.443206924
Rh	1.158823848	1.610226158	0.588514258	C	1.630912701	0.285888816	10.056512575
C	-1.008754485	2.609294836	3.142397281	C	1.795924476	2.202751136	11.704485802
C	-1.374591874	1.123642637	3.337854261	H	2.248404026	1.512018859	12.407939751
C	-0.968659311	0.104414537	2.286544548	C	2.784830836	2.892881850	14.677234622
H	-0.036492400	-0.679434872	0.595861622	C	3.910771672	2.183858773	14.232823812
C	-1.916947099	-1.074573820	2.505625302	H	4.335703745	2.398552402	13.255459603
H	-0.930226322	0.805826588	4.292161543	C	4.516883470	1.225745875	15.048015856
C	-2.875498191	0.801574763	3.443398916	C	5.759624798	0.498307327	14.598234902
H	0.052917417	2.737502430	3.357191956	C	3.991902297	1.009896317	16.328947407
H	-1.553036734	3.199469441	3.889954781	H	4.478147766	0.286867178	16.980647731
H	-2.361743607	-1.403950011	1.554658693	C	2.884970786	1.717254044	16.804808574
H	-1.416940908	-1.936511917	2.966339388	C	2.407601862	1.548092162	18.226309288
H	-3.333458618	1.140650228	4.377992891	C	2.276740321	2.649958162	15.957218275
H	-3.431170655	1.243131750	2.597714742	H	1.435888670	3.235211611	16.321359641
O	-2.929204293	-0.618626159	3.410465558	C	3.568343260	5.252688418	13.230350614
C	-0.469626129	2.792804500	0.745666896	C	3.948471337	5.399017571	11.868323467
C	-0.696690116	2.830264701	-0.695036153	H	3.407314166	4.869073150	11.096220452
C	-2.523446917	3.989383955	1.592811309	C	5.005498412	6.196392775	11.509773579
H	3.827253409	-3.289621637	4.479209920	H	5.288592414	6.288585049	10.464096600
H	3.612346217	-3.210761462	6.235431616	C	5.745470677	6.901419490	12.487357625
H	2.307593431	-3.815178495	5.215008796	C	6.835051840	7.738875239	12.130367582
H	0.665274373	0.291596193	8.175182068	H	7.088648444	7.843705545	11.078612040
H	0.653320437	1.851391413	7.333650072	C	7.563278286	8.394968035	13.094716221
H	-0.610482992	0.660322228	7.010893268	H	8.402034156	9.025040021	12.812918388
H	5.554832485	4.860041259	6.562037625	C	7.219166723	8.248215725	14.460285081
H	5.725886584	3.113883102	6.306906145	H	7.793530561	8.773772728	15.217701143
H	6.578616086	4.247759208	5.254903064	C	6.162738936	7.450416212	14.836061825
H	0.901564502	6.456726464	3.244603634	H	5.909418218	7.352908036	15.885436875
H	2.067483399	7.346177012	4.239642735	C	5.395368244	6.746341555	13.866108511
H	2.367690910	7.111533236	2.511833082	C	4.296934113	5.897321743	14.224463295
H	1.756808910	-0.902267501	-3.908382842	C	4.029155513	5.662170332	15.679147606
H	2.975694972	-1.007651170	-5.191151501	C	4.982354604	4.849609773	16.389854959
H	3.295071747	-1.720911235	-3.608621196	C	6.105042438	4.256323474	15.744539295
H	7.147241031	1.718219730	-4.736084680	H	6.248743056	4.406117454	14.681822361
H	6.351902543	3.227957008	-5.187444569	C	7.010137698	3.496259213	16.449574000
H	7.162793141	3.096256666	-3.623406608	H	7.865919217	3.067742915	15.935368422
H	0.871582528	7.345708928	-4.845522073	C	6.838538238	3.267256144	17.834657718
H	2.622221904	7.236330536	-4.645128674	H	7.561271947	2.664926315	18.377121939
H	1.717091730	5.829015305	-5.203047356	C	5.760887934	3.815310194	18.489696696
H	0.120750535	7.481051089	1.073286549	H	5.619377493	3.655176908	19.555285717
H	-0.546576519	8.384067033	-0.296516346	C	4.819332413	4.615146257	17.792203995
H	-1.287625554	6.859471264	0.208986591	C	3.727039769	5.221552811	18.454030732
O	-1.466985369	3.739555126	-1.264946943	H	3.615949233	5.088074391	19.527089294
O	-0.073496231	1.960509322	-1.347887016	C	2.824412198	5.988145630	17.764195964
C	-1.493359708	3.748046427	-2.717260556	H	2.027493219	6.459422139	18.317941517

C	2.937992408	6.207072510	16.361511619	H	-0.588146350	2.412731077	12.322667198
C	0.780342376	8.165460918	16.754094261	H	-1.954687167	1.587355656	13.096454236
C	0.849359788	9.559798185	16.620355824	H	-3.415418540	4.827779248	11.352719288
H	1.291100439	10.005704127	15.737638570	H	-1.634606334	4.878630390	11.258422040
C	0.353741581	10.409605964	17.616708114	H	-3.374994063	4.800042924	13.769353244
C	0.416062718	11.908839086	17.434877052	C	-1.671465604	4.367611118	16.195870155
C	-0.224206876	9.845755186	18.759396555	C	-2.154715479	3.836639786	17.520900710
H	-0.602583596	10.498539454	19.542994762	C	-2.232702760	6.790499353	16.517091492
C	-0.351349802	8.458955753	18.903527816	H	-1.895169452	4.508750463	18.338886687
C	-1.068017252	7.850163501	20.083008062	H	-3.248177612	3.757522884	17.513757382
C	0.149696279	7.634283296	17.889470648	H	-1.745809295	2.838023692	17.705327499
H	0.017859841	6.561359054	17.987650265	O	-2.157989797	7.955596684	15.844969170
C	2.252062027	8.156038964	14.252249921	O	-2.860359612	6.658923199	17.556853477
C	3.248549001	9.068730546	14.637797857	C	-2.879119997	9.061300397	16.422066319
H	3.588418086	9.095638527	15.669462491	H	-2.493983741	9.286596588	17.416952111
C	3.817528657	9.937728819	13.706713529	H	-2.707562678	9.899947818	15.747737103
C	4.884470168	10.929562285	14.103124457	H	-3.944855040	8.827252078	16.487911928
C	3.397297750	9.852202364	12.370732992	=====			
H	3.855141483	10.508941241	11.633517419	16B-TS			
C	2.425881407	8.938437019	11.957004796	=====			
C	2.056688380	8.787024462	10.500959199	C	2.006977500	3.624871294	12.023758081
C	1.840872691	8.107044233	12.920350068	C	1.604632124	4.508866797	11.007783754
H	1.084885930	7.388480293	12.620302087	H	1.426239823	5.553454170	11.245534473
P	2.077682755	4.252305856	13.681111819	C	1.422098122	4.072817705	9.693535942
P	1.507183901	7.032343153	15.485285315	C	0.953306752	5.012732865	8.610031079
H	0.990837546	8.567732681	10.374674435	C	1.637337848	2.718638543	9.407731518
H	2.287474439	9.687251744	9.925091178	H	1.493091310	2.364740626	8.388976167
H	2.618084944	7.954805498	10.057063873	C	2.018516190	1.808959338	10.397236256
H	4.600616741	11.948622659	13.816859739	C	2.263333673	0.357533797	10.056721326
H	5.068552566	10.917247280	15.180674417	C	2.197272713	2.274084101	11.708556015
H	5.828724485	10.696631649	13.600040773	H	2.489274147	1.568607435	12.478442369
H	-0.506359134	7.008214595	20.502729326	C	2.811871563	2.866086488	14.710504622
H	-1.230434116	8.581813956	20.879191625	C	4.034470749	2.257351729	14.389188327
H	-2.042549477	7.465469631	19.760158031	H	4.604495447	2.608094442	13.532576366
H	0.501845540	12.426639757	18.394888427	C	4.534010487	1.210073978	15.165588282
H	1.266349290	12.203108674	16.811811423	C	5.862062264	0.567812708	14.846808867
H	-0.492139502	12.280729956	16.943333985	C	3.797363015	0.802542151	16.286466863
H	5.769029936	-0.539114647	14.946499474	H	4.192036903	0.003777998	16.911418607
H	5.857537419	0.495338709	13.508908597	C	2.583269955	1.400758028	16.635524052
H	6.648689367	0.990386308	15.010926269	C	1.854764535	1.006812366	17.896434707
H	1.339441874	1.766597814	18.324175958	C	2.089616185	2.428148706	15.823205831
H	2.585582283	0.534457073	18.597058746	H	1.153432488	2.918671469	16.082578751
H	2.945611473	2.241266779	18.885258763	C	3.621862215	5.449144830	13.625214098
H	1.901390260	-0.325543252	10.921763565	C	4.038207842	5.952885710	12.361808240
H	0.736686675	-0.149166995	9.598130356	H	3.626370844	5.537330419	11.453163361
H	2.442788394	0.203052121	9.323873764	C	4.985708366	6.940248495	12.260493987
H	0.368389560	4.789530108	7.885266265	H	5.295545025	7.297398447	11.281229771
H	-1.132182945	4.678039299	8.802953292	C	5.588429394	7.489435709	13.415898463
H	0.043731233	5.945378982	9.186916413	C	6.565195988	8.515884900	13.327616550
C	-1.632306038	6.070857599	13.662511691	H	6.827340579	8.901797880	12.345796939
C	-1.544771223	5.680472098	15.819445534	C	7.178469911	9.001416885	14.458172588
Rh	0.174767601	5.285518281	14.721225980	H	7.933725253	9.778159501	14.380593012
C	-1.274925966	3.406530947	15.153819866	C	6.827807030	8.482419071	15.727341419
C	-1.610512637	3.596013039	13.836129865	H	7.317977221	8.864730189	16.618328632
C	-2.376715653	4.808702247	13.310056983	C	5.869529879	7.501904228	15.845167668
C	-2.491111351	4.465095944	11.808417483	H	5.604997181	7.127679688	16.826869002
C	-1.590039525	2.557248539	12.737959890	C	5.221306921	6.967342594	14.695898977
O	-2.500314216	3.042651752	11.751122557	C	4.232852597	5.929638144	14.782943900
H	-2.228286690	6.933503403	13.929801257	C	3.953855995	5.347666422	16.133948908
H	-0.879909391	6.356947276	12.919268177	C	4.972567361	4.524930263	16.723982908
H	-0.886331766	2.436569595	15.461860423	C	6.186381253	4.215006523	16.047087787

H	6.349999975	4.596364857	15.046443438	C	-1.049776056	6.651786948	13.148539066
C	7.155446100	3.443500487	16.646470004	C	-1.680110093	6.055972352	15.159861846
H	8.079061889	3.232100583	16.114995088	Rh	0.157726695	5.332001149	14.484182405
C	6.959874052	2.918874971	17.946647491	C	-1.766839930	3.848766237	14.206562265
H	7.733516115	2.310381683	18.405993636	C	-1.582955895	4.249260636	12.907956085
C	5.792903697	3.183748232	18.623630935	C	-1.918233096	5.659470474	12.413256391
H	5.631398759	2.789528623	19.623720519	C	-1.679503412	5.526762007	10.894617746
C	4.783263082	3.992498763	18.039047825	C	-1.412772536	3.354753711	11.702587131
C	3.598723866	4.321903664	18.736733063	O	-1.829276900	4.144208582	10.584571324
H	3.463841931	3.957996777	19.752470685	H	-1.504887186	7.603510549	13.406820737
C	2.632898949	5.106003620	18.158012221	H	-0.090187183	6.829216804	12.653240038
H	1.753629792	5.349888158	18.736102237	H	-1.727089832	2.791355138	14.454081049
C	2.781073399	5.616719250	16.837219976	H	-0.386568291	2.997809699	11.580130290
C	0.312276353	6.928107793	17.505071975	H	-2.072234869	2.480389004	11.765049413
C	0.164287822	8.201784739	18.055186845	H	-2.408777242	6.082834303	10.299924840
H	0.686012340	9.050950643	17.626382815	H	-0.676006288	5.884845994	10.632481599
C	-0.681337502	8.413910432	19.157195199	H	-2.981423159	5.844176342	12.616519505
C	-0.857246299	9.808629145	19.709819540	C	-2.237859401	4.804785930	15.217754402
C	-1.362549238	7.324731998	19.702195616	C	-3.199061473	4.394622643	16.277550918
H	-2.017175557	7.479650286	20.556858277	C	-2.191060060	7.305492096	15.796282754
C	-1.231693969	6.031759609	19.169557235	H	-2.436667535	7.139252553	16.846658145
C	-2.017684735	4.882621886	19.752072729	H	-1.477887818	8.126705839	15.712855545
C	-0.398537753	5.851427716	18.067743601	H	-3.125746360	7.599597475	15.303838452
H	-0.309128503	4.860577394	17.629791765	O	-3.810288162	5.158425181	17.002256049
C	2.126643646	8.131161463	15.503931940	O	-3.278016985	3.048668749	16.369942720
C	2.895710520	8.904705878	16.387987616	C	-4.174103595	2.545337599	17.381874956
H	3.024829872	8.585279657	17.418837465	H	-4.179777857	1.463151103	17.254731863
C	3.520439669	10.073088337	15.948384334	H	-3.811973084	2.812575335	18.377846927
C	4.374036769	10.901211569	16.876515180	H	-5.176057373	2.958624741	17.244644405
C	3.387262388	10.436932054	14.600976620	=====			
H	3.891699627	11.333925589	14.247224095	18A-TS			
C	2.648456028	9.671432614	13.696095389	=====			
C	2.597914573	10.026076355	12.229748724	C	2.152140011	7.491797124	11.655172369
C	2.006846457	8.520645789	14.167687609	C	1.030933251	8.330214829	11.642822510
H	1.451706105	7.897901530	13.476107675	H	0.247609868	8.182363973	12.380647542
P	2.181903814	4.273647553	13.733929782	C	0.899904127	9.358663827	10.702533783
P	1.379703983	6.561410904	16.053539730	C	-0.306524342	10.268186170	10.715078293
H	1.638774731	9.749578606	11.779900962	C	1.914550645	9.52533686	9.754350411
H	2.755308314	11.095383480	12.064574376	H	1.815374963	10.307431913	9.003282939
H	3.382579122	9.485458367	11.685797349	C	3.048743424	8.704950114	9.737778443
H	4.169698832	11.970396868	16.759955091	C	4.126753720	8.910575551	8.698210261
H	4.211545901	10.634108918	17.924190787	C	3.157601581	7.690668958	10.694656210
H	5.435221285	10.744077477	16.651589839	H	4.032549929	7.051047157	10.678156492
H	-1.617046904	3.917119524	19.426360465	C	3.580282750	5.091399838	12.129298796
H	-2.007129025	4.904435190	20.846461213	C	4.936693844	5.213832483	12.435614163
H	-3.060091464	4.940892488	19.420609732	H	5.259878465	5.861998691	13.241751213
H	-1.322229446	9.795403348	20.699045357	C	5.898369175	4.519528770	11.687087365
H	0.102974885	10.328474987	19.791952291	C	7.356800036	4.601781057	12.068887647
H	-1.495174119	10.410258826	19.051169120	C	5.469464214	3.759579459	10.595221465
H	5.849856461	-0.505975803	15.057420264	H	6.210906259	3.245579033	9.985812056
H	6.138662394	0.708172494	13.797712517	C	4.114520142	3.654643249	10.242229424
H	6.652045136	1.015408658	15.460258454	C	3.714392340	2.910113271	8.989900902
H	0.770905706	1.119196466	17.789030931	C	3.169065042	4.305598896	11.038305412
H	2.065310594	-0.027790217	18.182530892	H	2.113793186	4.237355167	10.782109764
H	2.169573618	1.652807271	18.725074867	C	2.839199476	6.904321540	14.484059959
H	2.263070613	-0.271530404	10.951333654	C	2.553310300	8.293309251	14.669136574
H	1.502821657	-0.025695234	9.369120747	H	2.295383790	8.895115697	13.806031041
H	3.236101052	0.232956772	9.565439270	C	2.593460635	8.873830500	15.909503857
H	1.464813788	4.815889038	7.662692373	H	2.391645706	9.935960843	16.022067475
H	-0.120973044	4.875899897	8.440712696	C	2.863227494	8.097158969	17.065535220
H	1.124140440	6.060333410	8.876422929	C	2.814347277	8.653809035	18.369543027

H	2.569123747	9.706985591	18.479023244	H	8.010176191	4.348969866	11.228950376
C	3.061150476	7.872941067	19.476366659	H	7.621040450	5.603852331	12.423111858
H	3.013171598	8.307064407	20.471073465	H	7.576804037	3.908542319	12.890151801
C	3.374751927	6.501131643	19.322500746	H	2.628454162	2.839832539	8.889367543
H	3.560064155	5.889262946	20.200750163	H	4.097027776	3.427456549	8.102714332
C	3.448941879	5.936540720	18.068988980	H	4.126361122	1.895897778	8.971257712
H	3.683479267	4.883599846	17.962096864	H	4.920191078	8.163874866	8.787213697
C	3.189530246	6.711841270	16.904863264	H	3.714354795	8.845493667	7.685015253
C	3.234088832	6.130455707	15.590696739	H	4.585335988	9.901091787	8.796713296
C	3.900761622	4.787873449	15.457727220	H	-0.613306407	10.537651359	9.699956394
C	5.331744751	4.772375930	15.631576325	H	-1.160242862	9.796926019	11.211902518
C	6.095598065	5.953692838	15.852092006	H	-0.089550961	11.202392534	11.247369750
H	5.598039772	6.915657487	15.889051268	C	-1.009661207	6.952952151	13.927364829
C	7.461434697	5.896087079	16.020576863	C	-0.973934647	6.197286682	15.835699263
H	8.020605553	6.811549541	16.191380221	Rh	0.427547130	5.676001018	14.318806063
C	8.142352335	4.657274601	15.979158991	C	-2.097701696	4.273086242	14.798527778
H	9.218288090	4.625379221	16.123241298	C	-1.326089127	4.763949370	13.582714517
C	7.437876862	3.497736303	15.750748415	C	-1.905222234	6.111445421	13.096697974
H	7.948982506	2.539174935	15.710744856	C	-1.642817581	5.998449818	11.565332452
C	6.030824639	3.525468141	15.565090964	C	-1.215547547	3.887276604	12.331762484
C	5.301409173	2.335495141	15.317491704	O	-1.869279730	4.623682251	11.294588471
H	5.836674060	1.391313916	15.267621029	H	-1.280775586	7.968386255	14.225788004
C	3.943538891	2.369454428	15.152452021	H	-3.149362979	4.087240992	14.534667579
H	3.404705144	1.448558190	14.964536120	H	-0.166900649	3.689620228	12.072315836
C	3.228340100	3.597417042	15.223262021	H	-1.723097353	2.923208224	12.442811427
C	0.955895466	2.133637857	14.150787125	H	-2.338819020	6.586451459	10.963092701
C	-0.137077505	1.322298869	14.481737054	H	-0.612042280	6.288661298	11.323963812
H	-0.675680828	1.479763066	15.411562997	H	-2.985270275	6.237150323	13.263590798
C	-0.533432039	0.267949838	13.647958522	C	-1.974562188	5.277567609	15.917336469
C	-1.701476214	-0.610630063	14.030710769	C	-2.823696187	5.104229920	17.135103835
C	0.198895235	0.028399446	12.482292935	C	-0.613579360	7.289436359	16.800666798
H	-0.090873255	-0.795571663	11.832693566	H	0.329130149	7.056414165	17.308159552
C	1.309784587	0.808782229	12.137548228	H	-0.425340865	8.224003479	16.264461618
C	2.092077351	0.510442953	10.881403956	H	-1.384203679	7.445730815	17.556148729
C	1.669441610	1.871000701	12.971565118	O	-2.797704182	5.799854055	18.135155481
H	2.526991582	2.480659200	12.707425381	O	-3.622275234	4.026199627	17.010885339
C	1.014916247	3.062164153	16.891536232	C	-4.441113612	3.727098982	18.159086953
C	1.268720496	1.740384562	17.300483852	H	-4.991654883	2.824086227	17.897347061
H	1.628111218	1.007138798	16.586030766	H	-3.813420770	3.559205004	19.038764803
C	1.047418833	1.344512694	18.618363065	H	-5.126292185	4.552813608	18.364278462
C	1.318866248	-0.073514548	19.064140536	H	-1.706776238	3.313416005	15.150641664
C	0.571183926	2.296372591	19.535303332	=====			
H	0.387103551	1.990910544	20.563773258	18B-TS			
C	0.331652649	3.619758281	19.164630817	=====			
C	-0.163707092	4.653499047	20.146758787	C	2.058394700	5.864652974	11.125247797
C	0.565882088	3.990175918	17.830360562	C	1.423430530	7.093907117	10.885136486
H	0.397074966	5.015179423	17.536470912	H	0.997435342	7.651871755	11.715439068
P	2.293856708	6.130097590	12.891344737	C	1.315009168	7.613270549	9.590884232
P	1.389658786	3.599094206	15.171921304	C	0.671550662	8.959670086	9.352299858
H	-1.103400081	5.099225689	19.802563048	C	1.828476807	6.862364466	8.526027580
H	-0.327128024	4.223683807	21.138886351	H	1.733094635	7.245704929	7.512210445
H	0.563338236	5.468750110	20.244626132	C	2.450580970	5.626079701	8.731635206
H	0.455846979	-0.495818010	19.590726758	C	2.997488829	4.839411998	7.563651573
H	1.550098688	-0.725784929	18.217462973	C	2.564664822	5.137400316	10.040313822
H	2.167811928	-0.111570666	19.757142090	H	3.037535821	4.174368164	10.199733566
H	3.082018436	0.971419221	10.913084044	C	2.689324335	3.518902428	12.782481731
H	2.219164562	-0.568335320	10.741485201	C	3.960860611	3.156973829	12.321842627
H	1.572945253	0.891681924	9.992886529	H	4.671373898	3.924709518	12.026065773
H	-2.139199015	-1.098837021	13.155270303	C	4.348026407	1.812314748	12.276946105
H	-1.384976239	-1.400175700	14.722844718	C	5.743708194	1.428507662	11.850099203
H	-2.488328773	-0.036598073	14.530394165	C	3.432398851	0.841001341	12.696345259

H	3.724451435	-0.206889832	12.665591906	H	1.805215836	10.010713150	15.586940233
C	2.158521267	1.177220278	13.170413762	H	2.152541451	10.801565722	17.135583681
C	1.217857687	0.109939916	13.677084779	H	3.476927003	10.201419123	16.132216972
C	1.799088921	2.525308399	13.209609330	H	3.267753835	7.924574635	21.124027477
H	0.828840686	2.807542994	13.603767116	H	3.307394470	6.163465259	20.934185445
C	3.563127173	6.204151017	13.656463717	H	4.666790879	7.149500645	20.378077251
C	3.813699779	7.510988870	13.146470848	H	-0.792900456	0.059218233	15.981450638
H	3.358456297	7.814148613	12.211958962	H	-0.982851746	-0.434684484	17.668282721
C	4.646859554	8.385329178	13.792963698	H	-2.370734074	0.184382420	16.776953884
H	4.844517460	9.366421973	13.368503437	H	-2.899064441	3.553219656	20.436419099
C	5.254076353	8.029308026	15.020237484	H	-1.413768140	4.375600452	20.938902416
C	6.083415648	8.943039254	15.723622569	H	-2.490695101	5.152462598	19.776148039
H	6.260920678	9.923392019	15.288711403	H	5.769227813	0.424209381	11.417429283
C	6.648593110	8.598384927	16.929500792	H	6.147866292	2.129897374	11.113905416
H	7.281259057	9.302745929	17.461130027	H	6.416011924	1.438085385	12.715677501
C	6.399582931	7.317259745	17.476009608	H	0.196138723	0.489509799	13.774100849
H	6.834753533	7.048390183	18.434426273	H	1.193763973	-0.757234158	13.009241721
C	5.612166984	6.405893247	16.809592364	H	1.535008439	-0.248407322	14.664807657
H	5.428003462	5.436095668	17.253335527	H	3.290828284	3.828735948	7.860001171
C	5.019138242	6.722276566	15.554227458	H	2.257889234	4.755786218	6.760708773
C	4.191457227	5.785854195	14.834087687	H	3.880232158	5.332798251	7.140246339
C	4.139474886	4.385902884	15.389282269	H	0.186090156	9.004445739	8.372546973
C	5.349786766	3.610421004	15.303022741	H	-0.079384457	9.188783220	10.115861275
C	6.488944246	4.055105142	14.573870899	H	1.421587330	9.760140485	9.380489251
H	6.446959269	5.000366702	14.046398463	C	-1.091388734	6.804361691	13.268042335
C	7.644154242	3.307550230	14.532753981	C	-1.490801624	5.994127980	15.424135715
H	8.500879325	3.672669196	13.973622072	Rh	0.217844556	5.753647830	14.133190452
C	7.727977902	2.068767609	15.212266299	C	-2.091630258	3.949770225	14.267459744
H	8.648985002	1.494158118	15.179487987	C	-1.292930018	4.590153590	13.147393407
C	6.638813668	1.595703889	15.905984151	C	-1.988937591	5.854141721	12.585532263
H	6.684786644	0.642068929	16.425271564	C	-1.872069933	5.662768341	11.045019011
C	5.434105152	2.344060669	15.966792064	C	-0.973125018	3.756076538	11.897069454
C	4.313609230	1.880321030	16.694556557	O	-1.864317812	4.246964973	10.896808147
H	4.381161479	0.933768858	17.224687776	H	-1.261629120	7.880113051	13.354727014
C	3.155427173	2.611931305	16.738973588	H	-3.027819498	3.541112031	13.851701355
H	2.321796376	2.234549754	17.315609018	H	0.064583308	3.869610337	11.562627049
C	3.044177312	3.866726507	16.077630095	H	-1.175281372	2.689458602	12.038391799
C	0.318749511	3.772352252	17.167444898	H	-2.731124619	6.060606339	10.501718287
C	-0.346370070	4.302235587	18.272086140	H	-0.948727761	6.105706437	10.649664508
H	-0.150763343	5.316912242	18.599064425	H	-3.047651426	5.950015752	12.861396878
C	-1.329921660	3.554827515	18.940348388	C	-2.358072341	4.958734369	15.360353602
C	-2.078676057	4.186329039	20.088171742	C	-3.517397044	4.693623025	16.275849685
C	-1.610150764	2.263412392	18.493940507	C	-1.544988262	7.073817666	16.428157016
H	-2.368656749	1.676548478	19.008100035	H	-3.664051333	5.494702514	16.997575774
C	-0.957356395	1.706913362	17.380971901	H	-4.434562183	4.544734676	15.692361625
C	-1.291811535	0.306963567	16.922429230	H	-3.333468241	3.765394305	16.830546938
C	-0.006520365	2.478545232	16.715234448	O	-1.087844723	8.250654397	15.926960143
H	0.494204665	2.065008496	15.843584697	O	-1.918619422	6.958340998	17.583312807
C	1.910704562	6.264545166	17.124069904	C	-1.062486013	9.343837624	16.866028343
C	2.443860392	6.134636391	18.414050298	H	-0.394444779	9.108733098	17.698201396
H	2.480483114	5.156913298	18.887691243	H	-0.688617073	10.201720336	16.306975455
C	2.945592617	7.247568488	19.092718280	H	-2.065073259	9.542160585	17.252879997
C	3.573375463	7.111071485	20.458255209	H	-1.554330770	3.101346269	14.714011380
C	2.914624455	8.493041793	18.451543958	=====			
H	3.321544096	9.360838487	18.966997167	17			
C	2.402904277	8.650136532	17.160896597	=====			
C	2.454811951	9.989348720	16.466498195	C	1.421953956	5.229945372	10.695807516
C	1.893917095	7.521454126	16.509563616	C	0.993466477	6.534331315	10.417090664
H	1.510499506	7.634152963	15.497474155	H	0.867335900	7.244917164	11.229669217
P	2.180103970	5.267153230	12.864480275	C	0.740694949	6.951044407	9.101255039
P	1.440531807	4.791939130	16.142966215	C	0.311859176	8.371084265	8.818766526

C	0.882912486	6.014942338	8.074030159	C	3.427824860	5.312446355	17.910576988
H	0.683019871	6.321617972	7.049462326	H	3.407032638	4.259766755	18.178586082
C	1.272503204	4.692788445	8.324174201	C	4.178571598	6.200141768	18.679357586
C	1.404661450	3.707787571	7.186289375	C	4.954907686	5.730828862	19.887455551
C	1.546829814	4.312195860	9.639849405	C	4.220413810	7.549831924	18.292126364
H	1.867930360	3.295828356	9.834705300	H	4.810916601	8.247685934	18.882653216
C	2.098658362	2.946276025	12.295788658	C	3.548807285	8.015615608	17.161885292
C	3.285429235	2.366418828	11.846169671	C	3.647529819	9.453300160	16.713876353
H	4.146017139	2.989609587	11.621078698	C	2.784461531	7.106281968	16.416487704
C	3.386006404	0.976008538	11.696196551	H	2.254008807	7.449991091	15.533898075
C	4.690986120	0.360106754	11.253882925	P	1.870824145	4.749603789	12.419381838
C	2.263563694	0.193895505	11.979698581	P	1.814804592	4.568937581	15.730952571
H	2.329069003	-0.885643303	11.859698332	H	2.674195211	9.827273694	16.378125578
C	1.050726784	0.756098891	12.404473889	H	4.008985966	10.104617572	17.514649569
C	-0.141824922	-0.129443095	12.676653783	H	4.344910468	9.540806268	15.872089180
C	0.982248048	2.140702062	12.565867967	H	4.680564820	6.301424595	20.781840345
H	0.056923800	2.604219424	12.900675527	H	4.778243544	4.672070014	20.096042880
C	3.477007036	5.606704251	12.776617597	H	6.032348391	5.867929046	19.737500662
C	3.717567356	6.834450319	12.097173865	H	-1.277527263	0.362426232	15.302818077
H	3.138899508	7.081427955	11.217408820	H	-0.721605558	-0.588734626	16.683331998
C	4.686250583	7.709129594	12.517534660	H	-2.300912120	0.191712473	16.737827113
H	4.858907674	8.632224180	11.971150333	H	-1.170293494	2.598153328	20.881102892
C	5.466399828	7.429830172	13.663580128	H	0.451201803	3.302474653	20.973757444
C	6.433118979	8.347939635	14.149993883	H	-0.915326151	4.309054727	20.491838155
H	6.570799218	9.288226187	13.622331950	H	4.578709074	-0.701826258	11.018794213
C	7.179083154	8.054627610	15.267603728	H	5.086909766	0.865464207	10.366264529
H	7.913918425	8.764390007	15.635942195	H	5.444891111	0.456318680	12.042271258
C	6.986430382	6.825562272	15.941817757	H	-1.039270143	0.457674951	12.892153504
H	7.566866515	6.605775748	16.833068823	H	-0.361386663	-0.771115397	11.816435341
C	6.070287030	5.908489068	15.483214185	H	0.043736067	-0.790261270	13.531324662
H	5.924275705	4.980186135	16.020449605	H	1.745217042	2.729627794	7.536626172
C	5.278628458	6.177009601	14.331778212	H	0.445721667	3.567173677	6.674634917
C	4.296587492	5.246442947	13.848694552	H	2.119593082	4.066023318	6.437026628
C	4.260058779	3.881968351	14.468149530	H	0.250717609	8.563592282	7.744746040
C	5.376545820	3.014007602	14.204204533	H	-0.667678801	8.575331311	9.263042364
C	6.444130172	3.383439675	13.336288928	H	1.022043516	9.087438885	9.247569020
H	6.414901343	4.341873032	12.833372663	C	-0.731475029	8.157395164	14.560066135
C	7.516286442	2.546248545	13.129145530	C	-0.847054207	6.893477807	15.436051848
H	8.318946966	2.855209760	12.465853073	Rh	0.466092066	5.523353815	14.121921601
C	7.584719511	1.288885954	13.773926113	C	-1.841433145	5.656814674	13.560907992
H	8.442357688	0.643057702	13.610976561	C	-1.854394957	6.776403222	12.790414071
C	6.557372232	0.885360262	14.594424064	C	-1.709676597	8.145746650	13.391194024
H	6.589173520	-0.083886686	15.083804430	C	-1.373856024	8.983440575	12.150401795
C	5.433940324	1.723464634	14.820478979	C	-2.181410430	6.944672367	11.335655837
C	4.363662600	1.319489997	15.651528807	O	-2.090673444	8.353547346	11.082977991
H	4.400938905	0.341495608	16.124311526	H	-0.896870396	9.037356374	15.185296970
C	3.292353911	2.146334393	15.870526892	H	0.296166970	8.253422873	14.177299293
H	2.497350127	1.807428523	16.519692595	H	-2.143330692	4.693359321	13.157673379
C	3.223606550	3.441513663	15.284070098	H	-1.493499361	6.380418590	10.693971360
C	0.792404154	3.512493980	16.825829635	H	-3.205032962	6.617581065	11.110041522
C	0.584601917	3.785476472	18.177400547	H	-1.707632025	10.022085805	12.208767141
H	1.025826243	4.661124225	18.636019849	H	-0.288461301	8.975058384	11.958863893
C	-0.242958803	2.959699649	18.954819256	H	-2.710777911	8.440061539	13.742321000
C	-0.485645298	3.304771373	20.404528154	C	-1.550509744	5.741537460	14.997964718
C	-0.833752206	1.849278010	18.354489132	C	-2.188905002	4.684768667	15.861419486
H	-1.473351862	1.201005910	18.949865319	C	-0.507042376	7.081927381	16.882930940
C	-0.633718824	1.546437885	16.997823927	H	-1.706827601	4.574727906	16.825157944
C	-1.269057015	0.316843627	16.393939415	H	-3.234934641	4.973584500	16.031952775
C	0.168685227	2.394992780	16.239005046	H	-2.189520946	3.723664637	15.341777839
H	0.330246338	2.179471176	15.186949899	O	0.091138132	8.275830381	17.095679465
C	2.708738439	5.765683040	16.790104656	O	-0.720384277	6.298913046	17.790112172

C	0.467904956	8.539132447	18.461755181	C	0.837768190	2.878935777	16.537377682
H	-0.405375866	8.483965225	19.115893923	C	-0.032105283	3.126254628	17.605459266
H	0.886641395	9.545097314	18.457427194	H	-0.017935258	4.089020101	18.110289426
H	1.217966017	7.816996224	18.791077426	C	-0.911891797	2.132372453	18.062167611
=====	=====	=====	=====	C	-1.831434399	2.414656943	19.227462052
19	=====	=====	=====	C	-0.895212103	0.885129067	17.434438985
C	1.146564083	4.937365648	10.581213116	H	-1.564438889	0.103595539	17.788323019
C	0.453148319	6.110372915	10.266696668	C	-0.030042456	0.607712397	16.365472442
H	0.250093024	6.827649758	11.049676284	C	-0.008276103	-0.764193600	15.735216547
C	0.015070590	6.371154537	8.963159155	C	0.816036494	1.619408186	15.910286748
C	-0.712499509	7.656747077	8.645495736	H	1.461860140	1.420366854	15.061884329
C	0.277396135	5.418050319	7.975644657	C	2.415973742	5.260334062	17.223640482
H	-0.073038647	5.595772185	6.960697714	C	2.683204313	4.699775562	18.483214205
C	0.972159741	4.233552126	8.257378346	H	2.461177453	3.653464550	18.672411602
C	1.236335156	3.226828527	7.162137266	C	3.227765270	5.476520169	19.506968934
C	1.402786413	4.001568475	9.566482270	C	3.525508829	4.880383133	20.862715820
H	1.923514157	3.077667804	9.792879332	C	3.523449170	6.822937459	19.243752381
C	1.888577503	2.815804708	12.305578467	H	3.953201294	7.431867810	20.037043901
C	3.101266013	2.197672291	11.992907568	C	3.293166583	7.401395955	17.993008112
H	3.996781670	2.789678477	11.841333754	C	3.661999921	8.835993707	17.699474765
C	3.174860918	0.803735444	11.861419433	C	2.722215240	6.604924145	16.988634478
C	4.507673076	0.145881396	11.593174985	H	2.540553640	7.049229527	16.014457349
C	1.997075448	0.058020903	11.986685820	P	1.633119596	4.616886321	12.322897785
H	2.039348378	-1.021725988	11.855655090	P	1.845020689	4.224943983	15.816286641
C	0.759368511	0.663006810	12.252212507	H	2.862886793	9.341614609	17.149316608
C	-0.516836390	-0.145812000	12.275089373	H	3.865736027	9.395015427	18.617449089
C	0.721006112	2.047361923	12.438410388	H	4.561633670	8.873901968	17.074993805
H	-0.233097392	2.523011488	12.649234062	H	3.225494607	5.556626928	21.669936001
C	3.144563618	5.612850058	12.700459538	H	3.008158936	3.927787601	21.007514667
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H	2.592570836	7.065528385	11.180943080	H	0.714164870	-0.813774855	14.916856663
C	4.088282093	7.852690944	12.461053272	H	0.262188583	-1.527771139	16.473548104
H	4.143891103	8.797390374	11.927593067	H	-0.993021954	-1.033402349	15.337655922
C	4.912818722	7.653966019	13.596798585	H	-2.556979825	1.609992637	19.372818488
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C	6.586573066	8.454892208	15.162537846	H	4.391523102	-0.898417801	11.290034687
H	7.251198494	9.238024037	15.515430388	H	5.057906931	0.671886970	10.805556661
C	6.542186692	7.211211578	15.836417648	H	5.138241875	0.173297452	12.489796983
H	7.164954112	7.051535710	16.711716354	H	-1.336377234	0.419944825	12.727343447
C	5.712827640	6.203945481	15.398486469	H	-0.820115632	-0.404957716	11.253200816
H	5.683506051	5.262686965	15.934386624	H	-0.395258215	-1.085956516	12.820917706
C	4.875879863	6.387952330	14.261255335	H	1.728691737	2.330240165	7.548607501
C	4.005719138	5.346881815	13.777878912	H	0.302837618	2.917539913	6.678611045
C	4.236928254	3.984230670	14.366045814	H	1.877393956	3.653551589	6.382089707
C	5.455284665	3.323560866	13.974142563	H	-1.331641380	7.557795950	7.749569811
C	6.292066311	3.823935814	12.937140066	H	-1.361531634	7.965410183	9.472130208
H	6.015488775	4.737168837	12.422573174	H	-0.004018197	8.474783241	8.466350168
C	7.440963518	3.159484637	12.570286121	C	-1.780371915	7.010781580	12.908438434
H	8.061052182	3.557720126	11.772417692	C	-0.509566008	7.414184395	13.661392871
C	7.824094403	1.966527549	13.226051879	Rh	0.645868815	5.618127989	14.210598341
H	8.738244641	1.458470826	12.933738301	C	-0.994540915	5.970438581	15.568554503
C	7.036300202	1.452735763	14.230483166	C	-1.412560581	5.096413250	14.503040801
H	7.319215400	0.535842559	14.739889534	C	-2.302354725	5.662878950	13.409371548
C	5.838237431	2.105748814	14.621099485	C	-2.355667265	4.477115734	12.443361353
C	5.014605194	1.591182496	15.653598080	C	-1.814147589	3.647254147	14.58880123
H	5.323936102	0.689595985	16.176009621	O	-2.302072488	3.305778706	13.281153974
C	3.843359045	2.215909855	15.991612446	H	-2.537285586	7.799259082	13.027594338
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C	3.422218754	3.403611737	15.327436418	H	-0.968507999	5.695581474	16.615262044
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H	-2.619101243	3.518363068	15.331765333	C	2.271390169	0.317796682	5.102165253				
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H	-3.299969640	5.775129583	13.861709423	H	1.071227034	1.402474656	3.689109927				
C	-0.531979107	7.231957801	15.114287143	C	3.859739803	1.167916894	0.073530042				
C	0.028747264	8.208859261	16.103553490	C	4.535420841	2.043638397	-0.788722848				
C	0.216596355	8.615187218	13.088905505	H	4.431478634	3.117535246	-0.676528768				
H	1.256263886	8.666912484	13.415807482	C	5.358843209	1.537292287	-1.796664762				
H	0.193993629	8.590053017	11.996281988	H	5.877665896	2.223274519	-2.459324760				
H	-0.262256707	9.550066298	13.407997587	C	5.521343556	0.160305196	-1.946444512				
O	0.812902323	9.100491165	15.845114894	H	6.162806719	-0.230218529	-2.730537290				
O	-0.477112621	7.977197371	17.328381939	C	4.863942059	-0.717057741	-1.079378970				
C	-0.017063387	8.840128970	18.391052544	H	4.997416338	-1.789590597	-1.183902032				
H	-0.713044480	8.683666460	19.214901597	C	4.032003718	-0.219735603	-0.079684782				
H	0.993974143	8.550964564	18.685035621	H	3.525433383	-0.910217023	0.585243576				
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O	1.141457795	-1.006790077	-3.349803974	C	1.033259427	2.312018128	-1.001165675				
H	0.104050942	2.860262198	-1.393190800	C	0.642885240	-0.115168434	-1.427295747				
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H	1.095608158	-1.069332960	0.931813606	C	1.451832856	1.035434609	-3.288336009				
H	2.114319608	-1.996960548	-1.779080068	C	0.882568962	-1.096516498	-2.557200606				
H	0.409910572	-2.429022397	-2.059563246	O	1.087596816	-0.278101364	-3.713987804				
H	0.990412964	0.877171621	-4.132398172	H	0.543636381	3.284735435	-1.117388707				
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H	-0.601318984	0.740970675	-2.269883063	H	0.779606753	-1.134669763	0.495140728				
C	-2.219142753	1.061948665	0.292409954	H	1.766600883	-1.721229929	-2.351602614				
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C	-1.772760925	3.400547768	1.486270248	H	2.521095824	1.092508278	-3.024070892				
H	-1.784175045	-0.821666326	-0.510593574	H	-0.444467983	1.467683763	-2.356829931				
H	-3.368433905	-0.690961444	0.299069400	C	-2.067355601	2.300190966	0.134768793				
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C	3.051255593	3.557273388	1.584308091	C	-2.365425748	3.242183207	-0.932835428				
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H	4.097634616	3.244735871	3.452898023	H	-1.550393655	3.956807668	-1.082683628				
C	4.052566028	5.325222305	2.911298328	H	-2.539715806	2.710636918	-1.874359011				
H	4.604929668	5.635505874	3.793111620	H	-3.273640691	3.801391003	-0.681624290				
C	3.638602540	6.274177883	1.974121368	C	2.965991559	3.173713620	2.220649391				
H	3.866723366	7.324792604	2.125735883	C	3.835129312	3.330920285	3.313967723				
C	2.930479756	5.866966136	0.840180668	H	4.299797775	2.464419018	3.773054417				
H	2.606151209	6.599933167	0.107496659	C	4.105192009	4.603352328	3.814548347				
C	2.630008472	4.518858052	0.647931301	H	4.779823627	4.716167302	4.658171512				
H	2.062186234	4.221210484	-0.226948254	C	3.512817749	5.727895499	3.234844141				
C	3.028878618	0.934729102	2.879766761	H	3.724062372	6.716841372	3.630306034				
C	4.273127866	0.341722728	3.144298448	C	2.652616988	5.580435743	2.145181128				
H	5.055354097	0.350991628	2.392553783	H	2.195555503	6.453219356	1.688534442				
C	4.507500165	-0.261880030	4.380037394	C	2.380807259	4.310470424	1.636675421				
H	5.472041187	-0.718942067	4.579496613	H	1.726297692	4.210904143	0.776364922				
C	3.509578756	-0.277321809	5.356250797	C	2.879406439	0.356733104	2.904032831				
H	3.696812885	-0.750027718	6.315673288	C	3.736463886	-0.750045535	2.826422747				

H	4.306910443	-0.942908781	1.924543364	H	4.886451994	0.954913717	0.371667425
C	3.879798183	-1.599105523	3.925434391	C	6.923728191	0.362240526	0.028072764
H	4.549236346	-2.451565821	3.859713822	H	7.335070069	1.252833782	0.493868565
C	3.181290733	-1.346819075	5.106726080	C	7.774967157	-0.611484607	-0.497659090
H	3.304044329	-2.004664610	5.961936249	H	8.851307125	-0.480401567	-0.441626255
C	2.330157399	-0.240787096	5.191739502	C	7.240562706	-1.758368972	-1.091518379
H	1.791118102	-0.035603216	6.112107146	H	7.900706033	-2.519942348	-1.496039021
C	2.171399985	0.602805126	4.094496001	C	5.859709459	-1.932740204	-1.165731593
H	1.511002862	1.462631757	4.167998848	H	5.453600843	-2.830451904	-1.621920221
C	3.943911206	1.205664289	0.286341511	C	2.845813633	-2.925051201	-0.658331209
C	4.951557494	2.156675445	0.059911029	C	2.675704758	-3.480871526	0.621038088
H	4.972281147	3.081431789	0.627003710	H	2.737459359	-2.847815016	1.504863670
C	5.934804658	1.917313267	-0.901687440	C	2.447494280	-4.847440475	0.772612344
H	6.709824568	2.659330937	-1.071617071	H	2.319949766	-5.268117567	1.765577868
C	5.923568845	0.733425156	-1.640103883	C	2.384600827	-5.671695494	-0.353271726
H	6.689039885	0.551660901	-2.388585240	H	2.203586816	-6.736041111	-0.237084137
C	4.924037293	-0.218180145	-1.416796513	C	2.556266684	-5.127912032	-1.627878416
H	4.909680352	-1.140394986	-1.990576562	H	2.512369871	-5.768923940	-2.503431687
C	3.935127483	0.015883387	-0.463909476	C	2.788225472	-3.760936191	-1.784452614
H	3.151565723	-0.717798536	-0.316568314	H	2.920379630	-3.348010968	-2.779427266
O	-3.147328669	0.094674678	2.487360798	C	2.721536909	-0.607305350	-2.450931122
O	-0.875951835	0.184107539	2.623862210	C	3.518432068	0.299574536	-3.165370331
C	-0.890816662	-0.899854603	3.593650237	H	4.484320724	0.603158404	-2.772473295
H	0.152113228	-1.159867056	3.753469834	C	3.080385026	0.805515988	-4.391789735
H	-1.354244852	-0.555769911	4.520787857	H	3.707504104	1.503165110	-4.938412090
H	-1.457171088	-1.741578002	3.191405810	C	1.850911437	0.408329030	-4.919474473
=====	=====	=====	H	1.515633129	0.798727637	-5.875234666	
20A-TS1	=====	=====	C	1.056832369	-0.503120146	-4.216839707	
=====	=====	=====	H	0.106942190	-0.830435283	-4.630100350	
C	0.163677715	0.112595736	-0.120738196	C	1.481636200	-0.999383737	-2.985084308
C	-0.314576304	0.443682054	1.864561668	H	0.858520876	-1.709667798	-2.449601828
=====	=====	=====	=====	=====	=====	=====	
20A-TS2	=====	=====	=====	=====	=====	=====	
C	-0.161487218	-0.066312725	-0.040574695	C	0.015214855	0.046617195	2.225481198
C	0.906809359	2.449003929	-0.372061511	Rh	1.823487450	0.040044079	1.065464314
C	0.783780057	3.325453814	-1.645506736	P	4.113534419	0.412300465	1.359223506
C	-0.839750879	1.732160673	-1.915677266	C	2.116020476	-1.776149014	0.348544050
O	-0.562107624	3.119557769	-2.071898681	C	1.055506459	-2.244390776	-0.318721512
H	2.813472524	2.465858056	0.748892166	C	-0.271936149	-1.526665215	-0.351705939
H	2.891393112	1.733238600	-0.895350481	C	-0.749724080	-1.925674565	-1.775269365
H	-0.362085417	-0.796654519	-0.405890826	C	0.959383434	-3.400864779	-1.304421770
H	-0.547383741	1.158103525	-2.810821694	O	-0.341708999	-3.283643801	-1.878259417
H	-1.915600623	1.598158222	-1.755137868	H	-1.098338835	0.435410911	0.161962453
H	0.923737858	4.392730885	-1.465781044	H	0.443606866	0.508912272	-0.756899226
H	1.501383603	2.985535568	-2.410645571	H	3.075040984	-2.279824167	0.436727596
H	0.465594152	2.984489417	0.480861288	H	1.743830853	-3.320118328	-2.072713185
C	0.746938892	0.893276936	2.400374621	H	1.042051263	-4.383909283	-0.828600224
C	-1.699725655	-0.051145754	1.957637671	H	-1.833097976	-1.880427200	-1.899052142
C	1.305412626	1.538810655	3.595516194	H	-0.266947604	-1.293430986	-2.539231106
H	-2.366063263	0.503083399	1.291001751	H	-0.959596328	-1.994136617	0.364233192
H	-1.764427954	-1.115217694	1.709361573	C	1.111745780	-0.083928435	2.909123615
H	-2.028480472	0.087300538	2.993930089	C	1.668039974	-0.214043834	4.269567290
O	0.694128346	2.267129254	4.340487616	C	-1.426022853	0.060388326	2.570119056
O	2.613830810	1.221059933	3.712058543	H	2.020887091	-1.236032149	4.441965094
C	3.293255226	1.791017729	4.858140542	H	2.514189386	0.464505944	4.412029291
H	4.317050179	1.424634391	4.799057872	H	0.883309002	0.016882527	4.997188067
H	3.264672349	2.881968854	4.808258908	C	4.835104763	1.059350125	-0.188470129
H	2.815414197	1.459506071	5.782492927	C	5.645755319	2.203866908	-0.212632724
C	4.997686877	-0.955035066	-0.643644057	H	5.846999124	2.752216642	0.702087638

C	6.198253570	2.637964268	-1.418455003	H	0.935712691	0.778020048	4.538220962
H	6.827030880	3.523217827	-1.432980520	H	2.180758432	-0.457408941	4.217001447
C	5.947050409	1.937903064	-2.599792790	O	-2.307169371	-0.769325409	1.400672893
H	6.379184793	2.280124644	-3.535381512	O	-1.984754409	0.825525178	2.985156853
C	5.139996954	0.797369565	-2.579947007	C	-3.397193959	0.775966959	3.315833596
H	4.944949446	0.251109287	-3.497965177	H	-3.533238922	1.520433414	4.098401303
C	4.582357031	0.359152162	-1.380932383	H	-3.996633737	1.019283873	2.435971966
H	3.957301183	-0.530243508	-1.3699931020	H	-3.663812350	-0.221002107	3.673596610
C	4.300656818	1.724293076	2.612262417	C	2.737063754	-4.314864610	-0.173046412
C	3.545419453	2.900138237	2.454103095	C	3.893937791	-3.899099959	0.512301108
H	2.918411928	3.033083396	1.574918495	H	4.082246251	-2.839151851	0.675223844
C	3.611976362	3.908994968	3.412149001	C	4.819276488	-4.835497387	0.970429047
H	3.031852087	4.817497955	3.281186971	H	5.712506356	-4.504270998	1.491611446
C	4.426112912	3.750222519	4.537584150	C	4.590424352	-6.197056410	0.761619380
H	4.476372911	4.536131103	5.285191676	H	5.306538404	-6.928953005	1.122653664
C	5.177041959	2.584997281	4.698848205	C	3.438209506	-6.617204647	0.094376083
H	5.813669662	2.463369068	5.570143351	H	3.257096586	-7.676271962	-0.062354556
C	5.117763183	1.570604472	3.740674591	C	2.512294153	-5.683884915	-0.372937140
H	5.706002289	0.667810826	3.870808959	H	1.616451743	-6.023104721	-0.882193864
C	5.181118800	-0.968997164	1.876321773	C	-0.016840279	-3.792816758	-1.146259278
C	6.543675573	-0.990133471	1.538756111	C	-1.138315453	-3.577044295	-0.330274343
H	6.965100877	-0.204444928	0.918970598	H	-1.079970924	-2.930815485	0.541592453
C	7.358057550	-2.023908607	1.999150514	C	-2.362481514	-4.166018146	-0.650081400
H	8.411411714	-2.037029009	1.735932067	H	-3.225287872	-3.982193439	-0.017443592
C	6.821724262	-3.040248813	2.793296806	C	-2.476104191	-4.973959288	-1.782250251
H	7.459304939	-3.844567613	3.147929682	H	-3.429032392	-5.431313139	-2.030527366
C	5.465485564	-3.027589151	3.125903834	C	-1.365573236	-5.184184968	-2.605658299
H	5.045869671	-3.821620272	3.736326353	H	-1.454381249	-5.803461130	-3.493220484
C	4.645832485	-1.9971170350	2.667403368	C	-0.142340857	-4.592849976	-2.296235512
H	3.588310151	-1.995419401	2.911234381	H	0.710741440	-4.741934721	-2.952074021
O	-2.345737205	-0.240641386	1.838017517	C	2.214694436	-2.342870085	-2.295414312
O	-1.559455845	0.435578976	3.852821633	C	1.328437468	-1.661998509	-3.147992420
C	-2.919616572	0.448141012	4.354825225	H	0.263711656	-1.656078028	-2.933888762
H	-2.841928266	0.795700767	5.383662375	C	1.806493205	-1.006941524	-4.282364837
H	-3.534440031	1.125688482	3.758926324	H	1.110734118	-0.496255901	-4.941892560
H	-3.344945630	-0.556985897	4.312925308	C	3.173772521	-1.009870044	-4.574061479
=====				H	3.544289370	-0.495403560	-5.455275000
20B-TS1				C	4.057332781	-1.689931127	-3.734641486
=====				H	5.118824143	-1.710719453	-3.963055788
C	0.116776787	-0.124578693	-0.090506964	C	3.583492703	-2.355209752	-2.600858272
C	-0.122415748	0.099439719	1.838285749	H	4.282048386	-2.889372268	-1.964026309
C	2.864260636	-0.103247398	0.253221752	=====			
C	0.947601927	0.044161018	2.547811133	20B-TS2			
Rh	1.369746783	-1.336904461	1.002445866	=====			
P	1.574207854	-3.014365944	-0.716313398	C	-0.213899808	-0.127039776	0.033517850
C	0.823840122	0.873575279	-0.667017764	C	-0.017610923	0.001137792	2.323890093
C	2.194994403	1.196593993	-0.155647512	Rh	1.824371013	-0.015037807	1.052670851
C	2.776365847	1.977179021	-1.365080490	P	4.131151951	0.281011567	1.361513387
C	0.558933686	1.719370732	-1.888066057	C	2.085182540	-1.831334040	0.333111604
O	1.643872026	2.642344335	-1.918594890	C	1.007529453	-2.300173694	-0.302597749
H	3.571999192	-0.011274356	1.083723154	C	-0.325733125	-1.589127465	-0.290533565
H	3.305553172	-0.621485934	-0.598513883	C	-0.840172874	-1.983282265	-1.701856864
H	-0.825627355	-0.522016590	-0.454514119	C	0.883515547	-3.458353019	-1.282771873
H	0.544772800	1.087640053	-2.791166629	O	-0.432751886	-3.338463875	-1.825145819
H	-0.382822831	2.277143824	-1.839083570	H	-1.147871939	0.381139964	0.245935378
H	3.515086263	2.733032430	-1.092498487	H	0.337931469	0.448827122	-0.723679263
H	3.221978983	1.274897448	-2.088534690	H	3.044994925	-2.335689714	0.403453172
H	2.095139290	1.868972031	0.710708905	H	1.647719977	-3.383850770	-2.070993216
C	1.649567706	0.401862047	3.797252380	H	0.973459237	-4.440249036	-0.806030474
C	-1.593225994	-0.005566642	2.017761312	H	-1.926637933	-1.940744164	-1.802463921
H	2.390256018	1.186844217	3.604802585	H	-0.378432800	-1.342255435	-2.471350647

H	-0.977007757	-2.090736037	0.438904929	H	1.491160165	-1.788968579	-1.757110371
C	1.136779241	-0.143586176	2.884832565	H	1.256980410	1.640318631	-3.822205965
C	-1.459417108	0.100074417	2.635807188	H	2.487572077	1.719369409	-2.532902236
C	1.787135737	-0.249658216	4.206839406	H	-0.535942140	1.572857438	-2.190815449
H	-1.887393842	1.038916631	2.269653668	C	-1.684627983	0.136238443	0.249561777
H	-2.026188275	-0.727764839	2.195811458	C	-1.397807599	1.326416294	0.830417926
H	-1.571382311	0.064533133	3.724374323	C	-3.016771534	-0.553958338	0.145254414
C	4.442172796	1.389112767	2.773762067	C	-2.361211979	2.323372268	1.355398386
C	5.373091712	1.072413468	3.770611228	P	1.049076564	2.930410707	2.555131970
H	5.951826320	0.157335159	3.706444400	H	-3.800253118	0.024642471	0.633138740
C	5.546749489	1.931929311	4.856300988	H	-3.279400806	-0.721637144	-0.905811143
H	6.272780094	1.684321463	5.625009255	H	-2.959513575	-1.540358386	0.622422849
C	4.792378469	3.102207130	4.956190669	C	0.617197343	2.356737868	4.228665550
H	4.933088485	3.768815883	5.802013801	C	1.530399272	2.499618761	5.287016669
C	3.859776617	3.420786182	3.964289556	H	2.512554110	2.926569551	5.108728153
H	3.275850460	4.333571488	4.035714114	C	1.174831310	2.090475659	6.570625373
C	3.683154989	2.567452800	2.877274591	H	1.883083595	2.202417767	7.386042255
H	2.965828035	2.827311149	2.101571670	C	-0.087025527	1.539198737	6.806719268
C	5.232419178	-1.159448547	1.536929243	H	-0.359474337	1.220357273	7.808306261
C	4.855029295	-2.221751233	2.375683357	C	-0.997220403	1.395794872	5.757908405
H	3.913626578	-2.178795275	2.911310439	H	-1.978037169	0.967189407	5.939574344
C	5.710470414	-3.310000420	2.542267024	C	-0.649624505	1.799781915	4.469283094
H	5.418362019	-4.126875319	3.195441122	H	-1.369240628	1.681796211	3.665784766
C	6.937229396	-3.349637636	1.875583666	C	2.860301571	2.746091414	2.392703359
H	7.599522204	-4.200275496	2.007401499	C	3.695330178	3.770383936	1.922346491
C	7.313336098	-2.296110677	1.040404866	H	3.303226797	4.770206084	1.769170026
H	8.267196300	-2.323929774	0.522490211	C	5.041456939	3.508864588	1.668093129
C	6.465885967	-1.202322455	0.867387300	H	5.685697372	4.309486666	1.317166556
H	6.765938575	-0.387407719	0.216722370	C	5.563945205	2.228528171	1.868309821
C	4.702571604	1.158532467	-0.137419720	H	6.612596505	2.032749850	1.666135805
C	5.439719894	2.349489194	-0.081735923	C	4.741239726	1.204415946	2.341816163
H	5.691611718	2.792897651	0.876043231	H	5.147709060	0.213029795	2.517631951
C	5.858625610	2.963345518	-1.263180256	C	3.395210124	1.457943226	2.605535133
H	6.432863523	3.883718822	-1.215147321	H	2.770525565	0.667269845	3.015656399
C	5.547766719	2.396570581	-2.500211809	C	0.639834991	4.700667417	2.467603086
H	5.877300699	2.878072482	-3.415897444	C	0.162366188	5.375854179	3.600781055
C	4.815937111	1.207541709	-2.561209847	H	0.023148961	4.845753549	4.536831513
H	4.578901242	0.760997641	-3.522258663	C	-0.135257699	6.737324057	3.528246257
C	4.392151150	0.590568816	-1.386458418	H	-0.501776322	7.253476155	4.410342351
H	3.834286431	-0.341868100	-1.438102414	C	0.037735559	7.432023178	2.330752879
O	2.846388615	-0.806958628	4.402413987	H	-0.193601644	8.491639965	2.278202541
O	1.061151184	0.379535935	5.138026958	C	0.508835086	6.762433856	1.197429915
C	1.654601317	0.412082203	6.461482774	H	0.644317489	7.299157105	0.263266745
H	0.949528408	0.966052985	7.078994675	C	0.804545885	5.402601223	1.261662961
H	1.792585410	-0.603457319	6.839668589	H	1.168553679	4.896273287	0.376025485
H	2.621022181	0.919776654	6.417639362	O	-1.918042143	3.581660191	1.185211869
=====				O	-3.413213091	2.036916784	1.894600154
21A				C	-2.771740393	4.626025077	1.704885831
=====				H	-3.725809428	4.633758410	1.172948700
Rh	0.559018909	1.354067581	0.975842941	H	-2.221497616	5.551400583	1.542831379
C	-0.479022585	-0.539612224	-0.290857704	H	-2.955636545	4.467167842	2.769851645
=====				=====			
21B				=====			
Rh	0.429295715	1.322757464	1.066960889	Rh	0.429295715	1.322757464	1.066960889
C	-0.980007080	-0.325519325	-0.163502171	C	-0.980007080	-0.325519325	-0.163502171
C	0.932478680	2.307623000	-0.659846652	C	0.932478680	2.307623000	-0.659846652
C	0.115599090	-0.034265347	-0.927773874	C	0.115599090	-0.034265347	-0.927773874
C	0.445989486	1.283744372	-1.669885620	C	0.445989486	1.283744372	-1.669885620
C	1.514815741	0.790870053	-2.688996812	C	1.514815741	0.790870053	-2.688996812
C	1.085000797	-1.072144381	-1.461489173	C	1.085000797	-1.072144381	-1.461489173

O	1.360058624	-0.619653876	-2.777534052	C	-0.095595233	0.120854759	0.653693154
H	0.439860131	3.279071056	-0.706187800	C	0.351971817	-0.362083138	-0.506870590
H	2.021599516	2.421749913	-0.621510782	C	0.975824271	0.356211888	-1.691566026
H	-1.152114586	-1.369286441	0.093939334	C	1.703313331	-0.820832033	-2.378082049
H	2.006348071	-1.109274740	-0.851363769	C	0.393817273	-1.859037674	-0.834264611
H	0.660504623	-2.078236746	-1.512179722	O	0.859309283	-1.944115808	-2.170961153
H	1.384013785	1.209990342	-3.688485448	C	0.071971617	1.427104459	4.248997330
H	2.524913445	1.045997870	-2.326884226	C	0.562461825	1.789846922	5.516813820
H	-0.461801281	1.633078770	-2.173617794	H	1.343877023	2.538687374	5.606658152
C	-1.983390395	0.656102127	0.314158923	C	0.044030036	1.191639200	6.661842482
C	-1.478495032	1.776056646	0.891769771	H	0.430950198	1.472445653	7.636672011
C	-3.441487644	0.340881911	0.213693198	C	-0.974844156	0.240335663	6.556973080
C	-2.148865899	3.032101956	1.321881997	H	-1.380698974	-0.219562478	7.452839460
H	-2.050807526	3.192827544	2.400323542	C	-1.475313596	-0.113151302	5.303872053
H	-1.680435386	3.895294115	0.836447866	H	-2.272565997	-0.845153709	5.220239928
H	-3.210650358	2.993199239	1.065187167	C	-0.953472211	0.475179879	4.150780317
P	1.199346474	2.881077839	2.568721108	H	-1.360285677	0.187985236	3.187193918
C	0.858291462	2.290527819	4.260686849	C	2.502397087	1.656147598	2.602756197
C	1.792691814	2.487499390	5.290197898	C	2.974911357	0.584121825	3.374114250
H	2.732437782	2.991377279	5.086053052	H	2.330650274	0.102000450	4.101412978
C	1.516085732	2.025880326	6.575750754	C	4.285869974	0.136148783	3.209874308
H	2.240988668	2.178192260	7.369615271	H	4.646966107	-0.694009516	3.809187414
C	0.313616609	1.365803197	6.841743504	C	5.129241286	0.752503689	2.285161841
H	0.105261840	1.003696551	7.844004941	H	6.149708518	0.402129081	2.163385846
C	-0.618603567	1.166809754	5.821660935	C	4.660318644	1.818387438	1.512285288
H	-1.552385507	0.652525074	6.027542136	H	5.312386056	2.296192933	0.787522692
C	-0.349106140	1.625168039	4.532433502	C	3.349727022	2.265151178	1.660647266
H	-1.079325926	1.465385469	3.743133613	H	2.983488575	3.075652454	1.038162164
C	3.012408918	2.815534423	2.370793175	C	0.824452091	4.010289254	3.249216125
C	3.817287107	3.946212415	2.180244886	C	1.987977302	4.792047493	3.267354283
H	3.381631195	4.939443128	2.195066179	H	2.952676735	4.356605778	3.035463044
C	5.190710286	3.794570191	1.978349958	C	1.909995731	6.143633389	3.607917516
H	5.811477929	4.673981308	1.836022152	H	2.814784883	6.743502239	3.623503632
C	5.766563492	2.523429924	1.963076647	C	0.681386351	6.719957792	3.932067916
H	6.834835560	2.413082837	1.803322649	H	0.627772810	7.772093235	4.194379084
C	4.970655392	1.391981091	2.162571877	C	-0.479358516	5.940425470	3.929779503
H	5.417444447	0.402349931	2.165313543	H	-1.434946655	6.382182856	4.195002547
C	3.600591283	1.535857751	2.367433480	C	-0.410460358	4.592852201	3.590317824
H	2.992919921	0.651674999	2.556915078	H	-1.314229404	3.988158603	3.605050740
C	0.667455193	4.617271929	2.463911503	H	-0.389910523	-0.554529386	1.462039595
C	-0.031923749	5.219250901	3.519806429	H	1.081905175	-2.364873111	-0.134695995
H	-0.213935070	4.670737806	4.438368296	H	-0.583082857	-2.348045495	-0.771091108
C	-0.497122576	6.528984334	3.390740920	H	1.835731240	-0.681366355	-3.453168493
H	-1.038106784	6.988333087	4.212378244	H	2.694090071	-0.974695007	-1.914788813
C	-0.267454892	7.245535177	2.215549272	H	0.180522807	0.702944843	-2.365866846
H	-0.631174305	8.263774044	2.119174626	C	0.380460368	3.194719578	-0.207029317
C	0.437274175	6.652403537	1.163674853	C	1.264261963	2.879409332	-1.171747209
H	0.627220363	7.209791370	0.251388646	C	1.917429319	1.515804280	-1.330854910
C	0.899547474	5.343324410	1.282011617	C	-0.319959876	4.490852156	0.093908601
H	1.454607579	4.896800020	0.463078931	C	1.588804495	3.959343058	-2.168780381
O	-4.343969221	1.075796853	0.560822438	H	2.435366434	1.251265137	-0.403817643
O	-3.623879682	-0.887445149	-0.306312746	H	2.677251073	1.597811894	-2.109716768
C	-5.000312157	-1.312455726	-0.428701904	H	-1.161582437	4.350443256	0.799593265
H	-4.958778648	-2.310890303	-0.861879467	H	0.363777570	5.204668793	0.560911269
H	-5.478546395	-1.333210403	0.553558181	H	-0.723936735	4.938636581	-0.817355159
H	-5.549861347	-0.628141700	-1.079100636	O	1.396186333	5.149496223	-1.999784231
=====				O	2.112248377	3.446090932	-3.298139295
23A				C	2.434547452	4.407763376	-4.325963912
=====				H	2.838588527	3.824409139	-5.152499802
Rh	-0.568687356	1.994153272	1.000605922	H	1.535841328	4.947549824	-4.633682245
P	0.795487008	2.247131181	2.787598270	H	3.171826653	5.124959943	-3.957491905

=====
23B
=====

Rh -0.328000000 2.229100000 0.983800000  
P 0.996700000 2.280400000 2.812800000  
C -0.220700000 0.304800000 0.603700000  
C 0.227300000 -0.307100000 -0.496600000  
C 1.184100000 0.184600000 -1.565800000  
C 1.752000000 -1.160400000 -2.061500000  
C -0.107500000 -1.754800000 -0.864100000  
O 0.643000000 -2.046200000 -2.038100000  
C 0.061100000 1.378200000 4.095700000  
C -0.476600000 2.047200000 5.207600000  
H -0.319200000 3.111300000 5.340400000  
C -1.207300000 1.338000000 6.160200000  
H -1.616800000 1.862200000 7.018100000  
C -1.405300000 -0.035700000 6.017200000  
H -1.974800000 -0.582400000 6.762400000  
C -0.867000000 -0.708900000 4.917000000  
H -1.011600000 -1.779100000 4.806900000  
C -0.143200000 -0.008200000 3.956300000  
H 0.276800000 -0.539100000 3.109000000  
C 2.670300000 1.571700000 2.698100000  
C 3.089000000 0.503700000 3.504600000  
H 2.409900000 0.045400000 4.213600000  
C 4.399300000 0.031700000 3.409800000  
H 4.714700000 -0.797500000 4.035500000  
C 5.300800000 0.626100000 2.527400000  
H 6.319300000 0.256500000 2.459700000  
C 4.894300000 1.705100000 1.737500000  
H 5.595600000 2.178900000 1.057400000  
C 3.586900000 2.175400000 1.818400000  
H 3.277400000 3.014400000 1.204200000  
C 1.227500000 3.990000000 3.419000000  
C 2.474000000 4.433200000 3.892600000  
H 3.332800000 3.772600000 3.889700000  
C 2.615200000 5.732600000 4.379100000  
H 3.582800000 6.065200000 4.742100000  
C 1.520400000 6.597100000 4.404900000  
H 1.635700000 7.608400000 4.783100000  
C 0.274200000 6.158000000 3.950100000  
H -0.583400000 6.823200000 3.976600000  
C 0.125300000 4.863000000 3.458200000  
H -0.845200000 4.538800000 3.101500000  
H -0.857400000 -0.252300000 1.302200000  
H 0.171500000 -2.425400000 -0.034800000  
H -1.168700000 -1.909200000 -1.086300000  
H 2.139500000 -1.121400000 -3.082600000  
H 2.559100000 -1.501900000 -1.389200000  
H 0.597800000 0.617200000 -2.390000000  
C 0.922700000 3.125600000 -0.281500000  
C 1.841100000 2.630900000 -1.135500000  
C 2.262300000 1.173700000 -1.098500000  
C 0.392900000 4.480300000 -0.080000000  
C 2.509000000 3.457600000 -2.207700000  
H 2.560400000 0.898300000 -0.082900000  
H 3.145800000 1.059100000 -1.736300000  
H 3.590900000 3.486400000 -2.022600000  
H 2.374300000 2.962700000 -3.177400000  
H 2.137800000 4.477400000 -2.272700000  
O 0.988200000 5.532300000 -0.613000000

O -0.599500000 4.568100000 0.670700000  
C 0.429900000 6.832800000 -0.277900000  
H 0.459300000 6.977500000 0.803900000  
H -0.600300000 6.900400000 -0.632200000  
H 1.066300000 7.553200000 -0.788500000

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21A-TS
=====

C -0.336425994 0.229028048 0.102433452  
C -0.008296671 -0.015671624 2.117656258  
Rh 1.694568737 0.009382272 1.056100558  
C 0.847150749 -2.143226167 1.544158942  
C 0.830780393 -1.958704339 0.175442417  
C -0.212632599 -1.125376281 -0.572560221  
C 0.402155985 -1.134366875 -1.987460461  
C 1.611403038 -2.742220816 -0.864913082  
O 1.008799222 -2.414431681 -2.112449263  
H -1.337350402 0.470634604 0.445179174  
H 0.036390140 1.090074967 -0.452954021  
H 1.445777271 -2.955431601 1.957396959  
H 2.676128110 -2.462327030 -0.849468799  
H 1.538731647 -3.825902591 -0.717825525  
H -0.333984269 -1.028529476 -2.786993861  
H 1.151675623 -0.328522732 -2.077413181  
H -1.165113375 -1.671446670 -0.582207301  
C 0.068949975 -1.335760627 2.500495036  
C -0.404692449 -1.957060848 3.783130808  
C -0.593824005 1.117124936 2.877618669  
P 2.577265143 2.092250015 1.145485759  
H -0.775997160 -1.205277824 4.476416777  
H -1.203044302 -2.680309256 3.574553896  
H 0.414186909 -2.515504230 4.252206852  
C 3.200614637 2.790208817 2.697622137  
C 4.330829129 3.626244634 2.697527307  
H 4.847601567 3.848660681 1.767774844  
C 4.786058132 4.175641351 3.893999220  
H 5.660312837 4.819598924 3.893882428  
C 4.118610086 3.897673817 5.090656636  
H 4.475052063 4.330358279 6.020647845  
C 3.000069009 3.062491791 5.094959455  
H 2.485754050 2.842219144 6.025429694  
C 2.540418670 2.503131914 3.902120470  
H 1.679594267 1.843002287 3.915282589  
C 3.888997582 1.145161787 0.301525312  
C 4.291335884 1.303902278 -1.040118331  
H 4.027909066 2.206568168 -1.581305995  
C 5.031632535 0.308237041 -1.664504563  
H 5.353013453 0.445587140 -2.692698940  
C 5.366794844 -0.874180130 -0.982922293  
H 5.938284100 -1.645647956 -1.489359831  
C 4.998086118 -1.038526509 0.346610535  
H 5.294681633 -1.927732817 0.894580431  
C 4.261296774 -0.035522679 1.003141912  
H 4.104979583 -0.105213295 2.079247050  
C 1.981636493 3.451848828 0.104556320  
C 1.870622444 4.756885860 0.609476440  
H 2.195135261 4.983106740 1.619479727  
C 1.343503489 5.772136441 -0.189245359  
H 1.265222956 6.779861453 0.207393603  
C 0.922544690 5.497701244 -1.491095619  
H 0.514733067 6.291702381 -2.109317077

C	1.024576788	4.199993845	-1.998239308	H	1.894153494	5.180614418	2.157290763
H	0.697695217	3.982694182	-3.010595804	C	0.716821624	6.100135957	0.609134282
C	1.543281763	3.179301594	-1.204731761	H	0.724793611	7.074886644	1.086976057
H	1.616014685	2.173534973	-1.607468074	C	0.050823361	5.920949596	-0.604119404
O	-0.595152054	2.253538151	2.149130142	H	-0.461064088	6.756875268	-1.071137946
O	-0.980386549	1.058408137	4.029246218	C	0.040213242	4.665570180	-1.217756019
C	-1.057563273	3.436960163	2.834863436	H	-0.475778343	4.523612140	-2.162550701
H	-2.086893380	3.305900372	3.176128889	C	0.690481192	3.591186495	-0.615976431
H	-0.986869861	4.238455066	2.100427238	H	0.683274615	2.619860442	-1.101185608
H	-0.417332969	3.645297526	3.696102185	O	-0.579597127	-2.099663259	4.528238713
=====	=====	=====	O	0.632978872	-3.672107699	3.432062701	
21B-TS	=====	=====	C	0.478226648	-4.550496205	4.568999395	
=====	=====	=====	H	0.997407539	-5.469453973	4.300073173	
C	-0.696811262	0.227366114	0.437428350	H	0.921479596	-4.099421013	5.460122394
C	-0.045150363	-0.288298875	2.296642363	H	-0.580885680	-4.742449173	4.755989491
Rh	1.465300605	0.194299605	1.061159955	=====	=====	=====	
C	1.021072261	-2.120262963	1.181630661	23A-TS	=====	=====	
C	0.778616386	-1.681961891	-0.105647540	C	-0.194387178	-0.028394008	0.070470186
C	-0.484312516	-0.925415805	-0.528999065	C	0.086515421	-0.016852101	2.094489241
C	-0.104134697	-0.557947146	-1.977810248	Rh	1.713165760	0.046949293	0.819096358
C	1.502587546	-2.095842244	-1.373452364	P	2.416395363	2.139312613	0.844604388
O	0.666472345	-1.658676496	-2.441786007	C	-0.282674475	-1.291982810	-0.358425963
H	-1.652274308	0.195400574	0.955877848	C	0.538176185	-2.352059170	0.368269966
H	-0.570048651	1.234941350	0.038982288	C	0.345346594	-3.587407422	-0.557858860
H	1.781605301	-2.877943879	1.356768021	C	-1.018008754	-1.987735729	-1.479048776
H	2.499730289	-1.631978461	-1.431978482	O	-0.164356830	-3.086184062	-1.787873908
H	1.624062967	-3.182979486	-1.450373801	C	3.970957965	1.298779176	0.398943889
H	-0.963288440	-0.441860318	-2.641870917	C	5.027855849	1.110395349	1.314082060
H	0.488699272	0.373687347	-1.988477199	H	5.004126376	1.605958793	2.279188090
H	-1.333189088	-1.621425855	-0.536207500	C	6.108495388	0.306267419	0.967377035
C	0.266282321	-1.631790603	2.342291364	H	6.929285933	0.179067861	1.666322349
C	0.045960688	-2.465738389	3.551446248	C	6.144167663	-0.333933414	-0.277542031
C	-0.770383275	0.528381007	3.316834022	H	6.992757890	-0.959203004	-0.538106573
H	-0.267794929	0.431593920	4.283720902	C	5.100710003	-0.165789768	-1.187563604
H	-0.812810496	1.579923600	3.023873995	H	5.134782522	-0.652675420	-2.157257832
H	-1.787261122	0.151430232	3.470120778	C	4.014604304	0.649747489	-0.861305907
P	2.171029740	2.340161403	1.383188035	H	3.232271963	0.827911423	-1.594037565
C	3.015805085	2.893387376	2.888235220	C	1.967349940	3.308554485	-0.463188464
C	4.223112694	3.608011819	2.809532558	C	2.951158976	3.873846517	-1.291017657
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H	3.111553264	2.824582187	-1.506514536	H	2.534858190	5.018781360	1.487319563
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H	4.953033671	1.801543116	2.465046291	C	2.279577854	-0.424171737	-1.348881841
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C	6.184173242	-0.395721194	0.172206406	H	-0.934253762	-0.252687626	-0.331120804
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H	5.232581569	-0.935538443	-1.685939099	H	4.030223487	-2.000493016	0.520904098
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H	3.310016522	0.588579837	-1.353466500	H	2.027265221	-0.200628268	-2.388610225
C	2.027945916	3.223529516	-0.483243379	H	2.674368248	0.488620469	-0.869531257
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H	4.098744182	3.396446332	-1.104772812	C	0.309263556	-1.218259459	2.335140408
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H	-0.098245532	3.274642786	-0.089235135	C	3.799800964	2.115817430	5.855214828
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 H 3.618061172 2.278946737 -2.637515938  
 H 3.816737128 0.909950764 -3.747209107  
 C -0.063355787 -0.218876742 5.862884182  
 H 0.623734538 0.334841537 6.498402934  
 H -1.038568560 -0.444550243 6.283656466

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## 26A

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Rh 0.738474246 1.134145459 -0.606878672  
 P -0.666078920 2.593605669 0.580975074  
 P -0.989881435 0.343029921 -2.038996891  
 C 2.297467521 -0.049632857 -1.844776233  
 C 1.987828626 -0.844321042 -0.959426690  
 C 2.458301415 2.452211093 -0.134667263  
 C 2.493018752 1.645628226 0.801421717  
 C 2.950058739 0.926308074 2.003123526  
 H 3.664154487 0.140385348 1.704178762  
 H 3.502702307 1.638044207 2.638129699  
 H 2.677415682 3.257630539 -0.807139803  
 C -0.376522577 -0.416887815 -3.605816661  
 C -2.056905596 -0.997489842 -1.344670385  
 C -2.218101774 1.550500952 -2.710424613  
 C 0.041768458 3.188262172 2.173680974  
 C -1.130441950 4.167676941 -0.265155020  
 C -2.284182760 1.904354582 1.149216745  
 H 2.744615795 0.425307566 -2.692368722  
 C 1.772607918 -1.932899909 -0.000855933  
 O 1.854172493 0.368987149 2.708194328  
 C 2.254026486 -0.171212088 3.980362531  
 C 1.055152355 -0.765852458 4.651625315  
 H 3.030123672 -0.937696404 3.816328046  
 H 2.695034713 0.621493625 4.602693109  
 H 0.541979674 -1.551330562 4.098166583  
 H 0.865394442 -2.497417170 -0.241281174  
 H 2.620040198 -2.626892716 -0.035652509  
 H 1.672974384 -1.542413392 1.016340420  
 H 0.161984943 0.331557639 -4.193572085  
 H 0.306899960 -1.238864212 -3.388068554  
 H -1.217788062 -0.791959043 -4.196645724  
 H -2.570695196 -0.653521649 -0.444670365  
 H -2.802025987 -1.318294909 -2.079610065  
 H -1.437143524 -1.856695233 -1.075935339  
 H -2.818856155 1.998444781 -1.916805952  
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 H -2.100490230 1.012192048 1.754317570  
 H -2.814312815 2.640931548 1.761519965  
 H -1.670869448 3.967297159 -1.192076326  
 H -1.757213281 4.785122950 0.385648888  
 H -0.223462557 4.725630541 -0.512492480  
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 H -0.706568996 3.774555428 2.715860912  
 C 0.632165177 -0.410860491 5.864859760  
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 H -0.219098067 -0.893545631 6.334972292

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26-TS

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C -0.433131020 -0.344030271 0.225679396  
 C -0.069105749 0.383057919 2.189530055  
 Rh 1.703719671 -0.261754054 1.070135404  
 P 2.769723117 -1.241190708 3.008475733  
 P 3.636862792 0.399703870 -0.159165978  
 C 0.470618459 0.097503500 -0.569449169  
 C 0.906010527 1.222677750 2.216625234  
 C 1.356231506 2.588829907 2.552259847  
 H 1.159431938 3.249931119 1.688929673  
 H 0.729146370 2.953200550 3.384549441  
 H -0.960730154 0.098984401 2.725790556  
 C 3.859198122 -0.478447130 -1.768618887  
 C 3.528337297 2.175711740 -0.638116720  
 C 5.329913374 0.307988991 0.569713155  
 C 1.567773151 -1.669418750 4.340893471

C	3.518661154	-2.879348707	2.594122335	H	5.563781889	-0.613008489	1.069315890
C	4.099883943	-0.371169491	3.942452047	H	6.080509458	0.781855156	0.101478740
C	-1.753018726	-0.996518143	0.416318935	H	4.903586010	-0.343445233	3.513827549
H	0.574566259	0.320718771	-1.620442030	H	3.590597634	0.599940485	4.226840136
O	2.727954563	2.610052902	2.899260313	H	4.098100596	-0.946498908	4.976887429
C	3.125403628	3.881330592	3.444828268	H	4.408988059	-2.676022387	1.849736660
C	4.594327449	3.849585584	3.733637912	H	3.950865303	-3.387762531	3.412421434
H	2.890981379	4.674691068	2.715683490	H	2.868891825	-3.539837478	2.009075148
H	2.553913651	4.090146460	4.361208648	H	0.960700180	-1.006018791	4.647462339
H	5.245875115	3.683008594	2.876513738	H	0.727708252	-2.505806432	3.727440167
H	4.070776367	-1.536392558	-1.589282617	H	1.952730106	-2.435265427	5.018944482
H	2.946865621	-0.409404021	-2.365695261	C	5.284874741	4.065691024	4.809862069
H	4.688439914	-0.044788397	-2.336241230	H	6.364293716	4.071070326	4.926869085
H	3.483770100	2.776750443	0.273386623	H	4.697705407	4.236340918	5.709141507
H	4.399751760	2.474678366	-1.229471409	H	0.828055503	1.353004221	-2.245400104
H	2.619659280	2.350221112	-1.218713846	H	0.856593754	-0.374280631	-2.600181914
H	5.374326420	0.931771077	1.465215913	H	-0.693136147	0.455605977	-2.398556616
H	5.580089228	-0.721255539	0.840166931	=====	=====	=====	=====
H	6.072360790	0.667859569	-0.149597568	27	=====	=====	=====
H	5.017195324	-0.342031815	3.351066705	=====	=====	=====	=====
H	3.788077161	0.656819800	4.141204132	C	0.971477542	2.331013137	-0.557011739
H	4.308202530	-0.888197966	4.884226393	C	2.321570324	1.777319862	-0.420386288
H	4.329654196	-2.753074289	1.871746558	C	-0.049249253	1.464063056	-0.412435802
H	3.920247664	-3.364360026	3.489485679	Rh	0.542709189	-0.396969607	0.019844612
H	2.762116045	-3.532678119	2.150103568	C	2.346360131	0.455116401	-0.144381221
H	1.111670824	-0.757063355	4.732463770	C	-1.515931098	1.696569980	-0.556002840
H	0.776644270	-2.306341575	3.936446175	H	0.805140012	3.387380208	-0.769623352
H	2.067439235	-2.196268537	5.159590186	C	3.552309978	2.635524071	-0.586022429
H	-1.670782011	-1.911937267	1.009233703	H	3.238569107	-0.160534933	-0.024168492
H	-2.478325723	-0.332739291	0.895426428	P	0.530770558	0.054721618	2.370782777
H	-2.136785603	-1.265902227	-0.573869259	P	0.596589334	-1.035797796	-2.286961093
C	5.116771593	4.043984207	4.944758481	H	-1.727802768	2.780022403	-0.539754653
H	6.190054640	4.047884584	5.108957863	H	-1.878595306	1.313994842	-1.527207393
H	4.491411622	4.223382999	5.816191852	O	-2.198324711	1.024223872	0.499076178
=====	=====	=====	C	-3.627451762	1.107252080	0.373244916	
26A-TS	=====	=====	C	-4.264379582	0.519074239	1.594564748	
=====	=====	=====	H	-3.915160411	2.165488906	0.265405640	
C	-0.382136388	-0.380417982	0.365818148	H	3.957533621	0.576862573	-0.533419426
C	-0.019259970	0.429886598	2.245951587	C	-5.075184958	-0.539818795	1.575510925
Rh	1.670723566	-0.245371362	1.052258713	H	-4.053549336	1.030460920	2.533007037
P	2.718745105	-1.301687648	2.980061204	H	-5.316493685	-1.059635709	0.650808071
P	3.666330549	0.419414402	-0.099639512	H	-5.543937783	-0.915825301	2.479512667
C	0.361446125	0.081276376	-0.576541992	C	2.062880935	-0.495231206	3.234399355
C	0.962711027	1.260328265	2.243979780	C	0.295530324	1.791381458	2.912174726
C	1.431873103	2.626857708	2.549540434	C	-0.814815843	-0.878458350	3.216799243
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H	0.824221135	3.006660959	3.389189937	C	-0.997687277	-1.723019570	-2.911277520
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C	4.037593233	-0.517446799	-1.648039300	H	-1.778360003	-0.596097446	2.786468024
C	3.571144721	2.174688237	-0.653407963	H	-0.668737102	-1.953585011	3.077463399
C	5.296765382	0.402244706	0.764675668	H	-0.816713903	-0.662660925	4.290064946
C	1.471267474	-1.869845115	4.215161581	H	-0.678313002	2.137638173	2.560884664
C	3.570801059	-2.876182295	2.522375583	H	0.341948662	1.857879940	4.003112791
C	3.945736127	-0.414824188	4.032781210	H	1.072155452	2.421872946	2.474573106
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O	2.810206309	2.635904074	2.870966024	H	1.972663874	-0.345544114	4.314867098
C	3.230560348	3.908912665	3.396733548	H	-1.779583605	-0.961049311	-2.855720006
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H	2.697971975	4.118545207	4.335939123	H	0.313599607	1.051192746	-3.509775580
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H	3.194745407	-0.450081646	-2.339128663	H	2.811768079	-2.054910940	-2.330302008
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H	4.465341741	2.453682871	-1.219616820	H	4.467754395	2.051555348	-0.458428275
H	2.688679398	2.331360465	-1.276804842	H	3.580948773	3.099062669	-1.579532594
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C 3.682810925 -0.537356376 -0.073172140  
P 0.629270695 0.131818021 2.375153481  
P 0.489636840 -1.008131436 -2.278377593  
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8A-TS1'  
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P 1.750665899 -3.117474417 2.586998533  
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C 2.181460245 1.214498643 0.073040465  
C 2.992855782 1.905826979 -1.048805164  
C 0.791240272 2.098396576 -1.728954991  
O 0.052984480 2.772999237 -1.679415853

H 3.191565986 -0.100374229 1.493726307  
H 3.220462493 -0.687167506 -0.208564952  
H -0.899573390 -0.137227184 -0.768441974  
H 0.638626053 1.604627150 -2.699371409  
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C	5.167391934	-4.514222532	4.434934490	C	1.847681233	-1.574274165	-3.088660309
C	5.723239333	-2.388105587	3.432802809	C	-0.564772026	-1.500373933	-2.989550933
C	6.101218411	-3.508847202	4.172804099	C	1.825650347	-0.833363965	-4.269439834
H	3.151275407	-5.196625007	4.153357309	C	-0.583784769	-0.757425015	-4.171406226
H	4.129235280	-1.391735486	2.400311341	C	0.608178707	-0.421528877	-4.813966009
H	5.454904882	-5.389571204	5.010022033	H	2.805970810	-1.891040263	-2.688324920
H	6.443891508	-1.603046804	3.221900970	H	-1.501283113	-1.745410870	-2.500638757
H	7.118449094	-3.601217210	4.542137337	H	2.759099211	-0.578778131	-4.763006819
C	0.707476450	-2.914770521	4.095137129	H	-1.535175148	-0.439679489	-4.588152915
C	-0.665812644	-2.668765923	3.917237661	H	0.589677720	0.160116205	-5.730500952
C	1.215565533	-2.989123756	5.398379041	C	1.527339129	-4.424001415	-1.219988617
C	-1.512337196	-2.533024665	5.015413587	C	1.570708900	-5.357648318	-0.173760858
C	0.368698663	-2.827942454	4.696640578	C	2.029495263	-4.781186799	-2.477203348
C	-0.994655924	-2.605521649	6.309801494	C	2.142748549	-6.610668483	-0.368473540
H	-1.081613472	-2.581325677	2.916036572	C	2.598971749	-6.041523024	-2.669552388
H	2.272431506	-3.165614869	5.564420518	C	2.666763001	-6.953628360	-1.617226424
H	-2.573714747	-2.360668485	4.860248487	H	1.149337837	-5.108282357	0.794109748
H	0.778800164	-2.879392326	7.501125717	H	1.978027300	-4.090129889	-3.310719310
H	-1.650230532	-2.484063470	7.166802347	H	2.173112088	-7.319685614	0.453980512
C	-1.755915267	0.857054825	1.918369706	H	2.985856531	-6.309179311	-3.648739895
C	-2.286925563	1.694324047	0.920618638	H	3.113798810	-7.931222273	-1.771793847
C	-2.556848864	0.485424913	3.021454735	C	-0.959098939	-3.384203900	-0.448677128
C	-3.602432822	2.134972366	1.017483437	C	-1.674336852	-4.148428312	-1.387053777
C	-3.869397809	0.936455424	3.107375413	C	-1.517634298	-3.161334091	0.815088864
C	-4.396678127	1.753112149	2.103351504	C	-2.934514207	-4.648697630	-1.071464656
H	-1.660769263	2.002715821	0.092846038	C	-2.775813397	-3.674185165	1.134424865
H	-2.120605838	-0.122378529	3.806615854	C	-3.486512285	-4.415171004	0.191954951
H	-4.009453558	2.785666916	0.249383736	H	-1.240743529	-4.355378812	-2.361348856
H	-4.480276813	0.656157264	3.960604870	H	-0.975540263	-2.586243681	1.556712690
H	-5.423112917	2.101537240	2.171775139	H	-3.482130731	-5.231771678	-1.806071251
=====				H	-3.194355163	-3.496226612	2.120862444
8B-TS1'				H	-4.465996525	-4.814834834	0.438251233
=====				C	4.426144519	-3.411998822	0.925996113
C	-0.067223298	-0.110650562	0.000371616	C	5.439351344	-4.215849657	1.479815701
C	0.077328759	-0.147507909	2.255334516	C	4.392449764	-3.221940869	-0.457841337
C	2.695681439	0.037316876	0.019178245	C	6.360335637	-4.852342654	0.652566983
C	1.274530223	0.056037526	2.678260523	C	5.319872062	-3.853143003	-1.286779198
Rh	1.400842134	-1.283029078	1.008805521	C	6.298458192	-4.676530395	-0.733179304
P	3.218615808	-2.564832278	2.007819855	H	5.514320682	-4.330242925	2.557183760
P	0.742479471	-2.804720496	-0.829816787	H	3.636562993	-2.577589150	-0.885061299
C	0.485490345	0.997748532	-0.492859658	H	7.133322108	-5.478358295	1.088635425
C	1.935121746	1.319712038	-0.226957704	H	5.271858637	-3.705331375	-2.361503110
C	2.278589558	2.104712752	-1.519635220	H	7.019655652	-5.172886486	-1.376006341
C	-0.020206221	1.977382443	-1.533747599	C	2.327753976	-3.855752167	2.969759985
O	1.091002176	2.831872707	-1.810742628	C	1.233070781	-3.448281975	3.754592079
H	3.581755968	0.140056256	0.645187729	C	2.657467517	-5.218956363	2.924081161
H	2.934440943	-0.480362785	-0.909300373	C	0.494226024	-4.381277556	4.481449390
H	-1.081554025	-0.437571217	-0.186984836	C	1.910816804	-6.148473942	3.647418603
H	-0.350280796	1.443082172	-2.437707466	C	0.830412964	-5.734282673	4.428242977
H	-0.848853699	2.596621909	-1.173785909	H	0.957633172	-2.399764131	3.805885478
H	3.095539375	2.820355423	-1.401299721	H	3.475067935	-5.564829827	2.302878646
H	2.526844695	1.400386622	-2.331166782	H	-0.343043702	-4.048020271	5.087736124
H	2.016164297	1.992433042	0.638442710	H	2.176203149	-7.200813887	3.599864321
C	-1.309856956	0.015680856	2.700301343	H	0.252820823	-6.462473921	4.989436178
O	-1.546756583	0.331866159	3.852257533	C	4.358278855	-1.783101990	3.222461641
O	-2.253604543	-0.263905434	1.790525411	C	4.128870744	-1.823993070	4.604653042
C	-3.615339736	-0.155495177	2.259211172	C	5.507403224	-1.132676261	2.741217670
H	-3.772269298	-0.799401494	3.128556112	C	5.032371638	-1.229439287	5.485937187
H	-3.839479847	0.877504580	2.536477232	C	6.408544357	-0.543418657	3.626357433
H	-4.233092693	-0.477265196	1.421298280	C	6.174875441	-0.590204958	5.002795833

H	3.252759483	-2.324010109	5.002966932	C	3.868680087	-3.348390373	-0.358282605
H	5.715408000	-1.108845695	1.674943104	C	4.228054593	-4.917145579	-2.631918014
H	4.839965414	-1.269915578	6.554026907	C	5.108809929	-3.938585956	-0.605167220
H	7.297997763	-0.053959415	3.239705775	C	5.286515742	-4.733779856	-1.736896158
H	6.879087765	-0.134945509	5.692603886	H	2.194137752	-4.428657223	-3.117310514
C	2.030820129	0.699169493	3.720954661	H	3.741438974	-2.742452215	0.527581392
C	1.450157408	0.806398934	5.002406073	H	4.368762572	-5.518293953	-3.525465870
C	3.287971257	1.275330687	3.475874100	H	5.926221587	-3.776437811	0.091767298
C	2.135675976	1.467177051	6.016793138	H	6.248459642	-5.198816479	-1.931979546
C	3.952926419	1.953760046	4.490807499	C	-0.154962953	-3.954636022	-0.870625189
C	3.383782815	2.042888763	5.763705678	C	-1.389145751	-3.512418776	-0.359084121
H	0.461862436	0.393274684	5.170698765	C	-0.047356627	-5.269214529	-1.339141394
H	3.733451971	1.191776013	2.492782034	C	-2.497442693	-4.356923313	-0.343867884
H	1.689654758	1.546175248	7.003881071	C	-1.158730816	-6.112231751	-1.321194855
H	4.922983753	2.399267182	4.294731586	C	-2.384634172	-5.659282093	-0.833225492
H	3.911141934	2.564407613	6.557360179	H	-1.488992143	-2.495811669	0.016983291
=====				H	0.901763298	-5.649701405	-1.696657548
8A-TS1"				H	-3.445474412	-3.998852196	0.047503251
=====				H	-1.061532843	-7.131264286	-1.684069605
C	0.000694065	0.039765556	-0.244787668	H	-3.246082127	-6.320563203	-0.825538621
C	-0.478794515	0.260260741	1.923084332	C	1.369774115	-4.804355163	2.148581331
C	2.601417926	-0.117708518	0.642687964	C	0.102611149	-5.338437471	2.429826978
C	0.525935706	-0.008424597	2.646542951	C	2.297643576	-5.605536972	1.461811731
Rh	0.938730627	-1.343756547	1.040774138	C	-0.220257202	-6.639919577	2.048960611
P	1.805332651	-3.072952164	2.657428664	C	1.972640357	-6.908211463	1.087272734
P	1.194505947	-2.715009715	-0.916567500	C	0.714299686	-7.431879312	1.382534981
C	0.803853149	1.052193932	-0.585448904	H	-0.634511287	-4.756642847	2.970388066
C	2.118086340	1.223328396	0.125424415	H	3.287851141	-5.231056190	1.236601366
C	2.945810355	1.900216012	-0.993936885	H	-1.204676817	-7.035024935	2.281625395
C	0.760895536	2.037785650	-1.733247998	H	2.711546416	-7.513905183	0.570159098
O	2.008495348	2.736607366	-1.666382762	H	0.463252777	-8.449013954	1.095703598
H	3.117961509	-0.043164528	1.595921800	C	3.564928268	-3.238740121	3.169574591
H	3.189428871	-0.667961977	-0.091900219	C	4.035203032	-4.416886562	3.776952324
H	-0.929804941	-0.179507308	-0.764740100	C	4.459967830	-2.176853952	2.979542400
H	0.647628628	1.511420654	-2.692002173	C	5.368310840	-4.528243550	4.168866587
H	-0.047942679	2.773477702	-1.644238492	C	5.795930983	-2.292005607	3.366411420
H	3.760847654	2.529993560	-0.629260456	C	6.253764277	-3.468961683	3.959865862
H	3.359130481	1.134673344	-1.672103547	H	3.362160522	-5.252083873	3.939471619
H	1.991916054	1.931639123	0.956027697	H	4.113866586	-1.255509548	2.534669467
C	-1.862540613	0.797346290	1.808302017	H	5.715117583	-5.445489067	4.635723491
H	-2.380588430	0.308604971	0.975520317	H	6.476385246	-1.461125976	3.203136013
C	1.087598483	0.272585447	3.970397170	H	7.293641770	-3.561071247	4.259504766
O	0.477868463	0.827162499	4.860141989	C	0.879851417	-2.901174449	4.243272689
O	2.366964367	-0.141690229	4.064747251	C	-0.486480923	-2.576237824	4.193632063
C	2.987382226	0.046839477	5.354699282	C	1.478174977	-3.101927241	5.495440524
H	3.038630558	1.110083976	5.600236355	C	-1.236459428	-2.463165670	5.362505589
H	2.414330944	-0.477886431	6.122257963	C	0.725977102	-2.982885086	6.664978312
H	3.984596864	-0.381569242	5.256899838	C	-0.630724441	-2.664148330	6.603000000
C	0.952786942	-1.843208348	-2.518573582	H	-0.970221792	-2.397993199	3.237778484
C	2.052835376	-1.193425451	-3.102478628	H	2.532222223	-3.345516778	5.566959353
C	-0.300912163	-1.751636008	-3.136886853	H	-2.289858088	-2.205764883	5.304058364
C	1.902956989	-0.477081775	-4.287918287	H	1.205429259	-3.140333265	7.626984117
C	-0.447544473	-1.030691716	-4.324011835	H	-1.211091981	-2.567875871	7.515540756
C	0.651195536	-0.394772404	-4.902778734	C	-2.597236515	0.471946865	3.127442097
H	3.035232429	-1.265819562	-2.645350533	H	-3.592575894	0.926504814	3.116174587
H	-1.161977244	-2.254475081	-2.708210531	H	-2.712912787	-0.608195880	3.258992379
H	2.763199039	0.015405546	-4.731687364	H	-2.036983723	0.860034276	3.982678667
H	-1.421875868	-0.976232321	-4.801029262	C	-1.814996581	2.314248301	1.539291989
H	0.534613676	0.160220896	-5.828843457	H	-1.314743752	2.830316409	2.364467975
C	2.792875392	-3.549213961	-1.230876446	H	-1.275866839	2.532921047	0.614513742
C	2.994096755	-4.316891947	-2.391747797	H	-2.832928356	2.705968243	1.453504488

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8B-TS1"

=====
C -0.146876346 -0.096087845 0.013215739  
C 0.130056310 -0.077484589 2.338155783  
C 2.614476307 0.119034363 0.088284022  
C 1.332141258 0.015445055 2.744186030  
Rh 1.329195312 -1.272820481 0.999891789  
P 3.178591723 -2.621475130 1.884345044  
P 0.705881227 -2.707503052 -0.916473573  
C 0.383655884 1.013437644 -0.495706567  
C 1.821479332 1.369432190 -0.216564367  
C 2.165767007 2.142182499 -1.514060617  
C -0.135244344 1.991651410 -1.532479218  
O 0.970163084 2.855783061 -1.811790539  
H 3.441400229 0.272979229 0.781131102  
H 2.946687588 -0.394730444 -0.813345162  
H -1.165736682 -0.429637277 -0.147816241  
H -0.459671666 1.455144843 -2.437313512  
H -0.968229556 2.606056789 -1.173454252  
H 2.974575705 2.868000235 -1.400276516  
H 2.422578607 1.433532780 -2.318801630  
H 1.861634148 2.068820537 0.629196413  
C 2.172885609 0.607056392 3.821590420  
H 3.217723335 0.324597977 3.694957174  
C -1.236250136 0.317907336 2.694758800  
O -1.441982485 1.146973947 3.558462175  
O -2.194789841 -0.364138312 2.048612555  
C -3.552004912 -0.028556399 2.411633469  
H -3.716041349 -0.204029146 3.477700877  
H -3.757057412 1.020879235 2.186316336  
H -4.178344912 -0.684724796 1.807928370  
C 0.645402657 -1.795328257 -2.507968975  
C 1.845428885 -1.402784307 -3.125564280  
C -0.569079937 -1.406003885 -3.090900018  
C 1.830699841 -0.655838954 -4.302924822  
C -0.580850032 -0.658056407 -4.269891161  
C 0.615948070 -0.281666735 -4.879474116  
H 2.803081461 -1.687693410 -2.701943802  
H -1.509920560 -1.685059325 -2.629612935  
H 2.768280331 -0.367457647 -4.769181312  
H -1.530674888 -0.369475418 -4.710646239  
H 0.603365500 0.302467226 -5.794576755  
C 1.526803115 -4.305897141 -1.313830935  
C 1.542612668 -5.270728456 -0.295335422  
C 2.087383712 -4.618737723 -2.558912870  
C 2.143791088 -6.508385330 -0.503595672  
C 2.686774825 -5.862600906 -2.764696777  
C 2.725978877 -6.805231364 -1.737930564  
H 1.074465952 -5.059920626 0.660082640  
H 2.060107140 -3.903800903 -3.373177259  
H 2.152282171 -7.239795660 0.299085369  
H 3.120697610 -6.093279885 -3.733565436  
H 3.197084575 -7.769975460 -1.901727739  
C -0.997206587 -3.323225893 -0.606889663  
C -1.639761662 -4.118664097 -1.571785271  
C -1.623320156 -3.105442952 0.625853490  
C -2.896048160 -4.658693044 -1.312723057  
C -2.879816058 -3.655537108 0.886437750  
C -3.518194568 -4.429181011 -0.081569531  
H -1.152578338 -4.318849043 -2.521832015

=====
H -1.148447682 -2.491841943 1.382700663  
H -3.386808037 -5.266624762 -2.067089017  
H -3.353968490 -3.478147430 1.847526764  
H -4.495566397 -4.857837548 0.120041006  
C 4.444047405 -3.320056260 0.758981484  
C 5.533229009 -4.045665090 1.275293031  
C 4.400013661 -3.052470475 -0.610967332  
C 6.524144104 -4.526035794 0.423883531  
C 5.396687043 -3.525384792 -1.464407410  
C 6.456585007 -4.268934412 -0.948840967  
H 5.617372429 -4.214441611 2.344730783  
H 3.581991235 -2.469840710 -1.008877080  
H 7.358050640 -5.089297480 0.832370107  
H 5.342382263 -3.312776057 -2.528264776  
H 7.235818592 -4.637641870 -1.609570382  
C 2.364561433 -4.010475197 2.772374041  
C 1.198448175 -3.717780401 3.503022266  
C 2.825710625 -5.334818924 2.734367958  
C 0.512848082 -4.727297033 4.180653732  
C 2.134925797 -6.340939444 3.410559968  
C 0.976820732 -6.043340308 4.133192833  
H 0.826109580 -2.697903245 3.550975320  
H 3.704656400 -5.592576739 2.155163835  
H -0.384868592 -4.483948267 4.741797268  
H 2.502664398 -7.362397060 3.368877689  
H 0.440846767 -6.831088581 4.654058912  
C 4.288083291 -1.874713059 3.142037102  
C 4.204139091 -2.184315869 4.504611801  
C 5.254361650 -0.951012791 2.705854013  
C 5.056163836 -1.561606632 5.419878059  
C 6.098517475 -0.329318709 3.622336102  
C 5.997042851 -0.629511090 4.984157310  
H 3.479615445 -2.910204327 4.858339558  
H 5.360070052 -0.730647449 1.647129302  
H 4.982648164 -1.809961057 6.474728097  
H 6.839772280 0.384487170 3.274949013  
H 6.655903719 -0.145196733 5.698760880  
C 2.050820722 2.144335668 3.748054001  
H 2.452659219 2.535534191 2.808424665  
H 1.002964016 2.445304126 3.834643387  
H 2.615219990 2.594216217 4.571313724  
C 1.666499444 0.081635891 5.182567170  
H 0.624487048 0.378759373 5.336324259  
H 1.734642037 -1.008268809 5.239953185  
H 2.275847813 0.501320738 5.989024307

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15A-TS1'

=====
C 0.853089406 0.548777413 -0.878371709  
C 0.417681128 -0.449417720 1.768628061  
C 2.511678575 0.235205491 4.532945385  
C 1.222634871 0.240002598 5.067657919  
H 0.418168855 0.733911030 4.535087500  
C 0.957439407 -0.383585562 6.295533661  
C -0.445274566 -0.411464040 6.857452065  
C 2.013813875 -0.999022113 6.971866438  
H 1.819409197 -1.482530087 7.927508036  
C 3.321398109 -1.006519795 6.462485369  
C 4.437353370 -1.675024226 7.231031748  
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H	3.902988673	5.062466855	1.858534026	H	2.161217078	-4.382743531	-2.312011494
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C	3.126919100	4.006587555	-2.647939003	=====	=====	=====	=====
H	2.942140614	4.976613871	-2.198406547	15B-TS1'	=====	=====	=====
C	3.331074093	3.925734453	-4.028911298	=====	=====	=====	=====
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C	-0.079554093	2.299691198	1.158152690	C	3.149722131	-2.764623350	6.630964472
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15A-TS1'

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P 2.904898614 1.000667914 2.998560794  
P 2.976413943 2.907704070 0.101776956  
Rh 1.643423465 1.118084559 0.973331044  
C -0.016937065 2.363681926 1.292000594  
C -0.985993063 1.611659705 2.186462363  
C -0.770080816 0.125054302 2.213316400  
H 0.519361725 -1.514814308 1.876054616  
C -1.988130219 -0.443621864 2.902480661  
H -0.804559439 1.933755186 3.227462433  
C -2.507082588 1.654587442 1.986030203  
H 0.393370675 3.254896045 1.765348912  
H -0.419333460 2.621630599 0.312618014  
H -2.341073752 -1.352940803 2.394576990  
H -1.811830849 -0.691969503 3.959006333  
H -2.987510555 2.580219492 2.313631266  
H -2.763551653 1.470298329 0.930000399  
O -2.976586430 0.596128041 2.836633457  
C 0.644325542 -0.490730976 -0.307787139  
C 0.592605392 -1.957626263 -0.624820211  
C 0.402000499 1.392288056 -2.071241797  
H 0.964295794 -2.523477416 0.235697639  
O 0.150238129 2.582389218 -2.121654522  
O 0.344188315 0.575844850 -3.142794641  
C 0.025879983 1.227421725 -4.393479047  
H -0.010028519 0.428863333 -5.134008136  
H -0.937453798 1.738193514 -4.325695996  
H 0.806905251 1.951381235 -4.639732113  
H 5.303679037 -1.984245447 6.605822185  
H 4.456527151 -1.652099518 8.123894398  
H 4.101124333 -3.126638267 7.225156117  
H -0.495660099 -0.533464521 7.852583258  
H -1.086689480 0.203972256 6.354951412  
H -1.022388390 -1.555286436 6.515539132  
H 7.335402504 4.569544868 5.616557227  
H 7.337236896 2.827571468 5.919562641  
H 7.659755819 3.433597968 4.294469808  
H 1.605396894 5.775023604 4.822696581

H	1.837344857	5.123645666	6.448134944	C	6.850607444	1.160792078	-0.743115569
H	2.878445811	6.427518377	5.867561023	H	7.030135740	2.208382113	-0.534778257
H	2.776208143	-0.452821301	-4.275159256	C	5.881124288	0.454055493	0.023751208
H	4.110934405	0.088397909	-5.309392356	C	5.139669588	1.078453507	1.082324410
H	4.437765559	-0.580138847	-3.697988675	C	5.395312416	2.525276917	1.367946944
H	4.398376479	5.029531567	-5.495022525	C	6.622474467	2.897248763	2.009996061
H	2.647975909	5.191258230	-5.344772412	C	7.562924292	1.932976357	2.468845471
H	3.706648291	5.999214979	-4.182996173	H	7.351017599	0.878594829	2.328791159
H	-1.218293491	7.352904720	-0.198982093	C	8.732664185	2.320668873	3.083568972
H	-0.139486583	7.517721905	-1.584900257	H	9.436341059	1.566985355	3.424989913
H	-1.011857064	6.001824129	-1.331766866	C	9.030114525	3.692649972	3.273678090
H	3.630389866	6.965527332	3.467070655	H	9.960178420	3.983541827	3.752907163
H	3.462183203	8.344753214	2.373159093	C	8.137353667	4.650928918	2.849477661
H	2.162836541	7.959631776	3.499861317	H	8.351079925	5.707145805	2.991424697
C	1.513765656	-2.251919017	-1.823685624	C	6.920101866	4.282502057	2.216627432
H	2.550719136	-1.985892202	-1.597551283	C	5.989550958	5.250311830	1.768967521
H	1.476164619	-3.320854402	-2.060784252	H	6.219540308	6.303629343	1.903409805
H	1.193949268	-1.687013786	-2.701232042	C	4.813936685	4.878272514	1.166264996
C	-0.867785650	-2.367589668	-0.894061838	H	4.134397167	5.648147847	0.824843431
H	-1.263611836	-1.814773386	-1.751583783	C	4.489677271	3.507958001	0.970020155
H	-0.924028895	-3.437558229	-1.116938488	C	2.032408116	4.606442235	-0.206858427
H	-1.500838941	-2.158494954	-0.027595172	C	1.587143681	4.960988704	-1.484771040
<hr/>				H	1.852618954	4.354366149	-2.344389074
15B-TS1'				C	0.807344510	6.108469091	-1.681210370
<hr/>				C	0.302595955	6.450236573	-3.062366729
C	0.259467629	-0.127785250	-0.062790638	C	0.496582601	6.905877252	-0.576704380
C	0.209150838	-0.215440134	1.922117612	H	-0.096208616	7.806256395	-0.722645241
C	2.642792469	-0.098415374	4.292328488	C	0.935807496	6.582157401	0.713388492
C	1.590484360	0.229723646	5.158784949	C	0.580486969	7.452662473	1.895708091
H	0.997401881	1.120320274	4.980830635	C	1.695378728	5.422432142	0.886852176
C	1.302189045	-0.553285166	6.277569595	H	2.054361607	5.172606998	1.881096245
C	0.181447619	-0.169065680	7.216062694	C	3.594411379	2.505112510	-1.527636575
C	2.093786756	-1.683620001	6.516746057	C	4.380713590	3.401593408	-2.267318071
H	1.877829352	-2.307602687	7.381956723	H	4.551456664	4.408136010	-1.893925900
C	3.162140221	-2.025867735	5.681679662	C	4.949008065	3.016864857	-3.484062093
C	3.992785235	-3.256263421	5.963716742	C	5.781421474	3.980379899	-4.296896457
C	3.435228811	-1.218043498	4.568817611	C	4.726543875	1.711217498	-3.942532554
H	4.275479786	-1.470959653	3.929804551	H	5.167888997	1.402206706	-4.888519208
C	3.598840481	2.497257949	3.899835117	C	3.971233041	0.789660709	-3.212943995
C	4.786956988	2.422171857	4.630082114	C	3.791352330	-0.627144575	-3.702535352
H	5.426485563	1.547864266	4.544233120	C	3.413283007	1.200561158	-1.997377479
C	5.171835081	3.475618692	5.466382694	H	2.843465288	0.484808982	-1.414884618
C	6.491039042	3.425456629	6.198361336	P	2.956120422	1.092424371	2.936360722
C	4.322771491	4.582618329	5.581017216	P	2.916430538	3.032057849	0.096818884
H	4.608770397	5.399166280	6.241317842	Rh	1.517672487	1.325679917	1.043654332
C	3.112132995	4.667302029	4.882283986	C	-0.078357792	2.572217041	1.616816369
C	2.215021177	5.871735201	5.042278564	C	-0.677979412	1.928614440	2.845333387
C	2.762032562	3.611681594	4.036586370	C	-0.617495183	0.429434207	2.755361183
H	1.824637601	3.645926653	3.489697549	H	0.387356295	-1.280531618	2.004918016
C	4.175563034	0.344660624	1.777758385	C	-1.624984085	-0.097501066	3.752833350
C	3.881629963	-0.998484890	1.378090412	H	-0.075195977	2.213024220	3.723141761
H	3.069119271	-1.536723411	1.851949835	C	-2.148546932	2.118592656	3.256984572
C	4.594188282	-1.608596453	0.377987426	H	0.316258443	3.573577527	1.776287793
H	4.353950634	-2.628328834	0.090636256	H	-0.776062549	2.585257580	0.781482027
C	5.623712823	-0.916793849	-0.307295734	H	-2.303617682	-0.820207821	3.273813571
C	6.376584058	-1.537253966	-1.338173564	H	-1.164554413	-0.580452378	4.622451750
H	6.184711214	-2.582977539	-1.564409268	H	-2.367160813	3.061709121	3.764332851
C	7.323765784	-0.829755141	-2.042805079	H	-2.816782328	2.011869502	2.386342024
H	7.893396828	-1.315676196	-2.829828328	O	-2.344270914	1.060265836	4.205257204
C	7.549600935	0.537082900	-1.751096889	C	0.413951133	0.964343522	-0.730635364
H	8.281354938	1.096738391	-2.326082052	C	0.133217994	1.632177971	-2.035504309

C 0.277834051 -1.575318365 -0.366926068  
 H 1.006514582 2.236183903 -2.293948641  
 O 1.089101964 -2.364219300 0.078216359  
 O -0.689839318 -1.890392304 -1.240711955  
 C -0.692664526 -3.265512806 -1.688516134  
 H -1.545745960 -3.348137380 -2.360751400  
 H 0.238326137 -3.495985262 -2.212788410  
 H -0.800890261 -3.941018177 -0.836657443  
 H 4.955096889 -3.221050344 5.444669785  
 H 4.188584687 -3.368683321 7.034927258  
 H 3.471779490 -4.163114628 5.632694911  
 H 0.568468265 0.396823668 8.072239524  
 H -0.566130283 0.455514221 6.717049540  
 H -0.325116887 -1.052809392 7.616137899  
 H 6.478899473 4.052751316 7.094297683  
 H 6.742411677 2.403699594 6.499470123  
 H 7.298175539 3.782211344 5.548103442  
 H 1.271132545 5.746379522 4.503660941  
 H 1.978270714 6.054199252 6.096251529  
 H 2.700983056 6.778473622 4.661829543  
 H 2.999189302 -1.145264208 -3.153332373  
 H 3.543111840 -0.654552389 -4.768469262  
 H 4.715652269 -1.197169717 -3.561030858  
 H 6.719368991 3.515667363 -4.619483233  
 H 5.248986256 4.293406173 -5.202893399  
 H 6.028202684 4.880772684 -3.727436132  
 H 0.004878687 7.499597194 -3.136778556  
 H 1.063230883 6.256283131 -3.825277238  
 H -0.572648322 5.838892237 -3.313301304  
 H 1.392552679 7.484319807 2.627816824  
 H 0.359452041 8.478145904 1.586885277  
 H -0.307965054 7.067890202 2.411370310  
 C -1.069452485 2.591159384 -1.905863900  
 H -1.285450299 3.037018000 -2.882908520  
 H -1.964079294 2.055860987 -1.571244549  
 H -0.858574117 3.404744366 -1.206908994  
 C -0.084725535 0.601031746 -3.157360511  
 H -0.241128618 1.116826318 -4.110810906  
 H 0.786652455 -0.052389154 -3.263656556  
 H -0.955336736 -0.025499110 -2.949033390

**Table S5.** Vibrational Frequencies of Optimized Structures

1	44.49	98.32	103.35	149.28	218.30	285.89
	333.21	379.96	469.81	573.78	756.63	823.64
	976.59	1048.83	1055.91	1105.29	1177.40	1215.15
	1301.13	1421.87	1479.89	1481.68	1484.39	1494.21
	1507.13	1796.81	2363.79	3036.81	3058.37	3103.98
	3107.82	3134.87	3171.55			
2	45.79	80.17	143.65	173.51	304.49	347.74
	393.76	436.89	529.38	604.89	665.50	680.57
	925.84	942.14	959.64	992.85	1015.44	1033.77
	1039.41	1118.74	1180.36	1258.23	1295.82	1317.89
	1386.29	1423.66	1467.00	1498.47	1515.07	1724.62
	2248.28	2961.97	2982.81	3006.43	3076.75	3147.76
	3162.20	3238.14	3495.98			
PPh <sub>3</sub>						



1627.37	1629.39	1629.85	1641.23	1642.71	1642.75		263.70	267.25	275.36	277.28	311.90	324.95
1644.72	1645.25	1647.16	2063.62	2994.86	3034.12		404.29	405.42	406.88	407.24	413.50	414.75
3097.25	3107.56	3161.66	3165.41	3178.86	3180.64		420.09	430.07	445.77	450.33	461.47	465.44
3188.58	3189.14	3190.23	3190.33	3190.40	3190.54		502.94	507.72	517.34	520.26	526.16	534.34
3195.54	3196.95	3198.13	3199.14	3199.41	3200.97		540.33	579.01	617.78	627.21	628.51	629.38
3204.90	3205.12	3205.49	3207.13	3212.12	3212.81		629.92	630.63	630.71	645.20	676.55	695.25
3212.82	3214.53	3215.22	3215.81	3222.24	3222.83		695.76	706.38	707.08	709.10	710.05	710.12
3231.52	3235.98	3243.90	3257.59	3258.57	3412.61		712.27	720.99	722.39	725.34	728.21	762.84
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5-TS												
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-316.25	14.68	23.70	32.15	32.54	44.75		763.16	763.79	766.32	768.61	769.39	771.22
49.77	51.89	53.51	56.69	61.24	64.13		781.49	817.44	863.18	865.36	866.81	869.47
69.28	73.81	75.67	76.96	84.65	95.82		871.47	875.88	935.67	940.16	944.08	944.46
97.27	102.97	106.10	114.53	123.04	154.71		946.51	946.77	954.94	984.12	984.52	986.31
163.62	196.38	201.91	209.20	215.19	217.78		987.69	990.74	991.31	994.45	999.95	1011.65
232.40	242.76	244.45	255.46	257.18	262.62		1011.98	1012.78	1013.13	1013.32	1013.89	1014.98
268.78	275.50	277.41	287.30	308.84	323.21		1016.98	1018.19	1019.01	1019.12	1019.56	1020.47
357.29	406.54	411.02	413.26	414.11	418.75		1050.86	1051.19	1051.53	1051.87	1052.36	1052.59
426.00	433.21	436.60	445.35	452.52	461.81		1060.55	1071.39	1111.43	1112.55	1113.08	1114.39
466.03	470.78	489.54	506.33	509.85	518.75		1115.24	1116.92	1117.31	1117.55	1118.24	1120.31
523.29	531.59	534.43	549.12	584.84	628.68		1121.36	1123.64	1125.21	1144.32	1157.88	1200.49
630.01	630.28	631.18	631.58	632.40	658.91		1202.25	1202.52	1202.70	1202.76	1202.80	1203.90
693.47	697.87	708.05	710.11	710.87	712.99		1222.02	1222.40	1223.59	1224.90	1225.54	1226.88
713.45	714.63	718.35	719.61	720.12	726.84		1230.93	1248.22	1305.95	1323.20	1324.16	1328.12
758.14	763.91	766.19	768.18	768.60	771.80		1328.99	1330.20	1334.97	1335.05	1351.64	1364.11
772.02	775.02	862.47	873.58	873.91	874.58		1364.24	1365.98	1366.64	1367.85	1369.74	1396.18
878.03	879.14	904.09	935.56	942.81	952.06		1473.64	1473.94	1476.87	1477.77	1479.49	1479.94
954.17	954.80	956.21	959.16	964.43	973.97		1486.04	1512.72	1523.12	1523.18	1524.23	1524.32
986.65	990.70	994.27	995.66	995.76	997.21		1526.44	1527.04	1529.75	1621.58	1622.18	1627.13
999.30	1001.01	1012.92	1013.14	1013.35	1014.03		1627.41	1628.21	1628.57	1640.72	1640.75	1643.24
1014.81	1015.90	1016.34	1017.20	1018.49	1018.73		1643.64	1643.85	1644.91	1691.08	2960.29	2990.65
1019.55	1019.74	1020.75	1050.89	1052.11	1052.88		3055.83	3065.40	3075.80	3116.01	3139.03	3146.84
1052.99	1053.59	1053.88	1091.54	1111.78	1112.92		3156.63	3159.63	3181.79	3181.86	3185.02	3188.03
1113.46	1115.35	1116.32	1116.68	1118.14	1119.78		3188.41	3189.01	3189.52	3189.80	3191.39	3194.72
1120.64	1121.74	1123.59	1124.12	1126.80	1150.73		3196.41	3197.12	3197.41	3197.56	3200.60	3203.53
1197.96	1201.54	1201.82	1202.34	1202.59	1202.79		3204.85	3205.05	3205.70	3206.45	3208.76	3212.38
1203.07	1223.14	1224.91	1226.71	1227.08	1230.26		3213.00	3213.74	3213.78	3214.31	3215.29	3222.12
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9.47	22.44	23.48	34.44	36.15	43.57		49.98	52.97	54.85	62.30	67.95	72.60
73.33	85.76	97.34	108.88	120.37	136.19		148.34	155.53	158.43	175.12	199.80	208.42
216.45	221.07	228.71	246.00	248.46	266.90		269.45	271.63	282.64	315.71	334.46	346.87
371.39	404.67	407.48	413.48	424.06	428.62		456.12	460.78	509.62	511.66	528.92	534.99
542.81	563.92	604.49	627.83	629.12	629.87		636.36	671.48	681.11	695.95	707.44	709.16
711.78	719.79	725.52	747.06	761.88	764.52		769.92	771.23	782.33	824.81	841.43	862.07
864.03	879.48	940.23	941.06	947.30	961.24		966.02	974.19	986.31	987.99	1002.00	1006.45
1009.07	1010.98	1013.90	1014.24	1017.17	1020.16		1026.84	1032.65	1043.02	1048.98	1051.85	1052.75
1054.53	1075.93	1081.42	1107.49	1114.55	1116.23		1117.06	1119.34	1120.33	1122.76	1145.60	1162.16
1177.40	1201.01	1202.91	1203.81	1204.65	1212.87		1214.30	1224.80	1225.86	1230.19	1251.79	1287.55
1291.24	1321.15	1327.11	1333.80	1335.42	1342.71		1366.56	1367.46	1373.56	1389.34	1411.30	1468.38
1469.25	1474.56	1477.98	1478.75	1480.13	1480.63							
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1110.00	1110.73	1111.90	1114.69	1115.27	1116.62
1117.58	1118.51	1119.07	1120.48	1121.20	1121.78
1122.65	1144.60	1177.26	1178.84	1201.44	1201.66
1201.92	1202.13	1203.23	1203.24	1209.90	1217.70
1224.33	1226.88	1228.23	1229.62	1230.50	1232.95
1233.89	1253.80	1259.32	1300.96	1322.41	1324.70
1329.62	1329.85	1333.65	1334.18	1335.95	1353.26
1364.30	1366.35	1368.08	1369.77	1369.87	1372.93
1399.30	1415.32	1470.14	1472.78	1473.63	1476.03
1476.13	1477.66	1478.45	1480.26	1480.63	1490.26
1496.60	1503.93	1508.45	1526.48	1526.85	1527.69
1528.45	1528.87	1529.33	1530.11	1624.14	1625.64
1625.96	1627.12	1627.91	1629.00	1641.96	1642.83
1643.67	1644.84	1645.38	1646.91	1706.36	1832.94
2263.13	2975.32	2997.02	3015.87	3042.64	3068.95
3070.88	3095.22	3107.98	3114.91	3125.09	3137.06
3152.35	3163.00	3183.01	3184.11	3185.64	3186.74
3186.98	3187.64	3191.16	3191.71	3192.56	3192.80
3193.65	3194.19	3197.17	3202.35	3203.36	3203.80
3206.54	3206.73	3208.68	3208.75	3208.97	3212.43
3214.27	3214.82	3215.57	3216.21	3219.90	3222.86
3225.94	3255.03	3256.93			

#### 8C

7.29	11.07	22.01	28.30	42.26	42.79
46.08	47.85	50.64	53.42	59.38	61.33
63.05	68.10	68.83	75.90	80.12	88.18
91.92	93.61	99.96	108.53	114.43	120.82
124.96	135.61	136.96	143.87	145.36	157.48
164.20	165.98	178.81	189.74	199.97	206.29
210.09	219.07	225.83	230.77	238.12	247.99
256.12	259.31	260.04	262.32	264.33	275.91
279.58	281.91	285.07	301.59	326.65	335.68
349.14	380.22	409.63	411.97	416.94	417.33
421.06	425.31	428.39	433.33	442.20	448.56
463.21	468.36	476.30	498.61	505.57	517.72
521.62	531.12	537.57	544.80	566.50	574.22
627.65	629.40	630.23	631.74	632.57	633.03
633.31	651.14	681.15	695.46	696.38	706.68
710.70	712.03	714.28	714.77	715.25	715.96
720.97	723.39	727.33	740.04	759.95	763.13
767.65	768.70	770.22	771.41	784.10	798.71
818.03	834.78	858.67	868.36	872.10	875.51
877.46	884.98	929.05	939.77	941.17	945.78
951.56	953.43	955.17	964.90	983.65	989.05
993.35	997.47	997.85	998.16	1003.86	1007.81
1012.84	1013.58	1014.24	1015.01	1015.09	1015.72
1015.87	1016.62	1018.03	1019.50	1019.58	1020.23
1022.25	1046.88	1052.92	1053.32	1053.32	1053.92
1054.25	1054.34	1054.85	1069.15	1072.08	1085.35
1108.40	1112.31	1112.96	1114.22	1115.36	1117.31
1119.05	1119.64	1120.83	1121.04	1121.64	1123.44
1123.92	1157.54	1180.35	1188.41	1202.77	1202.81
1202.98	1203.47	1204.10	1204.15	1211.42	1217.56
1226.00	1227.70	1228.27	1230.13	1231.30	1233.14
1235.00	1253.85	1258.74	1311.09	1319.12	1324.13
1328.43	1330.31	1333.85	1335.49	1338.04	1356.44
1366.73	1366.92	1367.63	1370.24	1371.20	1372.67
1401.62	1417.26	1464.18	1471.55	1473.36	1473.86
1476.35	1477.75	1477.88	1480.80	1481.61	1491.34

1492.00	1505.55	1506.58	1527.45	1527.51	1527.89
1528.76	1529.29	1529.72	1532.79	1623.98	1625.44
1627.75	1628.86	1630.22	1630.39	1644.16	1644.35
1645.36	1645.84	1646.28	1646.76	1702.27	1830.98
2315.51	2986.39	3004.64	3046.50	3048.28	3051.73
3066.62	3085.34	3106.31	3110.23	3127.24	3129.29
3130.22	3183.25	3185.49	3185.78	3186.39	3186.99
3187.61	3188.73	3192.29	3193.04	3193.53	3193.85
3194.71	3195.63	3196.31	3202.43	3203.99	3204.11
3205.73	3209.81	3210.36	3211.72	3213.14	3213.44
3213.93	3217.56	3218.41	3223.29	3227.40	3229.42
3230.10	3231.97	3232.07			

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#### 8C-BPR

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-47.44	17.50	24.24	29.37	33.93	36.74
41.78	46.33	50.58	51.89	56.85	58.92
61.20	65.95	67.80	71.42	74.47	79.05
83.11	87.02	89.70	95.67	98.88	104.07
113.08	114.10	119.02	122.52	131.77	145.35
150.41	159.48	177.40	195.30	200.97	202.54
207.70	211.02	217.96	221.30	226.21	232.51
245.23	253.74	255.12	257.69	258.20	260.89
264.05	277.59	278.37	298.39	307.01	331.87
335.75	360.51	411.83	413.74	415.38	415.75
418.33	423.70	429.67	436.80	438.29	453.64
460.52	469.20	484.51	494.79	504.74	516.38
524.06	526.28	534.37	539.62	562.21	575.41
618.39	627.53	628.03	628.80	630.39	630.84
632.00	642.15	677.01	694.39	695.50	709.50
710.11	711.77	712.71	715.06	715.84	718.12
718.38	719.16	725.97	740.80	764.19	764.96
767.25	767.40	771.71	772.86	778.86	797.04
826.91	835.09	870.05	872.11	873.25	874.59
878.10	886.12	930.97	948.07	951.75	952.40
954.36	957.19	962.67	966.33	991.00	991.73
993.55	995.04	995.91	996.30	1003.28	1005.40
1008.45	1013.30	1013.41	1014.16	1014.68	1014.97
1016.18	1016.54	1017.34	1017.66	1019.23	1021.45
1023.55	1038.90	1048.13	1049.59	1050.40	1051.86
1052.28	1053.26	1063.57	1073.63	1076.15	1101.33
1110.05	1111.67	1113.27	1114.54	1115.13	1116.40
1117.43	1118.07	1118.85	1119.83	1120.43	1122.71
1127.41	1157.41	1176.09	1176.15	1199.80	1201.63
1201.96	1202.52	1203.12	1203.58	1206.24	1218.04
1222.68	1224.54	1229.04	1229.19	1231.64	1232.41
1234.75	1254.40	1297.66	1311.83	1321.28	1322.87
1327.40	1329.50	1330.55	1333.75	1334.51	1350.26
1361.59	1366.99	1368.29	1369.08	1371.62	1372.50
1396.56	1418.29	1470.81	1472.40	1474.25	1475.09
1475.99	1476.83	1478.13	1479.78	1481.43	1489.89
1491.31	1500.44	1506.54	1523.88	1526.52	1526.99
1527.58	1528.30	1528.36	1532.67	1622.72	1622.79
1625.89	1627.68	1628.42	1628.91	1641.67	1641.98
1642.41	1643.37	1643.99	1645.19	1692.76	1790.64
2302.27	2993.76	3004.97	3018.02	3041.30	3068.54
3069.86	3111.16	3115.64	3122.84	3127.95	3151.95
3179.82	3183.79	3184.57	3185.09	3185.21	3188.71
3190.10	3190.45	3191.02	3192.33	3193.57	3193.90
3195.25	3196.24	3196.73	3200.53	3200.65	3201.15
3203.70	3204.27	3206.81	3207.61	3208.98	3209.24

3210.05	3211.25	3213.20	3214.84	3215.02	3215.56	161.37	164.36	170.65	194.79	201.94	206.93
3216.88	3218.39	3264.31				210.47	216.33	219.71	222.69	229.92	232.43
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8A-TS1											
						241.81	254.40	256.17	259.12	261.76	262.32
-193.65	10.30	25.26	29.00	33.57	39.81	278.10	280.88	283.48	296.92	337.61	348.19
44.75	47.53	52.91	53.89	57.36	60.77	396.93	404.93	406.65	410.81	415.72	418.59
63.75	67.12	69.76	75.01	75.29	78.87	421.61	425.51	434.96	438.41	440.06	454.97
79.86	88.83	90.25	96.84	98.77	102.30	461.33	467.32	479.28	498.45	505.11	516.09
113.32	114.50	129.37	138.96	148.20	155.16	519.78	532.32	539.52	561.22	570.95	628.47
168.05	174.33	180.33	185.62	206.12	209.65	629.80	630.34	631.07	631.62	633.16	633.82
215.42	218.26	221.84	226.53	233.31	241.82	650.24	663.60	679.39	694.40	698.09	705.50
255.38	256.14	259.39	260.66	267.92	273.06	707.79	709.12	710.44	712.86	714.23	717.92
274.35	282.14	286.40	288.94	306.28	336.86	719.94	722.54	725.15	747.64	760.32	762.82
374.65	406.83	408.52	410.63	414.46	418.55	765.55	767.81	768.98	770.37	775.32	821.12
420.68	423.79	426.44	433.71	435.39	439.68	831.06	849.18	863.58	864.94	868.13	873.73
467.56	470.47	481.95	499.24	503.59	517.84	877.51	878.46	936.13	940.35	941.40	944.42
520.26	530.57	533.70	534.92	557.40	612.63	950.29	956.59	958.43	980.30	982.89	984.36
627.51	628.01	630.01	630.75	631.52	632.01	987.02	989.84	994.55	995.82	997.30	1004.46
632.79	674.05	683.42	692.22	693.97	704.84	1008.35	1011.93	1013.60	1013.70	1013.95	1014.21
706.68	709.31	710.64	711.50	713.63	714.27	1015.29	1015.70	1016.40	1016.88	1017.81	1018.97
716.25	720.39	721.70	752.25	757.98	761.11	1020.90	1042.86	1051.07	1051.43	1051.84	1053.58
764.95	765.49	767.23	769.58	771.95	817.19	1053.97	1054.04	1054.49	1059.03	1077.53	1082.17
848.10	860.01	864.00	865.75	870.06	870.54	1107.94	1109.35	1111.85	1113.38	1115.04	1117.21
881.45	883.64	935.27	942.18	942.32	943.99	1117.77	1118.18	1119.54	1119.88	1122.10	1123.36
945.23	947.81	953.52	961.53	981.01	981.92	1123.73	1138.64	1177.03	1177.97	1199.43	1200.09
985.05	987.98	989.42	990.71	1002.34	1008.32	1201.88	1202.59	1202.88	1203.34	1206.28	1213.24
1011.71	1011.94	1012.39	1013.48	1013.99	1014.71	1219.97	1223.07	1225.16	1227.58	1229.24	1230.26
1015.37	1015.66	1016.83	1018.22	1020.66	1021.86	1234.87	1249.11	1261.82	1290.40	1325.32	1326.17
1023.22	1024.15	1048.36	1051.76	1052.52	1053.63	1327.24	1329.75	1335.96	1337.12	1337.61	1353.76
1054.19	1054.77	1055.17	1062.69	1082.21	1083.94	1362.01	1363.57	1368.61	1369.77	1370.80	1374.45
1107.05	1108.74	1111.41	1114.50	1115.67	1115.88	1395.90	1402.39	1470.41	1473.77	1474.61	1475.50
1117.40	1118.90	1119.31	1119.82	1121.18	1121.86	1476.48	1476.97	1478.87	1480.52	1480.83	1481.74
1124.74	1139.84	1166.51	1181.23	1200.89	1202.03	1495.52	1504.29	1511.98	1524.66	1526.62	1527.60
1202.25	1202.33	1203.42	1203.71	1207.85	1219.75	1528.09	1528.37	1529.76	1530.74	1625.79	1626.41
1221.82	1226.66	1226.76	1229.39	1230.10	1236.55	1627.58	1627.84	1629.83	1630.60	1643.38	1644.30
1237.16	1258.62	1263.78	1290.71	1322.58	1324.08	1644.79	1645.29	1645.65	1647.39	1665.16	1779.99
1327.67	1328.87	1331.57	1335.28	1336.56	1349.54	1882.69	2972.83	3010.63	3039.82	3041.36	3052.36
1363.84	1365.61	1366.56	1368.20	1368.61	1374.64	3061.45	3065.91	3113.67	3121.83	3127.20	3150.79
1396.24	1405.92	1468.11	1473.77	1474.29	1475.75	3154.98	3169.18	3178.71	3182.36	3182.92	3183.37
1476.02	1479.34	1479.85	1480.09	1480.63	1486.55	3185.23	3186.95	3187.65	3188.46	3191.07	3191.84
1497.06	1504.10	1505.87	1524.69	1526.18	1526.52	3192.20	3192.76	3196.63	3198.97	3199.73	3202.33
1527.60	1527.92	1528.27	1531.49	1625.30	1626.84	3202.79	3205.08	3209.32	3209.61	3210.62	3212.20
1627.08	1628.86	1629.47	1630.54	1642.90	1644.47	3213.74	3215.81	3225.14	3225.90	3227.59	3230.73
1644.96	1645.17	1646.10	1646.85	1662.32	1803.53	3230.74	3234.28	3245.15			
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8B-TS1											
						128.87	2.31	8.95	29.29	35.74	35.86
40.24	46.63	48.29	50.60	52.50	54.94	55.58	59.43	61.39	68.36	70.96	73.99
79.40	81.28	91.41	96.22	100.84	110.46	116.68	119.72	132.48	136.17	143.14	146.28
155.86	167.14	177.61	192.34	196.77	202.32	210.17	224.63	228.39	233.58	236.69	239.78
250.30	252.45	254.69	258.86	261.98	272.31	277.27	281.37	282.65	296.98	307.80	353.43
380.91	407.35	409.63	410.48	412.26	420.69	422.18	426.37	427.75	434.60	438.98	441.74
463.58	466.74	502.21	508.72	513.84	516.47	518.99	529.94	535.56	537.57	566.93	609.48
626.54	627.26	628.77	630.28	630.94	631.46	632.60	661.58	677.14	695.31	697.44	706.90





122.71	135.54	142.03	151.45	159.07	171.58	693.60	698.02	701.59	705.31	707.24	707.82
175.24	191.25	198.57	201.10	204.17	213.95	709.60	712.44	714.15	716.50	718.12	720.92
220.98	224.80	227.98	236.46	242.90	246.17	723.72	725.15	748.50	761.33	763.67	766.79
247.60	261.20	266.03	272.15	274.18	282.81	769.03	770.40	772.96	803.17	813.82	864.80
290.99	304.06	327.58	338.94	348.95	394.95	867.92	871.43	873.96	880.67	886.92	890.08
400.66	407.76	410.83	412.59	414.15	417.65	920.28	942.80	943.95	947.37	950.15	953.74
419.98	420.79	428.27	451.37	458.26	463.10	956.24	962.40	970.20	985.44	985.85	991.23
467.86	501.45	508.78	510.04	512.92	520.74	994.00	996.05	1001.42	1005.66	1007.23	1010.17
532.71	540.55	566.16	588.57	626.32	626.61	1012.26	1012.78	1013.56	1014.05	1014.66	1015.47
627.35	628.81	630.19	630.57	630.99	658.27	1016.41	1016.78	1018.81	1019.18	1020.80	1026.03
693.62	694.69	695.96	708.59	709.36	710.14	1037.28	1050.29	1050.85	1053.11	1053.25	1053.71
711.69	713.56	714.64	717.44	720.52	721.48	1054.63	1055.02	1075.96	1084.60	1107.62	1108.99
722.19	762.40	763.33	765.06	765.75	766.34	1109.78	1110.94	1111.55	1116.54	1117.21	1117.64
769.85	770.98	781.01	784.82	813.53	863.48	1119.00	1119.34	1122.07	1123.09	1124.95	1133.94
864.74	866.48	868.47	869.39	876.54	879.50	1155.25	1176.58	1179.98	1199.84	1200.65	1201.18
903.16	942.87	944.49	945.41	947.29	947.72	1202.95	1203.35	1203.79	1217.30	1219.42	1220.95
954.98	960.10	967.70	976.60	984.79	987.28	1222.33	1228.17	1231.42	1233.11	1233.91	1246.52
988.06	988.78	995.12	1002.06	1009.68	1012.47	1259.09	1293.16	1300.44	1320.58	1321.58	1323.78
1012.70	1013.18	1013.61	1013.97	1015.05	1015.88	1328.01	1328.79	1335.28	1336.74	1341.05	1360.37
1016.14	1016.79	1018.13	1019.31	1022.07	1028.65	1363.74	1366.47	1367.57	1370.22	1370.79	1375.05
1037.10	1045.98	1051.17	1052.03	1052.19	1052.87	1409.00	1423.60	1473.29	1473.55	1474.56	1475.37
1053.20	1060.99	1090.85	1094.85	1101.52	1111.13	1475.57	1480.10	1480.59	1481.01	1489.88	1492.55
1113.95	1114.71	1115.15	1115.46	1117.24	1118.06	1495.27	1501.30	1502.98	1522.72	1523.84	1524.81
1118.28	1118.93	1119.87	1120.35	1121.45	1132.75	1527.07	1528.11	1529.48	1531.19	1569.03	1624.64
1176.69	1200.94	1201.40	1201.80	1202.11	1202.27	1625.84	1626.94	1627.09	1629.61	1630.29	1639.35
1202.36	1204.80	1207.32	1213.54	1222.47	1223.05	1642.88	1643.62	1644.26	1644.87	1646.87	1647.30
1225.78	1226.75	1227.85	1229.24	1231.74	1255.17	1769.83	2969.72	3032.36	3035.16	3045.70	3076.49
1266.40	1289.31	1324.35	1324.69	1329.18	1331.66	3091.67	3092.27	3101.51	3126.38	3150.90	3166.18
1333.60	1334.19	1334.95	1349.18	1357.28	1364.28	3169.10	3184.93	3185.36	3185.54	3185.78	3185.98
1367.35	1367.80	1368.67	1370.03	1372.85	1395.72	3187.63	3188.02	3192.76	3192.84	3194.13	3194.44
1409.87	1412.64	1472.54	1472.94	1475.71	1477.07	3194.51	3194.83	3200.01	3201.12	3201.49	3202.25
1478.45	1478.83	1481.30	1483.54	1494.29	1496.28	3202.86	3203.25	3204.53	3207.55	3210.14	3211.31
1501.28	1505.39	1509.20	1524.28	1526.32	1526.63	3211.74	3212.92	3213.78	3223.02	3226.67	3227.79
1527.35	1527.47	1528.23	1528.46	1622.69	1624.15	3228.01	3229.64	3233.76			

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#### 9B-TS

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-301.01	2.49	22.90	28.27	34.18	45.69
47.70	49.42	53.31	57.79	60.24	63.50
67.41	71.00	72.39	76.26	79.04	79.60
85.10	93.65	96.16	105.30	112.54	115.91
119.10	129.15	130.58	135.76	141.44	162.51
165.77	181.61	195.97	199.78	213.77	216.44
221.23	224.49	229.54	237.78	239.32	257.35
258.56	261.84	262.93	270.69	274.25	280.48
287.87	311.27	316.70	327.51	368.21	384.14
407.75	411.01	412.07	419.42	423.49	427.71
429.96	431.71	432.59	440.75	447.14	461.16
471.99	472.40	486.36	499.13	505.24	519.40
528.17	534.84	544.26	562.32	590.77	616.08
627.26	627.34	628.95	630.12	631.50	632.66
676.09	693.75	697.63	705.98	707.90	710.17
710.70	712.36	714.99	715.79	716.89	720.35
722.92	723.72	736.91	759.60	762.10	766.82
768.96	771.50	773.76	781.08	804.44	845.58
862.25	865.12	870.44	870.81	880.24	885.32
930.29	940.64	944.40	949.14	951.06	955.42
960.33	966.47	974.82	985.32	990.22	990.71
991.24	993.80	998.91	1000.77	1004.52	1011.03
1012.02	1012.65	1013.90	1014.20	1015.05	1015.50
1017.72	1018.34	1019.30	1021.20	1026.30	1026.72

#### 9A-TS

-307.08	11.88	17.97	28.69	36.22	39.63
48.58	50.23	53.13	56.58	61.70	62.73
63.47	70.84	74.12	77.75	81.92	83.69
88.81	95.17	96.90	105.53	106.50	112.74
121.22	126.99	131.41	139.67	146.66	159.64
164.39	169.27	193.00	201.02	209.80	216.88
217.69	222.93	227.13	234.76	237.03	240.23
257.63	259.12	260.99	262.94	270.87	276.48
280.66	293.76	303.42	337.18	358.92	401.31
408.13	409.89	412.71	419.88	423.17	427.04
430.30	432.92	440.31	444.89	456.78	467.08
469.90	475.98	490.22	503.64	508.52	518.02
527.35	532.71	538.67	547.08	560.63	627.59
627.82	629.15	629.84	630.85	632.28	633.20



3195.05	3196.36	3196.97	3202.45	3204.94	3205.68		93.87	100.67	106.16	109.84	115.15	118.25
3206.03	3206.25	3206.41	3211.30	3211.95	3212.61		125.29	138.54	139.68	148.28	152.75	163.26
3212.88	3213.21	3213.29	3214.21	3223.73	3227.53		167.33	176.67	196.08	200.33	206.44	212.28
3228.19	3230.00	3232.33					221.36	229.99	232.36	238.12	242.91	253.12
<hr/>							259.31	262.05	266.49	280.45	282.00	288.82
10							292.54	307.81	324.58	353.49	381.00	408.28
<hr/>							412.38	416.73	421.31	425.36	427.37	428.35
9.44	26.47	27.45	37.11	40.95	43.63		432.69	435.22	436.85	443.41	464.67	469.05
49.56	53.44	55.97	56.95	60.66	63.90		474.23	487.63	502.70	508.65	517.59	522.64
68.36	70.81	76.84	77.46	83.78	89.25		531.93	540.79	571.68	588.04	628.25	629.09
97.51	102.94	106.49	108.97	111.64	120.78		629.64	630.75	632.32	632.70	633.29	687.54
126.95	143.16	146.71	154.36	163.61	170.50		694.17	696.70	705.99	708.62	710.81	712.81
178.53	189.20	197.25	203.43	207.16	210.23		715.78	717.75	718.74	720.83	723.93	729.49
220.19	228.11	239.48	242.35	247.13	253.38		732.85	760.85	765.27	767.41	771.01	772.06
257.31	262.34	266.15	271.53	280.51	288.51		772.42	779.11	789.50	824.96	865.55	870.37
314.43	327.56	354.31	367.87	408.16	411.17		874.07	880.43	882.99	886.25	896.21	911.46
413.52	415.08	416.93	419.24	422.47	425.07		926.05	942.14	946.36	950.14	953.53	958.58
433.23	441.14	445.25	451.64	459.17	465.44		964.06	966.03	985.23	988.15	992.96	993.90
477.91	495.24	505.18	513.69	517.44	521.16		999.06	1003.64	1005.01	1006.55	1012.27	1012.90
534.96	540.22	552.44	606.44	626.77	629.04		1013.12	1013.35	1014.42	1014.51	1016.12	1016.53
629.53	630.82	631.59	633.07	633.37	662.16		1018.42	1020.42	1021.58	1028.12	1029.56	1044.04
693.58	698.37	708.91	709.12	711.09	713.09		1047.53	1050.91	1052.67	1053.05	1053.25	1054.19
715.68	716.55	717.19	717.91	718.54	721.77		1077.13	1090.84	1107.48	1109.36	1110.57	1112.67
722.47	762.27	762.98	766.94	769.00	770.46		1114.32	1115.48	1115.86	1116.98	1118.10	1118.56
773.98	790.24	802.19	812.26	863.96	867.41		1120.91	1121.55	1122.88	1124.93	1164.50	1177.45
874.19	877.18	878.95	879.98	887.59	921.33		1183.84	1199.39	1199.79	1200.79	1201.12	1201.34
933.35	943.16	946.52	954.00	954.13	955.03		1202.96	1209.35	1215.69	1222.62	1224.28	1225.65
957.55	958.04	979.55	986.74	990.30	995.78		1227.63	1231.70	1234.55	1239.17	1241.68	1248.48
997.08	999.74	999.84	1003.38	1012.57	1013.39		1281.82	1308.75	1315.75	1323.81	1324.25	1327.81
1014.09	1014.37	1014.96	1016.26	1017.51	1017.56		1329.86	1332.60	1337.54	1345.11	1361.76	1365.12
1018.04	1019.09	1019.81	1020.92	1032.26	1050.94		1365.59	1367.94	1370.56	1371.30	1372.68	1380.26
1051.02	1051.95	1052.95	1053.56	1054.25	1055.55		1412.79	1428.19	1469.92	1472.98	1473.87	1476.39
1073.65	1079.14	1108.61	1111.68	1112.65	1114.30		1477.25	1479.43	1479.79	1482.36	1492.87	1494.21
1114.91	1116.02	1116.07	1117.24	1117.48	1118.50		1497.26	1502.71	1509.49	1523.34	1525.62	1526.26
1119.56	1120.33	1120.79	1123.31	1129.63	1176.16		1526.61	1527.05	1528.43	1531.34	1539.50	1572.66
1176.51	1196.27	1198.59	1200.43	1202.48	1202.81		1622.26	1624.07	1625.53	1626.24	1626.85	1629.30
1202.88	1203.59	1216.27	1223.22	1224.50	1226.34		1642.08	1642.50	1643.25	1643.51	1644.13	1644.46
1227.10	1228.36	1230.60	1232.62	1236.92	1256.48		1791.54	2992.26	3031.41	3038.79	3044.71	3052.01
1294.55	1305.38	1320.35	1323.56	1325.30	1327.63		3066.52	3088.79	3108.76	3112.83	3126.86	3150.14
1328.83	1329.87	1332.68	1335.57	1346.81	1361.05		3168.88	3178.22	3184.30	3185.24	3185.83	3186.09
1363.86	1365.98	1367.49	1371.45	1372.86	1397.86		3187.86	3188.53	3189.83	3191.99	3194.17	3196.33
1414.07	1421.10	1423.09	1472.66	1473.79	1475.60		3196.43	3197.07	3198.52	3200.60	3206.74	3207.51
1476.18	1479.30	1479.82	1481.63	1484.40	1493.83		3208.14	3209.97	3209.99	3211.20	3213.26	3214.09
1495.03	1504.08	1505.95	1510.63	1519.20	1524.64		3215.41	3216.70	3218.49	3220.72	3229.04	3231.21
1525.72	1526.48	1526.74	1528.97	1530.11	1540.01		3235.40	3255.65	3261.75			
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1624.34	1625.33	1626.90	1627.76	1628.73	1629.72		13					
1641.30	1642.74	1643.92	1645.09	1645.84	1646.71							
1756.66	2987.34	3005.37	3041.67	3056.08	3062.93							
3069.60	3107.42	3116.15	3120.40	3127.40	3149.94							
3156.42	3178.29	3183.52	3185.46	3186.09	3186.43							
3186.54	3186.57	3188.29	3192.31	3193.97	3194.15							
3196.24	3196.42	3198.41	3200.63	3202.68	3202.96							
3205.63	3207.69	3209.73	3210.04	3212.22	3213.02							
3213.33	3213.71	3218.62	3222.21	3223.11	3236.72							
3244.23	3246.09	3263.31										
<hr/>												
12												
<hr/>												
4.74	21.73	25.58	36.33	40.20	48.35							
50.05	52.85	54.94	58.08	60.14	63.20							
66.25	73.97	77.21	83.46	84.92	88.73							
							12.25	21.33	23.69	27.35	32.71	35.72
							38.25	40.88	44.58	47.47	49.57	50.20
							52.58	53.41	55.03	58.82	59.54	66.54
							70.10	72.70	76.33	80.23	82.86	87.92
							90.96	96.05	104.55	106.99	116.56	138.46
							142.01	144.91	146.63	161.84	163.17	165.90
							172.19	175.36	179.68	181.71	189.02	192.63
							194.47	199.37	205.38	208.81	214.40	218.47
							224.08	228.77	230.96	237.83	244.19	245.75
							256.60	263.40	265.55	280.67	283.02	286.93
							296.56	297.63	299.70	316.78	325.24	330.85
							343.68	353.90	381.28	397.80	403.62	415.31
							418.16	419.86	425.88	430.03	448.12	453.31

461.00	464.26	469.38	476.05	487.75	497.33		483.85	487.56	494.26	496.03	499.67	502.05
502.44	514.24	517.99	519.77	520.90	524.23		515.22	517.18	517.95	521.74	522.91	523.98
525.58	528.53	531.03	531.96	533.43	536.47		526.83	528.35	531.27	532.08	534.87	538.52
542.87	544.98	547.96	552.98	555.63	559.82		542.74	543.73	548.14	552.29	554.02	558.13
562.45	567.38	573.12	576.42	596.95	607.89		563.70	570.07	573.16	593.64	599.59	617.84
616.17	635.83	654.67	678.12	682.02	689.87		629.97	654.74	660.88	681.25	686.54	703.76
702.52	711.25	713.45	714.14	716.79	718.28		703.95	709.72	710.40	711.30	754.35	766.71
729.08	765.58	768.70	790.26	806.25	814.38		767.07	784.81	785.79	803.35	806.12	838.95
835.07	838.91	850.20	853.16	861.43	867.38		839.93	845.77	849.82	857.48	864.08	867.99
869.96	870.91	873.96	876.84	883.54	884.41		870.85	872.60	876.59	877.52	880.54	882.21
888.11	889.84	894.27	899.40	903.72	916.20		889.92	892.38	899.82	907.33	910.00	918.50
920.63	925.77	931.83	934.90	937.14	940.37		918.80	931.49	936.34	938.62	942.03	942.50
943.28	945.46	957.12	958.88	962.83	964.16		951.88	955.83	962.01	962.84	965.15	970.21
966.22	966.92	967.55	970.21	973.26	987.36		971.51	975.05	980.72	986.68	987.25	987.80
990.59	1003.79	1007.23	1010.14	1011.29	1011.93		994.25	998.04	1005.33	1005.48	1006.00	1007.17
1014.11	1014.52	1022.15	1022.60	1024.48	1025.35		1009.59	1019.02	1022.74	1022.92	1023.54	1024.02
1035.02	1046.02	1046.54	1047.61	1048.94	1057.88		1044.67	1045.44	1046.22	1048.78	1055.90	1058.04
1059.58	1063.25	1065.90	1066.30	1067.09	1067.28		1064.44	1064.67	1065.11	1065.58	1066.00	1066.36
1067.34	1068.42	1069.12	1075.64	1099.22	1140.47		1066.83	1067.39	1074.95	1083.14	1128.63	1140.34
1155.11	1160.60	1161.01	1163.93	1166.96	1174.61		1149.86	1158.84	1159.86	1162.59	1165.37	1167.59
1189.40	1190.14	1201.58	1203.10	1203.60	1204.31		1175.65	1188.59	1192.78	1200.22	1203.79	1203.97
1207.28	1208.71	1216.90	1242.40	1249.57	1259.45		1206.65	1207.30	1208.20	1213.23	1240.15	1243.02
1262.57	1283.07	1287.35	1289.13	1290.44	1294.94		1257.24	1257.44	1277.62	1285.21	1288.90	1291.00
1300.64	1306.40	1312.03	1318.82	1319.10	1321.00		1294.64	1301.52	1307.17	1319.07	1320.16	1323.12
1329.46	1339.18	1344.59	1357.31	1359.81	1360.39		1325.05	1333.52	1347.06	1352.42	1360.44	1361.21
1366.25	1367.74	1390.26	1391.19	1410.01	1411.19		1362.23	1362.62	1364.53	1386.37	1407.70	1409.54
1425.20	1426.35	1427.72	1429.02	1429.54	1431.13		1412.07	1422.84	1424.36	1425.48	1426.85	1428.69
1431.42	1431.66	1432.93	1453.55	1454.90	1457.85		1428.72	1430.75	1430.97	1431.12	1454.82	1454.98
1459.37	1462.36	1463.74	1464.32	1464.77	1466.25		1460.32	1461.63	1463.41	1463.67	1464.68	1465.05
1466.74	1467.47	1491.97	1497.01	1497.66	1497.95		1465.75	1465.99	1483.56	1492.28	1496.24	1497.17
1498.48	1498.87	1500.54	1501.17	1501.24	1501.99		1498.31	1499.40	1499.75	1500.32	1501.37	1501.64
1502.08	1502.23	1509.83	1510.39	1511.88	1512.83		1501.99	1502.48	1507.62	1508.99	1510.22	1510.57
1518.57	1520.64	1521.11	1522.21	1551.84	1552.54		1511.28	1516.08	1517.54	1518.96	1520.44	1552.59
1601.96	1606.89	1607.49	1634.02	1634.91	1636.42		1553.32	1602.84	1603.09	1633.08	1633.68	1635.26
1636.73	1641.44	1643.01	1648.06	1649.06	1650.39		1635.95	1638.12	1640.01	1647.69	1649.12	1649.62
1651.98	1673.92	1674.37	2058.08	2993.45	3035.64		1651.81	1674.16	1675.30	1746.54	2976.80	2981.69
3036.16	3037.17	3037.42	3038.50	3041.26	3041.31		3038.06	3040.72	3041.06	3041.10	3041.35	3042.12
3043.70	3046.85	3088.70	3089.12	3097.00	3097.73		3043.69	3043.77	3100.62	3102.51	3102.70	3102.94
3099.39	3099.56	3100.80	3100.95	3101.99	3111.45		3103.41	3104.73	3104.94	3106.42	3107.22	3111.55
3121.20	3125.48	3127.06	3128.57	3129.50	3129.50		3115.22	3123.00	3126.23	3128.80	3128.98	3129.28
3131.56	3144.09	3151.19	3152.36	3156.60	3166.33		3130.28	3130.32	3131.70	3150.31	3166.04	3167.18
3169.91	3170.16	3173.24	3176.27	3177.73	3178.28		3168.60	3169.55	3170.63	3171.79	3175.04	3175.34
3181.58	3182.42	3184.13	3186.29	3188.09	3192.61		3178.63	3181.40	3182.18	3185.35	3189.19	3190.44
3193.43	3204.30	3205.17	3206.58	3217.87	3217.89		3193.89	3199.81	3201.41	3205.67	3205.69	3206.84
3224.38	3228.59	3243.57	3243.82	3243.91	3398.26		3215.80	3225.18	3225.44	3225.88	3230.66	3272.48

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-299.10	9.31	16.92	22.63	26.30	29.60		12.94	16.98	18.72	22.94	23.62	28.47
32.95	36.22	41.48	43.38	46.42	47.88		31.82	34.04	34.76	36.35	39.42	43.20
49.13	52.34	56.14	59.03	61.05	61.96		43.25	44.21	47.72	50.65	60.34	64.77
64.38	64.73	68.79	69.66	75.04	75.91		66.66	67.70	69.33	73.20	78.81	80.82
81.43	90.52	100.13	102.07	106.97	111.69		86.94	88.33	94.93	96.65	108.91	123.34
114.91	142.38	146.92	151.92	156.68	166.78		139.99	144.69	149.28	158.35	162.67	167.25
170.06	174.28	176.17	185.17	188.90	189.92		175.12	176.12	188.51	189.80	191.97	193.67
196.32	197.76	201.65	209.49	220.12	222.40		195.81	198.81	212.77	217.14	221.87	222.93
223.01	232.62	234.31	237.66	243.31	248.31		227.65	229.08	233.86	236.89	243.00	251.07
253.07	253.78	280.81	283.54	287.68	294.79		252.65	258.60	280.32	284.57	286.92	294.12
297.01	307.70	321.84	325.55	326.48	342.71		295.37	312.64	318.22	323.60	342.42	347.10
357.10	402.79	405.64	414.96	421.98	429.24		397.39	400.98	413.33	416.62	428.78	448.02
434.99	443.51	452.40	460.52	464.05	468.90		450.03	454.91	469.82	474.23	475.41	484.39

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12.94	16.98	18.72	22.94	23.62	28.47
31.82	34.04	34.76	36.35	39.42	43.20
43.25	44.21	47.72	50.65	60.34	64.77
66.66	67.70	69.33	73.20	78.81	80.82
86.94	88.33	94.93	96.65	108.91	123.34
139.99	144.69	149.28	158.35	162.67	167.25
175.12	176.12	188.51	189.80	191.97	193.67
195.81	198.81	212.77	217.14	221.87	222.93
227.65	229.08	233.86	236.89	243.00	251.07
252.65	258.60	280.32	284.57	286.92	294.12
295.37	312.64	318.22	323.60	342.42	347.10
397.39	400.98	413.33	416.62	428.78	448.02
450.03	454.91	469.82	474.23	475.41	484.39

492.90	498.03	515.55	518.78	519.67	520.48		389.35	391.90	400.68	412.75	418.87	427.62
521.25	524.00	524.98	527.26	529.90	532.59		444.21	446.85	453.11	458.16	465.15	486.15
534.74	540.91	543.58	546.21	547.57	553.02		488.48	491.99	497.69	511.62	516.13	518.00
554.54	557.72	562.81	567.98	570.13	574.25		519.56	520.71	523.42	524.91	526.92	528.19
584.10	598.18	615.60	620.89	635.10	636.59		530.50	533.71	534.98	536.87	540.00	542.37
661.49	673.60	681.72	689.64	701.00	706.91		545.91	550.89	554.42	556.94	559.63	561.34
708.79	710.25	713.67	753.78	767.99	769.03		564.40	566.62	571.73	574.65	580.67	598.65
790.72	801.54	804.53	814.93	834.71	837.55		619.27	620.07	631.11	633.99	658.07	677.34
842.58	854.01	856.16	864.34	865.28	866.85		685.23	690.56	703.11	705.85	711.65	713.79
870.18	871.28	875.23	877.09	878.05	878.75		719.48	753.59	761.99	768.76	771.47	788.00
891.70	894.80	903.02	910.00	912.37	914.46		803.70	813.58	828.60	830.12	839.23	840.52
930.68	932.41	937.40	939.06	945.95	957.54		842.49	854.57	860.29	861.70	864.66	865.05
963.69	964.41	967.15	969.15	973.60	977.27		871.92	873.90	875.27	877.50	881.07	888.33
980.20	989.70	991.60	1004.67	1006.94	1009.46		891.29	894.92	900.43	907.32	909.30	930.20
1009.87	1011.82	1012.56	1014.18	1015.38	1020.88		931.15	932.44	934.42	939.27	948.62	958.28
1022.36	1024.04	1026.15	1044.86	1046.49	1046.57		963.21	965.79	966.50	969.01	970.09	971.48
1047.00	1057.32	1059.27	1060.87	1064.37	1065.25		974.24	984.52	988.03	991.55	1003.58	1003.79
1065.75	1066.81	1066.99	1068.17	1068.80	1068.89		1005.94	1012.09	1013.22	1016.32	1021.20	1022.50
1072.20	1076.53	1110.17	1130.71	1149.62	1154.75		1024.23	1024.27	1028.65	1030.51	1032.72	1044.37
1157.18	1159.95	1160.74	1162.83	1166.09	1175.65		1047.07	1052.49	1057.28	1058.25	1061.70	1064.64
1189.31	1201.59	1202.41	1204.79	1206.65	1207.07		1065.56	1066.46	1066.62	1069.52	1069.70	1070.87
1208.99	1209.33	1215.62	1222.91	1241.87	1251.52		1072.34	1073.67	1077.41	1088.82	1109.20	1118.73
1257.69	1259.51	1277.52	1285.44	1286.35	1287.62		1136.52	1138.35	1153.32	1156.81	1159.17	1164.43
1291.51	1295.37	1300.87	1321.88	1323.81	1324.31		1166.61	1167.56	1174.41	1174.72	1175.47	1188.97
1327.35	1327.92	1337.19	1342.68	1343.91	1360.94		1200.30	1203.57	1205.37	1205.56	1206.95	1208.81
1363.50	1366.22	1367.43	1392.12	1392.58	1409.36		1210.13	1211.63	1216.05	1229.09	1245.59	1250.88
1411.17	1427.22	1427.99	1428.75	1429.10	1430.34		1258.03	1260.77	1274.17	1284.18	1289.34	1290.42
1430.37	1431.01	1431.41	1432.09	1456.75	1457.82		1290.79	1295.19	1301.60	1302.41	1318.05	1321.40
1458.91	1460.93	1462.45	1463.72	1464.65	1465.07		1322.22	1326.35	1330.90	1348.68	1350.58	1351.03
1465.28	1466.85	1469.30	1494.79	1495.10	1495.67		1358.68	1361.38	1362.81	1363.31	1389.60	1395.04
1496.54	1496.78	1498.03	1499.05	1499.75	1500.88		1409.05	1409.86	1412.62	1427.49	1428.95	1429.88
1504.53	1505.11	1509.81	1511.52	1511.54	1512.29		1430.42	1430.57	1431.33	1433.59	1435.63	1451.63
1520.28	1520.33	1520.62	1522.88	1526.88	1548.80		1458.85	1461.24	1461.75	1464.44	1464.89	1466.15
1551.89	1595.19	1606.56	1634.41	1634.81	1635.35		1467.30	1467.76	1472.37	1473.96	1477.51	1478.78
1636.99	1641.66	1643.21	1643.47	1649.76	1650.34		1479.21	1485.66	1494.78	1496.75	1496.93	1497.43
1651.32	1652.48	1672.68	1673.83	2967.10	2992.83		1498.57	1499.28	1499.65	1501.76	1502.01	1502.73
3001.92	3011.85	3039.48	3040.22	3040.58	3040.93		1503.40	1507.91	1510.89	1513.26	1515.73	1517.04
3041.86	3042.06	3043.44	3044.94	3059.68	3097.39		1520.56	1520.72	1523.05	1528.07	1531.95	1536.89
3098.67	3100.13	3101.15	3102.13	3102.58	3106.34		1549.80	1551.36	1597.53	1603.52	1631.29	1634.16
3106.39	3107.37	3117.87	3124.22	3127.06	3129.37		1635.76	1636.67	1638.16	1639.86	1647.95	1650.23
3130.30	3130.81	3131.72	3133.42	3135.60	3147.83		1651.53	1651.88	1672.54	1674.97	1708.90	1786.28
3149.93	3171.40	3172.03	3172.61	3173.03	3179.92		2165.29	2725.55	2800.78	2848.39	2970.48	2994.63
3184.04	3184.64	3186.85	3188.16	3188.88	3190.01		3000.49	3001.42	3037.89	3038.73	3039.64	3041.05
3193.18	3193.85	3197.75	3198.84	3208.64	3209.74		3042.32	3046.69	3047.33	3054.40	3056.57	3066.38
3213.94	3216.24	3218.79	3224.26	3230.11	3231.70		3086.87	3089.29	3096.57	3099.63	3100.20	3100.84
112.12	117.80	122.30	131.80	133.96	143.39		3105.43	3108.32	3112.39	3121.30	3124.47	3125.45
150.25	153.61	155.51	159.01	162.89	166.39		3127.87	3128.73	3130.88	3130.91	3132.71	3148.03
172.30	179.51	182.93	184.84	188.61	193.21		3165.63	3169.58	3169.86	3169.88	3175.84	3178.75
196.23	199.82	202.42	207.54	211.21	221.90		3180.70	3180.87	3183.74	3186.79	3187.35	3188.90
223.95	229.59	233.57	235.26	242.06	247.08		3191.54	3192.06	3193.17	3194.51	3198.20	3199.41
249.45	251.11	259.96	264.91	270.45	274.91		3202.23	3206.81	3207.84	3217.60	3220.36	3225.58
276.82	282.25	288.29	290.83	292.66	302.84		3230.63	3234.05	3234.53			
309.54	314.30	327.08	335.06	341.79	345.25							

12.87	15.30	25.09	28.07	32.27	33.90
37.49	39.12	40.49	41.89	47.29	48.26
49.46	53.35	53.86	55.78	56.31	66.34
69.44	72.05	73.00	75.01	80.23	91.27
94.93	100.95	104.62	107.85	109.27	111.96
113.97	118.24	120.02	122.65	132.61	138.55



3162.74	3164.07	3164.65	3165.65	3167.32	3175.38		1651.47	1652.97	1673.08	1673.74	1676.09	1775.26
3175.60	3178.64	3181.07	3181.62	3182.10	3183.46		1896.86	2955.00	3000.72	3019.84	3027.93	3038.93
3184.59	3187.56	3191.93	3192.15	3197.94	3201.03		3039.34	3040.79	3041.58	3041.62	3041.76	3043.28
3206.89	3207.83	3209.63	3218.17	3220.17	3220.31		3045.93	3046.81	3054.28	3066.17	3099.95	3100.77
3224.16	3226.40	3232.67					3100.94	3101.66	3103.55	3105.02	3105.69	3106.21
<hr/>												
15A-TS2												
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-175.94	14.56	21.32	24.37	29.92	31.45		3111.70	3124.08	3124.56	3125.96	3128.23	3128.43
34.09	35.50	36.08	39.55	43.58	45.94		3128.66	3129.03	3129.30	3133.24	3133.77	3150.96
50.07	52.92	54.45	57.29	62.04	63.20		3150.97	3158.17	3166.42	3169.17	3170.83	3171.73
64.62	67.98	73.76	75.62	77.22	78.62		3178.39	3179.77	3181.23	3182.08	3182.84	3183.50
82.08	90.67	93.76	95.43	99.68	100.82		3183.55	3185.43	3189.89	3190.26	3191.27	3192.56
103.98	111.76	122.84	126.82	130.05	132.68		3196.92	3205.89	3206.91	3207.48	3216.11	3225.81
135.34	139.01	142.46	144.79	155.05	160.62		3229.13	3231.85	3237.73			
<hr/>												
15B-TS1												
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-319.48	10.62	16.13	18.92	23.34	28.11		-319.48	10.62	16.13	18.92	23.34	28.11
28.31	30.28	35.72	38.26	40.18	40.95		28.31	30.28	35.72	38.26	40.18	40.95
42.53	47.17	47.28	48.81	51.12	54.90		42.53	47.17	47.28	48.81	51.12	54.90
55.54	64.67	68.83	72.35	74.90	79.44		55.54	64.67	68.83	72.35	74.90	79.44
81.40	83.35	90.17	94.06	96.46	100.21		81.40	83.35	90.17	94.06	96.46	100.21
107.98	110.21	121.73	129.07	134.71	136.89		107.98	110.21	121.73	129.07	134.71	136.89
139.30	145.77	148.44	153.26	155.67	158.31		139.30	145.77	148.44	153.26	155.67	158.31
164.02	167.73	170.57	173.14	175.80	182.68		164.02	167.73	170.57	173.14	175.80	182.68
187.24	188.92	196.87	201.27	202.51	205.68		187.24	188.92	196.87	201.27	202.51	205.68
208.75	214.47	220.69	227.53	235.46	237.65		208.75	214.47	220.69	227.53	235.46	237.65
241.45	246.67	251.08	254.17	258.35	267.14		241.45	246.67	251.08	254.17	258.35	267.14
269.67	278.07	282.75	287.29	290.48	292.24		269.67	278.07	282.75	287.29	290.48	292.24
301.34	309.20	319.88	326.55	329.88	344.29		301.34	309.20	319.88	326.55	329.88	344.29
396.04	397.10	399.59	413.33	419.17	431.67		396.04	397.10	399.59	413.33	419.17	431.67
444.08	446.84	448.32	449.86	456.57	464.20		444.08	446.84	448.32	449.86	456.57	464.20
483.12	485.56	490.33	496.57	501.29	517.04		483.12	485.56	490.33	496.57	501.29	517.04
519.14	520.13	520.53	524.79	526.37	526.94		519.14	520.13	520.53	524.79	526.37	526.94
527.65	532.15	532.99	535.29	537.59	545.99		527.65	532.15	532.99	535.29	537.59	545.99
549.38	553.43	556.28	559.69	561.00	563.76		549.38	553.43	556.28	559.69	561.00	563.76
565.65	569.71	573.88	576.99	597.95	599.80		565.65	569.71	573.88	576.99	597.95	599.80
620.26	623.23	634.21	649.91	657.55	676.91		620.26	623.23	634.21	649.91	657.55	676.91
686.35	690.79	703.51	706.33	711.61	713.78		686.35	690.79	703.51	706.33	711.61	713.78
716.70	757.66	762.38	768.00	771.05	789.83		716.70	757.66	762.38	768.00	771.05	789.83
805.19	814.22	827.04	833.16	837.16	841.03		805.19	814.22	827.04	833.16	837.16	841.03
853.79	858.43	863.38	864.74	866.74	872.79		853.79	858.43	863.38	864.74	866.74	872.79
876.02	877.35	877.72	882.03	885.30	888.49		876.02	877.35	877.72	882.03	885.30	888.49
894.38	895.97	902.42	906.27	911.83	924.17		894.38	895.97	902.42	906.27	911.83	924.17
926.37	930.34	934.63	938.91	950.34	958.40		926.37	930.34	934.63	938.91	950.34	958.40
961.05	964.13	965.26	968.08	968.25	971.81		961.05	964.13	965.26	968.08	968.25	971.81
976.18	982.94	993.69	1002.82	1004.59	1006.22		976.18	982.94	993.69	1002.82	1004.59	1006.22
1009.49	1010.87	1013.20	1013.76	1014.15	1023.85		1009.49	1010.87	1013.20	1013.76	1014.15	1023.85
1024.46	1024.85	1025.22	1026.47	1045.47	1046.91		1024.46	1024.85	1025.22	1026.47	1045.47	1046.91
1048.17	1048.82	1049.49	1055.52	1057.85	1058.47		1048.17	1048.82	1049.49	1055.52	1057.85	1058.47
1064.28	1064.50	1065.32	1066.16	1066.70	1067.07		1064.28	1064.50	1065.32	1066.16	1066.70	1067.07
1069.26	1069.81	1070.49	1072.61	1078.71	1093.89		1069.26	1069.81	1070.49	1072.61	1078.71	1093.89
1136.37	1136.94	1155.01	1157.43	1161.33	1165.27		1136.37	1136.94	1155.01	1157.43	1161.33	1165.27
1168.50	1169.19	1172.40	1174.10	1176.09	1188.56		1168.50	1169.19	1172.40	1174.10	1176.09	1188.56
1199.47	1203.16	1204.00	1204.41	1204.97	1206.56		1199.47	1203.16	1204.00	1204.41	1204.97	1206.56
1209.95	1211.59	1214.05	1224.10	1244.27	1251.86		1209.95	1211.59	1214.05	1224.10	1244.27	1251.86
1255.28	1258.19	1269.01	1287.74	1290.08	1292.45		1255.28	1258.19	1269.01	1287.74	1290.08	1292.45
1292.75	1294.66	1301.43	1309.74	1317.06	1320.06		1292.75	1294.66	1301.43	1309.74	1317.06	1320.06
1320.81	1326.96	1331.11	1349.92	1353.17	1354.50		1320.81	1326.96	1331.11	1349.92	1353.17	1354.50
1357.56	1359.83	1364.23	1364.63	1390.35	1398.33		1357.56	1359.83	1364.23	1364.63	1390.35	1398.33
1408.29	1409.56	1411.06	1425.72	1426.41	1429.21		1408.29	1409.56	1411.06	1425.72	1426.41	1429.21
1429.73	1430.57	1430.90	1431.34	1432.20	1434.24		1429.73	1430.57	1430.90	1431.34	1432.20	1434.24
1454.75	1460.23	1462.73	1463.22	1464.51	1464.76		1454.75	1460.23	1462.73	1463.22	1464.51	1464.76

1465.72	1465.86	1467.10	1467.20	1478.14	1480.20
1484.13	1488.43	1491.81	1494.83	1495.67	1496.95
1497.96	1498.66	1499.14	1501.94	1502.13	1503.74
1505.46	1508.66	1509.41	1510.62	1511.50	1512.16
1514.65	1520.67	1521.00	1521.21	1522.13	1531.07
1548.30	1551.11	1598.47	1602.60	1635.37	1636.13
1637.07	1637.38	1637.72	1638.74	1649.81	1650.14
1650.88	1652.71	1653.03	1671.34	1672.00	1783.38
1865.29	2961.56	2986.46	3007.70	3030.83	3035.96
3038.55	3040.82	3041.10	3041.40	3041.84	3042.83
3046.14	3060.98	3065.22	3095.32	3097.94	3098.81
3100.34	3100.58	3102.06	3102.87	3104.22	3106.58
3110.68	3111.42	3121.70	3124.61	3125.33	3125.70
3126.79	3127.85	3128.28	3130.88	3139.20	3146.25
3166.82	3167.52	3168.46	3172.77	3179.54	3179.93
3180.45	3180.93	3183.45	3183.96	3184.34	3185.83
3187.67	3191.63	3191.76	3192.68	3193.40	3195.78
3200.76	3206.59	3206.92	3208.07	3217.74	3221.83
3225.07	3227.40	3230.27			

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-198.89	16.77	21.78	23.49	25.95	31.73
32.64	34.85	35.35	41.62	44.78	47.01
53.19	56.11	58.64	59.65	60.22	65.04
68.82	70.64	72.03	77.40	81.43	82.16
89.35	93.40	93.91	100.00	101.27	106.56
110.09	111.60	119.07	125.28	127.85	134.88
135.06	140.22	150.67	151.99	162.24	163.80
166.05	174.02	178.25	185.72	187.99	194.87
195.75	200.65	205.75	208.45	212.62	219.49
222.59	226.61	230.11	239.76	241.07	244.42
247.36	250.20	254.17	259.74	261.12	269.46
282.29	286.37	289.31	293.29	299.06	307.75
315.98	328.13	334.66	342.54	345.96	375.27
389.53	393.94	408.18	413.08	420.87	429.40
440.44	446.05	451.74	460.12	460.97	466.12
476.80	483.66	485.25	497.07	499.28	515.65
516.22	517.54	519.14	520.75	526.23	527.64
529.76	529.94	534.39	534.61	540.99	541.85
546.47	548.57	551.32	556.21	558.69	563.31
564.92	568.94	571.01	579.87	600.75	602.89
621.94	636.08	639.46	658.49	668.31	687.51
691.51	703.39	707.87	712.23	715.05	719.12
726.77	758.21	763.95	768.27	769.29	791.26
805.39	814.98	820.67	841.56	842.67	846.43
851.74	853.88	856.81	859.81	863.68	868.84
871.88	874.15	878.71	878.76	884.47	887.70
893.24	894.81	898.21	915.20	916.68	926.35
931.25	937.62	939.29	941.66	942.24	955.05
958.81	961.80	964.33	966.15	967.11	970.49
971.74	978.52	989.23	1002.16	1003.84	1005.53
1005.74	1011.63	1012.12	1013.42	1014.89	1017.13
1024.20	1024.70	1028.07	1033.51	1033.63	1043.90
1045.15	1047.60	1052.26	1056.08	1057.35	1060.76
1064.51	1064.84	1065.32	1066.00	1066.85	1067.24
1069.50	1070.05	1076.24	1076.98	1091.34	1099.64
1119.40	1136.34	1139.88	1158.21	1161.15	1164.70
1168.42	1169.84	1173.92	1174.18	1182.77	1187.90
1199.81	1202.70	1204.37	1205.86	1206.74	1209.31
1210.03	1211.73	1216.65	1224.65	1242.75	1256.74

1257.89	1264.57	1270.28	1288.45	1289.76	1291.27
1292.98	1295.66	1301.62	1308.19	1316.55	1319.36
1321.65	1326.00	1329.94	1341.36	1347.57	1349.41
1357.49	1362.05	1363.06	1363.51	1387.24	1391.40
1408.47	1410.47	1410.93	1426.09	1428.03	1428.43
1429.60	1430.12	1430.28	1430.37	1431.56	1453.14
1459.65	1461.29	1462.71	1463.13	1464.44	1465.20
1466.58	1466.97	1466.98	1468.05	1471.00	1473.29
1478.02	1484.86	1493.24	1496.61	1498.24	1499.55
1500.27	1501.68	1501.85	1502.66	1503.09	1503.36
1505.72	1505.99	1507.40	1509.32	1511.91	1513.75
1517.12	1520.65	1521.21	1522.37	1524.30	1531.59
1550.98	1554.14	1603.05	1603.92	1631.35	1635.11
1636.46	1638.19	1639.06	1645.40	1645.62	1649.75
1650.60	1651.05	1672.69	1674.70	1689.37	1784.93
1909.86	2806.96	2870.95	2910.44	2970.37	2987.44
3031.68	3036.01	3038.87	3039.25	3039.85	3040.64
3040.73	3043.91	3047.38	3066.29	3093.13	3094.14
3097.38	3097.41	3101.67	3102.59	3105.64	3113.11
3114.50	3117.93	3118.65	3121.78	3122.59	3124.82
3125.24	3125.61	3125.80	3128.59	3129.02	3143.73
3147.97	3165.29	3169.70	3170.80	3173.41	3176.50
3177.24	3178.02	3179.62	3179.70	3181.17	3182.74
3184.20	3189.66	3191.24	3195.04	3196.23	3196.50
3205.42	3206.96	3211.03	3211.86	3216.28	3223.94
3231.17	3234.63	3235.73			

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6.45	15.75	21.35	26.50	30.79	34.78
39.27	40.24	40.41	43.34	44.46	47.24
48.51	51.17	51.81	53.37	54.30	55.99
60.85	62.50	66.54	70.86	73.74	75.99
80.99	84.85	91.94	95.25	97.85	100.66
105.09	108.54	115.66	118.97	127.19	131.24
139.75	142.83	153.53	158.27	161.60	167.58
168.46	170.20	178.03	180.88	188.41	191.42
192.03	194.93	198.15	198.88	199.81	206.51
214.99	220.61	225.82	229.83	230.79	239.42
240.00	246.49	253.61	256.35	260.05	269.18
282.67	286.59	292.68	293.11	296.49	319.58
321.86	324.04	330.62	339.79	367.72	389.42
393.76	409.05	410.76	414.74	425.95	430.18
446.26	450.10	455.56	460.48	463.14	477.09
486.51	491.89	496.14	509.78	510.86	516.08
519.57	520.02	521.02	522.48	524.12	526.97
530.69	532.75	533.47	534.48	536.01	544.31
546.60	547.49	549.42	556.95	559.14	565.14
569.39	571.81	594.63	604.44	616.23	628.09
633.44	644.22	644.64	675.47	682.70	698.32
703.98	705.61	706.83	708.10	709.09	717.23
756.03	765.16	769.36	778.23	785.70	803.35
807.94	810.47	837.94	839.15	842.50	849.36
852.80	855.89	863.21	868.59	871.58	877.47
879.58	880.10	885.52	890.47	895.17	900.71
902.49	911.62	914.50	927.81	929.79	934.61
937.91	940.87	943.42	944.17	949.86	956.68
957.34	960.67	962.23	962.96	964.74	969.15
972.42	987.18	989.87	999.27	1005.03	1006.52
1007.46	1010.28	1011.00	1012.52	1015.88	1021.28
1022.77	1023.85	1025.32	1038.53	1044.78	1045.70

1046.20	1047.02	1050.07	1050.58	1057.31	1063.81	875.02	883.02	889.38	889.97	891.12	896.05
1064.28	1065.76	1065.90	1067.82	1068.08	1068.16	903.79	904.29	919.25	930.64	932.30	935.52
1069.15	1072.59	1073.87	1087.35	1104.84	1116.87	942.31	944.20	946.40	950.45	955.18	958.19
1136.37	1142.68	1159.07	1159.72	1160.90	1167.89	963.79	964.33	965.46	969.01	970.24	975.96
1170.86	1174.60	1175.37	1179.22	1188.04	1200.44	976.52	990.86	992.90	1003.81	1007.53	1010.36
1203.65	1203.74	1206.02	1207.56	1208.80	1214.29	1011.22	1013.72	1014.47	1014.63	1021.46	1022.95
1214.42	1222.06	1239.11	1242.52	1253.42	1257.60	1024.79	1025.77	1027.66	1035.60	1044.68	1046.19
1267.82	1279.03	1284.67	1287.42	1290.97	1292.14	1046.39	1047.72	1047.99	1058.21	1061.73	1065.36
1292.68	1293.30	1298.50	1316.50	1321.32	1322.89	1065.50	1066.35	1067.09	1067.35	1068.26	1068.95
1324.04	1325.81	1334.94	1346.58	1351.10	1359.46	1070.84	1073.75	1076.93	1100.35	1129.79	1131.69
1362.61	1363.36	1364.33	1367.73	1386.46	1407.67	1134.55	1146.22	1161.69	1162.44	1164.96	1167.02
1407.87	1410.41	1421.70	1425.87	1425.91	1427.10	1168.55	1172.99	1176.34	1178.61	1183.43	1189.06
1427.82	1428.85	1429.22	1430.39	1430.75	1431.48	1202.36	1203.93	1206.14	1206.27	1208.28	1210.12
1452.69	1455.46	1457.01	1460.03	1461.12	1461.93	1217.21	1217.78	1224.50	1240.86	1250.85	1257.42
1463.62	1465.07	1466.61	1467.27	1479.10	1485.80	1262.31	1275.10	1281.54	1282.62	1284.79	1290.24
1493.16	1493.56	1494.21	1496.01	1496.41	1496.50	1290.33	1292.48	1298.87	1319.63	1320.27	1327.20
1496.94	1497.55	1498.08	1499.24	1502.80	1503.49	1327.59	1330.47	1332.77	1343.49	1344.76	1355.15
1504.82	1506.32	1506.72	1507.21	1508.73	1510.73	1359.50	1360.03	1363.17	1366.87	1389.42	1401.57
1511.85	1518.06	1518.48	1520.77	1521.41	1526.34	1408.93	1413.64	1414.41	1427.51	1428.20	1429.02
1547.81	1550.33	1595.93	1600.69	1607.72	1634.05	1429.42	1430.42	1431.16	1431.38	1431.51	1432.60
1634.79	1635.69	1636.94	1638.51	1639.46	1645.78	1453.14	1457.44	1458.17	1459.27	1462.34	1464.41
1648.59	1650.71	1651.28	1655.29	1674.38	1674.61	1465.22	1465.52	1467.22	1467.74	1476.22	1479.51
1775.55	3002.69	3024.65	3030.46	3038.07	3040.36	1483.48	1490.45	1493.33	1493.86	1494.04	1496.71
3040.68	3040.98	3041.64	3042.17	3042.36	3050.22	1497.38	1498.22	1499.72	1500.34	1500.53	1500.59
3062.73	3070.32	3086.82	3100.00	3100.77	3101.55	1501.15	1502.94	1507.27	1510.23	1510.48	1512.02
3102.60	3103.07	3103.24	3105.41	3110.69	3117.49	1512.54	1518.72	1520.14	1522.70	1523.06	1525.22
3119.03	3123.05	3123.41	3124.65	3126.07	3128.14	1547.82	1550.93	1580.06	1602.50	1607.22	1626.78
3128.40	3128.52	3129.37	3131.58	3131.90	3135.71	1633.61	1634.39	1636.80	1639.09	1639.85	1642.75
3156.97	3157.65	3167.12	3168.29	3169.71	3170.51	1648.53	1649.65	1650.18	1651.47	1674.00	1674.58
3175.54	3180.78	3181.24	3181.83	3183.44	3185.12	1787.83	2961.65	2995.32	3037.29	3037.62	3037.77
3188.47	3191.55	3191.63	3194.70	3199.91	3205.80	3039.62	3040.55	3041.25	3042.05	3043.98	3046.56
3206.16	3208.86	3214.04	3218.36	3224.99	3230.96	3061.90	3079.55	3094.49	3095.96	3098.62	3099.76
3233.82	3238.53	3254.16				3099.91	3101.51	3102.03	3105.26	3110.37	3114.97

## 16B

4.18	13.05	15.88	23.04	28.76	31.71
37.01	38.56	40.07	41.34	42.66	47.41
50.89	52.54	53.16	55.01	56.89	58.51
60.36	61.60	67.14	69.35	71.27	74.87
79.72	86.53	94.95	98.17	99.92	102.03
103.47	112.80	116.88	127.05	132.75	134.67
140.59	144.63	158.80	159.86	162.37	167.72
171.57	174.70	178.46	187.29	191.72	193.49
195.12	196.87	199.61	201.42	210.11	218.47
221.21	228.19	233.91	237.03	243.41	246.34
252.45	264.39	269.69	275.29	282.02	285.91
286.82	291.86	293.15	298.06	304.11	308.29
324.76	328.84	344.60	346.35	372.00	379.46
392.30	397.99	404.80	414.81	423.40	430.29
437.85	449.01	450.02	453.61	459.92	470.36
471.63	489.43	498.29	504.31	506.87	516.61
517.75	521.03	521.79	524.64	526.33	528.31
530.84	532.37	533.80	535.40	537.96	547.51
549.48	553.71	555.79	558.96	562.88	565.72
569.71	576.47	592.11	604.21	610.03	611.83
632.82	647.17	664.05	668.81	684.32	702.48
706.84	708.62	711.31	716.29	722.24	723.65
764.83	768.85	769.54	773.27	784.15	804.17
806.74	832.82	834.31	837.99	840.86	843.94
852.04	856.97	857.92	869.50	871.56	872.89

## 18A

12.81	19.04	23.29	24.77	31.78	32.38
32.85	36.08	37.47	39.29	42.23	49.02
51.97	52.63	54.72	55.89	59.93	64.56
66.25	69.76	71.50	72.63	74.72	78.59
80.16	84.95	88.23	92.37	93.16	97.10
103.87	109.69	119.29	122.93	125.02	144.82
150.80	155.66	160.11	167.11	171.31	173.88
176.93	178.39	184.65	188.65	191.87	194.97
198.41	203.98	204.37	213.46	218.43	221.77
227.98	231.58	233.98	235.68	239.42	243.77
246.69	252.78	256.42	259.24	267.59	281.41
283.46	285.74	289.40	295.40	296.83	306.38
311.10	318.07	337.85	341.56	361.25	391.19
396.29	400.77	411.40	416.14	424.07	438.38
444.92	449.56	453.61	462.79	465.45	485.25
489.00	491.55	493.94	499.43	505.49	518.15
518.44	520.01	522.30	523.46	524.72	525.89
526.84	528.44	534.41	536.89	542.50	542.82

546.22	555.88	559.02	561.39	563.09	564.43		283.82	288.64	295.99	296.77	302.46	306.41
568.53	574.41	601.15	609.28	619.03	621.83		310.64	328.03	336.39	341.94	357.06	390.97
631.59	657.43	660.52	686.63	689.02	691.49		396.51	401.95	413.45	418.13	420.80	424.69
699.81	704.38	705.52	705.98	709.11	713.28		447.05	449.57	454.12	463.15	466.53	467.75
765.69	769.57	774.90	784.80	788.85	804.22		485.18	489.19	490.45	500.97	508.57	517.59
806.19	812.12	829.57	840.84	848.65	851.51		518.27	518.55	520.46	523.64	523.85	525.33
853.28	860.32	860.94	863.78	865.09	868.23		526.27	529.80	535.86	537.02	543.09	544.22
871.14	876.24	876.87	879.28	880.70	892.97		548.88	555.83	558.99	559.45	564.69	565.01
895.65	899.25	905.85	912.43	917.18	929.61		568.17	576.57	602.30	608.24	622.82	623.89
937.50	940.42	941.96	947.23	951.50	957.66		631.88	659.16	686.99	688.28	690.01	701.88
960.28	965.48	966.54	971.02	972.07	975.09		705.39	706.01	706.21	708.56	713.63	746.34
985.42	997.53	999.59	1001.71	1004.70	1006.68		765.13	768.79	769.94	788.50	789.02	804.20
1008.22	1009.99	1013.03	1013.38	1015.63	1023.47		810.30	812.19	841.95	847.81	848.95	852.37
1023.83	1025.36	1026.88	1031.50	1041.60	1043.33		854.37	861.12	863.07	865.73	867.64	871.24
1046.55	1047.22	1047.62	1056.61	1060.71	1063.52		872.64	876.78	878.11	878.97	881.10	892.74
1064.66	1066.60	1066.89	1067.58	1068.04	1068.66		895.21	902.84	907.25	912.31	915.42	930.44
1070.59	1072.12	1075.87	1079.26	1102.85	1133.92		934.53	937.91	939.22	942.82	952.52	958.44
1134.59	1157.14	1158.66	1160.07	1161.63	1165.89		960.95	965.44	966.81	970.46	971.06	973.63
1167.18	1175.35	1178.54	1188.74	1199.47	1205.84		985.79	997.87	1000.64	1002.67	1006.17	1006.77
1207.90	1208.10	1209.24	1210.15	1210.74	1213.40		1009.48	1013.22	1014.39	1015.50	1023.05	1023.75
1214.77	1220.98	1240.60	1244.97	1257.05	1258.17		1024.11	1024.29	1025.26	1033.06	1041.77	1043.66
1262.43	1285.23	1290.07	1291.02	1291.63	1295.48		1046.56	1046.65	1054.50	1055.76	1059.14	1063.07
1302.42	1303.85	1311.98	1317.87	1320.61	1321.07		1065.15	1065.46	1065.88	1066.50	1067.59	1068.37
1325.52	1330.77	1346.63	1357.37	1357.82	1359.10		1068.70	1070.77	1075.50	1089.30	1114.18	1134.48
1360.00	1362.05	1366.78	1379.36	1386.88	1405.49		1136.52	1160.82	1162.60	1164.26	1169.23	1170.33
1408.35	1411.30	1415.54	1425.84	1425.89	1427.89		1175.27	1177.24	1187.95	1198.84	1204.85	1206.85
1428.78	1429.16	1429.35	1430.56	1431.59	1432.74		1208.90	1209.53	1209.57	1209.98	1210.53	1214.34
1435.48	1454.82	1456.60	1460.13	1460.68	1462.39		1215.61	1231.69	1244.18	1251.88	1256.16	1257.37
1463.50	1464.60	1467.19	1468.44	1468.86	1475.96		1283.87	1288.23	1291.47	1292.13	1292.64	1294.91
1481.34	1490.53	1493.44	1497.17	1497.44	1498.20		1300.16	1301.78	1318.10	1318.84	1320.42	1322.91
1499.90	1500.22	1500.44	1501.27	1501.77	1502.28		1325.87	1345.63	1356.84	1358.90	1360.04	1362.34
1502.95	1506.88	1507.55	1510.24	1510.81	1513.10		1362.88	1365.55	1371.72	1383.12	1385.05	1407.43
1514.63	1516.98	1517.63	1521.60	1524.70	1530.63		1410.54	1415.71	1419.50	1425.37	1426.04	1426.81
1550.94	1553.39	1596.71	1602.36	1632.80	1633.93		1428.49	1428.89	1429.07	1430.60	1431.03	1431.36
1635.81	1636.11	1637.93	1639.28	1648.56	1649.48		1456.35	1456.97	1461.12	1461.64	1462.32	1465.29
1650.42	1651.41	1673.09	1673.76	1674.65	1688.66		1465.60	1466.34	1467.44	1468.81	1482.77	1488.56
1781.69	2886.45	2996.87	3004.30	3017.12	3025.78		1494.34	1496.82	1497.05	1497.76	1499.20	1499.93
3032.56	3035.53	3038.71	3039.04	3039.37	3041.73		1500.70	1501.74	1502.13	1502.39	1502.62	1503.03
3042.83	3043.98	3047.36	3063.80	3086.09	3086.83		1503.40	1503.85	1507.45	1509.65	1510.35	1511.88
3097.48	3097.55	3100.77	3101.42	3101.78	3103.71		1514.87	1518.30	1518.83	1520.64	1521.92	1533.42
3106.56	3112.81	3113.62	3125.25	3126.72	3128.02		1549.09	1553.10	1595.18	1601.48	1609.89	1634.83
3129.73	3131.22	3132.62	3132.97	3133.59	3138.50		1635.07	1636.28	1637.74	1638.34	1639.01	1648.96
3144.79	3154.06	3154.18	3170.28	3172.05	3174.12		1649.95	1651.41	1652.28	1671.84	1674.43	1685.65
3174.50	3175.95	3176.62	3180.90	3182.09	3183.59		1691.74	2969.39	3004.54	3023.50	3029.65	3032.65
3185.49	3186.06	3191.11	3193.62	3199.25	3202.25		3034.95	3035.48	3039.36	3039.93	3040.29	3041.19
3203.88	3206.39	3208.47	3209.23	3212.86	3219.71		3043.16	3047.47	3048.82	3051.31	3074.29	3082.24
3222.49	3226.64	3233.87					3094.51	3095.10	3096.34	3098.19	3101.07	3102.01

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18B

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12.27	14.34	18.00	21.86	25.37	28.38
34.89	36.32	39.34	41.69	43.98	47.06
47.83	51.64	55.63	61.56	64.71	64.90
65.35	70.63	71.99	72.59	75.85	79.32
80.52	84.41	88.65	93.34	96.00	105.39
109.36	115.15	119.86	125.22	138.03	144.10
152.73	156.08	158.97	161.30	166.43	170.44
171.40	175.91	177.78	181.12	186.16	191.91
193.14	198.28	203.50	204.37	210.82	218.20
223.81	225.91	230.90	231.66	237.59	237.92
240.65	251.31	255.08	255.86	258.34	280.27

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16A-TS

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-322.35	4.71	14.71	27.09	30.44	34.10
38.56	40.46	44.32	46.82	50.88	53.18
54.57	56.41	59.31	66.29	67.72	69.15
73.94	75.49	76.65	78.22	80.24	88.69

91.11	93.34	96.24	97.28	101.92	107.98
109.62	113.47	118.48	124.48	125.80	140.51
146.61	149.14	153.91	160.60	162.71	166.58
172.39	175.52	178.08	185.74	193.53	193.69
195.38	198.54	204.60	205.82	206.30	209.91
222.98	226.65	229.51	234.58	238.10	241.53
246.19	255.86	265.18	270.23	277.45	283.53
286.29	297.46	299.01	304.83	306.15	319.51
322.77	326.49	336.52	341.55	362.79	383.59
397.95	401.57	414.27	417.35	424.78	429.17
445.77	451.02	452.40	461.25	465.64	481.99
486.09	487.38	494.94	496.84	504.43	514.59
519.17	519.85	521.61	524.51	526.74	527.79
531.05	533.01	537.34	542.21	544.57	546.25
548.66	549.97	551.31	552.76	556.75	561.05
563.26	564.20	567.44	573.85	597.11	617.94
633.22	640.19	652.22	679.92	689.73	705.26
705.82	708.28	712.45	715.76	719.53	725.32
766.12	767.87	769.13	777.94	788.75	803.96
804.95	813.92	831.71	837.78	845.67	856.01
860.32	864.85	868.80	870.05	872.06	875.10
877.26	881.19	883.42	887.93	890.27	892.97
904.46	907.99	919.28	927.50	929.23	933.72
939.01	945.30	949.16	955.55	957.93	959.48
962.39	963.06	968.25	969.65	971.86	972.74
984.29	985.44	986.82	991.45	1005.25	1005.80
1009.90	1012.43	1013.69	1013.94	1015.48	1022.65
1024.03	1024.51	1025.11	1025.30	1039.10	1044.94
1046.58	1047.09	1049.25	1055.72	1059.37	1063.61
1065.00	1065.36	1065.38	1066.02	1067.32	1068.49
1069.96	1072.75	1075.94	1080.95	1103.40	1108.27
1141.26	1152.84	1156.60	1158.09	1162.35	1164.51
1166.40	1169.39	1174.71	1181.39	1189.74	1201.44
1203.81	1204.16	1204.61	1207.08	1208.18	1216.40
1216.66	1217.35	1238.77	1244.01	1251.19	1259.27
1262.73	1272.58	1284.69	1289.35	1291.31	1291.70
1292.15	1295.22	1301.33	1316.75	1318.03	1318.89
1321.74	1323.21	1339.55	1346.49	1350.07	1359.17
1360.02	1360.54	1361.99	1368.32	1391.06	1412.24
1412.32	1412.51	1416.79	1423.66	1423.98	1426.52
1426.79	1427.76	1427.90	1430.81	1430.90	1434.22
1451.96	1455.42	1460.31	1463.05	1463.76	1464.60
1465.58	1465.90	1466.12	1468.84	1472.78	1481.08
1487.48	1488.56	1493.92	1494.90	1496.71	1498.17
1498.61	1499.85	1500.62	1500.91	1501.80	1502.27
1502.49	1503.88	1506.00	1508.30	1509.82	1510.78
1511.13	1518.00	1518.45	1520.93	1523.94	1528.91
1542.55	1552.39	1553.45	1601.58	1607.12	1618.06
1630.37	1633.55	1636.96	1638.41	1641.73	1642.95
1645.99	1648.07	1651.16	1651.75	1674.31	1674.90
1750.44	3026.91	3032.67	3035.77	3035.86	3038.90
3040.19	3040.92	3041.08	3042.34	3044.38	3045.03
3052.81	3059.07	3070.87	3092.52	3097.68	3098.61
3101.63	3103.68	3104.13	3105.50	3106.66	3107.74
3110.25	3121.91	3125.59	3125.60	3127.37	3128.24
3128.31	3129.04	3129.54	3130.62	3157.17	3159.47
3162.46	3165.51	3168.20	3170.03	3170.85	3173.95
3175.45	3175.82	3178.24	3179.43	3180.98	3182.25
3182.34	3184.24	3184.89	3188.25	3190.56	3192.79
3204.15	3205.10	3206.00	3219.09	3220.22	3230.49
3238.03	3239.29	3266.01			

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16B-TS						
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-312.17	11.29	20.26	28.51	33.06	36.23	
38.89	41.60	44.84	46.52	46.89	50.69	
51.26	52.60	55.43	58.18	60.84	63.13	
65.39	69.45	71.57	76.01	77.98	81.64	
88.33	93.20	97.58	102.33	107.00	109.74	
114.74	125.91	129.19	136.67	143.72	146.96	
161.19	164.17	168.46	171.49	172.71	176.02	
180.72	181.64	184.51	189.05	193.04	194.67	
195.72	199.52	200.28	205.14	216.13	217.66	
221.82	227.63	229.23	234.97	236.30	248.43	
252.74	254.96	270.51	278.39	281.93	286.69	
289.49	290.56	296.32	300.26	315.68	318.08	
323.07	324.37	334.69	340.35	358.02	361.76	
394.60	402.66	408.93	414.48	422.56	426.91	
438.91	445.37	450.98	453.92	462.40	467.94	
483.52	486.24	492.22	492.92	500.05	501.06	
514.69	515.62	516.00	519.68	522.84	525.28	
526.74	529.14	531.87	532.92	534.77	537.54	
543.35	546.79	550.88	556.42	561.11	561.34	
565.48	568.98	571.51	588.03	595.78	605.82	
628.42	630.42	640.20	661.42	682.96	683.92	
701.58	703.99	707.37	716.16	717.05	726.30	
739.81	762.71	767.54	767.94	785.88	792.39	
801.11	804.20	828.88	838.31	840.13	842.37	
844.89	856.26	858.98	865.29	867.09	869.98	
874.15	875.75	883.22	885.19	891.05	893.53	
901.03	904.18	922.66	924.88	930.72	932.29	
934.26	943.18	945.49	945.84	949.98	962.67	
964.74	967.55	968.47	971.59	972.61	973.77	
983.43	987.98	989.16	991.43	1005.64	1006.04	
1006.75	1013.20	1013.57	1014.10	1023.10	1023.69	
1024.32	1024.67	1025.59	1026.77	1041.01	1046.52	
1047.04	1048.07	1050.00	1056.68	1064.34	1064.66	
1065.34	1065.70	1065.86	1066.33	1066.99	1067.18	
1069.49	1074.34	1075.74	1093.30	1106.81	1114.12	
1130.09	1149.81	1156.57	1160.56	1162.23	1167.18	
1168.81	1172.28	1175.02	1178.23	1188.85	1190.68	
1200.85	1204.01	1205.96	1206.14	1207.34	1208.01	
1215.69	1218.96	1224.38	1239.21	1249.08	1255.59	
1262.55	1276.58	1280.19	1288.83	1290.20	1291.27	
1291.77	1292.30	1299.22	1319.23	1319.34	1322.66	
1323.79	1327.52	1333.57	1344.88	1345.49	1361.01	
1361.80	1362.20	1364.74	1370.66	1389.49	1408.82	
1412.48	1414.33	1417.28	1422.72	1424.06	1424.27	
1426.52	1426.57	1426.74	1429.95	1430.06	1431.88	
1453.50	1455.39	1457.39	1462.36	1462.72	1464.40	
1465.27	1465.50	1467.53	1468.19	1475.68	1479.72	
1482.28	1492.81	1492.94	1494.06	1498.84	1499.73	
1500.52	1500.88	1501.44	1501.72	1501.99	1502.82	
1502.99	1507.86	1508.46	1509.22	1509.78	1511.74	
1512.70	1518.20	1518.55	1521.40	1522.10	1532.57	
1547.17	1549.13	1551.89	1601.64	1604.78	1617.38	
1633.39	1634.72	1637.09	1637.78	1638.83	1640.24	
1647.90	1649.08	1651.60	1652.14	1673.71	1674.60	
1780.38	3035.71	3037.62	3037.84	3041.59	3041.91	
3042.24	3042.55	3045.10	3046.38	3047.74	3048.41	
3052.78	3067.77	3070.30	3099.05	3099.16	3101.77	
3103.58	3107.69	3109.55	3110.85	3114.10	3114.66	

3114.84	3118.36	3121.45	3123.09	3125.75	3127.56
3129.35	3129.90	3130.53	3132.71	3149.44	3155.97
3163.12	3168.35	3169.58	3170.77	3172.16	3177.07
3177.14	3177.17	3177.50	3178.82	3179.33	3180.06
3180.17	3180.35	3188.46	3188.99	3191.33	3193.16
3202.11	3204.52	3205.02	3209.88	3218.43	3224.49
3226.35	3245.17	3250.81			

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-258.09	8.83	17.87	20.80	29.37	30.26
37.08	38.85	40.38	42.87	44.91	46.23
48.28	51.85	52.92	55.73	57.12	64.33
65.16	67.98	71.92	73.10	84.09	87.23
94.51	100.57	103.53	107.94	113.04	116.13
124.50	127.59	133.94	143.18	145.33	153.80
154.62	158.82	164.68	167.36	173.43	178.32
179.85	183.73	188.11	188.93	194.80	199.54
207.51	208.79	212.64	215.46	220.38	226.37
233.61	235.62	239.92	246.66	252.69	256.45
262.17	267.16	270.91	285.34	286.01	289.11
296.53	299.23	303.11	311.32	328.67	332.37
341.34	341.85	369.40	390.25	397.37	399.49
414.36	418.73	426.40	431.86	437.07	441.55
445.22	453.76	463.84	470.69	474.30	476.85
487.26	497.04	500.19	517.30	518.93	519.96
522.40	523.78	527.27	528.41	530.05	530.63
532.10	537.37	543.26	547.62	548.50	552.21
553.63	555.34	558.80	561.74	567.73	571.41
579.16	595.17	610.76	614.93	620.87	636.23
654.61	661.69	676.31	681.50	690.80	704.19
706.83	710.41	713.90	715.58	718.27	739.43
767.68	768.91	769.75	792.07	804.49	814.64
816.14	835.61	837.85	839.41	840.08	854.86
860.03	864.38	866.34	871.76	875.29	876.99
879.12	879.80	884.86	887.39	892.55	894.38
905.01	914.55	915.74	921.04	931.16	934.53
942.62	944.34	944.79	947.56	957.83	961.01
963.25	966.04	969.91	972.40	974.53	975.98
989.66	991.48	991.70	1005.51	1007.92	1008.64
1009.36	1011.76	1013.92	1015.31	1020.31	1024.57
1025.55	1026.08	1038.13	1047.54	1048.07	1049.12
1049.87	1051.33	1056.91	1061.78	1065.30	1065.36
1065.73	1065.91	1067.54	1068.41	1072.66	1074.20
1075.70	1082.00	1087.47	1110.83	1128.50	1137.51
1157.56	1158.39	1161.21	1161.92	1165.52	1171.94
1175.61	1178.87	1183.57	1188.51	1201.30	1203.94
1204.86	1205.20	1206.67	1209.73	1210.07	1213.16
1214.66	1223.80	1228.42	1240.77	1253.41	1255.60
1257.92	1266.25	1273.12	1282.43	1284.55	1286.19
1293.55	1296.01	1300.82	1301.35	1307.07	1319.18
1321.78	1322.59	1329.43	1338.13	1343.61	1352.04
1358.98	1360.92	1363.15	1365.42	1366.21	1387.78
1396.34	1407.25	1411.95	1428.39	1428.55	1429.32
1429.68	1430.31	1430.96	1431.89	1432.90	1434.54
1453.57	1454.98	1458.51	1462.19	1463.03	1463.42
1464.20	1464.56	1467.73	1469.33	1473.97	1480.57
1490.12	1492.46	1495.36	1496.95	1497.27	1499.10
1500.64	1501.13	1501.94	1502.72	1502.92	1503.73
1505.38	1505.85	1508.91	1509.77	1512.28	1512.44
1513.74	1518.59	1519.35	1523.86	1524.66	1525.26

1537.40	1547.15	1553.11	1588.38	1612.36	1621.69
1629.50	1632.17	1636.14	1636.91	1638.44	1646.41
1647.12	1648.34	1650.69	1652.45	1670.95	1673.80
1773.03	2393.88	2414.47	2531.56	3005.48	3021.73
3030.59	3033.33	3037.70	3039.84	3040.07	3040.13
3041.35	3042.98	3043.67	3046.31	3061.98	3090.35
3095.51	3098.20	3099.09	3100.43	3101.05	3101.79
3102.19	3102.66	3104.79	3124.01	3124.30	3125.28
3126.59	3127.84	3128.37	3130.22	3130.35	3135.50
3140.70	3143.17	3164.59	3165.67	3165.96	3166.58
3167.45	3178.31	3178.95	3180.14	3181.38	3185.06
3185.58	3187.79	3191.69	3192.00	3198.67	3205.31
3205.56	3207.06	3215.45	3219.01	3221.40	3222.26
3222.56	3223.09	3261.91			

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-142.63	10.25	16.71	21.10	28.27	30.75
33.00	36.35	41.32	44.54	47.89	48.52
51.12	56.65	59.67	59.87	61.27	66.07
69.87	74.74	77.17	79.19	87.10	87.64
92.89	94.59	98.63	102.75	107.51	110.08
111.63	113.02	122.01	130.51	132.41	141.20
141.86	153.49	162.74	164.78	169.48	172.60
177.11	179.96	184.46	187.88	189.52	196.95
197.15	200.18	202.03	203.72	214.54	219.82
221.87	228.58	231.77	236.73	242.12	245.73
250.81	257.22	266.32	270.08	278.18	282.67
284.94	287.45	296.30	300.35	304.28	315.68
321.61	341.57	343.31	362.86	378.37	391.82
400.45	408.14	414.79	419.16	423.80	430.04
446.08	451.45	458.34	464.14	466.34	481.62
485.13	487.00	496.84	501.99	513.01	518.61
519.69	520.64	523.26	525.27	527.95	529.57
532.95	533.14	535.09	538.11	542.48	546.12
546.49	551.63	555.20	559.33	561.80	565.97
571.50	572.80	575.72	595.71	616.59	623.84
636.43	655.93	681.48	690.24	696.92	699.03
708.34	710.56	712.93	715.33	721.47	748.73
764.57	768.65	784.61	790.69	796.51	805.09
813.53	830.04	837.65	839.58	846.58	850.54
854.02	862.30	868.96	872.50	874.51	876.33
879.83	881.18	881.83	887.62	890.35	890.79
894.53	907.11	915.79	921.60	927.32	929.47
935.70	941.64	944.56	946.20	952.20	956.90
962.76	964.06	966.91	967.39	969.67	969.86
973.49	987.53	991.98	992.17	1003.42	1005.70
1009.25	1011.60	1011.78	1012.79	1015.32	1023.16
1023.98	1024.75	1025.51	1026.20	1038.14	1046.57
1047.38	1047.97	1049.43	1052.14	1057.42	1059.59
1063.49	1064.50	1065.21	1065.90	1067.10	1067.75
1069.89	1069.97	1072.73	1080.66	1085.65	1123.67
1142.14	1156.11	1163.68	1165.71	1166.85	1169.33
1171.52	1174.53	1180.49	1188.29	1194.01	1201.13
1202.22	1205.05	1205.13	1206.58	1207.47	1214.85
1216.56	1219.79	1235.65	1239.40	1248.98	1258.71
1259.74	1262.31	1273.19	1285.63	1289.99	1291.89
1293.77	1295.31	1300.35	1307.26	1309.30	1317.59
1321.01	1321.36	1330.83	1332.79	1342.59	1354.67
1359.31	1360.35	1360.46	1365.88	1368.06	1387.77
1396.56	1408.36	1410.15	1417.83	1423.98	1425.56

1426.18	1426.67	1427.48	1429.34	1430.31	1431.26	1205.17	1207.62	1210.54	1213.14	1216.48	1216.89
1431.61	1454.39	1455.32	1461.31	1462.65	1464.19	1224.79	1237.47	1244.00	1261.18	1262.52	1264.04
1464.80	1465.16	1465.38	1466.34	1466.71	1469.28	1271.81	1283.79	1286.35	1286.70	1289.13	1295.17
1480.55	1484.73	1491.14	1496.43	1497.02	1497.69	1296.10	1301.14	1320.78	1322.43	1324.42	1328.28
1498.24	1499.28	1499.84	1500.22	1500.26	1502.52	1331.88	1342.03	1347.59	1351.02	1359.41	1361.09
1502.86	1503.94	1504.49	1504.58	1508.71	1509.50	1363.66	1368.44	1369.05	1372.66	1391.89	1412.30
1509.70	1514.94	1519.18	1519.86	1520.02	1524.71	1413.27	1421.64	1424.23	1424.43	1425.61	1427.47
1527.71	1551.45	1552.34	1598.75	1604.08	1630.29	1429.60	1429.92	1430.28	1431.49	1433.57	1438.19
1637.95	1638.49	1638.92	1642.29	1643.27	1645.62	1455.20	1456.67	1458.70	1461.82	1463.33	1463.86
1649.84	1650.59	1651.39	1652.71	1672.18	1674.43	1464.76	1466.00	1467.09	1467.85	1469.36	1480.73
1763.32	2990.12	3028.98	3033.50	3035.92	3036.06	1482.71	1494.47	1494.63	1495.67	1496.65	1496.79
3039.08	3041.45	3042.53	3042.62	3043.87	3044.22	1497.91	1498.92	1499.95	1500.54	1501.18	1501.72
3046.85	3047.56	3049.27	3064.57	3089.88	3096.59	1502.71	1503.03	1505.70	1511.27	1512.33	1514.14
3096.84	3100.20	3100.73	3101.59	3103.15	3105.46	1514.79	1516.71	1520.44	1520.54	1523.55	1527.74
3105.60	3113.66	3121.31	3122.41	3125.57	3129.05	1533.88	1552.13	1552.93	1602.05	1609.52	1630.58
3131.08	3131.19	3131.54	3131.69	3136.17	3137.91	1636.95	1638.49	1638.92	1641.49	1643.16	1649.16
3145.35	3147.38	3168.21	3169.30	3169.47	3169.55	1651.78	1652.12	1654.45	1660.83	1675.39	1676.03
3173.23	3173.61	3177.86	3178.07	3178.24	3179.39	1782.07	2988.17	2994.87	3012.12	3032.44	3036.27
3180.79	3182.38	3183.92	3185.17	3188.78	3191.23	3038.20	3039.83	3040.24	3040.96	3042.22	3042.50
3202.80	3206.44	3206.92	3207.89	3219.69	3224.79	3044.18	3048.17	3067.54	3069.34	3098.14	3100.32
3226.18	3235.63	3237.16				3100.50	3101.08	3101.52	3102.00	3109.14	3112.78
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17						3113.17	3116.14	3120.17	3122.26	3125.61	3127.62
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13.79	17.62	22.12	25.18	26.12	28.77	3129.03	3130.72	3131.71	3136.17	3146.29	3154.43
32.55	34.06	37.08	42.95	45.73	48.67	3164.74	3167.32	3170.11	3171.51	3172.92	3176.04
50.64	51.67	56.87	60.29	61.41	63.12	3179.34	3179.65	3182.07	3183.39	3184.03	3186.05
68.45	73.63	77.01	82.98	92.00	94.58	3188.00	3189.13	3189.99	3191.38	3191.92	3194.22
97.63	99.70	104.40	107.94	110.70	113.52	3206.82	3208.84	3218.69	3230.54	3230.83	3234.55
114.04	131.25	135.35	138.86	144.05	146.63	3237.55	3242.61	3245.43			
152.11	161.43	166.65	169.12	172.14	177.86	<hr/>					
184.45	188.15	189.09	191.74	196.23	198.22	19					
198.62	202.21	204.43	207.03	209.27	215.41	11.27	17.99	25.43	29.55	32.85	38.13
221.97	226.30	231.11	237.06	245.21	250.04	39.89	41.00	43.79	46.76	47.72	51.31
254.74	262.91	267.62	272.05	281.80	282.87	55.85	56.34	57.44	58.46	62.93	65.01
288.52	293.89	298.91	300.07	309.94	313.18	66.73	73.06	76.38	81.34	88.61	94.23
328.48	331.12	345.36	356.04	376.82	388.18	94.79	99.40	102.58	111.08	112.50	120.71
400.78	402.71	414.99	418.76	430.30	433.15	133.28	136.76	138.46	141.21	146.90	157.25
444.67	450.06	453.37	461.01	469.83	476.75	162.35	162.62	164.04	165.10	171.09	177.62
490.18	499.25	500.88	518.53	519.54	520.37	186.42	187.19	188.86	191.03	193.96	197.87
523.99	525.35	526.39	528.85	529.90	531.45	202.21	207.49	209.41	216.93	217.60	223.56
531.72	532.34	537.11	545.00	547.70	550.20	224.68	226.83	231.09	235.37	247.37	252.33
554.09	557.05	558.94	559.74	561.99	566.14	260.07	264.32	268.01	280.62	285.95	288.25
570.78	573.22	581.56	597.44	617.31	635.66	297.17	298.52	301.29	303.36	320.02	323.91
639.74	654.33	656.91	682.27	690.73	706.44	335.10	346.35	367.46	383.58	394.25	395.58
709.08	711.38	713.13	715.90	723.60	764.17	399.36	413.75	415.89	429.65	433.19	439.19
767.61	769.51	790.21	800.56	806.82	814.33	443.57	447.91	452.40	463.07	471.63	474.75
820.78	835.46	837.97	850.16	853.07	861.05	485.82	496.56	498.97	513.53	516.88	518.73
868.74	870.86	871.64	874.26	876.21	879.34	520.36	521.95	524.13	527.90	529.25	532.84
880.11	882.54	885.41	888.77	893.38	908.47	534.55	535.52	536.85	544.20	546.19	547.65
915.32	917.16	917.86	926.59	932.18	932.54	549.90	556.27	559.32	563.03	570.20	571.55
939.15	941.50	946.04	957.49	958.38	964.26	580.02	586.04	593.61	609.17	618.83	637.83
965.03	966.09	968.88	970.08	971.94	988.43	639.08	656.17	680.07	684.90	690.78	708.66
989.33	996.24	1000.03	1002.87	1006.11	1012.45	708.81	711.54	717.09	719.41	721.29	767.53
1012.75	1013.52	1015.32	1021.80	1023.38	1023.91	768.79	788.28	789.69	792.05	804.17	816.79
1024.53	1033.86	1044.53	1045.98	1047.26	1048.51	823.03	838.64	840.75	852.25	854.42	862.76
1049.36	1058.48	1060.06	1064.86	1065.32	1066.03	866.88	872.08	876.41	877.32	880.82	883.65
1066.84	1067.76	1068.97	1069.26	1076.01	1076.44	887.15	893.26	893.46	894.89	898.41	917.74
1077.44	1093.07	1097.79	1104.48	1116.18	1142.23	919.29	921.93	922.77	926.16	936.31	939.54
1155.26	1158.58	1161.38	1163.26	1167.90	1174.97	940.50	943.05	945.70	957.72	964.13	964.64
1182.02	1183.34	1189.38	1201.53	1204.18	1204.98	965.44	968.06	968.49	972.77	974.48	980.52
						988.98	991.38	992.02	1007.06	1007.93	1011.44

1013.35	1014.36	1014.82	1022.58	1023.90	1026.68
1027.58	1029.47	1043.78	1047.44	1048.28	1049.94
1050.24	1058.48	1061.09	1065.08	1065.88	1066.11
1067.36	1067.53	1068.23	1069.00	1072.62	1075.39
1076.17	1081.21	1104.37	1117.72	1135.25	1154.33
1161.03	1162.76	1167.74	1169.40	1171.55	1174.58
1179.69	1184.71	1188.30	1198.00	1201.32	1204.72
1205.95	1206.82	1207.09	1208.97	1211.85	1215.29
1227.31	1236.49	1240.77	1256.97	1258.35	1259.63
1271.22	1286.03	1287.92	1288.64	1289.04	1296.57
1297.88	1301.03	1320.67	1323.13	1323.25	1325.59
1328.46	1331.84	1335.58	1339.87	1349.40	1360.32
1361.63	1363.12	1365.34	1391.08	1395.63	1408.26
1408.57	1412.20	1420.44	1428.23	1428.99	1429.04
1429.23	1430.47	1431.25	1431.75	1432.36	1433.61
1434.45	1451.89	1458.16	1459.68	1462.43	1462.73
1463.59	1465.02	1466.26	1466.89	1467.55	1479.34
1487.18	1491.07	1493.20	1496.06	1497.07	1497.19
1497.66	1498.55	1499.58	1499.89	1501.88	1502.12
1502.48	1504.12	1505.34	1509.83	1510.41	1510.93
1511.17	1514.10	1514.59	1519.95	1522.69	1525.39
1528.93	1537.54	1548.85	1552.10	1592.29	1610.62
1633.29	1635.25	1635.41	1635.64	1642.00	1643.88
1648.25	1648.49	1650.13	1650.58	1671.70	1673.92
1796.43	2981.75	3000.01	3022.70	3034.03	3037.33
3038.69	3040.56	3040.91	3041.18	3041.66	3042.65
3043.50	3049.11	3073.96	3097.39	3098.09	3101.04
3101.18	3101.61	3101.81	3102.75	3104.53	3105.29
3112.11	3115.61	3127.66	3127.76	3128.45	3128.68
3131.30	3134.14	3134.60	3137.40	3151.14	3154.69
3163.90	3166.72	3166.77	3169.83	3171.97	3174.92
3180.47	3183.18	3183.33	3185.77	3186.02	3186.89
3187.51	3190.40	3193.60	3193.88	3206.76	3207.39
3208.06	3209.82	3212.82	3218.91	3222.77	3225.16
3227.47	3246.16	3254.06			

#### 20A

16.78	25.10	26.19	32.11	36.64	43.60
45.99	52.97	62.46	72.13	80.17	83.95
94.76	98.15	104.80	106.08	125.63	131.00
139.34	164.29	169.96	177.75	197.37	208.27
217.17	226.74	233.95	237.06	250.24	263.08
269.79	276.26	281.44	302.20	318.39	332.28
340.13	386.43	405.89	409.29	417.28	433.12
456.45	461.06	468.54	510.76	518.38	539.08
542.17	557.71	582.01	617.41	628.13	628.71
629.61	657.42	677.39	697.76	708.66	710.21
712.49	721.80	726.01	739.24	764.36	765.85
770.41	776.09	810.12	812.48	831.70	865.54
868.49	872.31	926.35	936.90	946.23	949.31
952.97	986.53	990.40	991.85	994.66	1007.54
1012.79	1013.33	1014.17	1016.58	1020.58	1023.26
1023.65	1044.36	1051.31	1052.38	1052.46	1052.53
1062.46	1075.70	1083.18	1114.57	1116.27	1116.35
1117.85	1119.02	1121.67	1123.93	1151.41	1173.80
1176.45	1204.11	1204.94	1205.39	1208.68	1212.52
1224.60	1228.48	1230.82	1232.34	1234.49	1255.00
1303.19	1324.61	1326.52	1329.77	1336.79	1349.80
1366.10	1367.60	1371.24	1396.84	1410.51	1461.92
1473.75	1474.21	1475.77	1476.52	1478.65	1480.76

1493.06	1500.62	1506.79	1524.86	1525.79	1527.91
1529.88	1623.81	1626.14	1628.51	1640.08	1643.06
1643.38	1687.57	1856.41	2264.45	2981.61	2998.84
3023.82	3034.82	3068.48	3070.96	3083.24	3110.62
3120.10	3121.24	3135.77	3148.00	3153.42	3171.52
3192.42	3192.56	3194.41	3199.44	3199.71	3203.10
3209.56	3209.98	3212.00	3214.00	3215.74	3216.39
3218.48	3220.02	3220.51			

#### 20B

3.79	16.65	19.56	34.54	35.72	40.28
47.84	53.26	55.74	58.57	71.13	76.53
90.43	94.88	99.15	101.46	107.78	113.27
117.27	158.65	161.39	178.66	191.37	202.37
218.06	226.06	232.91	243.48	251.88	255.96
265.16	269.37	276.42	295.69	312.80	332.82
339.16	380.01	407.41	410.73	417.08	437.51
453.41	457.69	468.45	507.78	518.79	535.77
540.03	560.52	580.35	616.30	627.15	627.87
628.77	655.52	676.95	695.91	708.22	708.64
711.66	719.50	723.23	739.50	765.81	767.21
769.03	780.19	788.80	815.79	827.43	865.78
867.09	872.45	930.34	934.42	947.16	948.29
953.21	985.22	990.28	992.42	995.23	1003.27
1008.83	1011.31	1014.47	1017.64	1021.98	1023.25
1023.49	1033.93	1047.94	1049.98	1050.63	1052.54
1059.05	1070.96	1082.86	1107.68	1114.65	1117.14
1117.44	1117.82	1120.19	1122.37	1150.29	1174.36
1179.46	1204.56	1205.15	1205.41	1209.27	1213.68
1225.73	1227.17	1227.56	1230.18	1247.49	1250.83
1297.59	1325.37	1327.34	1330.12	1336.42	1350.76
1367.53	1368.52	1370.68	1398.06	1414.95	1464.09
1468.75	1474.00	1476.84	1478.05	1479.96	1490.25
1494.76	1503.33	1509.08	1523.95	1526.15	1526.66
1529.76	1624.43	1625.14	1627.65	1641.67	1642.06
1643.23	1697.12	1848.11	2268.25	2985.05	2992.06
3032.39	3045.30	3060.28	3073.27	3079.16	3118.26
3118.53	3123.43	3133.42	3157.71	3164.08	3181.95
3189.60	3190.82	3194.21	3196.70	3196.71	3201.86
3205.67	3209.27	3211.32	3212.49	3215.55	3217.35
3217.62	3220.29	3227.91			

#### 20A-TS1

-299.82	13.07	22.47	25.76	35.35	37.56
38.15	42.85	47.90	49.70	60.21	68.05
73.82	79.88	92.23	113.50	123.72	135.40
141.62	161.22	171.99	180.12	190.77	197.84
214.31	228.99	235.05	241.89	250.40	255.15
268.34	280.17	284.40	292.62	318.51	342.42
363.73	407.68	407.88	417.48	431.10	444.44
447.59	460.62	486.39	505.60	518.73	534.92
543.58	576.17	606.10	629.55	629.95	631.16
637.58	663.36	679.28	697.44	708.72	711.02
713.70	722.15	723.61	748.49	763.22	765.01
770.14	771.61	799.38	834.66	865.81	867.59
874.02	905.50	942.45	944.80	944.93	948.35
949.97	975.91	986.86	989.35	992.23	1003.94
1012.18	1012.25	1012.92	1013.92	1018.35	1020.01
1021.10	1022.57	1051.71	1052.51	1052.55	1053.45

1058.54	1076.39	1082.10	1113.13	1114.26	1116.48	630.89	645.11	679.25	694.22	707.85	711.13						
1117.49	1120.44	1120.67	1123.44	1142.27	1172.55	712.04	719.68	723.51	758.33	762.08	764.37						
1175.25	1202.93	1203.46	1204.05	1209.57	1212.37	769.66	773.13	800.38	828.14	865.13	868.16						
1223.64	1225.54	1226.80	1237.64	1250.28	1266.28	871.56	915.53	941.60	944.19	947.41	948.45						
1286.00	1321.83	1324.67	1329.97	1335.53	1339.03	967.41	971.24	987.11	990.07	991.49	999.50						
1365.01	1365.74	1367.73	1392.88	1406.95	1463.21	1011.07	1012.19	1012.95	1017.61	1019.36	1020.24						
1473.02	1474.65	1476.91	1477.79	1479.36	1479.98	1021.44	1025.78	1048.28	1051.14	1052.73	1053.17						
1489.71	1493.51	1503.70	1524.98	1526.05	1526.32	1057.87	1067.50	1085.92	1114.33	1114.88	1117.37						
1528.23	1589.30	1624.23	1626.50	1627.73	1641.65	1118.32	1121.62	1121.95	1122.74	1141.12	1166.05						
1642.31	1643.23	1817.78	1969.10	2988.15	2991.18	1174.20	1202.60	1202.96	1204.11	1209.12	1210.16						
3030.29	3044.50	3066.55	3071.67	3078.77	3122.96	1222.48	1225.68	1228.36	1234.09	1267.53	1280.42						
3132.52	3138.92	3151.70	3154.30	3156.73	3161.47	1285.35	1318.56	1323.85	1329.55	1334.69	1339.43						
3183.79	3184.04	3189.15	3191.02	3191.38	3191.72	1363.53	1366.76	1368.83	1393.52	1406.90	1470.98						
3198.60	3199.57	3199.85	3205.14	3206.67	3208.06	1473.43	1475.49	1476.05	1476.87	1479.37	1479.88						
3215.86	3216.14	3217.10				1490.72	1494.49	1501.82	1523.27	1525.62	1527.10						
<hr/>																	
20A-TS2																	
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-218.71	17.41	24.48	31.09	37.77	40.59	43.96	47.10	51.05	52.83	55.52	64.50						
69.57	87.87	96.09	108.72	124.31	140.50	150.39	158.79	165.81	194.62	200.43	205.94						
211.90	223.12	231.20	246.74	251.27	259.83	267.02	275.95	278.55	295.47	335.20	356.94						
406.48	410.20	411.41	415.79	440.78	449.15	459.30	470.65	488.48	508.04	521.17	535.02						
557.54	600.25	615.77	626.82	629.64	629.80	668.29	684.13	688.31	696.98	708.86	710.20						
711.26	720.00	725.33	761.27	765.30	766.09	769.09	773.74	808.92	818.84	856.62	867.11						
868.83	873.56	942.03	944.84	949.95	954.26	973.26	988.88	990.11	992.56	993.75	997.26						
1007.84	1008.67	1012.90	1013.79	1020.97	1021.69	1022.30	1037.68	1046.24	1048.85	1051.61	1052.46						
1061.42	1076.10	1090.97	1107.77	1114.85	1116.21	1117.32	1118.62	1121.91	1122.57	1136.36	1172.61						
1174.14	1203.74	1203.89	1204.49	1206.83	1210.06	1222.99	1224.01	1224.99	1226.64	1250.10	1263.38						
1287.52	1328.43	1331.41	1332.07	1335.70	1345.60	1366.62	1366.83	1369.63	1391.35	1403.32	1465.35						
1469.24	1475.66	1477.04	1478.69	1479.56	1480.11	1493.80	1502.58	1504.56	1524.53	1525.24	1525.39						
1527.32	1625.88	1627.64	1628.42	1642.07	1642.32	1643.44	1643.64	1791.33	1826.89	2984.57	3003.51						
3016.29	3047.18	3063.38	3073.81	3085.98	3123.23	3135.16	3140.32	3159.36	3166.20	3178.59	3187.18						
3190.36	3192.71	3192.74	3192.85	3195.67	3200.82	3201.17	3203.79	3208.86	3209.24	3210.35	3216.46						
3216.69	3217.22	3247.07				<hr/>											
20B-TS1																	
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-354.96	15.79	25.15	31.69	38.95	43.91	45.81	48.82	52.73	60.49	64.52	66.61						
73.20	78.90	90.24	97.73	112.43	129.07	133.84	149.48	158.81	170.21	185.50	198.24						
206.07	220.54	227.07	229.45	249.56	255.00	257.79	275.67	278.73	301.23	327.53	356.40						
378.17	407.58	408.99	414.84	429.70	432.66	443.20	464.08	501.87	517.83	533.28	535.84						
569.27	574.40	601.15	618.83	626.70	629.61	<hr/>											
21A																	
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22.88	24.13	36.40	41.38	42.26	48.65	56.63	59.17	63.95	69.08	81.55	84.09						

91.47	103.13	107.40	120.70	129.81	142.69		3200.50	3203.08	3206.12	3208.73	3211.53	3213.23
155.72	171.04	184.04	194.58	200.73	211.32		3217.35	3219.29	3219.76			
216.74	223.50	249.87	257.13	261.83	276.14	=====						
278.62	301.24	314.65	337.89	371.76	405.87	23A	=====					
406.32	412.31	414.33	431.19	445.35	458.47		14.15	22.03	24.76	32.39	39.83	46.87
467.91	490.41	504.82	521.71	527.17	540.87		51.26	54.21	59.21	63.97	79.52	86.04
578.77	619.63	627.95	628.49	630.41	640.62		88.63	107.51	122.57	139.89	147.86	164.88
696.26	708.03	708.69	710.03	712.84	725.20		186.90	194.25	206.14	211.53	219.10	228.82
728.37	757.88	758.98	764.25	767.58	769.21		234.94	246.39	250.67	256.23	257.38	258.14
790.26	804.21	866.34	869.22	872.68	905.57		279.90	295.92	305.41	323.07	350.63	364.64
918.44	945.68	949.51	951.46	952.41	959.78		404.43	404.55	420.32	430.92	440.81	447.29
965.36	989.95	993.10	994.27	1006.03	1009.12		469.21	497.18	514.43	520.45	541.64	567.24
1011.14	1013.36	1014.70	1020.83	1023.95	1024.49		620.93	626.24	628.22	629.58	630.63	658.81
1026.21	1051.01	1051.81	1052.48	1053.17	1068.74		685.27	687.82	699.85	704.52	707.10	714.29
1080.97	1112.51	1113.99	1115.74	1118.42	1120.10		721.34	727.63	753.49	762.10	765.80	768.25
1120.85	1121.48	1124.74	1148.08	1170.80	1178.78		774.04	795.16	837.15	858.99	865.47	879.14
1204.90	1205.08	1205.56	1216.96	1219.08	1225.78		904.06	942.36	948.80	956.69	962.61	970.92
1226.35	1228.48	1241.77	1263.45	1279.50	1287.56		979.03	988.40	991.07	1000.17	1003.86	1009.89
1317.35	1325.55	1332.09	1335.89	1339.57	1362.64		1012.32	1014.46	1016.68	1023.62	1023.79	1026.73
1367.29	1368.47	1369.61	1404.65	1416.36	1473.76		1035.57	1047.95	1052.58	1053.43	1055.45	1084.24
1477.56	1479.47	1480.59	1483.47	1493.48	1495.43		1088.32	1110.97	1113.66	1116.43	1118.24	1119.50
1496.94	1503.36	1503.92	1523.27	1524.42	1525.53		1121.34	1124.51	1130.74	1161.97	1177.87	1205.81
1527.16	1598.01	1622.51	1627.29	1627.78	1639.33		1206.17	1206.17	1210.38	1214.01	1225.07	1227.06
1642.20	1643.62	1652.22	1781.56	2953.06	2983.68		1230.72	1232.58	1248.63	1263.61	1284.69	1290.04
3039.33	3056.81	3070.37	3071.42	3093.83	3116.25		1328.89	1330.49	1339.85	1346.74	1352.98	1366.72
3133.45	3135.67	3152.64	3168.56	3171.59	3180.77		1368.92	1372.20	1394.44	1405.63	1412.10	1438.17
3191.73	3192.53	3192.86	3194.43	3198.73	3201.19		1468.82	1475.85	1476.07	1480.10	1481.90	1493.92
3202.95	3206.52	3211.17	3212.53	3214.50	3218.53		1494.71	1504.48	1505.23	1524.50	1525.17	1527.57
3218.64	3220.94	3234.17					1529.99	1625.35	1626.86	1629.00	1641.20	1641.53
=====							1643.41	1650.95	1670.04	1781.78	2939.87	2966.82
21B							2972.81	3032.05	3068.38	3075.50	3093.17	3095.16
=====							3104.13	3127.68	3134.78	3147.15	3150.68	3172.48
16.41	19.00	23.44	37.11	40.88	45.11		3184.50	3191.23	3191.31	3197.03	3197.26	3197.98
46.03	49.83	56.98	62.31	73.62	82.72		3204.89	3205.73	3206.30	3212.26	3213.89	3217.14
93.23	102.08	111.48	124.71	130.81	144.61		3219.89	3220.15	3227.33			
155.29	159.20	186.28	195.37	201.21	216.76	=====						
219.67	231.32	246.99	260.76	273.44	276.91	23B	=====					
291.29	298.52	317.14	340.10	369.28	395.99	=====						
404.65	408.22	414.19	433.52	448.83	459.00	6.17	22.36	23.22	36.78	44.56	47.98	
467.79	495.34	508.38	519.85	530.76	541.56	56.60	62.98	75.43	79.39	86.24	97.52	
608.25	624.73	627.54	628.45	629.81	636.52	106.47	114.29	131.70	145.82	155.90	161.83	
681.07	698.28	708.88	710.48	711.81	718.75	185.31	193.54	201.70	207.07	215.15	220.10	
724.26	728.13	757.75	763.28	766.00	767.06	235.34	239.90	250.66	262.01	268.89	273.80	
784.59	789.80	849.97	865.42	868.84	872.38	285.95	298.77	303.76	330.15	345.09	396.95	
925.97	944.34	950.60	950.83	952.40	961.49	410.19	414.81	418.70	424.50	432.68	462.44	
971.12	989.33	991.86	993.18	1003.23	1011.93	464.31	486.16	508.75	517.22	543.18	584.16	
1012.67	1013.69	1022.41	1023.22	1023.93	1024.63	589.34	627.39	628.75	630.23	630.97	657.21	
1042.63	1051.24	1052.32	1052.43	1062.05	1070.50	691.76	697.98	707.71	710.26	712.58	722.30	
1104.57	1115.11	1116.13	1117.90	1120.44	1120.52	726.51	763.99	767.23	768.29	769.49	777.70	
1122.70	1123.57	1128.97	1152.35	1169.97	1177.41	791.58	806.59	863.89	868.87	872.04	879.33	
1184.84	1205.12	1205.19	1205.80	1217.02	1224.17	904.60	947.05	954.29	957.21	964.33	965.80	
1224.39	1225.85	1226.60	1258.48	1281.65	1288.52	989.18	993.19	994.81	1003.14	1008.48	1013.32	
1318.70	1327.06	1331.66	1336.91	1341.03	1363.82	1013.83	1015.46	1021.36	1022.13	1022.60	1026.67	
1366.48	1366.78	1368.01	1405.26	1411.12	1463.29	1030.89	1051.74	1052.59	1054.46	1055.55	1090.02	
1474.99	1478.02	1480.58	1480.69	1484.88	1489.26	1094.68	1111.14	1112.02	1112.93	1118.08	1119.34	
1494.43	1503.09	1504.33	1524.15	1524.32	1524.94	1123.59	1123.68	1131.54	1175.00	1205.32	1205.35	
1526.09	1603.65	1625.28	1626.62	1628.17	1640.98	1206.04	1206.10	1209.99	1212.50	1228.55	1230.68	
1641.45	1641.83	1642.57	1800.27	2948.15	2981.46	1232.75	1234.27	1251.05	1258.67	1289.09	1325.70	
3045.72	3058.39	3069.49	3072.92	3108.19	3115.69	1334.03	1336.67	1343.31	1347.36	1368.84	1370.22	
3133.52	3142.99	3147.22	3152.17	3157.49	3167.24	1371.07	1372.46	1384.92	1407.63	1414.06	1473.59	
3180.07	3187.04	3192.16	3193.05	3194.54	3198.03							

1478.25	1480.33	1481.23	1485.24	1494.92	1497.66
1501.85	1505.09	1507.82	1524.19	1525.76	1528.00
1531.10	1623.79	1625.72	1628.04	1638.98	1641.05
1642.03	1644.21	1669.46	1679.37	2967.16	2986.06
3017.38	3033.19	3055.37	3063.78	3076.45	3082.32
3084.39	3113.31	3118.09	3165.82	3193.32	3193.79
3195.74	3197.64	3199.53	3201.44	3202.99	3203.29
3210.10	3212.19	3213.40	3217.53	3219.29	3223.96
3226.07	3227.94	3228.22			

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21A-TS

-367.25	22.50	27.39	34.27	38.93	47.42
48.31	51.59	62.23	65.55	76.66	78.81
88.22	93.28	103.24	114.83	122.68	139.09
150.63	159.91	186.89	195.82	204.91	211.49
220.35	226.91	248.72	252.72	257.91	278.18
285.97	291.00	312.04	342.30	357.97	389.34
407.32	410.15	415.28	425.33	439.51	454.40
459.51	468.27	493.91	501.37	519.03	532.38
544.41	572.77	624.00	625.09	627.08	630.10
686.43	706.44	709.22	710.79	712.26	719.87
730.28	732.32	757.05	765.59	767.38	779.56
792.94	817.37	855.06	867.13	875.44	885.25
922.63	925.53	948.13	950.37	955.37	962.11
986.18	987.28	992.27	997.80	1003.63	1004.71
1010.03	1010.64	1013.41	1022.03	1023.64	1025.34
1032.24	1046.91	1048.31	1052.74	1054.14	1078.00
1085.61	1094.19	1112.72	1114.23	1114.78	1118.59
1121.06	1125.49	1133.96	1147.31	1179.39	1184.46
1204.23	1204.38	1205.31	1216.54	1218.39	1219.53
1219.68	1227.14	1250.10	1254.22	1264.86	1290.56
1317.97	1321.38	1327.54	1335.06	1341.73	1363.22
1365.51	1368.64	1369.56	1411.67	1414.67	1465.55
1471.26	1475.76	1479.15	1479.50	1481.69	1495.61
1502.91	1503.38	1506.39	1509.86	1522.48	1523.28
1526.09	1537.09	1601.21	1609.91	1625.83	1627.53
1633.66	1641.08	1643.11	1784.51	2967.41	3000.32
3038.03	3038.39	3065.69	3075.17	3091.34	3129.28
3131.63	3148.82	3150.98	3152.31	3183.51	3184.89
3187.17	3193.42	3194.81	3195.23	3195.66	3196.12
3202.39	3204.25	3204.94	3212.59	3213.42	3214.09
3219.03	3219.49	3221.55			

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21B-TS

-353.80	19.62	23.30	25.00	36.03	42.34
52.22	52.67	58.06	64.98	69.65	81.73
97.25	104.62	119.60	125.83	135.95	155.64
161.25	186.69	195.63	201.98	213.11	216.15
221.72	232.88	251.35	257.28	263.79	274.02
278.10	299.18	318.04	328.51	360.92	384.57
406.30	407.97	414.65	422.78	430.58	448.91
453.87	467.87	472.30	499.14	516.37	530.55
569.38	606.67	614.25	625.06	627.57	629.21
679.39	687.16	706.03	708.77	711.07	728.70
730.84	732.26	738.10	758.99	765.01	765.99
785.30	803.86	846.34	859.34	864.58	873.86
929.80	937.92	945.33	953.45	954.70	971.76
987.77	988.04	988.35	996.09	998.73	1004.92
1012.13	1012.93	1022.19	1023.21	1026.06	1028.37

1036.66	1047.50	1049.38	1052.90	1070.42	1084.30
1095.30	1098.39	1111.78	1114.52	1118.40	1120.38
1120.63	1127.04	1134.56	1160.80	1177.78	1186.71
1194.61	1203.87	1205.19	1205.90	1219.54	1219.61
1220.16	1225.30	1230.40	1251.32	1290.05	1296.09
1320.16	1323.39	1330.16	1335.27	1341.11	1363.25
1367.33	1369.13	1372.69	1411.24	1414.65	1466.45
1472.31	1475.34	1476.96	1479.20	1481.41	1487.21
1494.35	1504.63	1508.18	1511.10	1522.45	1523.19
1524.84	1529.36	1596.75	1602.44	1625.76	1627.02
1634.89	1641.74	1642.40	1790.63	2966.17	3001.06
3040.49	3050.75	3068.74	3070.65	3117.10	3121.06
3128.01	3142.28	3150.89	3161.76	3173.97	3184.84
3185.92	3186.97	3188.25	3194.59	3196.11	3196.97
3202.89	3204.19	3204.46	3211.70	3211.94	3212.59
3218.33	3219.18	3219.52			

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23A-TS

-338.11	17.31	22.09	25.34	38.05	41.28
47.48	49.40	50.16	57.72	64.80	75.10
80.80	88.97	115.72	127.82	133.43	142.89
154.21	176.90	188.61	194.05	209.02	215.04
222.41	234.34	239.56	251.13	267.56	270.36
295.21	298.57	318.67	334.01	347.68	368.29
404.58	408.10	414.31	421.16	426.49	457.26
464.65	470.88	501.77	520.48	540.61	545.96
591.00	623.95	624.70	627.80	628.33	647.03
689.26	691.19	705.07	706.79	707.77	717.34
731.22	732.27	753.96	762.94	764.91	768.35
779.62	826.43	839.75	864.97	866.17	871.50
916.12	945.65	945.97	951.54	956.29	967.43
987.07	988.56	993.15	996.42	1008.01	1011.94
1012.52	1019.81	1021.95	1023.38	1024.93	1028.49
1039.04	1050.13	1051.23	1051.72	1063.61	1068.21
1087.35	1105.43	1108.89	1112.32	1115.12	1116.39
1117.87	1119.79	1128.25	1156.30	1178.13	1186.71
1204.67	1205.35	1206.78	1208.24	1218.13	1219.60
1223.29	1223.84	1225.82	1262.69	1272.58	1282.17
1317.96	1324.17	1333.46	1334.27	1338.98	1365.61
1366.70	1370.91	1373.00	1396.44	1422.33	1468.03
1469.95	1473.22	1477.53	1478.02	1480.43	1492.68
1494.11	1504.17	1505.66	1515.99	1521.55	1522.15
1524.24	1584.74	1612.52	1623.93	1626.14	1634.35
1639.14	1642.77	1652.14	1778.82	2750.25	2968.33
2993.88	3041.00	3067.15	3069.49	3082.61	3123.47
3128.40	3141.68	3147.83	3149.33	3179.57	3181.93
3188.84	3189.32	3193.74	3195.56	3198.33	3202.31
3203.91	3206.18	3209.50	3211.48	3213.63	3213.96
3218.31	3219.25	3220.62			

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23B-TS

-355.22	22.08	31.10	36.17	44.42	48.79
50.10	54.27	61.06	72.26	76.79	82.49
90.70	98.64	101.99	111.88	126.14	147.09
156.43	166.07	178.05	196.39	204.42	209.41
217.12	232.34	233.28	248.58	256.74	269.38
271.00	305.94	310.36	329.38	339.34	399.37
407.42	408.03	414.98	424.62	443.00	459.47
467.41	475.81	501.55	520.00	541.52	545.97

564.85	611.76	624.40	627.75	628.67	663.35	54.65	57.97	65.44	79.01	79.22	82.86
690.05	691.67	704.89	707.36	710.05	724.85	101.43	121.23	131.38	146.77	159.39	164.82
731.98	732.89	762.33	768.35	769.83	773.53	182.36	190.32	197.64	199.24	207.54	217.60
794.01	843.93	863.34	867.99	870.45	877.97	219.90	231.36	249.17	260.77	271.44	296.08
895.93	935.93	945.40	946.47	952.33	961.79	310.51	315.06	339.35	374.72	402.01	407.81
966.96	991.21	994.81	1003.60	1007.52	1008.99	410.23	410.89	416.67	423.12	448.18	457.30
1011.62	1013.32	1013.55	1022.15	1027.69	1028.47	472.42	487.52	499.11	513.31	529.96	593.60
1038.29	1048.97	1050.20	1051.99	1053.01	1065.50	595.50	623.87	627.52	629.22	640.74	679.66
1069.24	1105.15	1109.14	1112.79	1116.33	1117.65	688.99	707.22	709.48	710.92	727.70	728.77
1118.42	1121.41	1126.26	1178.87	1188.32	1193.07	735.23	761.70	766.07	769.36	782.04	788.77
1204.72	1205.84	1206.94	1211.47	1213.99	1219.34	831.19	866.74	873.45	876.60	888.36	908.14
1223.46	1225.18	1229.17	1265.84	1273.31	1294.96	923.79	936.41	946.11	955.14	957.64	981.75
1321.13	1323.77	1333.95	1334.65	1340.12	1366.50	991.09	996.71	998.37	1003.20	1003.60	1012.08
1370.49	1372.78	1379.97	1397.83	1421.45	1462.94	1013.58	1022.08	1023.70	1025.54	1025.97	1044.70
1469.50	1478.08	1478.92	1479.27	1485.02	1493.43	1048.65	1051.17	1053.23	1078.91	1089.04	1091.95
1502.51	1505.92	1507.15	1515.44	1522.64	1522.81	1103.99	1110.48	1112.60	1114.17	1117.98	1120.97
1525.84	1604.60	1611.17	1624.94	1625.46	1635.06	1130.17	1167.90	1177.59	1182.90	1204.40	1204.60
1641.09	1642.73	1650.75	1760.57	2743.36	2965.65	1204.90	1209.22	1210.34	1221.65	1222.57	1223.06
2987.43	3015.36	3033.46	3059.11	3074.10	3082.97	1225.31	1244.06	1264.85	1289.47	1299.05	1318.80
3122.22	3126.82	3161.18	3186.06	3187.38	3189.02	1324.97	1332.81	1335.65	1347.73	1362.82	1367.66
3191.54	3195.53	3197.09	3198.34	3198.86	3204.13	1368.06	1370.34	1377.12	1419.27	1429.33	1442.53
3206.25	3207.16	3211.90	3214.93	3215.80	3218.58	1464.48	1477.47	1479.77	1481.64	1484.23	1494.53
3220.48	3225.19	3248.42				1502.91	1507.10	1508.28	1510.95	1511.92	1524.24

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18.82	23.71	29.14	38.79	44.22	47.96
50.50	59.63	62.96	69.58	75.93	83.53
103.15	118.80	126.42	132.00	151.86	157.44
173.22	184.85	192.37	198.39	204.74	212.29
215.43	229.72	247.36	262.63	273.70	294.59
303.04	325.30	339.60	370.89	403.43	407.24
409.70	414.25	423.75	433.22	448.50	455.79
469.22	499.05	510.91	522.87	528.85	578.20
595.33	624.13	627.04	628.18	629.65	656.64
682.21	705.15	708.45	709.45	722.30	731.36
735.93	762.12	765.57	770.29	778.51	811.63
817.54	863.73	868.29	876.32	900.80	911.92
936.01	942.17	944.80	954.77	957.36	987.94
992.41	993.88	998.66	1002.14	1003.17	1012.17
1013.66	1022.58	1024.72	1026.06	1026.14	1048.46
1051.63	1052.67	1053.00	1070.97	1083.91	1094.80
1096.80	1107.07	1111.02	1115.15	1116.66	1118.18
1122.42	1130.65	1180.04	1183.62	1204.30	1205.19
1206.66	1212.07	1215.45	1220.74	1221.37	1222.85
1224.81	1260.39	1266.62	1285.09	1293.72	1317.40
1322.58	1333.25	1334.72	1347.54	1355.91	1366.11
1369.66	1370.31	1375.41	1417.83	1420.53	1435.49
1466.53	1479.02	1479.59	1480.97	1487.84	1495.66
1498.57	1501.69	1505.12	1510.69	1512.84	1523.56
1525.63	1529.83	1593.74	1602.87	1626.14	1626.82
1629.92	1641.92	1642.37	1775.08	2969.49	3009.47
3018.08	3037.96	3044.75	3055.16	3068.79	3108.02
3108.69	3116.08	3155.08	3181.52	3183.19	3184.70
3185.63	3186.53	3190.71	3192.28	3194.80	3197.61
3198.64	3201.00	3204.76	3206.08	3206.20	3208.67
3213.87	3214.36	3217.39			

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17.88	23.41	34.37	40.29	44.99	48.61
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54.65	57.97	65.44	79.01	79.22	82.86
101.43	121.23	131.38	146.77	159.39	164.82
182.36	190.32	197.64	199.24	207.54	217.60
219.90	231.36	249.17	260.77	271.44	296.08
310.51	315.06	339.35	374.72	402.01	407.81
410.23	410.89	416.67	423.12	448.18	457.30
472.42	487.52	499.11	513.31	529.96	593.60
595.50	623.87	627.52	629.22	640.74	679.66
688.99	707.22	709.48	710.92	727.70	728.77
735.23	761.70	766.07	769.36	782.04	788.77
831.19	866.74	873.45	876.60	888.36	908.14
923.79	936.41	946.11	955.14	957.64	981.75
991.09	996.71	998.37	1003.20	1003.60	1012.08
1013.58	1022.08	1023.70	1025.54	1025.97	1044.70
1048.65	1051.17	1053.23	1078.91	1089.04	1091.95
1103.99	1110.48	1112.60	1114.17	1117.98	1120.97
1130.17	1167.90	1177.59	1182.90	1204.40	1204.60
1204.90	1209.22	1210.34	1221.65	1222.57	1223.06
1225.31	1244.06	1264.85	1289.47	1299.05	1318.80
1324.97	1332.81	1335.65	1347.73	1362.82	1367.66
1368.06	1370.34	1377.12	1419.27	1429.33	1442.53
1464.48	1477.47	1479.77	1481.64	1484.23	1494.53
1502.91	1507.10	1508.28	1510.95	1511.92	1524.24
1525.28	1531.63	1596.24	1602.62	1626.69	1627.19
1628.21	1642.07	1642.94	1795.03	2982.41	3016.65
3017.54	3030.08	3038.16	3048.07	3065.86	3069.87
3111.58	3115.01	3153.45	3180.21	3185.97	3189.97
3190.23	3192.43	3195.04	3199.30	3199.43	3202.60
3205.00	3207.63	3210.37	3210.79	3213.01	3213.76
3215.85	3218.41	3221.89			

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26.69	42.70	71.98	77.02	100.94	114.35
128.52	141.93	155.16	160.96	166.01	171.99
181.25	185.58	190.65	200.22	201.47	215.98
221.78	225.92	232.13	241.80	257.70	262.21
273.59	278.18	283.90	295.94	331.55	344.07
346.93	349.31	380.28	417.37	473.95	597.31
654.13	658.06	665.63	709.99	716.70	719.83
721.67	723.17	727.33	807.85	812.42	865.06
867.41	869.38	876.44	894.54	907.38	941.32
960.78	971.75	971.98	974.38	975.14	975.50
978.31	995.56	999.32	1030.43	1118.53	1187.39
1261.22	1292.28	1319.91	1338.78	1342.50	1344.82
1346.38	1364.16	1370.83	1374.22	1396.86	1452.96
1461.72	1463.06	1468.93	1469.58	1473.03	1475.62
1479.27	1480.64	1483.74	1486.64	1487.07	1493.71
1495.80	1502.99	1599.78	2057.94	2993.84	3035.56
3061.47	3062.27	3062.40	3062.68	3063.70	3066.32
3099.39	3100.49	3143.45	3144.34	3145.56	3146.64
3146.86	3150.10	3160.13	3163.74	3165.53	3167.12
3171.48	3172.89	3174.36	3174.88	3268.10	3399.51

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19.47	24.26	26.87	46.38	59.75	69.86
71.24	83.99	86.36	114.13	115.38	119.28
135.49	140.74	146.18	151.29	163.60	170.90
173.40	176.96	184.82	191.97	194.58	207.77
212.34	218.02	229.42	235.57	242.24	259.67

263.87	267.67	277.01	280.12	283.16	305.72		1004.91	1026.34	1029.43	1037.49	1057.74	1127.79
332.81	346.48	349.34	355.74	366.10	386.62		1183.23	1247.70	1273.84	1321.50	1336.83	1339.80
434.25	528.74	651.62	654.63	658.11	671.81		1341.55	1342.05	1361.26	1363.04	1364.53	1411.56
674.29	703.38	717.41	720.69	721.91	724.62		1420.93	1461.14	1463.21	1470.38	1471.15	1471.65
727.54	810.26	816.71	866.12	868.87	871.68		1474.74	1475.70	1476.21	1478.81	1479.60	1482.93
882.26	923.25	928.23	950.56	972.74	976.65		1486.43	1489.33	1490.01	1496.76	1499.49	1523.61
977.87	979.20	982.80	986.44	990.25	998.75		1729.54	1773.84	1842.88	2957.03	2981.88	2989.78
1016.71	1027.66	1032.94	1035.58	1061.87	1119.52		3034.23	3050.75	3054.06	3056.26	3056.55	3057.46
1182.35	1247.72	1271.98	1320.79	1337.57	1340.90		3057.91	3061.99	3124.88	3131.53	3139.70	3140.03
1342.08	1344.38	1362.09	1368.28	1369.98	1417.60		3141.31	3144.08	3145.91	3145.98	3151.06	3153.79
1426.93	1461.72	1462.98	1469.37	1471.78	1473.73		3154.85	3155.28	3159.34	3161.08	3162.79	3167.58
1474.33	1474.66	1476.75	1478.79	1480.95	1481.79		3246.13	3286.93	3292.50			
1484.46	1487.16	1496.07	1500.51	1503.72	1524.57		=====	=====	=====	=====	=====	=====
1730.21	2071.53	2104.01	2973.21	2982.48	3002.94		26A-TS					
3033.56	3046.25	3058.33	3058.89	3060.14	3060.64		=====	=====	=====	=====	=====	=====
3061.66	3062.22	3116.14	3122.75	3140.41	3142.04		-366.10	17.05	30.84	35.47	48.71	54.61
3142.89	3143.90	3144.82	3150.61	3154.68	3157.59		63.58	76.12	78.05	93.03	104.83	117.44
3159.43	3162.78	3164.01	3168.20	3172.28	3173.18		127.35	141.03	144.84	150.55	156.37	167.44
3245.72	3393.57	3408.68					176.75	182.71	189.75	194.61	198.70	205.00
=====	=====	=====	=====	=====	=====		209.43	223.89	225.62	240.53	256.48	261.15
26A							263.80	267.46	273.15	322.98	329.66	337.22
=====	=====	=====	=====	=====	=====		350.49	369.29	390.72	425.77	448.64	498.75
20.74	24.90	33.87	46.02	57.67	68.80		504.53	555.21	654.53	658.13	660.44	675.00
79.01	86.45	89.71	112.19	115.08	124.19		686.57	721.93	724.85	726.93	727.50	812.08
139.31	144.40	149.59	155.72	159.90	165.93		814.38	863.75	866.36	872.91	876.05	893.98
177.18	178.57	186.86	191.33	193.07	204.28		935.17	946.83	965.83	973.58	977.55	978.97
208.95	215.51	224.86	227.60	232.68	247.61		981.47	983.08	984.02	987.15	996.30	999.46
260.04	261.77	272.46	275.32	283.39	322.11		1018.18	1026.71	1035.40	1038.29	1065.50	1126.72
333.12	342.64	348.71	354.20	369.80	387.20		1182.89	1247.96	1274.20	1322.03	1335.94	1339.36
429.77	515.37	642.13	655.13	658.44	662.36		1340.96	1343.40	1360.60	1364.11	1364.81	1412.76
666.20	684.40	718.83	720.64	722.09	724.56		1421.84	1461.79	1462.97	1470.46	1471.73	1472.08
734.45	809.02	815.35	865.28	867.83	872.03		1473.82	1474.52	1479.13	1479.76	1481.87	1483.70
881.90	919.21	929.00	955.29	971.54	975.14		1486.50	1490.09	1492.53	1495.87	1501.91	1523.77
976.56	978.30	980.32	986.40	993.08	999.11		1730.04	1764.73	1831.51	2959.08	2982.80	2991.66
1013.49	1025.81	1031.44	1043.69	1074.76	1122.20		3035.73	3046.08	3054.00	3056.98	3057.59	3057.84
1184.30	1252.08	1272.41	1321.82	1338.30	1341.18		3059.97	3063.00	3110.45	3121.82	3139.22	3139.98
1342.43	1345.43	1362.78	1368.66	1369.49	1419.33		3141.19	3143.65	3147.05	3148.01	3152.55	3154.86
1426.14	1461.75	1462.24	1468.93	1471.84	1474.04		3155.22	3159.65	3160.56	3162.68	3165.46	3166.80
1474.46	1475.59	1477.41	1479.96	1480.69	1483.89		3246.52	3293.24	3298.63			
1486.71	1492.79	1496.75	1500.04	1505.38	1525.01		=====	=====	=====	=====	=====	=====
1730.61	2064.31	2111.62	2974.67	2980.73	3006.60		27					
3032.61	3043.25	3058.08	3059.65	3060.25	3060.33		=====	=====	=====	=====	=====	=====
3061.38	3061.95	3112.41	3124.63	3141.23	3141.84		14.47	25.73	38.19	47.45	58.47	64.04
3144.22	3144.50	3145.03	3149.33	3155.95	3157.66		70.18	75.83	86.55	105.49	129.80	134.18
3160.92	3162.95	3164.73	3165.89	3168.16	3169.30		145.26	161.73	162.89	169.93	179.86	183.62
3246.62	3398.16	3432.86					187.79	193.40	196.38	201.32	205.01	215.77
=====	=====	=====	=====	=====	=====		222.76	227.78	232.19	246.35	248.77	252.96
26-TS							258.40	259.76	322.30	325.77	331.54	365.87
=====	=====	=====	=====	=====	=====		377.69	435.43	470.68	545.55	571.24	596.52
-398.41	23.55	33.64	36.90	49.65	54.55		654.33	656.76	670.25	687.20	726.45	729.29
70.64	74.74	79.38	92.82	108.47	120.08		733.62	733.88	738.05	812.82	815.90	848.27
138.91	146.44	147.85	153.04	157.93	166.89		860.26	865.53	872.33	876.99	919.81	939.20
179.28	180.57	188.24	196.40	202.11	204.44		977.35	979.80	981.42	982.11	983.70	984.06
215.80	228.21	239.36	253.18	254.15	258.03		986.38	993.32	997.31	1011.65	1023.01	1031.42
262.79	268.26	273.48	305.07	326.18	335.58		1054.25	1086.75	1106.00	1139.80	1181.59	1205.72
345.74	360.45	390.65	420.51	450.85	504.69		1238.22	1271.54	1322.01	1337.83	1340.14	1341.29
515.62	546.33	655.53	660.15	667.85	692.03		1342.27	1343.73	1361.06	1364.32	1370.47	1421.99
704.34	722.67	725.39	727.13	727.60	812.14		1425.42	1460.48	1460.91	1468.54	1468.90	1471.71
814.35	858.96	863.60	868.80	873.68	877.57		1472.36	1473.47	1476.50	1477.40	1480.25	1481.47
901.02	922.05	938.17	957.51	973.39	976.99		1488.69	1490.92	1494.15	1496.36	1501.04	1523.44
979.57	981.85	983.22	985.75	992.35	998.30		1600.79	1668.20	1727.58	2946.07	2985.30	2986.47

3026.36	3036.90	3053.56	3055.40	3056.06	3056.33
3063.41	3065.36	3092.04	3129.91	3137.04	3139.77
3140.81	3143.12	3146.65	3149.25	3150.68	3151.70
3152.91	3154.47	3155.84	3157.64	3158.77	3162.60
3164.12	3172.11	3246.05			

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15.80	25.33	39.59	45.49	62.75	67.44
79.34	89.66	100.10	108.83	127.07	137.00
142.90	153.15	160.03	164.69	169.04	176.85
182.40	192.86	196.69	203.66	206.56	216.02
224.63	227.18	239.54	248.92	252.27	258.92
261.97	275.83	321.00	325.92	331.91	392.47
397.65	439.24	485.68	504.16	530.53	549.09
654.57	656.79	668.35	706.33	724.74	727.98
733.32	735.69	810.24	813.05	815.88	861.15
865.47	871.19	872.71	877.31	932.19	945.29
976.98	978.58	980.90	982.15	982.97	983.79
986.79	995.03	997.50	1017.29	1031.59	1047.97
1049.18	1095.65	1108.90	1134.41	1181.85	1225.10
1258.91	1271.80	1317.44	1321.73	1339.07	1340.55
1342.59	1343.68	1361.59	1364.21	1366.58	1413.70
1420.18	1459.41	1461.40	1465.27	1468.15	1469.92
1472.72	1473.41	1473.98	1475.73	1478.03	1480.81
1482.40	1487.76	1492.42	1496.77	1506.09	1523.86
1626.64	1669.59	1727.40	2947.61	2986.25	2989.85
3021.43	3028.17	3053.20	3054.24	3055.91	3056.15
3061.87	3063.22	3079.40	3091.20	3137.18	3138.67
3139.90	3141.40	3150.85	3151.34	3151.66	3152.56
3153.53	3153.59	3155.31	3155.61	3162.06	3163.88
3165.47	3168.75	3244.48			

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-134.01	11.08	21.84	24.56	29.58	34.02
37.47	44.25	47.10	50.27	53.85	57.29
60.55	64.08	65.46	68.73	70.76	72.98
73.65	79.02	83.83	86.98	88.91	94.05
96.65	104.27	115.19	121.19	127.64	134.13
145.23	149.37	157.66	168.02	177.72	188.25
206.98	208.69	211.94	219.27	221.52	228.58
230.99	236.51	253.60	254.75	258.26	259.85
267.30	267.86	275.07	277.05	281.60	303.31
327.51	336.87	365.72	392.18	406.74	408.56
410.44	414.72	418.64	421.63	423.53	426.15
433.52	435.12	438.59	467.59	470.22	498.70
501.71	503.33	516.73	520.83	530.34	533.98
535.06	549.62	560.61	584.09	618.39	625.78
627.41	629.25	629.64	630.52	631.04	632.38
632.71	674.19	683.05	690.86	694.30	702.55
705.23	706.71	708.35	710.47	710.89	713.73
714.54	717.74	719.68	720.94	749.81	758.29
761.41	765.38	766.47	767.68	768.98	771.47
777.74	798.23	820.55	859.69	861.24	863.18
867.56	869.87	872.67	880.89	881.20	904.26
937.37	940.18	940.71	943.47	944.96	948.36
956.90	961.08	981.26	983.17	983.76	988.22
988.76	989.78	992.33	1002.31	1007.15	1010.80
1011.12	1011.92	1012.26	1012.86	1013.15	1014.66
1015.02	1015.08	1016.48	1017.42	1019.28	1020.16

1021.67	1022.52	1026.48	1047.07	1051.94	1052.50
1053.07	1054.05	1055.03	1057.27	1062.93	1081.06
1107.43	1109.69	1110.56	1113.97	1115.70	1116.11
1117.85	1118.49	1119.02	1120.30	1120.41	1120.76
1122.08	1124.91	1141.03	1167.06	1180.74	1196.18
1199.62	1201.82	1201.94	1202.18	1203.07	1203.18
1203.22	1210.84	1219.12	1221.63	1225.34	1226.57
1228.44	1229.88	1230.31	1235.86	1236.93	1260.28
1283.02	1291.61	1323.75	1323.79	1327.79	1328.82
1331.35	1335.25	1336.28	1337.11	1351.59	1362.93
1365.36	1366.71	1367.74	1368.63	1368.67	1374.29
1396.60	1473.25	1474.39	1475.45	1475.63	1479.10
1479.82	1480.47	1481.50	1486.28	1495.58	1505.76
1506.06	1523.98	1526.10	1526.60	1527.41	1527.54
1527.91	1528.21	1531.42	1620.25	1624.50	1626.38
1627.42	1628.56	1628.68	1630.86	1642.85	1643.76
1644.57	1645.20	1645.66	1647.18	1647.45	1659.37
1797.11	1975.27	2979.67	3020.27	3028.99	3056.20
3068.57	3102.40	3118.58	3152.51	3153.88	3158.31
3162.01	3183.51	3183.57	3183.70	3186.28	3186.48
3187.34	3187.51	3188.60	3189.74	3191.99	3193.54
3194.20	3194.30	3194.57	3196.32	3198.82	3199.38
3201.78	3204.31	3205.45	3206.30	3208.93	3209.58
3211.07	3212.55	3212.83	3213.73	3217.18	3224.89
3226.32	3228.03	3235.15	3240.96	3251.46	3268.52

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-128.62	5.02	11.65	18.07	23.38	31.38
36.49	41.14	43.62	46.83	51.09	53.01
55.96	57.02	61.09	63.69	65.42	70.23
74.77	83.25	85.95	91.16	95.03	98.86
104.33	108.53	111.53	120.50	128.36	137.19
140.27	143.18	152.42	162.58	172.51	194.54
199.75	206.80	217.79	221.65	226.21	229.28
232.95	240.99	247.65	253.33	256.04	258.30
263.67	266.58	279.10	281.23	284.18	290.30
306.07	358.46	366.26	405.15	406.42	409.44
412.23	414.68	421.67	422.61	424.33	428.50
435.10	435.91	439.79	464.90	468.01	501.90
506.54	516.13	518.76	528.66	533.04	535.53
539.29	567.79	574.24	601.89	613.77	628.28
629.69	629.94	631.22	631.72	632.22	633.80
641.18	675.30	683.99	695.29	696.93	700.84
705.64	707.11	708.48	711.65	712.04	713.47
716.18	718.21	723.05	723.82	739.51	758.29
759.31	761.22	763.70	764.68	766.99	768.37
779.93	799.12	815.74	856.21	859.28	862.83
864.31	867.58	875.06	876.21	888.79	910.85
936.65	939.68	941.31	943.53	944.60	946.56
950.74	954.01	979.32	980.93	981.34	982.90
984.87	987.57	992.07	995.59	1007.31	1008.55
1009.92	1012.05	1012.63	1012.89	1013.24	1013.78
1015.19	1015.77	1016.92	1017.00	1017.45	1018.05
1019.51	1020.77	1029.06	1051.51	1052.27	1053.08
1053.50	1054.02	1054.27	1054.89	1058.10	1083.32
1110.36	1111.53	1113.21	1113.92	1114.27	1114.83
1116.99	1118.24	1118.62	1119.03	1120.71	1121.76
1122.26	1122.47	1133.56	1162.02	1177.35	1200.00
1200.63	1201.34	1201.51	1202.10	1203.18	1203.29
1203.53	1208.14	1217.61	1221.87	1221.99	1226.52

1228.79	1230.09	1230.54	1231.05	1233.44	1254.38	1626.51	1627.13	1627.96	1628.44	1629.91	1630.55
1287.54	1313.44	1324.43	1325.45	1327.09	1330.47	1644.49	1644.92	1645.44	1645.56	1646.51	1647.17
1332.24	1337.23	1337.84	1338.85	1347.10	1364.13	1664.47	1791.56	1972.17	2981.52	3022.22	3029.35
1364.43	1367.56	1369.69	1369.76	1371.24	1372.62	3050.76	3055.91	3058.90	3065.15	3068.75	3109.22
1395.76	1473.24	1474.77	1476.21	1477.54	1478.11	3119.32	3127.14	3132.66	3142.78	3146.32	3154.26
1481.32	1481.49	1481.81	1484.31	1492.73	1505.06	3155.03	3159.19	3179.16	3180.87	3183.65	3184.27
1505.67	1525.64	1526.30	1527.14	1528.12	1528.34	3186.69	3187.12	3187.63	3189.04	3189.66	3193.15
1528.81	1529.22	1531.99	1623.91	1625.99	1626.41	3194.08	3195.44	3196.11	3198.51	3198.76	3202.12
1626.54	1629.75	1631.52	1631.75	1643.17	1644.85	3202.43	3205.71	3206.16	3206.94	3209.54	3211.60
1645.49	1646.57	1647.64	1648.20	1650.84	1662.22	3212.12	3213.58	3214.46	3218.20	3222.79	3228.95
1763.51	1865.37	2985.24	3009.74	3031.69	3064.26	3236.64	3259.40	3271.74			
3080.80	3105.47	3121.64	3145.94	3178.20	3179.92	<hr/>					
3181.50	3183.74	3183.85	3184.39	3185.78	3186.79	8B-TS1"					
3187.41	3189.42	3189.45	3191.36	3192.39	3192.53	<hr/>					
3193.31	3197.01	3199.33	3199.85	3199.88	3201.74	-51.77	15.44	19.09	30.35	34.67	36.73
3204.73	3206.22	3208.81	3209.37	3209.77	3210.98	44.22	45.09	48.59	50.46	53.08	55.93
3211.54	3213.14	3213.23	3215.00	3216.32	3216.78	56.92	58.51	61.95	65.11	68.21	75.89
3219.19	3224.86	3226.90	3236.28	3240.62	3245.19	79.39	82.77	90.69	94.37	96.93	99.87
<hr/>											
8A-TS1"											
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-163.91	11.82	25.10	30.30	32.42	37.72	100.99	111.40	113.94	119.40	133.52	139.04
44.09	45.55	47.96	51.93	55.08	56.81	140.23	145.63	150.90	163.42	177.60	198.91
60.77	62.26	66.83	68.93	73.12	75.86	206.15	209.34	215.74	225.85	229.18	230.79
78.06	79.20	87.10	89.61	95.09	98.44	235.77	243.85	253.20	255.79	257.17	262.52
101.44	108.52	111.93	125.13	135.90	142.14	263.77	270.00	278.40	281.73	282.94	289.53
148.86	162.78	168.47	178.05	195.58	200.85	304.48	309.68	331.52	361.30	399.79	408.24
207.87	209.64	214.82	220.94	223.96	230.44	410.75	413.18	413.99	420.79	423.21	427.60
239.44	242.14	251.51	256.78	258.43	260.64	433.87	439.41	440.98	463.88	466.96	469.67
267.51	272.44	273.93	274.94	282.91	283.41	503.63	508.29	515.25	519.02	526.88	533.40
302.25	330.98	335.72	346.02	381.76	406.66	535.01	558.95	565.26	595.26	613.75	626.18
408.36	410.08	416.55	420.86	424.11	425.47	627.89	629.68	630.28	631.22	631.57	633.60
433.06	435.14	440.34	458.97	468.98	471.47	673.95	680.83	696.23	698.45	707.09	707.57
499.35	503.85	517.78	518.66	526.90	531.54	711.48	713.00	714.21	714.34	716.20	717.82
534.67	545.90	552.50	568.07	616.94	626.86	720.90	721.74	746.69	761.58	763.11	763.73
628.29	629.76	630.90	631.65	633.03	633.51	764.71	766.20	767.79	770.36	809.40	820.33
675.79	692.43	694.31	696.23	705.64	706.83	862.47	864.76	867.46	871.16	874.63	875.71
709.49	711.44	712.47	713.45	714.75	717.00	877.23	879.44	937.25	939.31	942.79	944.29
720.95	724.62	751.48	758.23	761.43	765.27	944.43	946.23	950.37	953.57	958.01	974.73
766.16	768.05	770.31	772.15	803.15	819.00	981.86	984.42	986.03	988.17	991.45	992.17
860.55	864.80	866.27	870.30	871.25	875.42	995.92	1010.39	1011.85	1012.71	1013.10	1013.56
881.41	885.03	932.63	935.77	941.86	943.57	1013.87	1014.95	1016.18	1016.68	1017.15	1017.38
944.68	945.75	949.02	954.80	960.92	973.30	1018.36	1020.23	1021.54	1041.88	1050.49	1051.57
981.13	982.35	986.14	988.60	989.78	991.52	1052.32	1052.47	1053.24	1053.91	1060.49	1083.48
1001.02	1008.46	1011.80	1012.38	1012.80	1014.05	1106.22	1110.56	1113.46	1114.35	1115.18	1116.19
1014.08	1015.02	1015.99	1016.59	1017.87	1019.05	1116.90	1117.68	1117.96	1118.65	1119.98	1120.02
1020.80	1022.31	1022.85	1043.33	1049.05	1052.04	1121.68	1122.60	1142.20	1144.43	1162.15	1177.95
1052.98	1053.68	1054.57	1055.65	1062.78	1082.27	1192.19	1200.55	1200.93	1201.30	1202.04	1203.00
1107.52	1109.47	1111.42	1115.25	1115.31	1116.68	1203.56	1207.99	1216.02	1222.42	1222.84	1226.67
1116.85	1117.68	1119.36	1120.20	1120.67	1121.58	1227.11	1230.11	1230.76	1231.05	1253.98	1287.71
1123.23	1124.95	1135.57	1140.58	1165.58	1181.21	1294.75	1324.38	1325.06	1327.79	1329.52	1333.77
1191.55	1200.76	1202.18	1202.31	1203.09	1203.43	1337.54	1338.72	1342.80	1350.04	1355.21	1364.61
1204.08	1208.46	1220.01	1221.86	1226.80	1226.99	1365.10	1367.62	1367.87	1369.46	1371.30	1396.03
1229.96	1230.57	1235.53	1237.24	1258.95	1264.54	1411.58	1432.90	1472.68	1473.86	1477.04	1477.25
1290.25	1322.42	1322.76	1324.85	1327.53	1329.67	1479.26	1480.09	1481.00	1481.28	1495.28	1498.20
1331.82	1335.47	1337.31	1347.59	1350.63	1363.63	1505.30	1506.41	1507.60	1514.04	1525.45	1526.10
1365.92	1366.56	1368.87	1369.90	1374.92	1396.79	1527.00	1527.38	1527.79	1528.15	1528.54	1528.87
1414.19	1436.15	1473.95	1474.57	1476.18	1476.53	1623.86	1626.58	1628.04	1629.21	1631.28	1631.64
1479.95	1480.18	1480.60	1487.62	1497.13	1498.24	1642.02	1644.73	1644.88	1645.94	1647.17	1648.14
1503.65	1503.93	1506.36	1512.52	1525.21	1525.22	1679.31	1782.16	1934.68	2990.03	3009.38	3039.98
1526.45	1526.80	1527.81	1528.33	1528.87	1531.62	3047.40	3050.10	3065.94	3078.23	3106.02	3119.90
1529.60	1530.57	1531.81	1532.76	1533.87	1534.63	3121.70	3126.07	3130.60	3134.61	3149.09	3152.87
1531.82	1532.45	1533.57	1534.76	1535.87	1536.63	3179.52	3179.85	3180.52	3184.03	3184.37	3185.16
1533.82	1534.57	1535.81	1536.76	1537.87	1538.63	3185.37	3186.86	3188.86	3189.86	3189.90	3191.06

3193.26	3194.43	3197.42	3198.99	3199.92	3200.85		1552.91	1595.93	1610.65	1623.91	1633.55	1634.57												
3202.70	3206.20	3208.48	3210.28	3211.30	3211.59		1637.96	1638.11	1644.46	1646.54	1647.15	1647.79												
3211.83	3214.10	3214.72	3216.24	3216.97	3218.35		1648.19	1649.28	1650.33	1650.61	1671.84	1674.04												
3219.23	3223.67	3255.31					1770.97	1926.38	2956.95	2991.84	3007.59	3035.04												
<hr/>																								
15A-TS1'																								
<hr/>																								
-248.14	5.57	13.10	15.54	23.41	26.68		3042.25	3042.44	3067.23	3098.01	3100.09	3100.84												
30.25	32.32	34.38	36.87	41.05	42.34		3101.06	3102.72	3104.10	3104.33	3104.51	3110.43												
44.69	45.41	47.88	50.24	51.07	53.40		3111.52	3124.61	3125.78	3128.36	3131.38	3131.84												
58.64	63.34	64.26	69.20	72.20	76.67		3132.20	3132.52	3135.21	3152.63	3161.50	3165.14												
78.60	87.25	90.05	94.38	96.25	101.20		3167.42	3168.25	3174.92	3177.18	3180.20	3181.58												
108.20	109.68	110.71	122.77	123.70	128.71		3182.02	3182.11	3184.43	3185.63	3186.05	3191.89												
131.43	141.10	143.84	151.44	158.83	162.51		3192.14	3192.27	3192.79	3195.55	3196.62	3201.17												
162.84	166.13	172.08	174.68	178.45	181.93		3207.02	3207.44	3207.56	3207.92	3216.24	3218.10												
185.76	190.48	192.68	196.52	197.25	201.24		3220.33	3220.68	3224.48	3224.61	3230.12	3231.59												
208.48	210.38	218.72	221.93	226.60	230.39		<hr/>																	
236.01	238.46	242.47	244.21	253.99	259.71		15B-TS1'																	
264.14	269.83	270.99	280.18	286.50	286.61		<hr/>																	
292.17	295.59	300.12	309.54	324.27	331.34		-304.40	7.43	11.31	15.09	18.54	22.66												
337.90	344.34	375.58	396.39	401.48	412.66		26.22	29.73	31.25	35.01	37.57	41.62												
417.15	418.93	423.49	437.08	443.00	444.59		44.10	46.61	47.48	49.97	51.34	53.78												
448.57	459.30	467.98	484.25	485.65	489.91		56.33	59.71	66.25	68.40	70.07	73.26												
496.76	499.23	516.87	519.05	519.56	522.73		75.90	79.99	82.49	85.71	91.29	94.39												
524.42	525.11	525.33	528.02	531.66	532.67		97.85	102.18	105.73	108.66	110.66	127.23												
533.86	538.11	540.17	540.51	544.78	545.82		129.25	135.60	142.27	148.41	150.23	150.95												
552.29	557.58	560.44	563.08	565.16	569.07		159.15	164.65	166.35	173.78	176.77	179.89												
574.55	583.15	598.62	611.02	618.55	621.10		184.33	185.98	187.77	192.09	197.98	202.03												
631.43	632.89	639.43	659.22	677.71	683.08		203.62	205.08	211.73	216.40	222.91	226.07												
685.00	688.49	703.23	705.84	711.11	713.67		232.66	233.48	236.68	241.92	249.90	252.84												
714.71	718.25	756.91	768.36	769.37	779.11		256.48	259.42	268.80	273.96	283.34	288.12												
780.67	792.05	802.51	808.04	814.90	830.49		289.85	292.87	301.06	307.56	310.39	323.13												
840.66	841.92	853.92	856.96	860.23	862.48		334.70	345.59	368.32	394.59	398.88	413.25												
862.85	867.49	871.23	873.59	877.56	878.57		414.20	417.96	432.22	436.50	442.51	446.73												
880.29	891.55	893.15	895.30	895.77	897.95		449.38	458.29	463.61	480.40	485.87	493.35												
909.49	916.06	919.02	921.74	931.35	934.18		495.18	499.19	510.36	519.04	520.54	521.26												
936.93	939.50	947.93	958.18	960.40	962.52		522.70	523.65	524.45	526.78	529.00	529.78												
964.08	967.20	968.46	972.64	974.80	983.00		530.50	532.57	535.74	544.72	549.21	552.02												
993.35	997.34	1004.95	1007.60	1008.27	1009.82		553.30	553.75	560.24	562.45	564.19	566.74												
1011.08	1011.79	1012.12	1013.36	1013.92	1016.77		568.15	578.85	595.98	597.72	614.21	620.44												
1023.54	1024.21	1025.56	1027.10	1027.80	1033.28		626.39	635.31	638.48	657.65	669.30	679.20												
1041.69	1046.13	1047.73	1050.98	1054.12	1058.72		684.53	691.06	701.97	705.74	707.94	710.21												
1061.07	1063.40	1064.48	1065.41	1066.37	1066.97		713.38	716.12	754.80	763.45	768.62	776.10												
1067.59	1067.78	1069.14	1069.48	1076.60	1088.20		777.16	787.80	789.65	803.45	814.06	832.52												
1115.19	1131.39	1140.38	1150.15	1159.51	1161.10		841.09	842.49	852.21	855.32	861.72	862.24												
1163.68	1166.40	1173.26	1174.50	1176.41	1180.05		863.43	866.66	871.22	873.21	873.51	876.42												
1188.66	1190.69	1196.03	1200.23	1201.88	1203.15		880.70	883.39	889.12	894.77	900.93	901.96												
1204.58	1206.43	1206.58	1208.01	1213.43	1215.44		906.06	907.39	910.97	921.10	923.25	928.55												
1218.70	1225.92	1241.12	1247.52	1256.45	1259.91		933.39	935.38	940.78	942.77	957.74	959.76												
1276.35	1286.88	1289.42	1290.70	1294.53	1297.29		962.64	964.11	969.34	969.91	972.14	984.65												
1302.75	1303.95	1316.63	1317.98	1321.24	1325.21		992.88	993.39	1003.39	1004.04	1005.09	1005.99												
1326.08	1333.86	1337.88	1339.96	1349.67	1355.50		1008.29	1008.81	1011.83	1012.83	1013.15	1014.48												
1359.81	1360.94	1362.35	1370.22	1396.80	1398.49		1024.27	1024.48	1024.81	1025.23	1026.80	1032.52												
1406.62	1410.33	1426.37	1427.85	1428.79	1429.19		1043.40	1044.27	1048.14	1048.61	1055.59	1057.73												
1429.97	1430.40	1430.89	1431.51	1434.47	1455.59		1058.27	1065.20	1065.41	1065.54	1066.65	1069.05												
1458.49	1461.46	1462.33	1463.64	1464.15	1464.82		1069.29	1070.02	1070.70	1071.06	1075.98	1095.22												
1465.99	1467.98	1469.94	1480.11	1482.04	1494.07		1116.11	1138.26	1140.76	1155.89	1156.68	1159.57												
1494.30	1495.69	1496.51	1497.48	1499.99	1500.35		1165.26	1166.84	1167.30	1173.99	1175.57	1176.26												
1500.51	1501.80	1504.42	1504.46	1505.26	1509.85		1187.62	1198.51	1199.36	1200.39	1202.62	1203.69												
1510.37	1511.08	1512.21	1513.98	1514.45	1519.70		1204.38	1206.10	1206.96	1210.40	1214.83	1217.60												
1521.50	1525.11	1525.20	1526.33	1533.45	1548.42		1221.77	1227.79	1242.89	1255.71	1256.49	1259.09												
							1280.31	1286.98	1288.67	1288.96	1289.59	1295.19				</								

1327.42	1330.65	1346.01	1351.08	1351.22	1358.67		1058.96	1063.63	1064.39	1065.43	1066.25	1066.74								
1359.25	1362.37	1364.11	1365.02	1386.40	1395.33		1067.73	1067.87	1068.99	1069.43	1077.01	1087.09								
1408.14	1409.24	1425.30	1427.02	1427.35	1429.56		1122.78	1130.45	1132.59	1142.09	1149.82	1159.54								
1429.73	1430.35	1430.79	1431.86	1431.95	1453.25		1161.46	1164.85	1167.51	1172.53	1174.36	1176.36								
1459.25	1460.71	1462.35	1463.09	1464.98	1465.41		1180.12	1188.58	1191.60	1198.70	1201.85	1203.55								
1465.76	1466.08	1468.40	1479.56	1480.76	1493.37		1204.91	1207.66	1207.71	1208.25	1214.17	1215.22								
1494.94	1495.63	1497.04	1497.55	1498.31	1499.13		1218.08	1240.47	1245.68	1255.41	1258.93	1259.81								
1499.57	1501.20	1501.87	1503.09	1504.56	1505.71		1288.07	1289.11	1291.33	1294.54	1296.08	1301.65								
1507.78	1509.85	1511.26	1512.31	1512.64	1520.12		1303.69	1316.63	1316.99	1319.18	1321.30	1325.38								
1520.55	1521.91	1522.71	1527.04	1529.73	1548.21		1325.89	1339.03	1341.20	1349.95	1356.47	1359.79								
1551.49	1594.68	1602.36	1619.91	1634.83	1635.31		1360.56	1362.74	1370.45	1396.80	1397.61	1405.35								
1635.87	1636.86	1638.20	1639.06	1648.35	1648.99		1409.98	1412.96	1426.15	1427.88	1428.82	1429.17								
1649.77	1651.28	1652.57	1653.95	1671.31	1672.68		1429.88	1430.36	1430.95	1431.62	1434.50	1434.95								
1777.66	1863.85	2968.24	2984.33	3006.33	3026.08		1456.13	1458.87	1461.66	1462.19	1462.77	1464.34								
3038.69	3039.61	3039.95	3040.25	3040.99	3043.94		1465.14	1466.13	1467.80	1469.92	1479.44	1494.19								
3049.67	3064.43	3068.98	3093.60	3098.96	3099.39		1494.27	1495.62	1496.48	1497.42	1499.36	1499.42								
3099.59	3101.85	3104.91	3109.35	3111.16	3113.22		1499.80	1500.07	1502.90	1503.20	1503.30	1504.44								
3116.10	3123.26	3124.20	3125.78	3126.55	3127.38		1505.68	1509.51	1510.52	1511.13	1511.81	1513.54								
3127.76	3129.90	3136.57	3145.16	3166.34	3169.65		1513.82	1514.48	1520.02	1521.36	1523.58	1524.94								
3170.51	3172.52	3178.98	3179.90	3180.15	3182.22		1527.11	1532.90	1548.73	1551.84	1597.42	1610.55								
3182.62	3183.38	3184.01	3184.38	3187.31	3190.42		1635.39	1635.50	1637.80	1638.23	1643.38	1646.50								
3191.12	3191.19	3191.83	3192.92	3193.51	3193.97		1648.82	1648.97	1650.17	1650.85	1655.69	1670.47								
3203.32	3203.79	3206.07	3206.61	3211.26	3214.48		1673.95	1770.45	1921.11	2955.03	2990.27	3010.12								
3215.60	3226.85	3227.08	3228.61	3235.00	3257.41		3036.04	3039.63	3040.46	3040.75	3041.10	3041.29								
<hr/>																				
15A-TS1"																				
<hr/>																				
-249.25	3.36	8.71	12.01	22.48	25.43		3068.04	3098.14	3099.64	3101.15	3101.23	3102.80								
29.60	32.07	33.96	35.53	37.98	42.67		3103.73	3103.73	3104.74	3111.18	3115.35	3124.67								
45.52	47.78	49.54	52.57	55.33	56.31		3125.10	3125.75	3127.53	3128.15	3128.46	3130.57								
57.30	59.90	64.37	66.11	71.87	74.69		3130.64	3132.18	3135.02	3138.33	3153.46	3154.71								
87.19	90.61	96.84	97.97	103.49	106.02		3162.26	3165.52	3166.15	3167.39	3174.94	3175.20								
108.48	110.27	113.38	116.67	127.82	133.94		3180.55	3180.65	3182.58	3183.01	3183.86	3188.22								
140.81	143.76	154.19	157.20	160.64	164.77		3190.03	3191.42	3192.36	3193.09	3193.57	3197.77								
167.08	170.49	171.89	176.68	185.58	188.04		3206.54	3206.90	3208.26	3214.13	3215.48	3217.57								
191.40	193.07	195.33	196.33	199.61	206.01		3221.11	3222.74	3232.87											
210.33	217.85	220.55	222.63	231.91	232.08		<hr/>													
235.11	242.87	245.56	248.13	253.81	257.99		15B-TS1"													
260.09	264.40	271.55	280.05	281.74	286.41		<hr/>													
286.57	291.36	293.86	299.89	309.04	324.07		-314.32	8.72	17.25	22.20	24.47	26.71								
327.25	333.51	344.79	352.03	383.26	395.56		30.02	34.20	36.44	40.07	41.75	43.07								
399.47	412.17	418.20	436.76	443.62	446.27		46.08	50.57	51.13	52.22	53.19	56.34								
448.91	458.76	466.66	483.01	485.92	486.60		57.97	63.51	66.15	71.43	75.57	76.71								
489.36	498.01	499.88	515.63	517.17	519.56		81.62	88.65	90.88	99.22	99.87	103.00								
520.63	522.85	524.89	526.36	527.13	530.90		106.58	106.99	111.34	113.86	118.23	123.16								
532.00	532.94	539.73	541.76	545.18	546.69		136.55	141.37	143.39	149.61	154.12	155.29								
552.88	557.28	559.23	562.73	563.80	568.06		159.24	164.83	173.51	175.25	182.53	183.71								
574.22	579.65	584.74	598.32	617.80	619.47		186.12	189.56	196.99	198.25	200.48	202.80								
628.85	637.18	658.47	682.16	683.19	684.61		210.59	217.55	219.38	221.06	227.02	230.67								
686.56	704.08	708.43	713.70	714.67	718.32		234.91	239.57	243.62	247.05	253.14	255.53								
759.53	767.93	768.73	777.41	787.48	803.46		256.28	267.48	269.01	271.93	279.03	283.26								
804.05	810.78	830.61	839.81	840.27	853.63		288.35	291.14	293.41	300.26	306.65	307.75								
855.23	860.80	863.23	865.68	871.58	872.72		323.31	326.82	333.09	342.76	395.88	398.31								
876.42	878.30	879.02	881.07	891.07	891.90		399.24	412.73	417.36	430.45	445.17	445.86								
896.01	899.22	900.82	909.85	916.25	919.73		448.61	458.58	463.50	480.79	485.79	492.05								
931.97	934.66	936.39	939.03	942.79	952.32		493.07	499.52	514.93	517.59	520.26	520.99								
957.24	959.47	960.84	963.38	967.02	968.49		522.94	524.68	526.00	528.19	530.83	532.70								
972.22	972.84	975.79	992.70	993.92	1005.53		534.66	537.57	537.96	545.04	547.51	553.30								
1007.83	1008.12	1009.99	1010.35	1011.52	1012.48		556.25	557.07	558.56	563.25	567.13	568.70								
1013.91	1023.88	1024.52	1025.55	1026.82	1030.61		570.22	575.47	579.31	598.24	618.20	620.34								
1036.62	1042.29	1046.33	1047.66	1050.44	1055.64		623.55	633.61	650.94	657.18	674.04	684.58								
							690.77	703.93	704.98	710.49	713.60	716.63								
							762.73	765.31	768.49	775.42	789.05	791.61								

804.24 813.96 828.73 839.21 840.37 846.01  
856.04 862.47 864.22 865.19 871.55 871.85  
875.86 877.12 879.28 881.28 884.66 888.08  
894.79 897.10 903.36 906.47 906.89 922.48  
926.95 930.78 933.41 936.67 948.99 950.85  
952.80 957.94 962.16 962.58 965.18 965.71  
969.07 972.58 976.00 987.98 991.97 1002.04  
1002.54 1002.87 1006.51 1009.68 1011.96 1012.82  
1013.97 1023.36 1023.69 1025.05 1026.10 1026.51  
1038.72 1042.21 1047.17 1048.88 1049.52 1055.89  
1057.82 1063.73 1064.75 1066.07 1066.48 1066.73  
1067.04 1067.63 1069.15 1070.39 1077.21 1094.36  
1122.18 1131.93 1136.34 1139.69 1155.18 1157.49  
1162.38 1165.28 1167.17 1168.02 1173.73 1173.78  
1175.89 1188.20 1193.23 1199.42 1203.92 1204.22  
1204.32 1205.83 1207.20 1210.40 1212.33 1214.48  
1227.72 1244.19 1255.73 1259.11 1262.23 1276.58  
1288.69 1290.85 1290.89 1292.60 1295.04 1301.29  
1312.63 1317.19 1320.28 1321.51 1324.92 1330.64  
1333.28 1347.77 1351.14 1354.07 1358.14 1361.05  
1362.11 1364.25 1367.52 1388.51 1396.50 1408.58  
1409.88 1412.52 1425.22 1425.70 1428.34 1429.71  
1429.95 1430.14 1431.29 1432.73 1433.13 1433.51  
1452.64 1459.68 1461.63 1462.98 1463.97 1464.90  
1465.10 1466.39 1466.52 1467.06 1478.86 1488.60  
1491.42 1494.52 1496.21 1497.19 1498.68 1499.05  
1500.04 1500.86 1501.42 1502.81 1503.03 1503.55  
1504.43 1505.17 1506.90 1510.05 1511.01 1512.58  
1513.04 1514.04 1519.42 1521.29 1521.43 1522.44  
1524.39 1528.80 1548.58 1551.32 1596.81 1602.73  
1635.22 1636.55 1637.03 1637.74 1637.96 1639.14  
1648.29 1649.34 1650.39 1650.82 1651.28 1671.50  
1672.58 1776.73 1844.66 2979.62 2992.88 3002.25  
3036.37 3039.09 3039.64 3041.03 3041.30 3041.82  
3043.90 3045.33 3046.04 3050.42 3066.16 3075.48  
3096.29 3096.66 3100.81 3101.16 3101.71 3102.84  
3106.12 3111.01 3112.66 3114.88 3116.74 3120.51  
3122.14 3122.97 3125.07 3125.64 3126.25 3127.55  
3128.60 3132.55 3135.74 3136.01 3147.33 3148.11  
3164.87 3167.75 3168.57 3175.00 3178.30 3179.26  
3181.16 3183.06 3185.33 3187.46 3188.15 3191.62  
3191.76 3193.45 3194.06 3194.76 3196.09 3199.86  
3200.95 3201.63 3205.40 3206.28 3215.92 3216.61  
3224.61 3229.35 3232.52