

Supporting information for Excited State Electronic Structure with CIS and TDDFT on Graphical Processing Units

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In Tables S1-S22, this file contains CIS, TD-BLYP and TD-B3LYP timings (time for entire CIS/TD procedure, without SCF), number of CIS/TD iterations (note that ten initial guess vectors are used to seed the iterative Davidson diagonalization; hence the number of **AX** matrix vector products is $9+N_{it}$, where N_{it} is the reported number of iterations), first excitation energies and oscillator strengths, along with the Cartesian coordinates (in Angstroms) for the 22 structures used in the text. The timings are for convergence of the first excited state (residual vector norm < 0.00001 atomic units), with ten initial guess vectors based on MO energy gaps. For PYP and the solvated chromophore, the structures were minimized and then equilibrated at 300K using ff99 and the general AMBER force field (GAFF), with the TIP3P water model. Coordinates were obtained from a single snapshot, with varying amounts of waters included in the CIS and TDDFT computations. B3PPQ and the oligothiophene dendrimers were optimized at the HF/6-31G level. Coordinates of the oligothiophene dendrimers were obtained from Ekaterina Badaeva. In cases where there were problems with convergence of the ground state SCF (because of deficiencies in the exchange-correlation functional), values are not given. We also provide information (Table S23) for the GPU code as a function of different screening and/or precision thresholds in order to quantify the influence of these on both accuracy of the resulting energies and timing.

Table S1. Oligothiophene dendrimer S1

Method	Time (s)	iterations	E (eV)	f
CIS	12.1	11	3.95	1.2
TD-BLYP	7.8	7	2.57	0.0
TD-B3LYP	23.6	15	3.13	1.0

C	-0.722083	0.019622	-0.001042
C	-1.588136	-0.998850	-0.000510
C	-3.008656	-0.664592	-0.000534
C	-3.216220	0.692807	-0.001029
S	-1.605047	1.568687	-0.001670
C	0.722084	-0.019621	-0.001043
C	1.588136	0.998849	-0.000510
C	3.008656	0.664592	-0.000534
C	3.216220	-0.692808	-0.001029
S	1.605047	-1.568688	-0.001670
C	3.914163	1.835419	0.000227
C	3.501579	3.130663	-0.000136
C	4.541086	4.116622	0.000971

C	5.773445	3.589467	0.002704
S	5.724231	1.816785	0.002291
C	6.508501	-2.979690	-0.000029
C	5.409183	-3.747435	-0.000801
C	4.192430	-2.994345	-0.001444
C	4.333129	-1.641544	-0.000854
S	6.104326	-1.252413	0.000293
C	-6.508501	2.979691	-0.000029
C	-5.409183	3.747436	-0.000802
C	-4.192430	2.994346	-0.001444
C	-4.333129	1.641544	-0.000854
S	-6.104326	1.252414	0.000294
C	-3.914164	-1.835419	0.000227
C	-3.501580	-3.130663	-0.000137
C	-4.541086	-4.116622	0.000970
C	-5.773445	-3.589468	0.002705
S	-5.724231	-1.816785	0.002291
H	-1.240434	-2.005080	-0.000031
H	1.240433	2.005080	-0.000031
H	2.478302	3.430012	-0.001115
H	4.343376	5.168666	0.001056
H	3.243355	-3.484494	-0.002781
H	5.429812	-4.817567	-0.001250
H	-3.243355	3.484495	-0.002783
H	-5.429812	4.817567	-0.001251
H	-2.478302	-3.430012	-0.001116
H	-4.343376	-5.168667	0.001055
H	6.715540	4.089280	0.003941
H	7.532637	-3.277499	0.000413
H	-7.532638	3.277498	0.000413
H	-6.715540	-4.089280	0.003942

Table S2. Oligothiophene dendrimer S2

Method	Time(s)	iterations	E(eV)	f
CIS	97.1	18	4.11	1.2
TD-BLYP*	42.6	10	2.28	0.3
TD-B3LYP	92.5	11	2.98	1.3

*timing is for convergence of the first two excited states, since this was necessary to get the correct states

C	0.709868	0.136544	-1.117942
C	1.737212	-0.729937	-1.197166
C	3.051075	-0.129619	-1.204234
C	3.022223	1.222791	-1.10913
S	1.323037	1.826467	-1.019164
C	-0.709899	-0.136569	-1.117915
C	-1.737245	0.729911	-1.197124
C	-3.051108	0.129593	-1.204148
C	-3.022253	-1.222816	-1.109015
S	-1.323064	-1.826488	-1.019087
C	-6.054736	2.750762	-1.18944
C	-6.34693	1.74633	-2.040948
C	-5.331761	0.736676	-2.139054
C	-4.261257	0.941938	-1.348599
S	-4.448904	2.476593	-0.416217
C	-4.095919	-2.20186	-1.039354
C	-4.244047	-3.318487	-1.781852
C	-5.366358	-4.133447	-1.416772
C	-6.095411	-3.646321	-0.391004
S	-5.393171	-2.099263	0.212069
C	4.095892	2.201836	-1.039515
C	4.244005	3.318445	-1.782043
C	5.366326	4.133412	-1.417008
C	6.095396	3.646313	-0.39124
S	5.393165	2.099272	0.211888
C	6.054707	-2.750785	-1.189559
C	6.346881	-1.746362	-2.041085
C	5.331706	-0.736712	-2.139185
C	4.261219	-0.941968	-1.348706
S	4.448898	-2.4766	-0.416291
C	8.066195	-5.908174	0.16034
C	8.308426	-5.758303	-1.164677
C	7.613049	-4.636517	-1.750072
C	6.852802	-3.924607	-0.896427
S	6.953644	-4.621553	0.759382
C	10.114801	-8.538535	-3.360264
C	10.84743	-7.41518	-3.405842
C	10.292713	-6.334389	-2.629986
C	9.148114	-6.639193	-1.990734

S	8.661696	-8.341891	-2.341113
C	9.950811	-8.42194	2.570902
C	8.649182	-8.403692	2.899047
C	7.861058	-7.529231	2.072777
C	8.560307	-6.888654	1.112344
S	10.307264	-7.343862	1.194534
C	9.195977	5.016414	1.692866
C	9.371473	5.317439	0.38291
C	8.295101	4.853106	-0.459486
C	7.300156	4.211758	0.182872
S	7.640853	4.140416	1.947972
C	12.817763	6.643536	-1.092612
C	11.876181	7.576379	-1.302299
C	10.578382	7.208515	-0.794113
C	10.537337	6.004901	-0.193139
S	12.161449	5.218348	-0.240005
C	11.440395	6.341101	4.674066
C	11.118823	5.059678	4.912406
C	10.31151	4.468788	3.87925
C	10.02539	5.296946	2.852498
S	10.760752	6.924071	3.130751
C	-8.06619	5.908172	0.16046
C	-8.308448	5.758286	-1.164551
C	-7.613089	4.636488	-1.749945
C	-6.852824	3.924589	-0.896306
S	-6.953627	4.621559	0.759495
C	-10.114904	8.53848	-3.36012
C	-10.847519	7.415114	-3.405676
C	-10.292778	6.334339	-2.629815
C	-9.148164	6.63916	-1.990598
S	-8.661774	8.34186	-2.341002
C	-9.950724	8.422014	2.571008
C	-8.64909	8.403741	2.899139
C	-7.860993	7.529258	2.072866
C	-8.560269	6.888676	1.112457
S	-10.307216	7.343922	1.194663
C	-9.195949	-5.016378	1.693194
C	-9.371464	-5.317445	0.383251
C	-8.295113	-4.853123	-0.459178
C	-7.30016	-4.211753	0.183145
S	-7.640821	-4.140374	1.948249
C	-12.817783	-6.643557	-1.092194
C	-11.876212	-7.576418	-1.301855
C	-10.578402	-7.208546	-0.793703
C	-10.537341	-6.004916	-0.192762
S	-12.161444	-5.218348	-0.23964
C	-11.440268	-6.341029	4.674485

C	-11.118724	-5.059591	4.912778
C	-10.311442	-4.468715	3.879589
C	-10.025332	-5.296895	2.852852
S	-10.760647	-6.924029	3.131172
H	1.600712	-1.788532	-1.280643
H	-1.60075	1.788504	-1.28063
H	-5.41852	-0.114065	-2.782482
H	-7.269427	1.69953	-2.582275
H	-3.570205	-3.575581	-2.573766
H	-5.596183	-5.060302	-1.900754
H	3.570148	3.575521	-2.57395
H	5.596138	5.060257	-1.901014
H	5.418461	0.114033	-2.782607
H	7.269365	-1.699568	-2.582434
H	7.668861	-4.421055	-2.797046
H	10.756602	-5.37177	-2.552841
H	11.759391	-7.328887	-3.960097
H	6.805384	-7.400231	2.198528
H	8.233459	-8.986385	3.694967
H	8.316999	4.975677	-1.522637
H	9.718662	7.843052	-0.871798
H	12.068878	8.507476	-1.794465
H	9.970924	3.453972	3.912123
H	11.435147	4.524479	5.783772
H	-7.668921	4.421015	-2.796915
H	-10.756654	5.371716	-2.55265
H	-11.759498	7.32881	-3.959901
H	-6.80532	7.400242	2.198602
H	-8.233343	8.986445	3.695039
H	-8.317021	-4.975741	-1.522324
H	-9.718689	-7.843093	-0.871377
H	-12.068922	-8.507525	-1.793996
H	-9.970876	-3.453891	3.912426
H	-11.435034	-4.524376	5.784139
H	10.305491	-9.47351	-3.836883
H	10.738365	-8.986536	3.01664
H	13.849261	6.671174	-1.36272
H	12.030222	6.998243	5.272359
H	-10.305613	9.473446	-3.836748
H	-10.73826	8.98663	3.016751
H	-13.849284	-6.671196	-1.362286
H	-12.030069	-6.998166	5.272809

Table S3. Oligothiophene dendrimer S3

Method	Time (s)	iterations	E (eV)	f
CIS	711.8	36	4.12	3.3
TD-BLYP	94.4	10	2.10	0.1
TD-B3LYP	425.6	14	2.93	1.6

C	-0.923548	-0.209956	-0.243039
C	-1.95488	0.632597	-0.045236
C	-3.262415	0.02088	-0.086292
C	-3.224679	-1.30918	-0.345057
S	-1.523808	-1.885559	-0.518492
C	0.494096	0.074934	-0.244328
C	1.518656	-0.735038	-0.571231
C	2.827275	-0.128808	-0.496882
C	2.797892	1.161374	-0.081459
S	1.103957	1.705207	0.217742
C	5.869972	-2.613983	-1.186893
C	6.027867	-1.501127	-1.932391
C	4.997464	-0.516444	-1.757098
C	4.035805	-0.865017	-0.882648
S	4.371221	-2.497647	-0.188125
C	3.898101	2.073811	0.182962
C	4.972132	1.879134	0.972426
C	5.887415	2.983063	1.012726
C	5.511689	4.045924	0.271349
S	3.951155	3.716275	-0.568307
C	-4.320482	-2.245595	-0.534884
C	-5.356097	-2.153405	-1.391339
C	-6.280528	-3.248342	-1.324744
C	-5.949772	-4.203197	-0.430608
S	-4.424471	-3.771337	0.427067
C	-6.321832	2.564723	0.191019
C	-6.504548	1.553962	1.064921
C	-5.469975	0.558067	1.047337
C	-4.480945	0.797097	0.166787
S	-4.79203	2.329067	-0.736891
C	-8.218875	5.998798	-0.465047
C	-9.13268	5.01776	-0.254973
C	-8.537375	3.721014	-0.034898
C	-7.191154	3.700104	-0.04661
S	-6.541286	5.346584	-0.367488
C	-13.021601	5.720975	0.328851
C	-12.867961	4.869849	-0.705808
C	-11.499742	4.568999	-1.024403
C	-10.594076	5.180678	-0.236904
S	-11.417576	6.20313	0.997985
C	-8.322615	9.939673	-0.955437

C	-9.267174	9.366642	-1.730412
C	-9.328359	7.938227	-1.631194
C	-8.430221	7.399242	-0.781386
S	-7.422744	8.690019	-0.021288
C	-7.774877	-7.485398	0.875293
C	-7.915816	-7.404292	-0.471396
C	-7.283824	-6.237041	-1.041708
C	-6.65835	-5.438318	-0.157292
S	-6.816721	-6.096067	1.509658
C	-10.028549	-9.591872	-3.056211
C	-9.243693	-10.406092	-2.320636
C	-8.433405	-9.734365	-1.344428
C	-8.589443	-8.398724	-1.311816
S	-9.800534	-7.873398	-2.547191
C	-8.669337	-10.239182	3.601779
C	-9.799748	-9.829263	2.988947
C	-9.597505	-8.835101	1.974924
C	-8.312961	-8.468484	1.8019
S	-7.234724	-9.378396	2.930084
C	7.774187	-6.105485	-1.031041
C	8.682469	-5.105981	-1.153239
C	8.086734	-3.791741	-1.19213
C	6.742091	-3.769695	-1.122706
S	6.097591	-5.443487	-0.969926
C	12.527973	-5.742227	-2.024963
C	12.43392	-5.160026	-0.811668
C	11.088853	-4.893471	-0.384832
C	10.139516	-5.275346	-1.258033
S	10.887498	-5.991954	-2.73423
C	8.649443	-9.921949	-0.336917
C	7.577787	-9.844082	-1.15345
C	7.17842	-8.506549	-1.47558
C	7.948865	-7.542935	-0.927027
S	9.250767	-8.277182	0.084151
C	7.239319	7.507876	-0.65351
C	7.462717	7.235366	0.656186
C	6.869471	5.990077	1.087842
C	6.199101	5.315192	0.135882
S	6.260437	6.205191	-1.425944
C	9.655758	9.050382	3.450782
C	8.932405	9.973006	2.782993
C	8.10097	9.441329	1.741846
C	8.17841	8.106302	1.589918
S	9.335701	7.402088	2.786481
C	8.981518	10.314969	-2.834043
C	7.649421	10.430627	-2.995841
C	6.915616	9.452495	-2.220594

C	7.67689	8.620146	-1.485051
S	9.426902	8.994005	-1.725516
C	-16.188724	7.056804	2.329339
C	-16.463274	7.072428	1.001647
C	-15.366192	6.601396	0.187511
C	-14.264376	6.237816	0.869244
S	-14.515927	6.457058	2.637011
C	-17.712145	7.552225	0.40035
C	-18.375965	8.701881	0.620125
C	-19.569213	8.861749	-0.172446
C	-19.809412	7.83463	-1.001404
S	-18.559952	6.564034	-0.857482
C	-18.0751	8.381427	5.551125
C	-18.834241	7.441756	4.965829
C	-18.244862	6.880722	3.777766
C	-17.044194	7.398749	3.455678
S	-16.551991	8.656533	4.660613
C	-6.952467	13.659166	-0.627024
C	-8.302954	13.69148	-0.745151
C	-8.897479	12.377447	-0.836562
C	-8.025587	11.352294	-0.822996
S	-6.340967	11.96236	-0.658765
C	-9.116976	14.907913	-0.807005
C	-8.897814	16.040787	-1.501134
C	-9.92399	17.040135	-1.349164
C	-10.929369	16.663	-0.544638
S	-10.675594	15.018329	0.104852
C	-5.984177	14.733753	-0.458226
C	-4.898082	14.995444	-1.213567
C	-4.097675	16.096859	-0.744828
C	-4.573665	16.666483	0.373525
S	-6.066243	15.871276	0.945121
C	16.103782	-6.545786	-3.554966
C	15.162258	-7.184183	-4.291362
C	13.81431	-6.943369	-3.830341
C	13.712916	-6.152371	-2.745969
S	15.345492	-5.61023	-2.210055
C	15.436327	-8.07169	-5.42708
C	16.273626	-9.122383	-5.49937
C	16.276406	-9.794753	-6.774245
C	15.434702	-9.25714	-7.670069
S	14.563275	-7.849177	-6.99649
C	20.064472	-6.579878	-3.477885
C	19.662381	-6.16798	-4.69045
C	18.230923	-6.11133	-4.836462
C	17.545162	-6.488178	-3.740263
S	18.682371	-6.945194	-2.407485

C	10.878807	-12.933367	1.0024
C	9.572175	-13.290156	1.05054
C	8.679276	-12.254357	0.587427
C	9.280007	-11.119475	0.181428
S	11.065871	-11.263243	0.348663
C	9.046869	-14.56849	1.553302
C	8.365402	-15.509724	0.87384
C	7.938497	-16.629908	1.674098
C	8.290731	-16.531067	2.965207
S	9.188415	-15.023004	3.294385
C	12.078768	-13.669747	1.362882
C	13.150383	-13.215817	2.046212
C	14.211052	-14.175839	2.194954
C	13.948217	-15.358699	1.617035
S	12.345459	-15.376818	0.832969
C	-12.396797	-11.124984	-5.853635
C	-12.495352	-9.774089	-5.892855
C	-11.680832	-9.113021	-4.899024
C	-10.952044	-9.93024	-4.115712
S	-11.249919	-11.650498	-4.560967
C	-14.819913	-7.331946	-7.989711
C	-14.296351	-8.240313	-8.826948
C	-13.430134	-9.192386	-8.18036
C	-13.300667	-9.014114	-6.852071
S	-14.279074	-7.593415	-6.307316
C	-14.722955	-13.74776	-7.700065
C	-13.442151	-14.049517	-7.965219
C	-12.501246	-13.146362	-7.355015
C	-13.065481	-12.155604	-6.634635
S	-14.867424	-12.306617	-6.656411
C	12.082167	10.184056	6.386555
C	12.136072	8.835805	6.272526
C	11.280348	8.31346	5.233524
C	10.578167	9.23594	4.547629
S	10.938491	10.885353	5.178504
C	14.878984	6.645753	8.140064
C	13.662982	6.194495	8.484372
C	12.583023	6.927748	7.873706
C	12.978233	7.937555	7.07574
S	14.779498	8.030809	7.01748
C	13.654556	12.322193	9.324212
C	13.912738	12.937667	8.159303
C	13.39637	12.237739	7.013459
C	12.753501	11.088075	7.30561
S	12.738613	10.80898	9.090895
C	6.512934	13.484682	-4.883585
C	7.289967	12.823418	-3.99036

C	6.967589	11.400122	-3.880508
C	5.961294	11.031728	-4.69454
S	5.321412	12.378832	-5.6573
C	8.354399	13.466528	-3.201683
C	8.381907	13.717727	-1.880665
C	9.600892	14.330318	-1.412934
C	10.502528	14.539628	-2.384041
S	9.903497	13.987196	-3.974372
C	6.512465	14.895902	-5.234312
C	6.559149	15.967008	-4.417394
C	6.543087	17.234308	-5.099479
C	6.475916	17.125904	-6.435669
S	6.435647	15.42221	-6.963775
C	-7.917538	-12.631558	6.688829
C	-8.898244	-13.180154	5.928737
C	-9.240019	-12.381583	4.775454
C	-8.541879	-11.237495	4.644609
S	-7.365963	-11.062323	5.994444
C	-9.568852	-14.466049	6.173747
C	-10.882633	-14.683841	6.376592
C	-11.242674	-16.072659	6.518392
C	-10.198734	-16.909303	6.414478
S	-8.669984	-16.031117	6.127064
C	-7.337961	-13.112558	7.930093
C	-7.972087	-13.628005	9.002735
C	-7.098267	-14.013268	10.078867
C	-5.800062	-13.781421	9.827499
S	-5.551746	-13.067269	8.21145
H	-1.827086	1.67796	0.147823
H	1.383575	-1.747153	-0.893271
H	4.981783	0.41097	-2.291492
H	6.838088	-1.379506	-2.621801
H	5.126768	0.971665	1.518457
H	6.800617	2.962951	1.571245
H	-5.476609	-1.326313	-2.05994
H	-7.167723	-3.299607	-1.921902
H	-5.47178	-0.294634	1.694516
H	-7.335922	1.518006	1.738743
H	-9.130791	2.845033	0.126977
H	-11.219333	3.908626	-1.820241
H	-13.698077	4.440075	-1.228164
H	-10.014739	7.34391	-2.19695
H	-9.895357	9.932413	-2.387213
H	-7.274086	-6.051504	-2.095844
H	-7.753297	-10.251063	-0.699373
H	-9.216799	-11.467788	-2.458431
H	-10.398786	-8.404623	1.410646

H	-10.768667	-10.193647	3.262052
H	8.680083	-2.904164	-1.26874
H	10.857037	-4.443563	0.559256
H	13.288392	-4.92929	-0.208874
H	6.349145	-8.286005	-2.116289
H	7.088764	-10.710142	-1.549378
H	6.918656	5.656929	2.103809
H	7.463307	10.053275	1.138781
H	8.967063	11.017684	3.015657
H	5.845424	9.405983	-2.216421
H	9.750922	10.900132	-3.283712
H	5.559477	10.052288	-4.825663
H	-15.415113	6.588438	-0.881671
H	-18.037715	9.436155	1.321687
H	-20.199633	9.724804	-0.108823
H	-18.71286	6.113519	3.196238
H	-19.784207	7.130319	5.348736
H	-9.955689	12.233665	-0.908706
H	-8.03372	16.180277	-2.116833
H	-9.887662	17.992163	-1.83759
H	-4.658263	14.428194	-2.089931
H	-3.210531	16.428152	-1.244069
H	12.9669	-7.395059	-4.303538
H	16.879138	-9.432956	-4.673062
H	16.888164	-10.648625	-6.981582
H	17.744649	-5.793456	-5.735434
H	20.3396	-5.897505	-5.474224
H	7.61567	-12.371935	0.612145
H	8.171773	-15.434511	-0.177182
H	7.396438	-17.461778	1.273514
H	13.197494	-12.224984	2.44983
H	15.11917	-13.965463	2.721191
H	-11.646376	-8.04615	-4.817942
H	-12.924941	-9.974333	-8.708121
H	-14.497609	-8.255207	-9.878334
H	-11.440134	-13.244511	-7.463351
H	-13.145508	-14.878595	-8.57401
H	11.235342	7.265388	5.020436
H	11.550507	6.701032	8.047918
H	13.507169	5.371968	9.151752
H	13.518866	12.588417	6.008966
H	14.455934	13.857171	8.086224
H	7.564475	13.474776	-1.232326
H	9.768081	14.591997	-0.388274
H	6.600054	15.8772	-3.352515
H	6.576217	18.173095	-4.586127
H	-9.963803	-12.706323	4.056824

H	-11.596222	-13.886576	6.434812
H	-12.246644	-16.401692	6.692194
H	-9.035881	-13.733418	9.045972
H	-7.453465	-14.438058	10.994983
H	-20.614786	7.70962	-1.689282
H	-18.276583	8.938127	6.438338
H	-11.802333	17.210909	-0.270533
H	-4.175052	17.49409	0.915798
H	15.245804	-9.565909	-8.673286
H	21.060338	-6.698016	-3.114657
H	8.102606	-17.219692	3.757728
H	14.558798	-16.232865	1.590152
H	-15.482999	-6.527031	-8.212905
H	-15.6035	-14.249292	-8.033202
H	15.832695	6.284931	8.452938
H	13.932348	12.624839	10.308575
H	11.472065	14.977264	-2.305278
H	6.447189	17.905245	-7.163219
H	-10.192923	-17.973641	6.484509
H	-4.959369	-13.969421	10.456303

Table S4. Oligothiophene dendrimer S4

Method	Time(s)	iterations	E (eV)	f
CIS	3508.2	46	3.97	2.6
TD-BLYP	230.2	6	1.76	0.0
TD-B3LYP	1369.8	13	2.76	0.0

C	-1.29737661	1.564126026	-2.343460529
C	-2.48474774	2.187042278	-2.454534131
C	-3.576280164	1.358251174	-2.92406621
C	-3.20368453	0.075678331	-3.159037403
S	-1.448088144	-0.163483849	-2.823539593
C	-0.016919236	2.08960537	-1.925570587
C	1.111658897	1.407248479	-1.659482731
C	2.239638085	2.209254316	-1.248174054
C	1.967572348	3.5371931	-1.214245138
S	0.253359325	3.85449777	-1.694855543
C	5.517001998	-0.008800618	-0.821138145
C	5.410996191	0.817114726	0.241716722
C	4.280402234	1.702141157	0.196374026
C	3.507744745	1.56404101	-0.897564171
S	4.177421379	0.294509194	-1.988648352
C	2.799940342	4.687065428	-0.904050408
C	2.470199063	5.753997678	-0.145872299
C	3.472579542	6.777598381	-0.088655907
C	4.577732725	6.513074781	-0.814519965
S	4.434285631	4.915433694	-1.637212174
C	-3.950381077	-1.093505771	-3.601480451
C	-3.732575109	-1.83490601	-4.7054588
C	-4.553597926	-3.007273143	-4.808730254
C	-5.399131265	-3.185609942	-3.774423691
S	-5.237713738	-1.844316833	-2.576815023
C	-7.034664152	3.328820918	-3.072434839
C	-7.030251062	2.378746472	-4.030061858
C	-5.838723253	1.5809777	-4.069419408
C	-4.913461078	1.909857446	-3.145749566
S	-5.507097225	3.274082787	-2.120433944
C	-9.47275311	6.353865865	-2.226752125
C	-10.21578337	5.237695602	-2.44277988
C	-9.411265362	4.074975225	-2.750301439
C	-8.082875969	4.285259507	-2.778125412
S	-7.711344289	6.003060955	-2.401448822
C	-14.15813205	5.068641327	-1.783957027
C	-13.84663478	4.385001581	-2.902312688
C	-12.45047668	4.402559794	-3.233311206
C	-11.6775024	5.107769251	-2.38161526
S	-12.68031352	5.796916813	-1.049505689
C	-10.14907998	10.07077224	-1.003317272

C	-11.00905894	9.76690076	-1.995927871
C	-10.86049695	8.440488358	-2.521617128
C	-9.891744226	7.712164472	-1.931178195
S	-9.071898987	8.673567183	-0.641283779
C	-8.239511326	-5.914572635	-3.155529797
C	-7.079451356	-6.531663038	-3.494512316
C	-5.98472517	-5.613754698	-3.705521241
C	-6.289094387	-4.312377173	-3.56284868
S	-8.017097516	-4.121341664	-3.099555456
C	-5.97145523	-10.35769552	-3.639857269
C	-7.018000006	-10.171961	-4.472169554
C	-7.530956162	-8.8307496	-4.49154175
C	-6.884117029	-7.973757034	-3.680739151
S	-5.554873275	-8.818617314	-2.798629328
C	-11.57364403	-7.728066785	-1.954609748
C	-11.88579132	-6.648254983	-2.700330758
C	-10.7510925	-5.92168373	-3.189844973
C	-9.555723341	-6.444461439	-2.841581672
S	-9.7860667	-7.909019946	-1.811362025
C	7.756179094	-3.135695161	-1.819951789
C	8.482602206	-2.321974446	-1.00937295
C	7.767425922	-1.130430973	-0.610500054
C	6.506437031	-1.035640316	-1.075525618
S	6.112500848	-2.457692315	-2.100207482
C	12.01684797	-3.405129433	0.51490538
C	12.11441213	-2.177439177	-0.030728396
C	10.8947321	-1.692920231	-0.616725678
C	9.856172402	-2.54881369	-0.537840508
S	10.34273503	-4.050368022	0.335367984
C	8.116014646	-6.707226657	-3.515148094
C	9.29504473	-6.06036037	-3.596768254
C	9.291990495	-4.747463953	-3.016859924
C	8.114127247	-4.383290931	-2.468838588
S	6.891425286	-5.697480635	-2.667663175
C	8.088895319	8.36032744	-1.128726592
C	7.089859158	9.256381071	-1.334544436
C	5.771599865	8.67407317	-1.244135046
C	5.747025423	7.355943855	-0.974203928
S	7.420895666	6.718199432	-0.804729899
C	7.715828989	12.93547419	-2.769496187
C	7.161448949	13.01961615	-1.542523518
C	6.903064489	11.7503007	-0.920396596
C	7.259239901	10.6812524	-1.656140088
S	7.944615995	11.2075583	-3.241807617
C	12.03554134	8.389648711	-1.354241236
C	11.64108028	9.557843037	-0.813121359
C	10.20589709	9.645009946	-0.672282487

C	9.524094119	8.572932941	-1.121197091
S	10.66718689	7.321056041	-1.745604594
C	-17.69934831	6.061564534	-0.260859517
C	-17.62928274	4.712860049	-0.384462748
C	-16.35575612	4.253836439	-0.893671726
C	-15.47194882	5.223365371	-1.1864821
S	-16.16317459	6.840748615	-0.802180698
C	-18.7122489	3.773150698	-0.085304251
C	-20.01719754	3.842400647	-0.407951529
C	-20.79944859	2.720071245	0.023779087
C	-20.10121756	1.768292156	0.677345415
S	-18.36244931	2.239244987	0.803043683
C	-20.57905316	8.105257062	1.577622221
C	-20.34611776	8.644022485	0.361841283
C	-19.31795841	7.984678978	-0.388707262
C	-18.76777498	6.919451645	0.229957305
S	-19.49108766	6.698031396	1.868060333
C	-9.307238763	13.47902861	0.865635314
C	-10.62810873	13.20712135	1.017833375
C	-11.03378069	11.98269727	0.363083439
C	-10.04932188	11.31720707	-0.265311956
S	-8.487174924	12.19406481	-0.09869986
C	-11.56940663	14.00183393	1.807391128
C	-11.37268168	14.6496084	2.972037562
C	-12.53499472	15.30708403	3.495006799
C	-13.64559578	15.16261111	2.743114825
S	-13.28744029	14.18085106	1.272941607
C	-8.5099436	14.60972286	1.316964763
C	-7.394319949	14.59366583	2.07318114
C	-6.808125876	15.88317342	2.301087107
C	-7.464048534	16.90509011	1.711866155
S	-8.894486983	16.29652388	0.794782083
C	14.8081858	-5.887931425	1.887294362
C	14.87087427	-4.724181559	2.580186737
C	13.86631014	-3.76474182	2.177092629
C	13.05983979	-4.167490316	1.179764901
S	13.48436881	-5.840289391	0.663993803
C	15.86018277	-4.412376125	3.613742941
C	17.19472077	-4.581842376	3.594144866
C	17.8691702	-4.149155384	4.784297462
C	17.05921458	-3.637381854	5.734199698
S	15.33988997	-3.680398145	5.181482766
C	16.75855808	-9.24558376	2.761530588
C	16.9466496	-8.940189594	1.460290588
C	16.28354337	-7.742440043	1.033588412
C	15.59957909	-7.104186084	2.004994405
S	15.71160817	-8.014605469	3.55952054

C	6.77208408	-10.0753047	-5.148786942
C	7.767332192	-10.3768461	-4.277166873
C	8.341141187	-9.210424241	-3.642986603
C	7.783358489	-8.039565607	-3.992867517
S	6.46804975	-8.298460106	-5.195449667
C	8.196250319	-11.73166516	-3.921845188
C	7.44735885	-12.81533928	-3.644975562
C	8.196090499	-13.98285143	-3.276715971
C	9.532966385	-13.80671893	-3.256262912
S	9.954371021	-12.11799978	-3.738071331
C	6.000815841	-10.95549176	-6.011731982
C	6.449407052	-11.8035502	-6.956044365
C	5.420818449	-12.53476937	-7.638329619
C	4.167125841	-12.24897919	-7.229033418
S	4.196502218	-11.01722858	-5.910590413
C	-3.464547284	-13.34623151	-2.85609251
C	-4.676775173	-13.86059336	-3.18025462
C	-5.666731875	-12.85135981	-3.477120117
C	-5.230252882	-11.57898315	-3.394431195
S	-3.493754933	-11.54576083	-2.920963843
C	-5.490217408	-17.73930637	-2.677804141
C	-5.713844404	-17.39503445	-3.963043345
C	-5.45296826	-16.01461414	-4.259080652
C	-5.018449016	-15.28991729	-3.211555581
S	-4.940691458	-16.30770279	-1.72675184
C	-0.119150359	-15.4500885	-2.38706871
C	-0.198287125	-14.50340217	-1.428211929
C	-1.374493188	-13.68774069	-1.498495042
C	-2.216251217	-14.0013951	-2.504920614
S	-1.550758437	-15.36678829	-3.48115644
C	8.54008164	16.25406754	-4.792354113
C	9.069432786	15.19582675	-5.456071588
C	8.814122538	13.93005916	-4.810343671
C	8.113344998	14.00120833	-3.662347312
S	7.686734626	15.71256039	-3.297032109
C	11.63380827	15.5942387	-8.496329599
C	10.59510671	14.82269634	-8.877954684
C	9.597320285	14.6289633	-7.863163472
C	9.854140365	15.25206816	-6.697502611
S	11.42489159	16.13450157	-6.786437314
C	8.648497568	20.21112162	-5.156992216
C	8.409577057	19.65366726	-6.363041622
C	8.345679195	18.22223233	-6.354742619
C	8.543958486	17.66018358	-5.145399838
S	8.830354028	18.93437746	-3.895511739
C	14.36918539	11.72266607	0.608238447
C	13.72467622	10.54845899	0.410159748

C	12.53525687	10.67227192	-0.429770931
C	12.31262808	11.93558239	-0.836945067
S	13.54007907	13.07430698	-0.245590527
C	14.13415521	9.28631662	1.047775787
C	15.10738369	8.429165254	0.694825968
C	15.25199899	7.296216209	1.568594159
C	14.3794156	7.270886752	2.595324843
S	13.29325362	8.70926358	2.537584503
C	15.54879563	12.02531555	1.411069529
C	15.62044315	12.78628528	2.520313145
C	16.94181868	12.92588744	3.062031936
C	17.90193139	12.290953	2.357673119
S	17.18887388	11.44321145	0.937183666
C	-13.7166298	-10.731489	-0.469229171
C	-14.34436776	-9.559518985	-0.193913692
C	-13.63585535	-8.401212516	-0.686402482
C	-12.48532289	-8.667343882	-1.33213664
S	-12.18320146	-10.4407267	-1.370824293
C	-15.60419218	-9.410975621	0.550960158
C	-16.78796776	-8.954501007	0.100187516
C	-17.830706	-8.918143119	1.08937251
C	-17.44795978	-9.333840316	2.313669373
S	-15.70860233	-9.811240519	2.307036442
C	-14.13283544	-12.09114515	-0.181649509
C	-15.37531078	-12.61633022	-0.222125845
C	-15.44070222	-14.01104983	0.100727744
C	-14.24882862	-14.5719139	0.394437003
S	-12.92814629	-13.35272042	0.285620871
C	-5.422735456	-20.82471602	-0.526273703
C	-5.151526748	-19.44445625	-0.852053705
C	-5.606657427	-19.0381461	-2.052589243
S	-6.438215302	-20.39497052	-2.896847947
C	-6.086275921	-21.4879649	-1.505293666
C	2.054248042	-18.37679654	-3.318176188
C	0.854311316	-17.57186066	-3.337205759
C	0.900363711	-16.45712797	-2.584130069
S	2.496413804	-16.32232236	-1.758493839
C	3.023280692	-17.87491799	-2.515272033
C	-19.85603978	-8.88376174	5.165864408
C	-19.20302757	-8.541195215	3.922065379
C	-18.25673116	-9.406755977	3.515571315
S	-18.10473098	-10.76690456	4.685986117
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H	3.650025829	-21.72218987	-6.229582649

H	4.05761833	-19.42584724	-5.06444287
H	1.358553831	-22.76035175	-5.593396624
H	-2.116175077	-17.49837887	-9.729792878
H	-1.203653243	-15.69847198	-8.074588392
H	-0.692856779	-17.65798605	-11.89236582
H	-3.525045563	-11.62225999	-6.488943547
H	-1.123241668	-12.51304591	-6.011415079
H	-4.016772748	-11.43077799	-9.03237538
H	14.52703789	-20.7495833	-2.476725666
H	14.28903009	-18.22377397	-3.082102425
H	12.43551897	-21.6707213	-1.250305349
H	17.16508708	-14.54782581	-1.866081978
H	14.98329882	-14.62240567	-3.297375077
H	16.82433299	-15.5671419	0.499829174
H	21.04804127	-14.48278739	8.060057633
H	20.49502017	-13.7155861	5.630996136
H	19.4144851	-13.47666835	9.80644294
H	19.81374126	-16.39870682	1.90126052
H	19.87535795	-13.80434595	2.204250417
H	18.00116175	-17.51742296	3.38405978
H	20.72522768	-2.27880988	13.3558799
H	18.62612333	-2.92970853	11.95034911
H	22.58289678	-1.194638098	11.90585712
H	14.01839703	-1.298386492	12.47595368
H	15.03371158	-2.933824756	10.71379503
H	15.31315792	0.947216893	12.59453881
H	15.427341	-0.390837035	4.680818766
H	16.27242744	2.154379274	4.756360986
H	12.3633954	2.088250249	3.678438943
H	12.25215008	2.050956725	5.416717901
H	12.81788358	-0.42293561	4.555340496
H	12.83953476	5.041519748	10.34475353
H	12.83025114	6.324265067	8.006851201
H	15.30862848	3.114169487	7.744599852
H	13.76039895	2.401973197	7.400930153
H	13.97180419	2.698252814	10.03154411
H	23.47478008	16.06036303	6.197589985
H	21.5917416	14.29912126	5.791716197
H	25.09483725	16.24943236	4.179482028
H	18.4655071	15.75697211	-13.66581244
H	17.43537815	16.05492584	-11.2877434
H	16.65331738	15.67460301	-15.52011395
H	18.18041505	19.72945228	-8.09084754
H	16.63436219	17.63324986	-7.928915805
H	17.75941064	21.0961848	-10.25616361
H	7.932411049	28.72438383	-5.171401041
H	7.390350661	26.40439107	-4.105306181

H	9.914660525	28.60041359	-6.839696038
H	8.045415343	25.08081959	0.800601377
H	7.331728174	23.63562784	-1.250809493
H	10.23042776	26.40819593	0.355032653
H	-4.57947411	24.67071142	3.909050198
H	-6.58040869	23.06860528	3.427500285
H	-2.320755136	23.70144626	3.079161554
H	-10.60656998	23.94945325	0.845897053
H	-9.829367019	21.79215608	2.092291303
H	-8.820976187	24.81566902	-0.826069831
H	-20.4803905	20.05039916	4.501495367
H	-19.25423591	18.41701941	2.879924176
H	-19.38955458	20.10518345	6.854712146
H	-21.08646101	14.69416751	0.451352908
H	-18.66818633	15.67466712	0.519257059
H	-21.96965492	14.0923201	2.821448942
H	-25.35559599	13.97644377	3.616522893
H	-24.73905529	11.69964736	2.49058045
H	-24.23699342	14.25554959	5.941499003
H	-24.308974	-5.537297552	2.274389255
H	-22.07564814	-4.314656164	1.722166354
H	-26.17288925	-3.893550781	3.025397028
H	-17.65785608	-5.089570368	3.384516612
H	-18.51844988	-3.371193168	1.61284929
H	-18.97511584	-4.941466536	5.61359388
H	-27.19101802	8.728091155	7.039759122
H	-25.95080261	9.600166804	4.919748374
H	-25.74317737	7.0728911	8.416517464
H	25.88625898	9.934845184	4.421641712
H	23.74108303	11.32774535	4.934598672
H	25.88795959	8.983725934	2.008170089

Table S5. B3PPQ

Method	Time (s)	iterations	E (eV)	f
CIS	41.9	16	4.71	2.9
TD-BLYP	19.4	9	2.81	0.9
TD-B3LYP	50.0	12	3.52	2.3

C	-12.77207526	13.34041215	-0.212024819
C	-13.04880655	12.23470992	0.578808032
C	-12.18731502	11.1483413	0.586092161
C	-11.0335037	11.14526547	-0.198135204
C	-10.76743024	12.26285411	-0.989374689
C	-11.62757525	13.35040774	-0.995970002
C	-10.11009519	9.979179266	-0.190298263
C	-10.59857603	8.674982572	-0.251262096
C	-9.739447807	7.589044169	-0.244053943
C	-8.358076287	7.764585107	-0.176010356
C	-7.869718228	9.06908594	-0.115681056
C	-8.728856997	10.15490051	-0.122454333
C	-7.435578306	6.599472942	-0.167852891
C	-7.713604777	5.468429301	0.596185201
C	-6.855128334	4.381216869	0.60038805
C	-5.68632342	4.386525217	-0.156734676
C	-5.401271912	5.52246642	-0.91340173
C	-6.261093193	6.604767779	-0.921900078
C	-4.746803902	3.237934977	-0.169750033
C	-5.159743426	1.931836233	0.210879058
C	-4.283174851	0.885305571	0.187252691
C	-2.933213905	1.13720096	-0.216527261
C	-2.611810464	2.454115404	-0.597268646
N	-3.521579275	3.46306466	-0.569481915
C	-1.912409512	0.153752691	-0.230277152
C	-0.634928667	0.45146862	-0.626648836
C	-0.339326392	1.782247927	-1.033678619
C	-1.293442967	2.750596625	-1.014906733
C	-4.753168534	-0.480672509	0.562706877
C	-5.207458372	-0.73812576	1.853503565
C	-5.675667069	-1.998144993	2.199314991
C	-5.698668543	-3.015399344	1.257632431
C	-5.250903204	-2.767549979	-0.032844825
C	-4.780203392	-1.510103418	-0.377638179
C	0.432350348	-0.584195095	-0.6258365
C	0.147180224	-1.907678542	-1.062841114
C	1.10307192	-2.874509437	-1.043539612
C	2.412576274	-2.583419429	-0.595454624
C	2.723499941	-1.273741129	-0.182541817
C	1.701166203	-0.291893943	-0.198594748
N	3.323447192	-3.59134594	-0.568720615

C	4.539725964	-3.371854145	-0.140179124
C	4.942174656	-2.072977196	0.274635234
C	4.064097693	-1.027526189	0.253855854
C	4.523589418	0.331083848	0.667155626
C	4.955929505	0.559061662	1.971241113
C	5.416413749	1.810938369	2.354227655
C	5.45335143	2.849916752	1.436721207
C	5.027243294	2.631825181	0.133811323
C	4.564121335	1.382152248	-0.248149768
C	5.481293913	-4.518800262	-0.130777476
C	5.218717597	-5.636664213	-0.921744781
C	6.08134935	-6.716683763	-0.933708353
C	7.236144304	-6.726843585	-0.149696851
C	7.491570804	-5.613828544	0.647781474
C	6.630110563	-4.528987986	0.656283922
C	8.162156897	-7.889084856	-0.162738816
C	7.676159651	-9.195707047	-0.145196783
C	8.538679627	-10.27880825	-0.155452664
C	9.920815712	-10.09832726	-0.184739569
C	10.40658803	-8.79184247	-0.202840208
C	9.54425782	-7.708581737	-0.191987572
C	10.84783942	-11.26150942	-0.196487458
C	10.59987341	-12.3654611	-1.012460419
C	11.46362657	-13.45007434	-1.022863595
C	12.59386203	-13.45098894	-0.218524076
C	12.85253808	-12.35892016	0.596981172
C	11.98720017	-11.27567274	0.60851267
H	-13.43843578	14.18137754	-0.217106323
H	-13.9281162	12.22043441	1.193975844
H	-12.39966459	10.30732237	1.217833916
H	-9.896267914	12.27186683	-1.615866389
H	-11.40800798	14.19788462	-1.616727373
H	-11.65548615	8.50848497	-0.332595073
H	-10.14492315	6.598575858	-0.321281998
H	-6.81293257	9.236119485	-0.034773582
H	-8.323863834	11.1457016	-0.047222382
H	-8.591447186	5.446150735	1.212492593
H	-7.096026527	3.543017001	1.223819255
H	-4.503488951	5.540881444	-1.495726116
H	-6.029812142	7.453528112	-1.535987629
H	-6.179526204	1.752424447	0.479002282
H	-2.146516096	-0.835127639	0.107212282
H	0.651431208	2.015926637	-1.370676613
H	-1.082617647	3.757042382	-1.314946221
H	-5.186278885	0.044780786	2.587151833
H	-6.017966755	-2.182290246	3.199387451
H	-6.061058058	-3.989324419	1.52431763

H	-5.271815648	-3.548348389	-0.768514384
H	-4.443660426	-1.321325947	-1.379168745
H	-0.836110483	-2.136967631	-1.423748664
H	0.900559663	-3.875743116	-1.365890765
H	1.925959477	0.691042648	0.161913915
H	5.956669487	-1.896449745	0.563923104
H	4.922647353	-0.240890324	2.685809454
H	5.741494831	1.972678021	3.363850852
H	5.809724326	3.817775674	1.732063858
H	5.059046736	3.429676063	-0.582929406
H	4.24492447	1.216794255	-1.259460321
H	4.335980895	-5.643094807	-1.526899869
H	5.868348114	-7.551128952	-1.573472061
H	8.353995713	-5.604229016	1.285849559
H	6.85212877	-3.705461648	1.30573744
H	6.618184904	-9.36723525	-0.095585914
H	8.134548864	-11.27189796	-0.112627542
H	11.46467989	-8.620824629	-0.25393398
H	9.948453384	-6.715504288	-0.234310578
H	9.74052729	-12.36620588	-1.655072305
H	11.25810688	-14.28715432	-1.662293902
H	13.2628798	-14.28978745	-0.227079307
H	13.72066354	-12.35284264	1.227977629
H	12.18528346	-10.44602639	1.259581119

Table S6. PYP chromophore

Method	Time (s)	iterations	E (eV)	f
CIS	7.1	13	3.75	1.6
TD-BLYP	4.7	8	2.32	0.0
TD-B3LYP	8.7	9	2.95	0.0

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514

Table S7. PYP chromophore + 14 waters

Method	Time(s)	iterations	E(eV)	f
CIS	13.7	12	3.70	1.6
TD-BLYP	9.1	6	2.15	0.0
TD-B3LYP	19.7	9	2.90	0.1

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491

O	12.496	18.392	23.093
H	12.583	19.222	23.562
H	12.739	18.6	22.191
O	11.386	16.902	19.667
H	10.675	17.357	19.216
H	11.773	17.567	20.236
O	15.712	18.646	24.882
H	16.604	18.442	24.598
H	15.821	19.333	25.539
O	13.277	19.405	15.875
H	13.618	19.224	14.999
H	13.859	20.078	16.225
O	16.783	20.269	14.756
H	16.29	20.474	15.55
H	16.349	19.496	14.397
O	15.072	21.246	16.941
H	15.033	21.149	17.893
H	15.506	22.088	16.804
O	27.736	17.219	19.315
H	27.382	17.243	18.426
H	27.865	16.288	19.496
O	21.31	21.552	17.118
H	20.371	21.738	17.095
H	21.367	20.637	17.392
O	20.386	16.855	22.874
H	19.688	16.2	22.901
H	21.169	16.361	22.63
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751

Table S8. PYP chromophore + 40 waters

Method	Time(s)	iterations	E(eV)	f
CIS	38.2	12	3.67	1.5
TD-BLYP	19.3	5	0.83	0.0
TD-B3LYP	54.6	11	2.52	0.0

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934

O	24.407	14.872	14.057
H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85
H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
O	25.055	10.896	15.923
H	24.361	10.877	15.264
H	25.56	10.099	15.762
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	12.496	18.392	23.093
H	12.583	19.222	23.562
H	12.739	18.6	22.191
O	19.394	15.833	16.886
H	20.083	16.332	17.326
H	18.978	15.332	17.587
O	17.468	17.185	14.984
H	17.92	16.542	15.53
H	16.609	17.286	15.394
O	14.403	16.848	15.969
H	13.948	17.67	16.154
H	14.21	16.292	16.723
O	18.731	22.555	17.426
H	17.984	22.738	16.856
H	18.404	22.718	18.31
O	21.335	19.709	23.292
H	20.775	20.422	23.599
H	20.725	19.007	23.064
O	11.386	16.902	19.667
H	10.675	17.357	19.216
H	11.773	17.567	20.236
O	15.712	18.646	24.882
H	16.604	18.442	24.598
H	15.821	19.333	25.539
O	13.242	15.061	18.782
H	12.414	14.723	18.441
H	13.003	15.872	19.231
O	13.277	19.405	15.875
H	13.618	19.224	14.999
H	13.859	20.078	16.225
O	24.223	17.423	14.731
H	23.553	17.297	15.402

H	24.473	18.344	14.812
O	19.662	19.241	14.753
H	19.241	19.991	14.332
H	18.958	18.601	14.862
O	22.74	15.438	22.947
H	23.517	15.344	22.397
H	22.671	14.602	23.409
O	16.783	20.269	14.756
H	16.29	20.474	15.55
H	16.349	19.496	14.397
O	20.451	13.255	15.701
H	20.65	13.928	16.352
H	20.389	12.444	16.206
O	16.501	15.419	20.562
H	16.026	15.502	21.388
H	16.832	16.3	20.386
O	24.968	14.88	21.457
H	25.063	13.947	21.268
H	24.656	15.261	20.636
O	15.072	21.246	16.941
H	15.033	21.149	17.893
H	15.506	22.088	16.804
O	11.65	21.466	19.131
H	12.012	20.691	18.703
H	11.042	21.833	18.489
O	14.927	15.308	22.925
H	14.754	14.585	23.528
H	14.552	16.075	23.358
O	27.736	17.219	19.315
H	27.382	17.243	18.426
H	27.865	16.288	19.496
O	21.31	21.552	17.118
H	20.371	21.738	17.095
H	21.367	20.637	17.392
O	20.386	16.855	22.874
H	19.688	16.2	22.901
H	21.169	16.361	22.63
O	27.268	12.771	15.442
H	26.34	12.54	15.396
H	27.646	12.406	14.643
O	18.629	18.047	24.495
H	19.425	17.798	24.027
H	18.252	17.217	24.786
O	19.091	21.702	21.61
H	19.893	21.913	21.132
H	19.386	21.511	22.501
O	24.222	10.565	18.262

H	24.868	9.939	18.589
H	24.551	10.82	17.4
O	19.672	12.13	20.083
H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751
O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492

Table S9. PYP chromophore + 63 waters

Method	Time(s)	iterations	E(eV)	f
CIS	71.9	12	3.66	1.6
TD-BLYP	32.1	6	0.73	0.0
TD-B3LYP	83.2	9	2.40	0.0

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934

O	24.407	14.872	14.057
H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85
H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	29.304	15.125	15.496
H	29.712	15.071	16.36
H	28.974	14.241	15.332
O	24.198	19.84	23.687
H	24.475	20.696	23.361
H	23.265	19.795	23.477
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
O	25.055	10.896	15.923
H	24.361	10.877	15.264
H	25.56	10.099	15.762
O	13.129	20.587	24.819
H	14.035	20.781	25.059
H	12.692	21.438	24.822
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	12.756	16.479	24.912
H	13.482	16.7	25.496
H	12.671	17.239	24.337
O	12.496	18.392	23.093
H	12.583	19.222	23.562
H	12.739	18.6	22.191
O	19.394	15.833	16.886
H	20.083	16.332	17.326
H	18.978	15.332	17.587
O	23.37	10.671	13.931
H	22.71	9.994	14.082
H	22.878	11.41	13.574
O	17.468	17.185	14.984
H	17.92	16.542	15.53
H	16.609	17.286	15.394
O	14.403	16.848	15.969
H	13.948	17.67	16.154
H	14.21	16.292	16.723
O	25.06	21.993	21.145
H	25.996	22.109	20.98
H	24.83	21.197	20.666
O	17.57	13.249	16.234
H	18.437	13.654	16.246

H	17.195	13.459	17.089
O	21.627	12.663	13.231
H	21.25	12.924	14.071
H	21.47	13.412	12.655
O	17.755	15.73	25.649
H	18.607	15.4	25.932
H	17.126	15.092	25.988
O	18.731	22.555	17.426
H	17.984	22.738	16.856
H	18.404	22.718	18.31
O	21.335	19.709	23.292
H	20.775	20.422	23.599
H	20.725	19.007	23.064
O	11.386	16.902	19.667
H	10.675	17.357	19.216
H	11.773	17.567	20.236
O	15.712	18.646	24.882
H	16.604	18.442	24.598
H	15.821	19.333	25.539
O	24.681	20.073	14.961
H	23.846	20.534	15.05
H	25.116	20.506	14.227
O	15.03	16.584	26.547
H	15.496	17.223	26.006
H	14.873	17.039	27.374
O	13.242	15.061	18.782
H	12.414	14.723	18.441
H	13.003	15.872	19.231
O	14.272	18.25	13.393
H	14.767	17.467	13.154
H	13.532	18.261	12.786
O	13.277	19.405	15.875
H	13.618	19.224	14.999
H	13.859	20.078	16.225
O	15.771	14.127	18.118
H	16.154	14.342	18.969
H	14.88	14.475	18.163
O	24.223	17.423	14.731
H	23.553	17.297	15.402
H	24.473	18.344	14.812
O	19.662	19.241	14.753
H	19.241	19.991	14.332
H	18.958	18.601	14.862
O	22.74	15.438	22.947
H	23.517	15.344	22.397
H	22.671	14.602	23.409
O	16.783	20.269	14.756

H	16.29	20.474	15.55
H	16.349	19.496	14.397
O	20.451	13.255	15.701
H	20.65	13.928	16.352
H	20.389	12.444	16.206
O	16.501	15.419	20.562
H	16.026	15.502	21.388
H	16.832	16.3	20.386
O	24.968	14.88	21.457
H	25.063	13.947	21.268
H	24.656	15.261	20.636
O	9.428	18.475	18.235
H	8.496	18.538	18.445
H	9.453	18.386	17.282
O	9.908	17.41	23.452
H	10.793	17.759	23.344
H	9.347	18.185	23.484
O	15.072	21.246	16.941
H	15.033	21.149	17.893
H	15.506	22.088	16.804
O	16.921	23.022	22.968
H	16.499	23.164	22.121
H	17.771	22.638	22.751
O	11.65	21.466	19.131
H	12.012	20.691	18.703
H	11.042	21.833	18.489
O	25.465	16.898	23.713
H	25.257	16.216	23.076
H	24.796	17.568	23.574
O	14.927	15.308	22.925
H	14.754	14.585	23.528
H	14.552	16.075	23.358
O	27.736	17.219	19.315
H	27.382	17.243	18.426
H	27.865	16.288	19.496
O	21.31	21.552	17.118
H	20.371	21.738	17.095
H	21.367	20.637	17.392
O	20.386	16.855	22.874
H	19.688	16.2	22.901
H	21.169	16.361	22.63
O	27.268	12.771	15.442
H	26.34	12.54	15.396
H	27.646	12.406	14.643
O	15.15	23.322	20.352
H	15.685	22.545	20.191
H	14.359	22.986	20.773

O	18.279	15.065	22.961
H	17.794	15.164	23.781
H	17.829	14.357	22.501
O	18.629	18.047	24.495
H	19.425	17.798	24.027
H	18.252	17.217	24.786
O	19.091	21.702	21.61
H	19.893	21.913	21.132
H	19.386	21.511	22.501
O	21.055	15.483	13.922
H	20.52	14.923	14.484
H	21.497	16.077	14.529
O	24.222	10.565	18.262
H	24.868	9.939	18.589
H	24.551	10.82	17.4
O	19.672	12.13	20.083
H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751
O	10.889	20.232	15.06
H	10.994	20.785	14.286
H	11.766	20.18	15.439
O	15.493	21.324	26.146
H	15.28	22.159	25.728
H	15.233	21.441	27.059
O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492
O	10.827	15.006	21.802
H	11.27	15.512	21.121
H	10.502	15.664	22.417

Table S10. PYP chromophore + 101 waters

Method	Time(s)	iterations	E(eV)	f
CIS	133.2	12	3.64	1.6
TD-BLYP	54.8	7	0.08	0.0
TD-B3LYP	111.9	6	1.65	0.0

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	24.938	16.847	11.925
H	24.601	17.235	12.732
H	25.689	16.325	12.206
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601
O	30.751	18.966	19.536
H	30.85	19.768	19.022
H	29.824	18.742	19.454
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328

O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	28.345	21.116	22.423
H	29.083	21.585	22.033
H	27.883	20.733	21.678
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934
O	24.407	14.872	14.057
H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85
H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	29.304	15.125	15.496
H	29.712	15.071	16.36
H	28.974	14.241	15.332
O	27.648	21.192	16.796
H	27.35	20.499	16.206
H	26.861	21.705	16.979
O	24.198	19.84	23.687
H	24.475	20.696	23.361
H	23.265	19.795	23.477
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
O	25.055	10.896	15.923
H	24.361	10.877	15.264
H	25.56	10.099	15.762
O	27.663	15.508	12.777
H	28.527	15.453	12.369
H	27.845	15.681	13.701
O	26.642	8.919	16.155
H	27.111	8.832	15.325
H	27.2	8.476	16.794
O	28.184	19.383	14.719
H	27.476	19.592	14.11
H	28.984	19.585	14.233
O	13.129	20.587	24.819
H	14.035	20.781	25.059
H	12.692	21.438	24.822
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	10.628	21.988	23.73
H	11.119	22.808	23.678

H	10.072	21.992	22.95
O	12.756	16.479	24.912
H	13.482	16.7	25.496
H	12.671	17.239	24.337
O	23.729	23.294	23.224
H	24.058	24.189	23.134
H	24.062	22.838	22.451
O	19.811	22.199	24.228
H	20.647	22.43	24.631
H	19.187	22.198	24.953
O	22.458	17.144	25.325
H	22.54	16.622	24.528
H	23.125	17.825	25.235
O	12.496	18.392	23.093
H	12.583	19.222	23.562
H	12.739	18.6	22.191
O	19.394	15.833	16.886
H	20.083	16.332	17.326
H	18.978	15.332	17.587
O	23.37	10.671	13.931
H	22.71	9.994	14.082
H	22.878	11.41	13.574
O	15.044	14.239	14.849
H	14.889	15.184	14.839
H	15.803	14.127	15.421
O	17.468	17.185	14.984
H	17.92	16.542	15.53
H	16.609	17.286	15.394
O	14.403	16.848	15.969
H	13.948	17.67	16.154
H	14.21	16.292	16.723
O	25.06	21.993	21.145
H	25.996	22.109	20.98
H	24.83	21.197	20.666
O	17.57	13.249	16.234
H	18.437	13.654	16.246
H	17.195	13.459	17.089
O	21.627	12.663	13.231
H	21.25	12.924	14.071
H	21.47	13.412	12.655
O	17.755	15.73	25.649
H	18.607	15.4	25.932
H	17.126	15.092	25.988
O	18.731	22.555	17.426
H	17.984	22.738	16.856
H	18.404	22.718	18.31
O	14.368	13.467	21.096

H	14.669	14.215	21.613
H	14.139	13.841	20.245
O	22.909	23.677	16.692
H	22.302	24.379	16.929
H	22.394	22.875	16.78
O	8.898	18.427	15.597
H	9.56	19.004	15.215
H	8.079	18.693	15.179
O	21.335	19.709	23.292
H	20.775	20.422	23.599
H	20.725	19.007	23.064
O	11.386	16.902	19.667
H	10.675	17.357	19.216
H	11.773	17.567	20.236
O	15.712	18.646	24.882
H	16.604	18.442	24.598
H	15.821	19.333	25.539
O	24.681	20.073	14.961
H	23.846	20.534	15.05
H	25.116	20.506	14.227
O	15.03	16.584	26.547
H	15.496	17.223	26.006
H	14.873	17.039	27.374
O	13.242	15.061	18.782
H	12.414	14.723	18.441
H	13.003	15.872	19.231
O	14.272	18.25	13.393
H	14.767	17.467	13.154
H	13.532	18.261	12.786
O	13.277	19.405	15.875
H	13.618	19.224	14.999
H	13.859	20.078	16.225
O	15.771	14.127	18.118
H	16.154	14.342	18.969
H	14.88	14.475	18.163
O	14.25	22.462	13.34
H	14.147	22.425	12.389
H	15.019	23.016	13.476
O	22.076	9.108	15.841
H	22.533	9.041	16.68
H	21.422	9.793	15.978
O	24.223	17.423	14.731
H	23.553	17.297	15.402
H	24.473	18.344	14.812
O	19.662	19.241	14.753
H	19.241	19.991	14.332
H	18.958	18.601	14.862

O	22.74	15.438	22.947
H	23.517	15.344	22.397
H	22.671	14.602	23.409
O	16.339	23.922	16.134
H	16.628	24.337	15.322
H	15.499	24.337	16.33
O	16.783	20.269	14.756
H	16.29	20.474	15.55
H	16.349	19.496	14.397
O	20.451	13.255	15.701
H	20.65	13.928	16.352
H	20.389	12.444	16.206
O	24.977	13.027	11.868
H	25.252	12.3	12.426
H	24.624	13.676	12.477
O	16.501	15.419	20.562
H	16.026	15.502	21.388
H	16.832	16.3	20.386
O	25.356	22.448	17.363
H	25.957	23.193	17.351
H	24.51	22.82	17.113
O	24.968	14.88	21.457
H	25.063	13.947	21.268
H	24.656	15.261	20.636
O	9.428	18.475	18.235
H	8.496	18.538	18.445
H	9.453	18.386	17.282
O	21.547	23.357	21.133
H	22.255	23.657	20.563
H	21.957	23.253	21.991
O	9.908	17.41	23.452
H	10.793	17.759	23.344
H	9.347	18.185	23.484
O	15.072	21.246	16.941
H	15.033	21.149	17.893
H	15.506	22.088	16.804
O	17.755	17.448	12.332
H	18.247	17.413	13.152
H	16.93	17.005	12.528
O	16.921	23.022	22.968
H	16.499	23.164	22.121
H	17.771	22.638	22.751
O	17.786	21.334	12.658
H	17.278	22.145	12.626
H	17.52	20.917	13.477
O	11.65	21.466	19.131
H	12.012	20.691	18.703

H	11.042	21.833	18.489
O	25.465	16.898	23.713
H	25.257	16.216	23.076
H	24.796	17.568	23.574
O	14.927	15.308	22.925
H	14.754	14.585	23.528
H	14.552	16.075	23.358
O	27.736	17.219	19.315
H	27.382	17.243	18.426
H	27.865	16.288	19.496
O	14.371	13.497	24.665
H	13.969	12.678	24.955
H	15.312	13.331	24.71
O	21.31	21.552	17.118
H	20.371	21.738	17.095
H	21.367	20.637	17.392
O	20.386	16.855	22.874
H	19.688	16.2	22.901
H	21.169	16.361	22.63
O	16.815	12.151	21.77
H	15.968	12.574	21.625
H	17.118	11.915	20.894
O	23.346	13.405	24.485
H	23.579	13.548	25.403
H	24.171	13.162	24.065
O	27.268	12.771	15.442
H	26.34	12.54	15.396
H	27.646	12.406	14.643
O	20.594	10.31	22.154
H	21.357	9.739	22.06
H	20.755	10.793	22.965
O	19.409	24.33	19.467
H	20.177	23.984	19.922
H	19.523	24.05	18.559
O	15.15	23.322	20.352
H	15.685	22.545	20.191
H	14.359	22.986	20.773
O	22.52	22.091	13.856
H	21.633	22.215	13.52
H	22.443	22.242	14.798
O	18.279	15.065	22.961
H	17.794	15.164	23.781
H	17.829	14.357	22.501
O	18.629	18.047	24.495
H	19.425	17.798	24.027
H	18.252	17.217	24.786
O	19.091	21.702	21.61

H	19.893	21.913	21.132
H	19.386	21.511	22.501
O	21.055	15.483	13.922
H	20.52	14.923	14.484
H	21.497	16.077	14.529
O	24.222	10.565	18.262
H	24.868	9.939	18.589
H	24.551	10.82	17.4
O	25.046	11.998	21.977
H	25.844	12.043	22.503
H	24.907	11.062	21.832
O	19.672	12.13	20.083
H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
O	22.325	8.632	18.507
H	23.08	9.21	18.608
H	21.889	8.655	19.359
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751
O	17.242	11.293	18.992
H	17.164	10.418	18.613
H	16.411	11.72	18.781
O	11.233	24.062	21.261
H	10.486	23.476	21.134
H	11.931	23.493	21.584
O	9.281	21.829	21.265
H	8.698	22.45	20.829
H	9.496	21.187	20.588
O	10.627	16.069	14.79
H	10.043	16.794	15.01
H	11.485	16.478	14.678
O	10.889	20.232	15.06
H	10.994	20.785	14.286
H	11.766	20.18	15.439
O	15.493	21.324	26.146
H	15.28	22.159	25.728
H	15.233	21.441	27.059
O	9.436	21.342	17.242
H	9.867	22.169	17.025
H	9.86	20.696	16.678
O	12.158	18.656	26.6
H	11.225	18.793	26.439
H	12.596	19.249	25.989

O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492
O	10.827	15.006	21.802
H	11.27	15.512	21.121
H	10.502	15.664	22.417
O	11.083	14.387	17.521
H	10.829	15.24	17.873
H	11.042	14.498	16.572

Table S11. PYP chromophore + 146 waters

Method	Time(s)	iterations	E(eV)	f
CIS	217.5	12	3.64	1.6
TD-BLYP	77.7	6	0.03	0.0
TD-B3LYP	173.4	6	1.27	0.0

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	30.112	21.211	18.047
H	30.308	22.125	18.252
H	29.292	21.246	17.554
O	28.391	13.11	22.223
H	29.252	12.971	21.829
H	28.33	12.444	22.907
O	24.938	16.847	11.925
H	24.601	17.235	12.732
H	25.689	16.325	12.206
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601

O	29.689	10.354	19.041
H	30.009	9.628	18.504
H	28.925	10.684	18.568
O	31.465	16.672	14.469
H	32.168	16.029	14.378
H	30.721	16.168	14.799
O	30.751	18.966	19.536
H	30.85	19.768	19.022
H	29.824	18.742	19.454
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	31.889	16.56	19.452
H	32.012	16.092	20.278
H	31.432	17.364	19.699
O	30.544	12.556	20.427
H	30.218	11.819	19.909
H	30.792	13.214	19.777
O	28.345	21.116	22.423
H	29.083	21.585	22.033
H	27.883	20.733	21.678
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934
O	24.407	14.872	14.057
H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85
H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	29.304	15.125	15.496
H	29.712	15.071	16.36
H	28.974	14.241	15.332
O	27.648	21.192	16.796
H	27.35	20.499	16.206
H	26.861	21.705	16.979
O	24.198	19.84	23.687
H	24.475	20.696	23.361
H	23.265	19.795	23.477
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
O	25.055	10.896	15.923
H	24.361	10.877	15.264

H	25.56	10.099	15.762
O	27.663	15.508	12.777
H	28.527	15.453	12.369
H	27.845	15.681	13.701
O	26.642	8.919	16.155
H	27.111	8.832	15.325
H	27.2	8.476	16.794
O	28.184	19.383	14.719
H	27.476	19.592	14.11
H	28.984	19.585	14.233
O	29.441	10.867	16.12
H	29.416	10.227	15.408
H	28.616	11.345	16.04
O	12.238	24.196	24.379
H	12.264	25.01	23.876
H	13.158	23.962	24.504
O	13.129	20.587	24.819
H	14.035	20.781	25.059
H	12.692	21.438	24.822
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	14.1	25.544	16.465
H	14.254	26.406	16.851
H	13.352	25.195	16.95
O	10.628	21.988	23.73
H	11.119	22.808	23.678
H	10.072	21.992	22.95
O	12.756	16.479	24.912
H	13.482	16.7	25.496
H	12.671	17.239	24.337
O	16.042	14.118	27.054
H	15.404	14.757	26.737
H	16.134	14.312	27.986
O	23.729	23.294	23.224
H	24.058	24.189	23.134
H	24.062	22.838	22.451
O	19.811	22.199	24.228
H	20.647	22.43	24.631
H	19.187	22.198	24.953
O	22.458	17.144	25.325
H	22.54	16.622	24.528
H	23.125	17.825	25.235
O	14.851	23.762	24.915
H	15.36	24.056	24.159
H	15.232	24.231	25.657
O	12.496	18.392	23.093

H	12.583	19.222	23.562
H	12.739	18.6	22.191
O	10.883	14.903	26.04
H	10.417	14.692	25.231
H	11.719	15.265	25.746
O	11.851	12.855	23.124
H	11.658	13.712	22.744
H	12.698	12.969	23.555
O	10.014	20.59	26.179
H	9.549	21.152	26.799
H	10.185	21.155	25.426
O	19.394	15.833	16.886
H	20.083	16.332	17.326
H	18.978	15.332	17.587
O	16.945	12.623	24.602
H	16.984	12.276	23.71
H	17.651	12.172	25.065
O	23.37	10.671	13.931
H	22.71	9.994	14.082
H	22.878	11.41	13.574
O	15.044	14.239	14.849
H	14.889	15.184	14.839
H	15.803	14.127	15.421
O	17.468	17.185	14.984
H	17.92	16.542	15.53
H	16.609	17.286	15.394
O	14.403	16.848	15.969
H	13.948	17.67	16.154
H	14.21	16.292	16.723
O	25.06	21.993	21.145
H	25.996	22.109	20.98
H	24.83	21.197	20.666
O	17.57	13.249	16.234
H	18.437	13.654	16.246
H	17.195	13.459	17.089
O	15.28	15.817	12.454
H	14.861	15.48	11.662
H	15.297	15.07	13.052
O	21.627	12.663	13.231
H	21.25	12.924	14.071
H	21.47	13.412	12.655
O	17.755	15.73	25.649
H	18.607	15.4	25.932
H	17.126	15.092	25.988
O	18.731	22.555	17.426
H	17.984	22.738	16.856
H	18.404	22.718	18.31

O	14.368	13.467	21.096
H	14.669	14.215	21.613
H	14.139	13.841	20.245
O	22.909	23.677	16.692
H	22.302	24.379	16.929
H	22.394	22.875	16.78
O	8.898	18.427	15.597
H	9.56	19.004	15.215
H	8.079	18.693	15.179
O	11.489	21.897	12.634
H	12.403	21.614	12.659
H	11.531	22.85	12.711
O	21.335	19.709	23.292
H	20.775	20.422	23.599
H	20.725	19.007	23.064
O	25.524	21.135	12.809
H	25.102	20.588	12.146
H	25.298	22.031	12.559
O	11.386	16.902	19.667
H	10.675	17.357	19.216
H	11.773	17.567	20.236
O	27.741	16.05	24.581
H	26.823	16.164	24.335
H	28.205	16.731	24.094
O	15.712	18.646	24.882
H	16.604	18.442	24.598
H	15.821	19.333	25.539
O	24.681	20.073	14.961
H	23.846	20.534	15.05
H	25.116	20.506	14.227
O	18.261	22.005	26.323
H	17.341	22.148	26.101
H	18.241	21.652	27.212
O	15.03	16.584	26.547
H	15.496	17.223	26.006
H	14.873	17.039	27.374
O	19.257	18.968	27.196
H	19.113	18.833	26.259
H	19.164	18.097	27.581
O	13.242	15.061	18.782
H	12.414	14.723	18.441
H	13.003	15.872	19.231
O	18.487	11.278	13.645
H	18.181	11.915	13
H	18.748	11.807	14.399
O	14.272	18.25	13.393
H	14.767	17.467	13.154

H	13.532	18.261	12.786
O	21.4	11.534	24.354
H	22.108	10.945	24.616
H	21.833	12.373	24.195
O	14.464	18.51	28.583
H	13.694	19.017	28.328
H	14.964	19.1	29.147
O	13.277	19.405	15.875
H	13.618	19.224	14.999
H	13.859	20.078	16.225
O	15.771	14.127	18.118
H	16.154	14.342	18.969
H	14.88	14.475	18.163
O	14.25	22.462	13.34
H	14.147	22.425	12.389
H	15.019	23.016	13.476
O	22.076	9.108	15.841
H	22.533	9.041	16.68
H	21.422	9.793	15.978
O	24.223	17.423	14.731
H	23.553	17.297	15.402
H	24.473	18.344	14.812
O	27.991	19.053	24.709
H	27.83	19.759	24.083
H	27.119	18.729	24.934
O	21.065	25.826	17.148
H	21.323	26.57	17.693
H	20.241	26.1	16.744
O	19.662	19.241	14.753
H	19.241	19.991	14.332
H	18.958	18.601	14.862
O	22.74	15.438	22.947
H	23.517	15.344	22.397
H	22.671	14.602	23.409
O	22.303	16.254	11.052
H	23.249	16.2	11.189
H	21.924	15.914	11.862
O	16.339	23.922	16.134
H	16.628	24.337	15.322
H	15.499	24.337	16.33
O	21.65	19.95	11.103
H	21.479	19.292	11.777
H	21.353	20.773	11.491
O	16.783	20.269	14.756
H	16.29	20.474	15.55
H	16.349	19.496	14.397
O	20.451	13.255	15.701

H	20.65	13.928	16.352
H	20.389	12.444	16.206
O	24.977	13.027	11.868
H	25.252	12.3	12.426
H	24.624	13.676	12.477
O	18.644	13.758	12.463
H	18.538	14.559	12.976
H	18.746	14.063	11.561
O	16.501	15.419	20.562
H	16.026	15.502	21.388
H	16.832	16.3	20.386
O	27.658	10.103	21.625
H	28.235	10.275	20.881
H	27.592	10.945	22.077
O	25.356	22.448	17.363
H	25.957	23.193	17.351
H	24.51	22.82	17.113
O	24.968	14.88	21.457
H	25.063	13.947	21.268
H	24.656	15.261	20.636
O	16.794	19.565	10.797
H	16.91	18.774	11.323
H	17.268	20.244	11.278
O	9.428	18.475	18.235
H	8.496	18.538	18.445
H	9.453	18.386	17.282
O	21.547	23.357	21.133
H	22.255	23.657	20.563
H	21.957	23.253	21.991
O	9.908	17.41	23.452
H	10.793	17.759	23.344
H	9.347	18.185	23.484
O	15.072	21.246	16.941
H	15.033	21.149	17.893
H	15.506	22.088	16.804
O	17.755	17.448	12.332
H	18.247	17.413	13.152
H	16.93	17.005	12.528
O	16.921	23.022	22.968
H	16.499	23.164	22.121
H	17.771	22.638	22.751
O	8.472	19.84	23.852
H	8.277	20.697	23.474
H	8.95	20.037	24.658
O	17.786	21.334	12.658
H	17.278	22.145	12.626
H	17.52	20.917	13.477

O	11.65	21.466	19.131
H	12.012	20.691	18.703
H	11.042	21.833	18.489
O	25.465	16.898	23.713
H	25.257	16.216	23.076
H	24.796	17.568	23.574
O	25.204	18.77	26.226
H	24.96	19.407	25.555
H	24.691	19.022	26.994
O	14.927	15.308	22.925
H	14.754	14.585	23.528
H	14.552	16.075	23.358
O	27.736	17.219	19.315
H	27.382	17.243	18.426
H	27.865	16.288	19.496
O	14.371	13.497	24.665
H	13.969	12.678	24.955
H	15.312	13.331	24.71
O	20.257	22.752	12.421
H	19.441	22.302	12.202
H	19.999	23.665	12.552
O	16.52	23.984	12.622
H	16.125	24.529	11.941
H	17.05	24.593	13.138
O	21.31	21.552	17.118
H	20.371	21.738	17.095
H	21.367	20.637	17.392
O	28.098	12.063	12.714
H	28.49	12.491	11.953
H	27.572	11.353	12.345
O	20.386	16.855	22.874
H	19.688	16.2	22.901
H	21.169	16.361	22.63
O	16.815	12.151	21.77
H	15.968	12.574	21.625
H	17.118	11.915	20.894
O	23.346	13.405	24.485
H	23.579	13.548	25.403
H	24.171	13.162	24.065
O	27.268	12.771	15.442
H	26.34	12.54	15.396
H	27.646	12.406	14.643
O	20.594	10.31	22.154
H	21.357	9.739	22.06
H	20.755	10.793	22.965
O	19.409	24.33	19.467
H	20.177	23.984	19.922

H	19.523	24.05	18.559
O	15.15	23.322	20.352
H	15.685	22.545	20.191
H	14.359	22.986	20.773
O	22.52	22.091	13.856
H	21.633	22.215	13.52
H	22.443	22.242	14.798
O	18.279	15.065	22.961
H	17.794	15.164	23.781
H	17.829	14.357	22.501
O	28.018	22.874	19.665
H	27.946	21.926	19.553
H	28.904	23.008	20.002
O	18.629	18.047	24.495
H	19.425	17.798	24.027
H	18.252	17.217	24.786
O	19.091	21.702	21.61
H	19.893	21.913	21.132
H	19.386	21.511	22.501
O	23.917	24.227	20.046
H	24.379	23.451	20.363
H	24.368	24.46	19.235
O	21.055	15.483	13.922
H	20.52	14.923	14.484
H	21.497	16.077	14.529
O	24.222	10.565	18.262
H	24.868	9.939	18.589
H	24.551	10.82	17.4
O	25.046	11.998	21.977
H	25.844	12.043	22.503
H	24.907	11.062	21.832
O	22.582	8.671	21.629
H	22.293	7.763	21.724
H	23.441	8.695	22.051
O	19.672	12.13	20.083
H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	25.745	8.456	19.464
H	26.1	7.602	19.219
H	25.767	8.46	20.421
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
O	22.325	8.632	18.507
H	23.08	9.21	18.608
H	21.889	8.655	19.359
O	18.294	8.698	21.634

H	19.002	9.278	21.914
H	17.596	8.848	22.271
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751
O	17.242	11.293	18.992
H	17.164	10.418	18.613
H	16.411	11.72	18.781
O	11.233	24.062	21.261
H	10.486	23.476	21.134
H	11.931	23.493	21.584
O	9.281	21.829	21.265
H	8.698	22.45	20.829
H	9.496	21.187	20.588
O	10.627	16.069	14.79
H	10.043	16.794	15.01
H	11.485	16.478	14.678
O	10.889	20.232	15.06
H	10.994	20.785	14.286
H	11.766	20.18	15.439
O	15.493	21.324	26.146
H	15.28	22.159	25.728
H	15.233	21.441	27.059
O	9.436	21.342	17.242
H	9.867	22.169	17.025
H	9.86	20.696	16.678
O	12.158	18.656	26.6
H	11.225	18.793	26.439
H	12.596	19.249	25.989
O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492
O	11.853	25.183	18.281
H	11.887	24.91	19.198
H	11.671	26.122	18.318
O	6.632	18.898	19.134
H	6.882	18.464	19.949
H	6.162	18.226	18.64
O	10.827	15.006	21.802
H	11.27	15.512	21.121
H	10.502	15.664	22.417
O	11.083	14.387	17.521
H	10.829	15.24	17.873
H	11.042	14.498	16.572
O	10.412	23.596	16.652
H	10.728	24.219	17.306
H	10.385	24.097	15.837

O	7.234	18.164	22.144
H	7.628	18.837	22.698
H	6.779	17.586	22.756

Table S12. PYP chromophore + 192 waters

Method	Time(s)	iterations	E(eV)	f
CIS	318.1	12	3.64	1.6
TD-BLYP	-	-	-	-
TD-B3LYP*	217.7	5	1.14	0.0

*residual converged to only 0.00002

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	30.112	21.211	18.047
H	30.308	22.125	18.252
H	29.292	21.246	17.554
O	28.391	13.11	22.223
H	29.252	12.971	21.829
H	28.33	12.444	22.907
O	24.938	16.847	11.925
H	24.601	17.235	12.732
H	25.689	16.325	12.206
O	32.469	14.752	21.385
H	33.348	14.759	21.766

H	32.195	13.836	21.431
O	30.816	19.132	13.418
H	30.974	18.346	13.94
H	31.54	19.153	12.792
O	30.284	15.257	11.884
H	31.234	15.279	11.994
H	30.077	14.33	11.768
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601
O	29.689	10.354	19.041
H	30.009	9.628	18.504
H	28.925	10.684	18.568
O	31.465	16.672	14.469
H	32.168	16.029	14.378
H	30.721	16.168	14.799
O	30.751	18.966	19.536
H	30.85	19.768	19.022
H	29.824	18.742	19.454
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	29.855	14.696	24.663
H	29.947	14.331	23.783
H	29.069	15.241	24.615
O	31.889	16.56	19.452
H	32.012	16.092	20.278
H	31.432	17.364	19.699
O	30.544	12.556	20.427
H	30.218	11.819	19.909
H	30.792	13.214	19.777
O	28.345	21.116	22.423
H	29.083	21.585	22.033
H	27.883	20.733	21.678
O	28.626	7.578	18.14
H	29.131	7.399	18.934
H	27.944	6.906	18.134
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934
O	24.407	14.872	14.057
H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85

H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	29.304	15.125	15.496
H	29.712	15.071	16.36
H	28.974	14.241	15.332
O	27.648	21.192	16.796
H	27.35	20.499	16.206
H	26.861	21.705	16.979
O	29.094	23.158	15.712
H	28.684	22.32	15.928
H	29.846	22.923	15.168
O	24.198	19.84	23.687
H	24.475	20.696	23.361
H	23.265	19.795	23.477
O	31.049	20.49	23.466
H	31.305	20.855	22.619
H	30.106	20.348	23.391
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
O	25.055	10.896	15.923
H	24.361	10.877	15.264
H	25.56	10.099	15.762
O	27.663	15.508	12.777
H	28.527	15.453	12.369
H	27.845	15.681	13.701
O	26.642	8.919	16.155
H	27.111	8.832	15.325
H	27.2	8.476	16.794
O	22.286	8.889	11.272
H	23.098	9.247	10.913
H	22.562	8.394	12.043
O	28.184	19.383	14.719
H	27.476	19.592	14.11
H	28.984	19.585	14.233
O	25.355	8.517	22.306
H	25.206	7.892	23.016
H	26.306	8.621	22.275
O	29.441	10.867	16.12
H	29.416	10.227	15.408
H	28.616	11.345	16.04
O	28.552	8.795	13.93
H	29.499	8.672	13.861
H	28.268	8.976	13.034
O	12.238	24.196	24.379
H	12.264	25.01	23.876
H	13.158	23.962	24.504

O	18.176	26.857	16.936
H	17.888	25.989	17.218
H	17.621	27.464	17.426
O	13.129	20.587	24.819
H	14.035	20.781	25.059
H	12.692	21.438	24.822
O	8.368	24.538	22.244
H	8.26	25.485	22.33
H	8.09	24.345	21.349
O	14.801	26.026	20.08
H	15.168	25.155	19.923
H	14.58	26.028	21.011
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	14.1	25.544	16.465
H	14.254	26.406	16.851
H	13.352	25.195	16.95
O	10.628	21.988	23.73
H	11.119	22.808	23.678
H	10.072	21.992	22.95
O	12.756	16.479	24.912
H	13.482	16.7	25.496
H	12.671	17.239	24.337
O	16.042	14.118	27.054
H	15.404	14.757	26.737
H	16.134	14.312	27.986
O	11.873	17.622	29.258
H	11.424	17.928	28.469
H	12.778	17.482	28.979
O	23.729	23.294	23.224
H	24.058	24.189	23.134
H	24.062	22.838	22.451
O	21.773	16.589	28.207
H	21.965	16.894	27.32
H	22.616	16.28	28.541
O	19.811	22.199	24.228
H	20.647	22.43	24.631
H	19.187	22.198	24.953
O	22.458	17.144	25.325
H	22.54	16.622	24.528
H	23.125	17.825	25.235
O	14.851	23.762	24.915
H	15.36	24.056	24.159
H	15.232	24.231	25.657
O	12.496	18.392	23.093
H	12.583	19.222	23.562

H	12.739	18.6	22.191
O	13.511	21.266	28.659
H	12.659	21.659	28.471
H	13.674	21.478	29.579
O	9.923	17.477	27.295
H	9.111	17.051	27.568
H	10.363	16.827	26.747
O	10.883	14.903	26.04
H	10.417	14.692	25.231
H	11.719	15.265	25.746
O	11.851	12.855	23.124
H	11.658	13.712	22.744
H	12.698	12.969	23.555
O	10.014	20.59	26.179
H	9.549	21.152	26.799
H	10.185	21.155	25.426
O	19.394	15.833	16.886
H	20.083	16.332	17.326
H	18.978	15.332	17.587
O	16.945	12.623	24.602
H	16.984	12.276	23.71
H	17.651	12.172	25.065
O	23.37	10.671	13.931
H	22.71	9.994	14.082
H	22.878	11.41	13.574
O	15.044	14.239	14.849
H	14.889	15.184	14.839
H	15.803	14.127	15.421
O	17.468	17.185	14.984
H	17.92	16.542	15.53
H	16.609	17.286	15.394
O	14.403	16.848	15.969
H	13.948	17.67	16.154
H	14.21	16.292	16.723
O	15.941	22.78	28.839
H	15.971	22.046	29.452
H	16.454	23.468	29.264
O	25.06	21.993	21.145
H	25.996	22.109	20.98
H	24.83	21.197	20.666
O	17.57	13.249	16.234
H	18.437	13.654	16.246
H	17.195	13.459	17.089
O	15.28	15.817	12.454
H	14.861	15.48	11.662
H	15.297	15.07	13.052
O	21.627	12.663	13.231

H	21.25	12.924	14.071
H	21.47	13.412	12.655
O	17.755	15.73	25.649
H	18.607	15.4	25.932
H	17.126	15.092	25.988
O	18.731	22.555	17.426
H	17.984	22.738	16.856
H	18.404	22.718	18.31
O	14.368	13.467	21.096
H	14.669	14.215	21.613
H	14.139	13.841	20.245
O	22.909	23.677	16.692
H	22.302	24.379	16.929
H	22.394	22.875	16.78
O	8.898	18.427	15.597
H	9.56	19.004	15.215
H	8.079	18.693	15.179
O	11.489	21.897	12.634
H	12.403	21.614	12.659
H	11.531	22.85	12.711
O	21.335	19.709	23.292
H	20.775	20.422	23.599
H	20.725	19.007	23.064
O	25.524	21.135	12.809
H	25.102	20.588	12.146
H	25.298	22.031	12.559
O	11.386	16.902	19.667
H	10.675	17.357	19.216
H	11.773	17.567	20.236
O	27.741	16.05	24.581
H	26.823	16.164	24.335
H	28.205	16.731	24.094
O	15.712	18.646	24.882
H	16.604	18.442	24.598
H	15.821	19.333	25.539
O	24.681	20.073	14.961
H	23.846	20.534	15.05
H	25.116	20.506	14.227
O	18.261	22.005	26.323
H	17.341	22.148	26.101
H	18.241	21.652	27.212
O	15.03	16.584	26.547
H	15.496	17.223	26.006
H	14.873	17.039	27.374
O	19.257	18.968	27.196
H	19.113	18.833	26.259
H	19.164	18.097	27.581

O	13.242	15.061	18.782
H	12.414	14.723	18.441
H	13.003	15.872	19.231
O	18.487	11.278	13.645
H	18.181	11.915	13
H	18.748	11.807	14.399
O	16.854	8.504	19.286
H	17.512	8.476	19.98
H	16.016	8.472	19.748
O	14.272	18.25	13.393
H	14.767	17.467	13.154
H	13.532	18.261	12.786
O	21.4	11.534	24.354
H	22.108	10.945	24.616
H	21.833	12.373	24.195
O	14.464	18.51	28.583
H	13.694	19.017	28.328
H	14.964	19.1	29.147
O	13.277	19.405	15.875
H	13.618	19.224	14.999
H	13.859	20.078	16.225
O	15.771	14.127	18.118
H	16.154	14.342	18.969
H	14.88	14.475	18.163
O	14.25	22.462	13.34
H	14.147	22.425	12.389
H	15.019	23.016	13.476
O	22.076	9.108	15.841
H	22.533	9.041	16.68
H	21.422	9.793	15.978
O	24.223	17.423	14.731
H	23.553	17.297	15.402
H	24.473	18.344	14.812
O	6.718	15.743	20.562
H	6.749	16.374	21.281
H	7.498	15.202	20.685
O	27.991	19.053	24.709
H	27.83	19.759	24.083
H	27.119	18.729	24.934
O	25.571	16.088	26.879
H	25.369	16.91	26.432
H	26.523	16.094	26.975
O	24.569	19.77	10.825
H	23.627	19.909	10.921
H	24.689	18.832	10.973
O	21.065	25.826	17.148
H	21.323	26.57	17.693

H	20.241	26.1	16.744
O	19.662	19.241	14.753
H	19.241	19.991	14.332
H	18.958	18.601	14.862
O	15.648	10.447	15.077
H	15.635	9.705	15.681
H	16.538	10.456	14.726
O	24.255	22.071	26.165
H	25.154	22.104	25.836
H	23.727	22.436	25.455
O	22.74	15.438	22.947
H	23.517	15.344	22.397
H	22.671	14.602	23.409
O	14.287	21.072	10.769
H	15.146	20.653	10.73
H	14.247	21.611	9.979
O	22.303	16.254	11.052
H	23.249	16.2	11.189
H	21.924	15.914	11.862
O	16.339	23.922	16.134
H	16.628	24.337	15.322
H	15.499	24.337	16.33
O	21.65	19.95	11.103
H	21.479	19.292	11.777
H	21.353	20.773	11.491
O	16.783	20.269	14.756
H	16.29	20.474	15.55
H	16.349	19.496	14.397
O	20.451	13.255	15.701
H	20.65	13.928	16.352
H	20.389	12.444	16.206
O	24.977	13.027	11.868
H	25.252	12.3	12.426
H	24.624	13.676	12.477
O	18.644	13.758	12.463
H	18.538	14.559	12.976
H	18.746	14.063	11.561
O	16.501	15.419	20.562
H	16.026	15.502	21.388
H	16.832	16.3	20.386
O	27.658	10.103	21.625
H	28.235	10.275	20.881
H	27.592	10.945	22.077
O	25.356	22.448	17.363
H	25.957	23.193	17.351
H	24.51	22.82	17.113
O	24.968	14.88	21.457

H	25.063	13.947	21.268
H	24.656	15.261	20.636
O	16.794	19.565	10.797
H	16.91	18.774	11.323
H	17.268	20.244	11.278
O	9.428	18.475	18.235
H	8.496	18.538	18.445
H	9.453	18.386	17.282
O	21.547	23.357	21.133
H	22.255	23.657	20.563
H	21.957	23.253	21.991
O	24.396	23.347	12.071
H	24.119	24.109	11.562
H	23.629	23.12	12.597
O	9.908	17.41	23.452
H	10.793	17.759	23.344
H	9.347	18.185	23.484
O	15.072	21.246	16.941
H	15.033	21.149	17.893
H	15.506	22.088	16.804
O	17.755	17.448	12.332
H	18.247	17.413	13.152
H	16.93	17.005	12.528
O	16.921	23.022	22.968
H	16.499	23.164	22.121
H	17.771	22.638	22.751
O	8.472	19.84	23.852
H	8.277	20.697	23.474
H	8.95	20.037	24.658
O	17.786	21.334	12.658
H	17.278	22.145	12.626
H	17.52	20.917	13.477
O	11.65	21.466	19.131
H	12.012	20.691	18.703
H	11.042	21.833	18.489
O	25.465	16.898	23.713
H	25.257	16.216	23.076
H	24.796	17.568	23.574
O	25.204	18.77	26.226
H	24.96	19.407	25.555
H	24.691	19.022	26.994
O	17.469	25.759	23.544
H	17.553	24.829	23.332
H	18.056	25.889	24.288
O	14.927	15.308	22.925
H	14.754	14.585	23.528
H	14.552	16.075	23.358

O	27.736	17.219	19.315
H	27.382	17.243	18.426
H	27.865	16.288	19.496
O	14.371	13.497	24.665
H	13.969	12.678	24.955
H	15.312	13.331	24.71
O	19.094	11.327	25.729
H	19.08	11.87	26.518
H	19.942	11.511	25.326
O	20.257	22.752	12.421
H	19.441	22.302	12.202
H	19.999	23.665	12.552
O	16.52	23.984	12.622
H	16.125	24.529	11.941
H	17.05	24.593	13.138
O	21.31	21.552	17.118
H	20.371	21.738	17.095
H	21.367	20.637	17.392
O	26.912	22.294	24.819
H	27.582	22.928	25.074
H	27.283	21.845	24.059
O	28.098	12.063	12.714
H	28.49	12.491	11.953
H	27.572	11.353	12.345
O	20.386	16.855	22.874
H	19.688	16.2	22.901
H	21.169	16.361	22.63
O	16.815	12.151	21.77
H	15.968	12.574	21.625
H	17.118	11.915	20.894
O	23.346	13.405	24.485
H	23.579	13.548	25.403
H	24.171	13.162	24.065
O	8.414	13.815	22.047
H	8.693	12.915	21.88
H	9.23	14.309	22.122
O	27.268	12.771	15.442
H	26.34	12.54	15.396
H	27.646	12.406	14.643
O	20.594	10.31	22.154
H	21.357	9.739	22.06
H	20.755	10.793	22.965
O	23.224	6.175	17.644
H	23.777	6.187	16.863
H	22.995	7.093	17.788
O	19.409	24.33	19.467
H	20.177	23.984	19.922

H	19.523	24.05	18.559
O	15.15	23.322	20.352
H	15.685	22.545	20.191
H	14.359	22.986	20.773
O	22.52	22.091	13.856
H	21.633	22.215	13.52
H	22.443	22.242	14.798
O	18.279	15.065	22.961
H	17.794	15.164	23.781
H	17.829	14.357	22.501
O	28.018	22.874	19.665
H	27.946	21.926	19.553
H	28.904	23.008	20.002
O	17.628	25.957	14.337
H	17.759	26.13	15.27
H	18.137	26.635	13.894
O	18.629	18.047	24.495
H	19.425	17.798	24.027
H	18.252	17.217	24.786
O	19.091	21.702	21.61
H	19.893	21.913	21.132
H	19.386	21.511	22.501
O	23.917	24.227	20.046
H	24.379	23.451	20.363
H	24.368	24.46	19.235
O	21.055	15.483	13.922
H	20.52	14.923	14.484
H	21.497	16.077	14.529
O	24.222	10.565	18.262
H	24.868	9.939	18.589
H	24.551	10.82	17.4
O	25.046	11.998	21.977
H	25.844	12.043	22.503
H	24.907	11.062	21.832
O	20.387	10.75	11.029
H	20.686	11.237	11.797
H	21.093	10.129	10.849
O	24.633	24.894	15.023
H	24.047	24.343	15.542
H	24.047	25.426	14.484
O	27.14	14.032	10.141
H	26.858	14.497	10.93
H	26.466	13.368	10.001
O	22.582	8.671	21.629
H	22.293	7.763	21.724
H	23.441	8.695	22.051
O	19.672	12.13	20.083

H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	25.745	8.456	19.464
H	26.1	7.602	19.219
H	25.767	8.46	20.421
O	24.821	6.199	15.508
H	25.311	5.466	15.136
H	25.487	6.86	15.697
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
O	22.777	7.188	13.749
H	23.243	6.495	14.218
H	22.565	7.833	14.424
O	22.325	8.632	18.507
H	23.08	9.21	18.608
H	21.889	8.655	19.359
O	18.294	8.698	21.634
H	19.002	9.278	21.914
H	17.596	8.848	22.271
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751
O	17.242	11.293	18.992
H	17.164	10.418	18.613
H	16.411	11.72	18.781
O	11.233	24.062	21.261
H	10.486	23.476	21.134
H	11.931	23.493	21.584
O	7.57	23.724	19.557
H	6.861	23.086	19.479
H	7.503	24.255	18.763
O	9.281	21.829	21.265
H	8.698	22.45	20.829
H	9.496	21.187	20.588
O	10.627	16.069	14.79
H	10.043	16.794	15.01
H	11.485	16.478	14.678
O	6.793	20.993	16.992
H	7.708	21.26	17.083
H	6.708	20.232	17.566
O	10.889	20.232	15.06
H	10.994	20.785	14.286
H	11.766	20.18	15.439
O	10.311	13.591	14.341
H	11.167	13.391	13.961
H	10.27	14.547	14.347

O	15.493	21.324	26.146
H	15.28	22.159	25.728
H	15.233	21.441	27.059
O	9.923	11.473	21.452
H	10.413	11.212	20.673
H	10.595	11.737	22.08
O	9.436	21.342	17.242
H	9.867	22.169	17.025
H	9.86	20.696	16.678
O	12.158	18.656	26.6
H	11.225	18.793	26.439
H	12.596	19.249	25.989
O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492
O	8.511	15.399	24.713
H	8.957	16.163	24.349
H	7.882	15.144	24.038
O	11.364	11.877	18.304
H	11.246	12.788	18.033
H	12.181	11.607	17.884
O	11.853	25.183	18.281
H	11.887	24.91	19.198
H	11.671	26.122	18.318
O	13.069	12.808	13.633
H	13.689	12.119	13.395
H	13.468	13.241	14.388
O	6.632	18.898	19.134
H	6.882	18.464	19.949
H	6.162	18.226	18.64
O	10.827	15.006	21.802
H	11.27	15.512	21.121
H	10.502	15.664	22.417
O	11.083	14.387	17.521
H	10.829	15.24	17.873
H	11.042	14.498	16.572
O	13.664	10.862	21.141
H	13.498	10.818	20.199
H	13.795	11.794	21.317
O	10.412	23.596	16.652
H	10.728	24.219	17.306
H	10.385	24.097	15.837
O	7.234	18.164	22.144
H	7.628	18.837	22.698
H	6.779	17.586	22.756
O	12.741	18.302	11.121
H	11.822	18.561	11.053

H

13.228

19.063

10.804

Table S13. PYP chromophore + 261 waters

Method	Time(s)	iterations	E(eV)	f
CIS	493.2	12	3.65	1.6
TD-BLYP	-	-	-	-
TD-B3LYP*	335.2	5	0.86	0.0

*residual converged to only 0.0007

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	30.112	21.211	18.047
H	30.308	22.125	18.252
H	29.292	21.246	17.554
O	28.391	13.11	22.223
H	29.252	12.971	21.829
H	28.33	12.444	22.907
O	24.938	16.847	11.925
H	24.601	17.235	12.732
H	25.689	16.325	12.206
O	32.469	14.752	21.385

H	33.348	14.759	21.766
H	32.195	13.836	21.431
O	30.816	19.132	13.418
H	30.974	18.346	13.94
H	31.54	19.153	12.792
O	30.284	15.257	11.884
H	31.234	15.279	11.994
H	30.077	14.33	11.768
O	32.263	11.353	17.063
H	32.41	10.514	17.499
H	31.311	11.441	17.027
O	33.28	18.588	15.193
H	33.815	17.822	15.401
H	32.532	18.235	14.713
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601
O	29.689	10.354	19.041
H	30.009	9.628	18.504
H	28.925	10.684	18.568
O	31.465	16.672	14.469
H	32.168	16.029	14.378
H	30.721	16.168	14.799
O	30.751	18.966	19.536
H	30.85	19.768	19.022
H	29.824	18.742	19.454
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	29.855	14.696	24.663
H	29.947	14.331	23.783
H	29.069	15.241	24.615
O	31.889	16.56	19.452
H	32.012	16.092	20.278
H	31.432	17.364	19.699
O	30.544	12.556	20.427
H	30.218	11.819	19.909
H	30.792	13.214	19.777
O	32.612	20.608	17.136
H	31.709	20.388	17.362
H	32.89	19.906	16.547
O	28.345	21.116	22.423
H	29.083	21.585	22.033
H	27.883	20.733	21.678

O	28.626	7.578	18.14
H	29.131	7.399	18.934
H	27.944	6.906	18.134
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934
O	24.407	14.872	14.057
H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85
H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	29.304	15.125	15.496
H	29.712	15.071	16.36
H	28.974	14.241	15.332
O	30.935	23.768	18.813
H	31.045	24.586	19.299
H	31.712	23.253	19.032
O	30.268	23.047	21.979
H	31.187	23.245	21.797
H	29.889	23.888	22.238
O	27.648	21.192	16.796
H	27.35	20.499	16.206
H	26.861	21.705	16.979
O	29.094	23.158	15.712
H	28.684	22.32	15.928
H	29.846	22.923	15.168
O	32.982	14.146	13.03
H	33.495	13.501	12.543
H	33.138	13.931	13.95
O	24.198	19.84	23.687
H	24.475	20.696	23.361
H	23.265	19.795	23.477
O	31.049	20.49	23.466
H	31.305	20.855	22.619
H	30.106	20.348	23.391
O	34.337	17.381	18.699
H	33.413	17.138	18.745
H	34.589	17.193	17.794
O	28.875	25.274	17.405
H	29.024	24.584	16.759
H	28.96	24.832	18.25
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
O	25.055	10.896	15.923
H	24.361	10.877	15.264

H	25.56	10.099	15.762
O	27.663	15.508	12.777
H	28.527	15.453	12.369
H	27.845	15.681	13.701
O	26.642	8.919	16.155
H	27.111	8.832	15.325
H	27.2	8.476	16.794
O	22.286	8.889	11.272
H	23.098	9.247	10.913
H	22.562	8.394	12.043
O	28.183	20.556	11.69
H	27.261	20.81	11.729
H	28.556	21.113	11.007
O	28.184	19.383	14.719
H	27.476	19.592	14.11
H	28.984	19.585	14.233
O	24.872	12.144	9.43
H	24.826	12.666	10.231
H	23.958	11.996	9.188
O	27.915	9.266	11.271
H	28.66	9.642	10.801
H	28.008	8.321	11.15
O	34.216	13.143	17.637
H	33.781	13.513	18.405
H	33.591	12.503	17.294
O	25.355	8.517	22.306
H	25.206	7.892	23.016
H	26.306	8.621	22.275
O	29.441	10.867	16.12
H	29.416	10.227	15.408
H	28.616	11.345	16.04
O	28.552	8.795	13.93
H	29.499	8.672	13.861
H	28.268	8.976	13.034
O	20.485	24.189	26.946
H	19.824	23.499	26.989
H	20.982	24.095	27.759
O	21.841	25.67	24.919
H	21.461	24.958	25.433
H	22.774	25.46	24.871
O	23.943	26.468	22.389
H	23.24	27.114	22.464
H	23.571	25.769	21.852
O	12.238	24.196	24.379
H	12.264	25.01	23.876
H	13.158	23.962	24.504
O	18.176	26.857	16.936

H	17.888	25.989	17.218
H	17.621	27.464	17.426
O	13.129	20.587	24.819
H	14.035	20.781	25.059
H	12.692	21.438	24.822
O	8.368	24.538	22.244
H	8.26	25.485	22.33
H	8.09	24.345	21.349
O	14.801	26.026	20.08
H	15.168	25.155	19.923
H	14.58	26.028	21.011
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	14.1	25.544	16.465
H	14.254	26.406	16.851
H	13.352	25.195	16.95
O	10.628	21.988	23.73
H	11.119	22.808	23.678
H	10.072	21.992	22.95
O	26.258	25.458	17.288
H	27.206	25.532	17.392
H	26.119	25.466	16.341
O	17.29	27.644	20.529
H	17.728	27.128	21.207
H	16.63	27.052	20.168
O	12.756	16.479	24.912
H	13.482	16.7	25.496
H	12.671	17.239	24.337
O	16.042	14.118	27.054
H	15.404	14.757	26.737
H	16.134	14.312	27.986
O	16.029	25.333	26.761
H	16.951	25.579	26.679
H	15.939	25.037	27.667
O	11.873	17.622	29.258
H	11.424	17.928	28.469
H	12.778	17.482	28.979
O	23.729	23.294	23.224
H	24.058	24.189	23.134
H	24.062	22.838	22.451
O	16.387	20.326	30.157
H	16.358	20.609	31.071
H	17.16	20.758	29.797
O	21.773	16.589	28.207
H	21.965	16.894	27.32
H	22.616	16.28	28.541

O	19.811	22.199	24.228
H	20.647	22.43	24.631
H	19.187	22.198	24.953
O	22.458	17.144	25.325
H	22.54	16.622	24.528
H	23.125	17.825	25.235
O	28.235	15.187	27.246
H	28.641	15.958	27.641
H	28.357	15.307	26.304
O	11.937	14.865	28.668
H	11.386	14.863	27.885
H	11.646	15.632	29.162
O	10.115	20.572	28.846
H	9.487	20.234	29.485
H	10.295	19.828	28.271
O	21.743	21.82	27.681
H	22.61	21.852	27.276
H	21.234	21.243	27.112
O	14.851	23.762	24.915
H	15.36	24.056	24.159
H	15.232	24.231	25.657
O	17.235	13.891	29.551
H	16.489	13.548	30.042
H	17.465	14.704	30
O	12.496	18.392	23.093
H	12.583	19.222	23.562
H	12.739	18.6	22.191
O	13.511	21.266	28.659
H	12.659	21.659	28.471
H	13.674	21.478	29.579
O	9.923	17.477	27.295
H	9.111	17.051	27.568
H	10.363	16.827	26.747
O	10.883	14.903	26.04
H	10.417	14.692	25.231
H	11.719	15.265	25.746
O	13.533	12.733	28.119
H	14.455	12.946	27.977
H	13.182	13.489	28.589
O	23.935	13.857	27.143
H	23.268	14.002	27.814
H	24.462	14.655	27.153
O	11.851	12.855	23.124
H	11.658	13.712	22.744
H	12.698	12.969	23.555
O	10.014	20.59	26.179
H	9.549	21.152	26.799

H	10.185	21.155	25.426
O	19.394	15.833	16.886
H	20.083	16.332	17.326
H	18.978	15.332	17.587
O	20.054	26.94	20.282
H	19.373	27.3	19.714
H	19.839	26.01	20.354
O	16.945	12.623	24.602
H	16.984	12.276	23.71
H	17.651	12.172	25.065
O	23.37	10.671	13.931
H	22.71	9.994	14.082
H	22.878	11.41	13.574
O	15.044	14.239	14.849
H	14.889	15.184	14.839
H	15.803	14.127	15.421
O	17.468	17.185	14.984
H	17.92	16.542	15.53
H	16.609	17.286	15.394
O	14.403	16.848	15.969
H	13.948	17.67	16.154
H	14.21	16.292	16.723
O	15.941	22.78	28.839
H	15.971	22.046	29.452
H	16.454	23.468	29.264
O	18.419	5.694	17.961
H	17.904	5.222	17.306
H	19.284	5.287	17.924
O	25.06	21.993	21.145
H	25.996	22.109	20.98
H	24.83	21.197	20.666
O	29.628	17.598	10.714
H	29.801	18.391	11.222
H	30.054	16.899	11.21
O	17.57	13.249	16.234
H	18.437	13.654	16.246
H	17.195	13.459	17.089
O	15.28	15.817	12.454
H	14.861	15.48	11.662
H	15.297	15.07	13.052
O	21.627	12.663	13.231
H	21.25	12.924	14.071
H	21.47	13.412	12.655
O	17.755	15.73	25.649
H	18.607	15.4	25.932
H	17.126	15.092	25.988
O	18.731	22.555	17.426

H	17.984	22.738	16.856
H	18.404	22.718	18.31
O	14.368	13.467	21.096
H	14.669	14.215	21.613
H	14.139	13.841	20.245
O	22.909	23.677	16.692
H	22.302	24.379	16.929
H	22.394	22.875	16.78
O	22.343	26.264	13.759
H	21.624	26.451	13.154
H	22.138	26.778	14.54
O	8.898	18.427	15.597
H	9.56	19.004	15.215
H	8.079	18.693	15.179
O	11.489	21.897	12.634
H	12.403	21.614	12.659
H	11.531	22.85	12.711
O	21.335	19.709	23.292
H	20.775	20.422	23.599
H	20.725	19.007	23.064
O	13.262	26.321	13.77
H	13.79	27.004	14.183
H	13.563	25.508	14.176
O	25.524	21.135	12.809
H	25.102	20.588	12.146
H	25.298	22.031	12.559
O	19.293	13.239	27.628
H	18.729	13.63	28.295
H	20.128	13.096	28.074
O	11.386	16.902	19.667
H	10.675	17.357	19.216
H	11.773	17.567	20.236
O	14.224	10.457	25.473
H	13.675	10.076	24.788
H	13.607	10.898	26.057
O	27.741	16.05	24.581
H	26.823	16.164	24.335
H	28.205	16.731	24.094
O	15.712	18.646	24.882
H	16.604	18.442	24.598
H	15.821	19.333	25.539
O	18.883	6.511	14.197
H	19.033	5.952	14.959
H	19.752	6.635	13.816
O	24.681	20.073	14.961
H	23.846	20.534	15.05
H	25.116	20.506	14.227

O	18.261	22.005	26.323
H	17.341	22.148	26.101
H	18.241	21.652	27.212
O	15.03	16.584	26.547
H	15.496	17.223	26.006
H	14.873	17.039	27.374
O	19.257	18.968	27.196
H	19.113	18.833	26.259
H	19.164	18.097	27.581
O	13.242	15.061	18.782
H	12.414	14.723	18.441
H	13.003	15.872	19.231
O	18.487	11.278	13.645
H	18.181	11.915	13
H	18.748	11.807	14.399
O	16.854	8.504	19.286
H	17.512	8.476	19.98
H	16.016	8.472	19.748
O	14.272	18.25	13.393
H	14.767	17.467	13.154
H	13.532	18.261	12.786
O	21.4	11.534	24.354
H	22.108	10.945	24.616
H	21.833	12.373	24.195
O	14.464	18.51	28.583
H	13.694	19.017	28.328
H	14.964	19.1	29.147
O	13.277	19.405	15.875
H	13.618	19.224	14.999
H	13.859	20.078	16.225
O	15.771	14.127	18.118
H	16.154	14.342	18.969
H	14.88	14.475	18.163
O	14.25	22.462	13.34
H	14.147	22.425	12.389
H	15.019	23.016	13.476
O	22.076	9.108	15.841
H	22.533	9.041	16.68
H	21.422	9.793	15.978
O	24.223	17.423	14.731
H	23.553	17.297	15.402
H	24.473	18.344	14.812
O	6.718	15.743	20.562
H	6.749	16.374	21.281
H	7.498	15.202	20.685
O	27.991	19.053	24.709
H	27.83	19.759	24.083

H	27.119	18.729	24.934
O	25.571	16.088	26.879
H	25.369	16.91	26.432
H	26.523	16.094	26.975
O	24.569	19.77	10.825
H	23.627	19.909	10.921
H	24.689	18.832	10.973
O	21.065	25.826	17.148
H	21.323	26.57	17.693
H	20.241	26.1	16.744
O	7.429	14.828	14.904
H	7.2	14.177	14.241
H	8.385	14.873	14.875
O	19.662	19.241	14.753
H	19.241	19.991	14.332
H	18.958	18.601	14.862
O	25.015	25.077	25.389
H	24.909	25.396	26.285
H	25.954	25.154	25.217
O	15.648	10.447	15.077
H	15.635	9.705	15.681
H	16.538	10.456	14.726
O	24.255	22.071	26.165
H	25.154	22.104	25.836
H	23.727	22.436	25.455
O	19.663	25.389	12.536
H	19.505	26.136	13.115
H	19.449	25.714	11.662
O	22.74	15.438	22.947
H	23.517	15.344	22.397
H	22.671	14.602	23.409
O	14.287	21.072	10.769
H	15.146	20.653	10.73
H	14.247	21.611	9.979
O	22.303	16.254	11.052
H	23.249	16.2	11.189
H	21.924	15.914	11.862
O	16.339	23.922	16.134
H	16.628	24.337	15.322
H	15.499	24.337	16.33
O	21.65	19.95	11.103
H	21.479	19.292	11.777
H	21.353	20.773	11.491
O	16.783	20.269	14.756
H	16.29	20.474	15.55
H	16.349	19.496	14.397
O	20.451	13.255	15.701

H	20.65	13.928	16.352
H	20.389	12.444	16.206
O	24.977	13.027	11.868
H	25.252	12.3	12.426
H	24.624	13.676	12.477
O	18.644	13.758	12.463
H	18.538	14.559	12.976
H	18.746	14.063	11.561
O	16.501	15.419	20.562
H	16.026	15.502	21.388
H	16.832	16.3	20.386
O	27.658	10.103	21.625
H	28.235	10.275	20.881
H	27.592	10.945	22.077
O	25.356	22.448	17.363
H	25.957	23.193	17.351
H	24.51	22.82	17.113
O	24.968	14.88	21.457
H	25.063	13.947	21.268
H	24.656	15.261	20.636
O	16.794	19.565	10.797
H	16.91	18.774	11.323
H	17.268	20.244	11.278
O	9.428	18.475	18.235
H	8.496	18.538	18.445
H	9.453	18.386	17.282
O	21.547	23.357	21.133
H	22.255	23.657	20.563
H	21.957	23.253	21.991
O	16.011	17.212	31.043
H	15.317	17.042	30.406
H	16.788	17.379	30.51
O	24.396	23.347	12.071
H	24.119	24.109	11.562
H	23.629	23.12	12.597
O	9.908	17.41	23.452
H	10.793	17.759	23.344
H	9.347	18.185	23.484
O	15.072	21.246	16.941
H	15.033	21.149	17.893
H	15.506	22.088	16.804
O	17.755	17.448	12.332
H	18.247	17.413	13.152
H	16.93	17.005	12.528
O	16.921	23.022	22.968
H	16.499	23.164	22.121
H	17.771	22.638	22.751

O	8.472	19.84	23.852
H	8.277	20.697	23.474
H	8.95	20.037	24.658
O	17.786	21.334	12.658
H	17.278	22.145	12.626
H	17.52	20.917	13.477
O	11.65	21.466	19.131
H	12.012	20.691	18.703
H	11.042	21.833	18.489
O	25.465	16.898	23.713
H	25.257	16.216	23.076
H	24.796	17.568	23.574
O	25.204	18.77	26.226
H	24.96	19.407	25.555
H	24.691	19.022	26.994
O	17.469	25.759	23.544
H	17.553	24.829	23.332
H	18.056	25.889	24.288
O	14.927	15.308	22.925
H	14.754	14.585	23.528
H	14.552	16.075	23.358
O	27.736	17.219	19.315
H	27.382	17.243	18.426
H	27.865	16.288	19.496
O	14.371	13.497	24.665
H	13.969	12.678	24.955
H	15.312	13.331	24.71
O	19.094	11.327	25.729
H	19.08	11.87	26.518
H	19.942	11.511	25.326
O	20.257	22.752	12.421
H	19.441	22.302	12.202
H	19.999	23.665	12.552
O	16.52	23.984	12.622
H	16.125	24.529	11.941
H	17.05	24.593	13.138
O	21.31	21.552	17.118
H	20.371	21.738	17.095
H	21.367	20.637	17.392
O	26.912	22.294	24.819
H	27.582	22.928	25.074
H	27.283	21.845	24.059
O	28.098	12.063	12.714
H	28.49	12.491	11.953
H	27.572	11.353	12.345
O	20.386	16.855	22.874
H	19.688	16.2	22.901

H	21.169	16.361	22.63
O	20.219	17.398	9.613
H	21.062	17.358	10.063
H	19.753	16.615	9.906
O	16.815	12.151	21.77
H	15.968	12.574	21.625
H	17.118	11.915	20.894
O	23.346	13.405	24.485
H	23.579	13.548	25.403
H	24.171	13.162	24.065
O	8.414	13.815	22.047
H	8.693	12.915	21.88
H	9.23	14.309	22.122
O	27.268	12.771	15.442
H	26.34	12.54	15.396
H	27.646	12.406	14.643
O	20.594	10.31	22.154
H	21.357	9.739	22.06
H	20.755	10.793	22.965
O	23.224	6.175	17.644
H	23.777	6.187	16.863
H	22.995	7.093	17.788
O	19.409	24.33	19.467
H	20.177	23.984	19.922
H	19.523	24.05	18.559
O	15.15	23.322	20.352
H	15.685	22.545	20.191
H	14.359	22.986	20.773
O	22.52	22.091	13.856
H	21.633	22.215	13.52
H	22.443	22.242	14.798
O	18.279	15.065	22.961
H	17.794	15.164	23.781
H	17.829	14.357	22.501
O	15.927	8.033	16.597
H	15.802	7.089	16.502
H	16.391	8.13	17.429
O	28.018	22.874	19.665
H	27.946	21.926	19.553
H	28.904	23.008	20.002
O	17.628	25.957	14.337
H	17.759	26.13	15.27
H	18.137	26.635	13.894
O	18.629	18.047	24.495
H	19.425	17.798	24.027
H	18.252	17.217	24.786
O	19.091	21.702	21.61

H	19.893	21.913	21.132
H	19.386	21.511	22.501
O	23.917	24.227	20.046
H	24.379	23.451	20.363
H	24.368	24.46	19.235
O	21.055	15.483	13.922
H	20.52	14.923	14.484
H	21.497	16.077	14.529
O	24.222	10.565	18.262
H	24.868	9.939	18.589
H	24.551	10.82	17.4
O	25.046	11.998	21.977
H	25.844	12.043	22.503
H	24.907	11.062	21.832
O	10.185	19.902	11.363
H	10.681	20.668	11.651
H	9.446	19.854	11.969
O	20.387	10.75	11.029
H	20.686	11.237	11.797
H	21.093	10.129	10.849
O	21.753	14.324	8.707
H	21.991	14.935	9.404
H	22.481	14.373	8.087
O	19.101	14.65	9.853
H	18.31	14.349	9.407
H	19.813	14.432	9.253
O	15.175	18.744	8.697
H	15.753	18.867	9.45
H	15.604	18.066	8.174
O	24.633	24.894	15.023
H	24.047	24.343	15.542
H	24.047	25.426	14.484
O	27.14	14.032	10.141
H	26.858	14.497	10.93
H	26.466	13.368	10.001
O	26.89	17.52	9.823
H	26.255	17.894	10.434
H	27.67	17.362	10.355
O	8.073	19.293	12.916
H	7.339	19.82	13.231
H	7.831	18.392	13.131
O	18.504	19.38	8.678
H	17.977	19.426	9.475
H	19.214	18.775	8.895
O	22.582	8.671	21.629
H	22.293	7.763	21.724
H	23.441	8.695	22.051

O	19.672	12.13	20.083
H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	25.745	8.456	19.464
H	26.1	7.602	19.219
H	25.767	8.46	20.421
O	24.821	6.199	15.508
H	25.311	5.466	15.136
H	25.487	6.86	15.697
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
O	22.777	7.188	13.749
H	23.243	6.495	14.218
H	22.565	7.833	14.424
O	22.325	8.632	18.507
H	23.08	9.21	18.608
H	21.889	8.655	19.359
O	23.142	5.674	20.23
H	23.876	6.209	20.531
H	23.16	5.756	19.277
O	17.461	8.619	13.175
H	17.91	8.001	13.751
H	17.992	9.414	13.216
O	16.549	9.056	23.942
H	17.251	8.693	24.482
H	16.269	9.842	24.409
O	19.849	6.507	22.403
H	19.182	7.037	21.965
H	19.777	5.645	21.994
O	13.207	10.901	16.462
H	13.966	10.894	15.878
H	12.945	9.983	16.526
O	23.406	10.236	25.781
H	23.432	9.436	26.307
H	24.233	10.677	25.974
O	24.848	9.495	10.383
H	24.994	10.398	10.1
H	25.694	9.213	10.73
O	18.294	8.698	21.634
H	19.002	9.278	21.914
H	17.596	8.848	22.271
O	27.262	11.494	24.43
H	26.724	11.713	25.191
H	27.418	10.553	24.51
O	18.636	14.472	19.061
H	19.069	13.674	19.365

H	18.005	14.68	19.751
O	26.295	5.941	18.23
H	25.431	5.529	18.237
H	26.908	5.213	18.332
O	17.242	11.293	18.992
H	17.164	10.418	18.613
H	16.411	11.72	18.781
O	24.303	15.474	8.769
H	24.325	16.277	8.249
H	25.183	15.403	9.137
O	10.345	24.772	26.483
H	10.794	24.263	25.808
H	11.047	25.231	26.943
O	11.233	24.062	21.261
H	10.486	23.476	21.134
H	11.931	23.493	21.584
O	11.536	26.417	22.465
H	10.698	26.726	22.807
H	11.308	25.667	21.915
O	7.57	23.724	19.557
H	6.861	23.086	19.479
H	7.503	24.255	18.763
O	9.281	21.829	21.265
H	8.698	22.45	20.829
H	9.496	21.187	20.588
O	19.124	16.275	29.635
H	19.402	15.702	30.349
H	19.934	16.501	29.179
O	10.627	16.069	14.79
H	10.043	16.794	15.01
H	11.485	16.478	14.678
O	5.269	16.773	17.728
H	5.056	17.109	16.857
H	5.421	15.838	17.593
O	6.669	17.421	14.285
H	5.782	17.404	14.643
H	7.076	16.619	14.614
O	6.793	20.993	16.992
H	7.708	21.26	17.083
H	6.708	20.232	17.566
O	10.889	20.232	15.06
H	10.994	20.785	14.286
H	11.766	20.18	15.439
O	10.311	13.591	14.341
H	11.167	13.391	13.961
H	10.27	14.547	14.347
O	15.493	21.324	26.146

H	15.28	22.159	25.728
H	15.233	21.441	27.059
O	9.923	11.473	21.452
H	10.413	11.212	20.673
H	10.595	11.737	22.08
O	9.436	21.342	17.242
H	9.867	22.169	17.025
H	9.86	20.696	16.678
O	12.158	18.656	26.6
H	11.225	18.793	26.439
H	12.596	19.249	25.989
O	10.421	24.811	14.196
H	10.087	25.32	13.456
H	11.367	24.955	14.177
O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492
O	8.511	15.399	24.713
H	8.957	16.163	24.349
H	7.882	15.144	24.038
O	8.856	11.454	17.814
H	9.752	11.453	18.151
H	8.62	12.381	17.765
O	11.364	11.877	18.304
H	11.246	12.788	18.033
H	12.181	11.607	17.884
O	11.853	25.183	18.281
H	11.887	24.91	19.198
H	11.671	26.122	18.318
O	5.727	16.408	23.623
H	4.838	16.737	23.752
H	6.176	16.598	24.447
O	13.069	12.808	13.633
H	13.689	12.119	13.395
H	13.468	13.241	14.388
O	6.632	18.898	19.134
H	6.882	18.464	19.949
H	6.162	18.226	18.64
O	10.827	15.006	21.802
H	11.27	15.512	21.121
H	10.502	15.664	22.417
O	11.4	11.911	26.723
H	12.157	12.312	27.149
H	11.041	12.605	26.17
O	11.083	14.387	17.521
H	10.829	15.24	17.873
H	11.042	14.498	16.572

O	13.664	10.862	21.141
H	13.498	10.818	20.199
H	13.795	11.794	21.317
O	10.412	23.596	16.652
H	10.728	24.219	17.306
H	10.385	24.097	15.837
O	7.234	18.164	22.144
H	7.628	18.837	22.698
H	6.779	17.586	22.756
O	5.391	21.911	19.72
H	5.166	21.406	20.501
H	5.839	21.286	19.15
O	12.741	18.302	11.121
H	11.822	18.561	11.053
H	13.228	19.063	10.804
O	8.687	16.129	12.3
H	8.632	16.325	11.364
H	8.437	15.207	12.366
O	14.027	13.954	10.726
H	13.286	14.48	10.426
H	13.64	13.308	11.316

Table S14. PYP chromophore + 311 waters

Method	Time(s)	iterations	E(eV)	f
CIS	656.3	12	3.65	1.6
TD-BLYP	-	-	-	-
TD-B3LYP*	266.9	2	0.60	0.0

*residual converged to only 0.0006

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	29.182	25.39	22.779
H	29.281	25.376	23.731
H	28.342	25.825	22.632
O	30.112	21.211	18.047
H	30.308	22.125	18.252
H	29.292	21.246	17.554
O	24.075	15.499	29.422
H	24.789	14.887	29.603
H	23.281	15.008	29.631
O	28.391	13.11	22.223
H	29.252	12.971	21.829

H	28.33	12.444	22.907
O	29.307	17.709	27.704
H	30.224	17.766	27.973
H	29.295	18.067	26.817
O	24.938	16.847	11.925
H	24.601	17.235	12.732
H	25.689	16.325	12.206
O	32.469	14.752	21.385
H	33.348	14.759	21.766
H	32.195	13.836	21.431
O	30.816	19.132	13.418
H	30.974	18.346	13.94
H	31.54	19.153	12.792
O	30.284	15.257	11.884
H	31.234	15.279	11.994
H	30.077	14.33	11.768
O	32.263	11.353	17.063
H	32.41	10.514	17.499
H	31.311	11.441	17.027
O	33.28	18.588	15.193
H	33.815	17.822	15.401
H	32.532	18.235	14.713
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601
O	29.689	10.354	19.041
H	30.009	9.628	18.504
H	28.925	10.684	18.568
O	31.465	16.672	14.469
H	32.168	16.029	14.378
H	30.721	16.168	14.799
O	30.751	18.966	19.536
H	30.85	19.768	19.022
H	29.824	18.742	19.454
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	32.002	10.998	22.33
H	32.425	10.517	21.619
H	31.574	11.737	21.899
O	29.855	14.696	24.663
H	29.947	14.331	23.783
H	29.069	15.241	24.615
O	31.889	16.56	19.452

H	32.012	16.092	20.278
H	31.432	17.364	19.699
O	27.763	8.742	24.655
H	27.349	7.971	25.04
H	28.329	8.392	23.967
O	30.544	12.556	20.427
H	30.218	11.819	19.909
H	30.792	13.214	19.777
O	32.612	20.608	17.136
H	31.709	20.388	17.362
H	32.89	19.906	16.547
O	28.345	21.116	22.423
H	29.083	21.585	22.033
H	27.883	20.733	21.678
O	28.626	7.578	18.14
H	29.131	7.399	18.934
H	27.944	6.906	18.134
O	34.025	19.389	20.825
H	33.18	19.249	21.253
H	33.999	18.825	20.053
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934
O	24.407	14.872	14.057
H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85
H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	29.304	15.125	15.496
H	29.712	15.071	16.36
H	28.974	14.241	15.332
O	30.935	23.768	18.813
H	31.045	24.586	19.299
H	31.712	23.253	19.032
O	30.88	7.56	16.768
H	29.99	7.73	17.076
H	30.996	6.616	16.879
O	30.268	23.047	21.979
H	31.187	23.245	21.797
H	29.889	23.888	22.238
O	27.648	21.192	16.796
H	27.35	20.499	16.206
H	26.861	21.705	16.979
O	29.094	23.158	15.712
H	28.684	22.32	15.928
H	29.846	22.923	15.168

O	32.982	14.146	13.03
H	33.495	13.501	12.543
H	33.138	13.931	13.95
O	24.198	19.84	23.687
H	24.475	20.696	23.361
H	23.265	19.795	23.477
O	31.049	20.49	23.466
H	31.305	20.855	22.619
H	30.106	20.348	23.391
O	33.02	19.355	24.959
H	32.359	19.651	24.333
H	32.922	18.403	24.978
O	34.337	17.381	18.699
H	33.413	17.138	18.745
H	34.589	17.193	17.794
O	28.875	25.274	17.405
H	29.024	24.584	16.759
H	28.96	24.832	18.25
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
O	25.055	10.896	15.923
H	24.361	10.877	15.264
H	25.56	10.099	15.762
O	27.663	15.508	12.777
H	28.527	15.453	12.369
H	27.845	15.681	13.701
O	26.642	8.919	16.155
H	27.111	8.832	15.325
H	27.2	8.476	16.794
O	32.886	23.254	20.961
H	33.701	22.752	20.958
H	33.126	24.103	20.589
O	22.286	8.889	11.272
H	23.098	9.247	10.913
H	22.562	8.394	12.043
O	34.969	16.574	15.88
H	35.407	15.772	16.167
H	35.513	16.901	15.163
O	28.183	20.556	11.69
H	27.261	20.81	11.729
H	28.556	21.113	11.007
O	28.184	19.383	14.719
H	27.476	19.592	14.11
H	28.984	19.585	14.233
O	24.872	12.144	9.43
H	24.826	12.666	10.231

H	23.958	11.996	9.188
O	27.915	9.266	11.271
H	28.66	9.642	10.801
H	28.008	8.321	11.15
O	34.216	13.143	17.637
H	33.781	13.513	18.405
H	33.591	12.503	17.294
O	31.702	10.129	12.535
H	31.309	9.286	12.76
H	32.645	9.98	12.605
O	25.355	8.517	22.306
H	25.206	7.892	23.016
H	26.306	8.621	22.275
O	29.441	10.867	16.12
H	29.416	10.227	15.408
H	28.616	11.345	16.04
O	31.122	12.532	11.065
H	31.196	11.965	11.832
H	32.015	12.84	10.907
O	28.552	8.795	13.93
H	29.499	8.672	13.861
H	28.268	8.976	13.034
O	26.718	26.606	22.365
H	26.922	27.468	22.002
H	25.77	26.522	22.263
O	20.485	24.189	26.946
H	19.824	23.499	26.989
H	20.982	24.095	27.759
O	21.841	25.67	24.919
H	21.461	24.958	25.433
H	22.774	25.46	24.871
O	23.943	26.468	22.389
H	23.24	27.114	22.464
H	23.571	25.769	21.852
O	12.238	24.196	24.379
H	12.264	25.01	23.876
H	13.158	23.962	24.504
O	13.619	27.917	18.44
H	14.291	28.521	18.757
H	13.651	27.182	19.051
O	18.176	26.857	16.936
H	17.888	25.989	17.218
H	17.621	27.464	17.426
O	13.129	20.587	24.819
H	14.035	20.781	25.059
H	12.692	21.438	24.822
O	8.368	24.538	22.244

H	8.26	25.485	22.33
H	8.09	24.345	21.349
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H	15.168	25.155	19.923
H	14.58	26.028	21.011
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	14.1	25.544	16.465
H	14.254	26.406	16.851
H	13.352	25.195	16.95
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H	10.072	21.992	22.95
O	26.258	25.458	17.288
H	27.206	25.532	17.392
H	26.119	25.466	16.341
O	17.29	27.644	20.529
H	17.728	27.128	21.207
H	16.63	27.052	20.168
O	12.756	16.479	24.912
H	13.482	16.7	25.496
H	12.671	17.239	24.337
O	16.042	14.118	27.054
H	15.404	14.757	26.737
H	16.134	14.312	27.986
O	16.029	25.333	26.761
H	16.951	25.579	26.679
H	15.939	25.037	27.667
O	11.873	17.622	29.258
H	11.424	17.928	28.469
H	12.778	17.482	28.979
O	23.729	23.294	23.224
H	24.058	24.189	23.134
H	24.062	22.838	22.451
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H	16.358	20.609	31.071
H	17.16	20.758	29.797
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H	21.965	16.894	27.32
H	22.616	16.28	28.541
O	19.811	22.199	24.228
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H	19.187	22.198	24.953
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H	22.54	16.622	24.528
H	23.125	17.825	25.235

O	28.235	15.187	27.246
H	28.641	15.958	27.641
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H	11.386	14.863	27.885
H	11.646	15.632	29.162
O	10.115	20.572	28.846
H	9.487	20.234	29.485
H	10.295	19.828	28.271
O	21.743	21.82	27.681
H	22.61	21.852	27.276
H	21.234	21.243	27.112
O	14.851	23.762	24.915
H	15.36	24.056	24.159
H	15.232	24.231	25.657
O	17.235	13.891	29.551
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H	17.465	14.704	30
O	12.496	18.392	23.093
H	12.583	19.222	23.562
H	12.739	18.6	22.191
O	13.511	21.266	28.659
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H	13.674	21.478	29.579
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H	9.111	17.051	27.568
H	10.363	16.827	26.747
O	18.347	8.686	25.953
H	18.62	9.597	26.065
H	18.068	8.41	26.826
O	24.758	23.037	28.812
H	24.497	23.059	27.891
H	25.629	22.639	28.804
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O	21.655	11.816	28.049
H	22.116	11.342	28.742
H	22.219	11.724	27.281
O	13.533	12.733	28.119
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H	13.182	13.489	28.589
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H	23.268	14.002	27.814
H	24.462	14.655	27.153
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H	19.128	26.796	26.752

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O	10.014	20.59	26.179
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H	16.984	12.276	23.71
H	17.651	12.172	25.065
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H	22.878	11.41	13.574
O	15.044	14.239	14.849
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H	17.92	16.542	15.53
H	16.609	17.286	15.394
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H	13.948	17.67	16.154
H	14.21	16.292	16.723
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H	15.971	22.046	29.452
H	16.454	23.468	29.264
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H	24.532	27.278	19.375
H	25.525	26.581	18.47
O	25.425	11.559	27.11
H	24.902	12.36	27.139
H	25.715	11.43	28.013
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H	17.904	5.222	17.306
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H	25.996	22.109	20.98
H	24.83	21.197	20.666
O	29.628	17.598	10.714
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H	30.054	16.899	11.21
O	17.57	13.249	16.234

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H	14.861	15.48	11.662
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H	21.25	12.924	14.071
H	21.47	13.412	12.655
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O	18.731	22.555	17.426
H	17.984	22.738	16.856
H	18.404	22.718	18.31
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H	15.683	13.996	9.818
H	15.787	13.539	8.379
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H	14.669	14.215	21.613
H	14.139	13.841	20.245
O	22.909	23.677	16.692
H	22.302	24.379	16.929
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H	21.624	26.451	13.154
H	22.138	26.778	14.54
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H	9.56	19.004	15.215
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O	21.335	19.709	23.292
H	20.775	20.422	23.599
H	20.725	19.007	23.064
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H	13.563	25.508	14.176
O	25.524	21.135	12.809
H	25.102	20.588	12.146
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H	27.956	24.443	14.635
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O	19.293	13.239	27.628
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H	20.128	13.096	28.074

O	11.386	16.902	19.667
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H	11.773	17.567	20.236
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H	13.675	10.076	24.788
H	13.607	10.898	26.057
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H	26.823	16.164	24.335
H	28.205	16.731	24.094
O	15.712	18.646	24.882
H	16.604	18.442	24.598
H	15.821	19.333	25.539
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H	19.033	5.952	14.959
H	19.752	6.635	13.816
O	24.681	20.073	14.961
H	23.846	20.534	15.05
H	25.116	20.506	14.227
O	18.261	22.005	26.323
H	17.341	22.148	26.101
H	18.241	21.652	27.212
O	15.03	16.584	26.547
H	15.496	17.223	26.006
H	14.873	17.039	27.374
O	19.257	18.968	27.196
H	19.113	18.833	26.259
H	19.164	18.097	27.581
O	13.242	15.061	18.782
H	12.414	14.723	18.441
H	13.003	15.872	19.231
O	18.487	11.278	13.645
H	18.181	11.915	13
H	18.748	11.807	14.399
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H	17.512	8.476	19.98
H	16.016	8.472	19.748
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H	21.833	12.373	24.195
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H	13.694	19.017	28.328
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H	14.88	14.475	18.163
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H	14.147	22.425	12.389
H	15.019	23.016	13.476
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H	17.434	11.501	11.239
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O	14.742	28.238	15.334
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H	15.695	28.235	15.425
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H	10.654	22.161	29.268
H	10.382	23.516	28.652
O	27.991	19.053	24.709
H	27.83	19.759	24.083
H	27.119	18.729	24.934
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H	25.369	16.91	26.432
H	26.523	16.094	26.975
O	24.569	19.77	10.825
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H	19.241	19.991	14.332
H	18.958	18.601	14.862
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H	24.909	25.396	26.285
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O	24.255	22.071	26.165
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O	19.663	25.389	12.536
H	19.505	26.136	13.115
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H	23.517	15.344	22.397
H	22.671	14.602	23.409
O	14.287	21.072	10.769
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H	14.247	21.611	9.979
O	22.303	16.254	11.052
H	23.249	16.2	11.189
H	21.924	15.914	11.862
O	16.339	23.922	16.134
H	16.628	24.337	15.322
H	15.499	24.337	16.33
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H	21.479	19.292	11.777
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O	16.783	20.269	14.756
H	16.29	20.474	15.55
H	16.349	19.496	14.397
O	20.451	13.255	15.701
H	20.65	13.928	16.352
H	20.389	12.444	16.206
O	24.977	13.027	11.868
H	25.252	12.3	12.426
H	24.624	13.676	12.477
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H	18.538	14.559	12.976
H	18.746	14.063	11.561
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H	16.832	16.3	20.386
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H	28.235	10.275	20.881
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H	25.957	23.193	17.351
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O	24.968	14.88	21.457
H	25.063	13.947	21.268
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H	16.91	18.774	11.323
H	17.268	20.244	11.278
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H	9.453	18.386	17.282
O	30.636	22.114	13.548
H	31.534	22.436	13.618
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O	21.547	23.357	21.133
H	22.255	23.657	20.563
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H	24.119	24.109	11.562
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H	18.247	17.413	13.152
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O	16.921	23.022	22.968
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H	17.771	22.638	22.751
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H	17.278	22.145	12.626
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H	17.553	24.829	23.332
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O	14.927	15.308	22.925
H	14.754	14.585	23.528
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H	27.382	17.243	18.426
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H	13.969	12.678	24.955
H	15.312	13.331	24.71
O	19.094	11.327	25.729
H	19.08	11.87	26.518
H	19.942	11.511	25.326
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H	19.441	22.302	12.202
H	19.999	23.665	12.552
O	16.52	23.984	12.622
H	16.125	24.529	11.941
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O	9.36	26.219	24.548
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O	21.31	21.552	17.118
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H	21.367	20.637	17.392
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H	27.582	22.928	25.074
H	27.283	21.845	24.059
O	28.098	12.063	12.714
H	28.49	12.491	11.953
H	27.572	11.353	12.345
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H	19.688	16.2	22.901
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O	20.219	17.398	9.613
H	21.062	17.358	10.063
H	19.753	16.615	9.906
O	16.815	12.151	21.77

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O	14.298	10.813	12.508
H	14.985	10.8	11.841
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O	8.414	13.815	22.047
H	8.693	12.915	21.88
H	9.23	14.309	22.122
O	27.268	12.771	15.442
H	26.34	12.54	15.396
H	27.646	12.406	14.643
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H	21.357	9.739	22.06
H	20.755	10.793	22.965
O	29.545	13.664	8.748
H	28.742	13.678	9.268
H	30.139	13.095	9.239
O	23.224	6.175	17.644
H	23.777	6.187	16.863
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O	19.409	24.33	19.467
H	20.177	23.984	19.922
H	19.523	24.05	18.559
O	15.15	23.322	20.352
H	15.685	22.545	20.191
H	14.359	22.986	20.773
O	22.52	22.091	13.856
H	21.633	22.215	13.52
H	22.443	22.242	14.798
O	18.279	15.065	22.961
H	17.794	15.164	23.781
H	17.829	14.357	22.501
O	15.927	8.033	16.597
H	15.802	7.089	16.502
H	16.391	8.13	17.429
O	28.018	22.874	19.665
H	27.946	21.926	19.553
H	28.904	23.008	20.002
O	17.628	25.957	14.337
H	17.759	26.13	15.27
H	18.137	26.635	13.894
O	18.629	18.047	24.495
H	19.425	17.798	24.027
H	18.252	17.217	24.786

O	19.091	21.702	21.61
H	19.893	21.913	21.132
H	19.386	21.511	22.501
O	23.917	24.227	20.046
H	24.379	23.451	20.363
H	24.368	24.46	19.235
O	21.055	15.483	13.922
H	20.52	14.923	14.484
H	21.497	16.077	14.529
O	24.222	10.565	18.262
H	24.868	9.939	18.589
H	24.551	10.82	17.4
O	25.046	11.998	21.977
H	25.844	12.043	22.503
H	24.907	11.062	21.832
O	10.185	19.902	11.363
H	10.681	20.668	11.651
H	9.446	19.854	11.969
O	20.387	10.75	11.029
H	20.686	11.237	11.797
H	21.093	10.129	10.849
O	21.753	14.324	8.707
H	21.991	14.935	9.404
H	22.481	14.373	8.087
O	22.599	19.857	8.309
H	22.736	20.754	8.005
H	22.329	19.952	9.222
O	19.101	14.65	9.853
H	18.31	14.349	9.407
H	19.813	14.432	9.253
O	15.175	18.744	8.697
H	15.753	18.867	9.45
H	15.604	18.066	8.174
O	24.633	24.894	15.023
H	24.047	24.343	15.542
H	24.047	25.426	14.484
O	27.14	14.032	10.141
H	26.858	14.497	10.93
H	26.466	13.368	10.001
O	26.89	17.52	9.823
H	26.255	17.894	10.434
H	27.67	17.362	10.355
O	8.073	19.293	12.916
H	7.339	19.82	13.231
H	7.831	18.392	13.131
O	18.504	19.38	8.678
H	17.977	19.426	9.475

H	19.214	18.775	8.895
O	20.104	6.795	25.015
H	20.145	6.764	24.059
H	19.476	7.492	25.204
O	22.582	8.671	21.629
H	22.293	7.763	21.724
H	23.441	8.695	22.051
O	19.672	12.13	20.083
H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	25.745	8.456	19.464
H	26.1	7.602	19.219
H	25.767	8.46	20.421
O	20.681	4.849	17.283
H	21.085	3.984	17.214
H	21.419	5.454	17.358
O	24.821	6.199	15.508
H	25.311	5.466	15.136
H	25.487	6.86	15.697
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
O	18.595	4.874	20.615
H	17.733	4.934	21.028
H	18.43	5.061	19.69
O	22.777	7.188	13.749
H	23.243	6.495	14.218
H	22.565	7.833	14.424
O	22.325	8.632	18.507
H	23.08	9.21	18.608
H	21.889	8.655	19.359
O	15.022	8.21	21.62
H	15.405	8.711	22.34
H	14.179	8.633	21.456
O	23.142	5.674	20.23
H	23.876	6.209	20.531
H	23.16	5.756	19.277
O	17.461	8.619	13.175
H	17.91	8.001	13.751
H	17.992	9.414	13.216
O	16.549	9.056	23.942
H	17.251	8.693	24.482
H	16.269	9.842	24.409
O	19.849	6.507	22.403
H	19.182	7.037	21.965
H	19.777	5.645	21.994
O	13.207	10.901	16.462

H	13.966	10.894	15.878
H	12.945	9.983	16.526
O	23.406	10.236	25.781
H	23.432	9.436	26.307
H	24.233	10.677	25.974
O	24.848	9.495	10.383
H	24.994	10.398	10.1
H	25.694	9.213	10.73
O	18.294	8.698	21.634
H	19.002	9.278	21.914
H	17.596	8.848	22.271
O	27.262	11.494	24.43
H	26.724	11.713	25.191
H	27.418	10.553	24.51
O	16.553	11.125	27.716
H	16.055	10.917	26.925
H	16.725	12.064	27.651
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751
O	26.295	5.941	18.23
H	25.431	5.529	18.237
H	26.908	5.213	18.332
O	17.242	11.293	18.992
H	17.164	10.418	18.613
H	16.411	11.72	18.781
O	11.883	15.87	9.605
H	12.188	16.476	10.28
H	11.015	16.195	9.365
O	24.303	15.474	8.769
H	24.325	16.277	8.249
H	25.183	15.403	9.137
O	10.345	24.772	26.483
H	10.794	24.263	25.808
H	11.047	25.231	26.943
O	6.743	23.957	24.422
H	7.142	23.753	25.268
H	7.408	23.714	23.778
O	11.233	24.062	21.261
H	10.486	23.476	21.134
H	11.931	23.493	21.584
O	11.536	26.417	22.465
H	10.698	26.726	22.807
H	11.308	25.667	21.915
O	7.57	23.724	19.557
H	6.861	23.086	19.479
H	7.503	24.255	18.763

O	9.281	21.829	21.265
H	8.698	22.45	20.829
H	9.496	21.187	20.588
O	10.03	27.47	19.351
H	9.481	28.238	19.507
H	9.7	26.811	19.962
O	8.322	22.971	26.654
H	7.712	23.213	27.351
H	8.996	23.651	26.679
O	7.694	13.829	26.977
H	6.99	13.731	26.335
H	8.345	14.375	26.537
O	19.124	16.275	29.635
H	19.402	15.702	30.349
H	19.934	16.501	29.179
O	11.99	9.548	24.076
H	11.727	10.048	23.304
H	11.218	9.557	24.642
O	10.627	16.069	14.79
H	10.043	16.794	15.01
H	11.485	16.478	14.678
O	7.258	25.223	17.33
H	7.475	26.051	17.759
H	6.914	25.48	16.474
O	4.969	14.157	19.343
H	5.51	14.933	19.496
H	5.238	13.844	18.479
O	5.269	16.773	17.728
H	5.056	17.109	16.857
H	5.421	15.838	17.593
O	6.669	17.421	14.285
H	5.782	17.404	14.643
H	7.076	16.619	14.614
O	3.784	19.597	21.196
H	3.605	19.147	20.371
H	3.726	18.91	21.861
O	6.793	20.993	16.992
H	7.708	21.26	17.083
H	6.708	20.232	17.566
O	10.889	20.232	15.06
H	10.994	20.785	14.286
H	11.766	20.18	15.439
O	6.589	20.397	27.023
H	7.251	21.087	27.054
H	6.629	19.987	27.887
O	10.311	13.591	14.341
H	11.167	13.391	13.961

H	10.27	14.547	14.347
O	22.708	27.764	19.976
H	23.029	28.05	20.831
H	21.756	27.738	20.074
O	15.493	21.324	26.146
H	15.28	22.159	25.728
H	15.233	21.441	27.059
O	9.923	11.473	21.452
H	10.413	11.212	20.673
H	10.595	11.737	22.08
O	9.436	21.342	17.242
H	9.867	22.169	17.025
H	9.86	20.696	16.678
O	6.216	20.945	14.084
H	5.983	20.699	14.979
H	6.268	21.9	14.103
O	12.158	18.656	26.6
H	11.225	18.793	26.439
H	12.596	19.249	25.989
O	10.421	24.811	14.196
H	10.087	25.32	13.456
H	11.367	24.955	14.177
O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492
O	8.511	15.399	24.713
H	8.957	16.163	24.349
H	7.882	15.144	24.038
O	8.856	11.454	17.814
H	9.752	11.453	18.151
H	8.62	12.381	17.765
O	11.364	11.877	18.304
H	11.246	12.788	18.033
H	12.181	11.607	17.884
O	11.853	25.183	18.281
H	11.887	24.91	19.198
H	11.671	26.122	18.318
O	5.727	16.408	23.623
H	4.838	16.737	23.752
H	6.176	16.598	24.447
O	13.069	12.808	13.633
H	13.689	12.119	13.395
H	13.468	13.241	14.388
O	6.632	18.898	19.134
H	6.882	18.464	19.949
H	6.162	18.226	18.64
O	10.827	15.006	21.802

H	11.27	15.512	21.121
H	10.502	15.664	22.417
O	11.4	11.911	26.723
H	12.157	12.312	27.149
H	11.041	12.605	26.17
O	11.083	14.387	17.521
H	10.829	15.24	17.873
H	11.042	14.498	16.572
O	13.664	10.862	21.141
H	13.498	10.818	20.199
H	13.795	11.794	21.317
O	10.412	23.596	16.652
H	10.728	24.219	17.306
H	10.385	24.097	15.837
O	7.234	18.164	22.144
H	7.628	18.837	22.698
H	6.779	17.586	22.756
O	5.391	21.911	19.72
H	5.166	21.406	20.501
H	5.839	21.286	19.15
O	12.741	18.302	11.121
H	11.822	18.561	11.053
H	13.228	19.063	10.804
O	8.687	16.129	12.3
H	8.632	16.325	11.364
H	8.437	15.207	12.366
O	14.027	13.954	10.726
H	13.286	14.48	10.426
H	13.64	13.308	11.316

Table S15. PYP chromophore + 397 waters

Method	Time (s)	iterations	E (eV)	f
CIS	894.0	12	3.65	1.6
TD-BLYP	-	-	-	-
TD-B3LYP	910.3	7	0.09	0.0

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	29.182	25.39	22.779
H	29.281	25.376	23.731
H	28.342	25.825	22.632
O	29.551	22.926	11.032
H	30.104	23.7	10.923
H	29.77	22.597	11.904
O	33.894	22.795	16.377
H	34.33	22.95	17.215
H	33.272	22.09	16.558
O	30.112	21.211	18.047
H	30.308	22.125	18.252
H	29.292	21.246	17.554

O	24.075	15.499	29.422
H	24.789	14.887	29.603
H	23.281	15.008	29.631
O	26.423	14.107	29.296
H	26.561	13.165	29.395
H	26.809	14.318	28.445
O	27.383	22.332	28.542
H	28.134	22.88	28.772
H	27.568	21.487	28.951
O	25.825	17.56	30.061
H	25.435	16.932	29.452
H	25.968	17.058	30.863
O	28.391	13.11	22.223
H	29.252	12.971	21.829
H	28.33	12.444	22.907
O	31.475	22.004	26.329
H	31.137	21.63	27.143
H	31.181	21.401	25.647
O	29.307	17.709	27.704
H	30.224	17.766	27.973
H	29.295	18.067	26.817
O	24.938	16.847	11.925
H	24.601	17.235	12.732
H	25.689	16.325	12.206
O	32.469	14.752	21.385
H	33.348	14.759	21.766
H	32.195	13.836	21.431
O	30.816	19.132	13.418
H	30.974	18.346	13.94
H	31.54	19.153	12.792
O	30.284	15.257	11.884
H	31.234	15.279	11.994
H	30.077	14.33	11.768
O	32.263	11.353	17.063
H	32.41	10.514	17.499
H	31.311	11.441	17.027
O	33.28	18.588	15.193
H	33.815	17.822	15.401
H	32.532	18.235	14.713
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601
O	24.721	18.014	7.559
H	23.933	18.514	7.772
H	25.27	18.627	7.07
O	29.689	10.354	19.041
H	30.009	9.628	18.504

H	28.925	10.684	18.568
O	31.465	16.672	14.469
H	32.168	16.029	14.378
H	30.721	16.168	14.799
O	34.923	10.571	19.564
H	35.348	10.322	18.743
H	35.619	10.977	20.08
O	30.751	18.966	19.536
H	30.85	19.768	19.022
H	29.824	18.742	19.454
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	32.002	10.998	22.33
H	32.425	10.517	21.619
H	31.574	11.737	21.899
O	29.855	14.696	24.663
H	29.947	14.331	23.783
H	29.069	15.241	24.615
O	31.889	16.56	19.452
H	32.012	16.092	20.278
H	31.432	17.364	19.699
O	27.763	8.742	24.655
H	27.349	7.971	25.04
H	28.329	8.392	23.967
O	30.544	12.556	20.427
H	30.218	11.819	19.909
H	30.792	13.214	19.777
O	32.612	20.608	17.136
H	31.709	20.388	17.362
H	32.89	19.906	16.547
O	28.345	21.116	22.423
H	29.083	21.585	22.033
H	27.883	20.733	21.678
O	28.626	7.578	18.14
H	29.131	7.399	18.934
H	27.944	6.906	18.134
O	34.025	19.389	20.825
H	33.18	19.249	21.253
H	33.999	18.825	20.053
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934
O	24.407	14.872	14.057

H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85
H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	29.304	15.125	15.496
H	29.712	15.071	16.36
H	28.974	14.241	15.332
O	30.935	23.768	18.813
H	31.045	24.586	19.299
H	31.712	23.253	19.032
O	22.565	11.422	7.263
H	21.77	10.969	6.982
H	23.22	10.729	7.341
O	30.88	7.56	16.768
H	29.99	7.73	17.076
H	30.996	6.616	16.879
O	30.268	23.047	21.979
H	31.187	23.245	21.797
H	29.889	23.888	22.238
O	27.648	21.192	16.796
H	27.35	20.499	16.206
H	26.861	21.705	16.979
O	29.094	23.158	15.712
H	28.684	22.32	15.928
H	29.846	22.923	15.168
O	32.982	14.146	13.03
H	33.495	13.501	12.543
H	33.138	13.931	13.95
O	24.198	19.84	23.687
H	24.475	20.696	23.361
H	23.265	19.795	23.477
O	27.776	19.346	29.523
H	28.367	18.91	28.909
H	27.057	18.725	29.643
O	31.049	20.49	23.466
H	31.305	20.855	22.619
H	30.106	20.348	23.391
O	33.02	19.355	24.959
H	32.359	19.651	24.333
H	32.922	18.403	24.978
O	34.337	17.381	18.699
H	33.413	17.138	18.745
H	34.589	17.193	17.794
O	36.349	14.37	16.428
H	35.776	13.647	16.683
H	36.874	14.547	17.209

O	30.684	26.111	20.225
H	30.14	25.942	20.994
H	30.563	27.043	20.045
O	28.875	25.274	17.405
H	29.024	24.584	16.759
H	28.96	24.832	18.25
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
O	25.055	10.896	15.923
H	24.361	10.877	15.264
H	25.56	10.099	15.762
O	27.663	15.508	12.777
H	28.527	15.453	12.369
H	27.845	15.681	13.701
O	26.642	8.919	16.155
H	27.111	8.832	15.325
H	27.2	8.476	16.794
O	32.886	23.254	20.961
H	33.701	22.752	20.958
H	33.126	24.103	20.589
O	30.396	12.661	26.533
H	29.905	13.14	27.202
H	30.326	13.206	25.749
O	22.286	8.889	11.272
H	23.098	9.247	10.913
H	22.562	8.394	12.043
O	34.969	16.574	15.88
H	35.407	15.772	16.167
H	35.513	16.901	15.163
O	26.164	11.202	7.345
H	25.545	10.472	7.333
H	25.8	11.815	7.984
O	33.064	19.005	11.754
H	33.956	19.326	11.886
H	33.051	18.7	10.847
O	30.605	17.651	8.116
H	29.808	18.112	7.853
H	30.494	17.497	9.054
O	28.183	20.556	11.69
H	27.261	20.81	11.729
H	28.556	21.113	11.007
O	28.184	19.383	14.719
H	27.476	19.592	14.11
H	28.984	19.585	14.233
O	24.872	12.144	9.43
H	24.826	12.666	10.231

H	23.958	11.996	9.188
O	26.832	5.189	21.622
H	27.252	5.047	20.773
H	27.56	5.309	22.232
O	27.915	9.266	11.271
H	28.66	9.642	10.801
H	28.008	8.321	11.15
O	34.216	13.143	17.637
H	33.781	13.513	18.405
H	33.591	12.503	17.294
O	31.702	10.129	12.535
H	31.309	9.286	12.76
H	32.645	9.98	12.605
O	26.913	4.285	15.371
H	26.952	3.337	15.496
H	27.829	4.556	15.306
O	30.626	7.601	12.479
H	30.147	7.318	11.699
H	31.486	7.19	12.393
O	32.572	8.073	14.925
H	33.368	7.745	15.343
H	31.863	7.787	15.501
O	32.539	7.536	19.134
H	32.199	7.545	18.239
H	33.388	7.099	19.063
O	25.355	8.517	22.306
H	25.206	7.892	23.016
H	26.306	8.621	22.275
O	22.716	6.274	26.162
H	22.311	6.96	26.692
H	22.078	6.099	25.47
O	29.441	10.867	16.12
H	29.416	10.227	15.408
H	28.616	11.345	16.04
O	31.122	12.532	11.065
H	31.196	11.965	11.832
H	32.015	12.84	10.907
O	28.552	8.795	13.93
H	29.499	8.672	13.861
H	28.268	8.976	13.034
O	29.73	10.361	9.699
H	29.491	10.671	8.826
H	30.535	10.834	9.91
O	26.718	26.606	22.365
H	26.922	27.468	22.002
H	25.77	26.522	22.263
O	20.485	24.189	26.946

H	19.824	23.499	26.989
H	20.982	24.095	27.759
O	21.841	25.67	24.919
H	21.461	24.958	25.433
H	22.774	25.46	24.871
O	23.943	26.468	22.389
H	23.24	27.114	22.464
H	23.571	25.769	21.852
O	12.238	24.196	24.379
H	12.264	25.01	23.876
H	13.158	23.962	24.504
O	13.619	27.917	18.44
H	14.291	28.521	18.757
H	13.651	27.182	19.051
O	18.176	26.857	16.936
H	17.888	25.989	17.218
H	17.621	27.464	17.426
O	13.129	20.587	24.819
H	14.035	20.781	25.059
H	12.692	21.438	24.822
O	8.368	24.538	22.244
H	8.26	25.485	22.33
H	8.09	24.345	21.349
O	14.801	26.026	20.08
H	15.168	25.155	19.923
H	14.58	26.028	21.011
O	11.77	26.697	27.758
H	12.281	27.238	28.36
H	10.88	27.045	27.821
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	14.1	25.544	16.465
H	14.254	26.406	16.851
H	13.352	25.195	16.95
O	22.678	29.625	16.507
H	23.225	30.276	16.946
H	22.985	28.785	16.848
O	19.204	28.066	13.227
H	19.892	28.232	12.582
H	18.729	28.895	13.289
O	15.718	25.165	8.299
H	16.584	24.811	8.1
H	15.678	25.178	9.255
O	11.17	29.151	21.291
H	12.004	29.4	21.69
H	11.226	28.201	21.193

O	16.267	28.198	26.672
H	16.151	27.332	26.281
H	15.448	28.656	26.485
O	25.075	27.949	24.701
H	25.929	27.518	24.754
H	24.626	27.503	23.984
O	10.628	21.988	23.73
H	11.119	22.808	23.678
H	10.072	21.992	22.95
O	26.258	25.458	17.288
H	27.206	25.532	17.392
H	26.119	25.466	16.341
O	17.29	27.644	20.529
H	17.728	27.128	21.207
H	16.63	27.052	20.168
O	16.955	15.331	32.7
H	16.55	15.37	33.566
H	16.453	15.951	32.171
O	21.44	22.08	30.761
H	22.317	22.004	30.384
H	21.373	21.338	31.362
O	12.756	16.479	24.912
H	13.482	16.7	25.496
H	12.671	17.239	24.337
O	16.042	14.118	27.054
H	15.404	14.757	26.737
H	16.134	14.312	27.986
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H	4.404	14.303	21.176
H	5.022	15.036	22.348
O	16.029	25.333	26.761
H	16.951	25.579	26.679
H	15.939	25.037	27.667
O	11.873	17.622	29.258
H	11.424	17.928	28.469
H	12.778	17.482	28.979
O	23.729	23.294	23.224
H	24.058	24.189	23.134
H	24.062	22.838	22.451
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H	19.722	10.973	29.593
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H	22.221	19.013	30.573

H	21.531	18.414	31.779
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H	21.965	16.894	27.32
H	22.616	16.28	28.541
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H	6.896	18.049	29.205
H	7.735	18.631	30.322
O	13.558	25.662	30.212
H	13.476	26.59	30.432
H	13.048	25.56	29.408
O	19.811	22.199	24.228
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H	19.187	22.198	24.953
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H	22.54	16.622	24.528
H	23.125	17.825	25.235
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H	28.641	15.958	27.641
H	28.357	15.307	26.304
O	21.999	28.447	22.887
H	21.135	28.619	23.261
H	22.272	29.286	22.517
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H	11.386	14.863	27.885
H	11.646	15.632	29.162
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H	9.487	20.234	29.485
H	10.295	19.828	28.271
O	21.743	21.82	27.681
H	22.61	21.852	27.276
H	21.234	21.243	27.112
O	14.851	23.762	24.915
H	15.36	24.056	24.159
H	15.232	24.231	25.657
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H	17.465	14.704	30
O	12.496	18.392	23.093
H	12.583	19.222	23.562
H	12.739	18.6	22.191
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H	12.659	21.659	28.471
H	13.674	21.478	29.579
O	9.923	17.477	27.295
H	9.111	17.051	27.568
H	10.363	16.827	26.747
O	18.347	8.686	25.953

H	18.62	9.597	26.065
H	18.068	8.41	26.826
O	24.758	23.037	28.812
H	24.497	23.059	27.891
H	25.629	22.639	28.804
O	21.843	14.029	29.919
H	21.364	13.201	29.9
H	21.47	14.505	30.661
O	10.883	14.903	26.04
H	10.417	14.692	25.231
H	11.719	15.265	25.746
O	21.655	11.816	28.049
H	22.116	11.342	28.742
H	22.219	11.724	27.281
O	13.533	12.733	28.119
H	14.455	12.946	27.977
H	13.182	13.489	28.589
O	23.935	13.857	27.143
H	23.268	14.002	27.814
H	24.462	14.655	27.153
O	18.692	26.056	26.329
H	19.128	26.796	26.752
H	19.378	25.394	26.239
O	11.851	12.855	23.124
H	11.658	13.712	22.744
H	12.698	12.969	23.555
O	15.626	12.123	30.89
H	15.657	11.216	30.585
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O	10.014	20.59	26.179
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H	17.651	12.172	25.065
O	23.37	10.671	13.931
H	22.71	9.994	14.082
H	22.878	11.41	13.574
O	15.044	14.239	14.849
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H	15.803	14.127	15.421

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H	16.609	17.286	15.394
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H	15.971	22.046	29.452
H	16.454	23.468	29.264
O	25.461	27.257	19.145
H	24.532	27.278	19.375
H	25.525	26.581	18.47
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H	24.902	12.36	27.139
H	25.715	11.43	28.013
O	18.419	5.694	17.961
H	17.904	5.222	17.306
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O	25.06	21.993	21.145
H	25.996	22.109	20.98
H	24.83	21.197	20.666
O	29.628	17.598	10.714
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H	30.054	16.899	11.21
O	17.57	13.249	16.234
H	18.437	13.654	16.246
H	17.195	13.459	17.089
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H	14.861	15.48	11.662
H	15.297	15.07	13.052
O	21.627	12.663	13.231
H	21.25	12.924	14.071
H	21.47	13.412	12.655
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H	18.607	15.4	25.932
H	17.126	15.092	25.988
O	18.731	22.555	17.426
H	17.984	22.738	16.856
H	18.404	22.718	18.31
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H	15.683	13.996	9.818
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H	14.669	14.215	21.613
H	14.139	13.841	20.245
O	22.909	23.677	16.692
H	22.302	24.379	16.929

H	22.394	22.875	16.78
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H	21.624	26.451	13.154
H	22.138	26.778	14.54
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H	29.064	4.957	19.64
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H	9.56	19.004	15.215
H	8.079	18.693	15.179
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H	12.403	21.614	12.659
H	11.531	22.85	12.711
O	21.335	19.709	23.292
H	20.775	20.422	23.599
H	20.725	19.007	23.064
O	19.946	29.885	16.909
H	20.864	29.831	16.642
H	19.97	30.307	17.768
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H	13.563	25.508	14.176
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H	25.102	20.588	12.146
H	25.298	22.031	12.559
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H	27.956	24.443	14.635
H	26.543	24.758	14.194
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H	18.729	13.63	28.295
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O	11.386	16.902	19.667
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H	11.773	17.567	20.236
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H	28.205	16.731	24.094
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O	18.261	22.005	26.323
H	17.341	22.148	26.101
H	18.241	21.652	27.212
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H	14.873	17.039	27.374
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H	19.113	18.833	26.259
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H	12.414	14.723	18.441
H	13.003	15.872	19.231
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H	16.016	8.472	19.748
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H	14.767	17.467	13.154
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H	22.108	10.945	24.616
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H	17.434	11.501	11.239
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H	27.83	19.759	24.083
H	27.119	18.729	24.934
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H	25.369	16.91	26.432
H	26.523	16.094	26.975
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H	21.323	26.57	17.693
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H	8.385	14.873	14.875
O	19.662	19.241	14.753
H	19.241	19.991	14.332
H	18.958	18.601	14.862
O	25.015	25.077	25.389
H	24.909	25.396	26.285
H	25.954	25.154	25.217
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H	15.635	9.705	15.681
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H	25.154	22.104	25.836
H	23.727	22.436	25.455
O	19.663	25.389	12.536
H	19.505	26.136	13.115
H	19.449	25.714	11.662
O	22.74	15.438	22.947
H	23.517	15.344	22.397
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H	23.249	16.2	11.189

H	21.924	15.914	11.862
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H	16.29	20.474	15.55
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H	20.389	12.444	16.206
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H	25.252	12.3	12.426
H	24.624	13.676	12.477
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H	28.235	10.275	20.881
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H	25.957	23.193	17.351
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H	31.534	22.436	13.618
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O	15.709	27.732	22.834

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H	23.629	23.12	12.597
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O	16.921	23.022	22.968
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H	17.52	20.917	13.477
O	11.65	21.466	19.131
H	12.012	20.691	18.703
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H	20.645	12.75	8.341
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H	25.257	16.216	23.076
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H	24.96	19.407	25.555
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H	17.553	24.829	23.332
H	18.056	25.889	24.288

O	14.927	15.308	22.925
H	14.754	14.585	23.528
H	14.552	16.075	23.358
O	27.736	17.219	19.315
H	27.382	17.243	18.426
H	27.865	16.288	19.496
O	14.371	13.497	24.665
H	13.969	12.678	24.955
H	15.312	13.331	24.71
O	19.094	11.327	25.729
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H	19.942	11.511	25.326
O	20.257	22.752	12.421
H	19.441	22.302	12.202
H	19.999	23.665	12.552
O	16.52	23.984	12.622
H	16.125	24.529	11.941
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O	9.36	26.219	24.548
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O	21.31	21.552	17.118
H	20.371	21.738	17.095
H	21.367	20.637	17.392
O	26.912	22.294	24.819
H	27.582	22.928	25.074
H	27.283	21.845	24.059
O	26.128	20.794	8.596
H	25.623	21.575	8.823
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O	28.098	12.063	12.714
H	28.49	12.491	11.953
H	27.572	11.353	12.345
O	20.386	16.855	22.874
H	19.688	16.2	22.901
H	21.169	16.361	22.63
O	20.219	17.398	9.613
H	21.062	17.358	10.063
H	19.753	16.615	9.906
O	16.815	12.151	21.77
H	15.968	12.574	21.625
H	17.118	11.915	20.894
O	23.346	13.405	24.485
H	23.579	13.548	25.403
H	24.171	13.162	24.065
O	14.298	10.813	12.508
H	14.985	10.8	11.841

H	14.71	10.432	13.283
O	27.973	19.014	7.91
H	27.322	19.715	7.966
H	27.618	18.314	8.458
O	8.414	13.815	22.047
H	8.693	12.915	21.88
H	9.23	14.309	22.122
O	27.268	12.771	15.442
H	26.34	12.54	15.396
H	27.646	12.406	14.643
O	20.594	10.31	22.154
H	21.357	9.739	22.06
H	20.755	10.793	22.965
O	29.545	13.664	8.748
H	28.742	13.678	9.268
H	30.139	13.095	9.239
O	23.224	6.175	17.644
H	23.777	6.187	16.863
H	22.995	7.093	17.788
O	19.409	24.33	19.467
H	20.177	23.984	19.922
H	19.523	24.05	18.559
O	7.605	10.179	21.005
H	8.263	10.849	21.186
H	7.961	9.687	20.265
O	15.15	23.322	20.352
H	15.685	22.545	20.191
H	14.359	22.986	20.773
O	22.52	22.091	13.856
H	21.633	22.215	13.52
H	22.443	22.242	14.798
O	18.279	15.065	22.961
H	17.794	15.164	23.781
H	17.829	14.357	22.501
O	15.927	8.033	16.597
H	15.802	7.089	16.502
H	16.391	8.13	17.429
O	28.018	22.874	19.665
H	27.946	21.926	19.553
H	28.904	23.008	20.002
O	17.628	25.957	14.337
H	17.759	26.13	15.27
H	18.137	26.635	13.894
O	18.629	18.047	24.495
H	19.425	17.798	24.027
H	18.252	17.217	24.786
O	19.091	21.702	21.61

H	19.893	21.913	21.132
H	19.386	21.511	22.501
O	23.917	24.227	20.046
H	24.379	23.451	20.363
H	24.368	24.46	19.235
O	21.055	15.483	13.922
H	20.52	14.923	14.484
H	21.497	16.077	14.529
O	24.222	10.565	18.262
H	24.868	9.939	18.589
H	24.551	10.82	17.4
O	25.046	11.998	21.977
H	25.844	12.043	22.503
H	24.907	11.062	21.832
O	10.185	19.902	11.363
H	10.681	20.668	11.651
H	9.446	19.854	11.969
O	20.387	10.75	11.029
H	20.686	11.237	11.797
H	21.093	10.129	10.849
O	18.426	9.698	9.126
H	19.206	9.307	9.522
H	18.13	10.342	9.769
O	18.182	24.209	8.114
H	18.945	24.632	8.509
H	18.506	23.359	7.818
O	21.753	14.324	8.707
H	21.991	14.935	9.404
H	22.481	14.373	8.087
O	22.599	19.857	8.309
H	22.736	20.754	8.005
H	22.329	19.952	9.222
O	9.459	16.99	9.082
H	8.605	16.558	9.061
H	9.255	17.925	9.078
O	19.101	14.65	9.853
H	18.31	14.349	9.407
H	19.813	14.432	9.253
O	19.734	25.768	9.831
H	20.332	25.069	9.568
H	20.129	26.567	9.481
O	15.175	18.744	8.697
H	15.753	18.867	9.45
H	15.604	18.066	8.174
O	24.633	24.894	15.023
H	24.047	24.343	15.542
H	24.047	25.426	14.484

O	27.14	14.032	10.141
H	26.858	14.497	10.93
H	26.466	13.368	10.001
O	26.89	17.52	9.823
H	26.255	17.894	10.434
H	27.67	17.362	10.355
O	19.228	16.616	7.143
H	20.039	16.978	6.788
H	19.092	17.09	7.963
O	8.073	19.293	12.916
H	7.339	19.82	13.231
H	7.831	18.392	13.131
O	18.504	19.38	8.678
H	17.977	19.426	9.475
H	19.214	18.775	8.895
O	24.323	25.463	9.965
H	24.664	25.721	9.109
H	23.615	26.083	10.138
O	24.171	22.829	8.747
H	23.279	23.17	8.821
H	24.714	23.479	9.192
O	21.244	23.78	8.287
H	21.294	24.432	7.588
H	20.811	23.028	7.883
O	19.924	21.603	7.612
H	20.045	21.457	6.674
H	19.489	20.809	7.924
O	24.135	9.013	7.504
H	24.017	8.16	7.084
H	24.243	8.81	8.433
O	20.533	7.791	9.143
H	21.058	7.108	8.727
H	20.768	7.744	10.07
O	14.962	26.232	10.749
H	15.29	27.119	10.896
H	14.02	26.344	10.621
O	12.377	19.602	8.232
H	13.164	19.429	8.749
H	12.059	20.445	8.555
O	21.656	8.536	27.858
H	20.705	8.617	27.786
H	21.897	9.152	28.549
O	20.104	6.795	25.015
H	20.145	6.764	24.059
H	19.476	7.492	25.204
O	21.823	4.798	23.765
H	22.025	4.211	23.036

H	21.345	5.523	23.363
O	22.582	8.671	21.629
H	22.293	7.763	21.724
H	23.441	8.695	22.051
O	19.672	12.13	20.083
H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	25.745	8.456	19.464
H	26.1	7.602	19.219
H	25.767	8.46	20.421
O	14.942	7.964	12.04
H	14.351	7.747	12.761
H	15.77	8.182	12.468
O	25.469	4.58	12.551
H	24.865	4.327	13.25
H	26.339	4.488	12.942
O	12.903	8.209	16.179
H	13.744	7.755	16.229
H	12.679	8.196	15.249
O	20.681	4.849	17.283
H	21.085	3.984	17.214
H	21.419	5.454	17.358
O	14.96	5.607	16.675
H	15.424	5.202	17.408
H	14.977	4.944	15.985
O	24.821	6.199	15.508
H	25.311	5.466	15.136
H	25.487	6.86	15.697
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
O	15.859	5.475	21.218
H	15.249	5.051	20.614
H	15.499	6.353	21.344
O	20.771	5.262	12.215
H	21.477	5.904	12.298
H	21.215	4.414	12.234
O	18.595	4.874	20.615
H	17.733	4.934	21.028
H	18.43	5.061	19.69
O	22.777	7.188	13.749
H	23.243	6.495	14.218
H	22.565	7.833	14.424
O	22.325	8.632	18.507
H	23.08	9.21	18.608
H	21.889	8.655	19.359
O	15.022	8.21	21.62

H	15.405	8.711	22.34
H	14.179	8.633	21.456
O	23.142	5.674	20.23
H	23.876	6.209	20.531
H	23.16	5.756	19.277
O	17.461	8.619	13.175
H	17.91	8.001	13.751
H	17.992	9.414	13.216
O	16.549	9.056	23.942
H	17.251	8.693	24.482
H	16.269	9.842	24.409
O	19.849	6.507	22.403
H	19.182	7.037	21.965
H	19.777	5.645	21.994
O	13.207	10.901	16.462
H	13.966	10.894	15.878
H	12.945	9.983	16.526
O	23.406	10.236	25.781
H	23.432	9.436	26.307
H	24.233	10.677	25.974
O	24.848	9.495	10.383
H	24.994	10.398	10.1
H	25.694	9.213	10.73
O	18.294	8.698	21.634
H	19.002	9.278	21.914
H	17.596	8.848	22.271
O	30.401	5.99	20.707
H	31.337	6.172	20.791
H	30.087	5.927	21.609
O	27.262	11.494	24.43
H	26.724	11.713	25.191
H	27.418	10.553	24.51
O	16.553	11.125	27.716
H	16.055	10.917	26.925
H	16.725	12.064	27.651
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751
O	26.295	5.941	18.23
H	25.431	5.529	18.237
H	26.908	5.213	18.332
O	17.242	11.293	18.992
H	17.164	10.418	18.613
H	16.411	11.72	18.781
O	11.883	15.87	9.605
H	12.188	16.476	10.28
H	11.015	16.195	9.365

O	24.303	15.474	8.769
H	24.325	16.277	8.249
H	25.183	15.403	9.137
O	10.345	24.772	26.483
H	10.794	24.263	25.808
H	11.047	25.231	26.943
O	6.743	23.957	24.422
H	7.142	23.753	25.268
H	7.408	23.714	23.778
O	4.606	20.151	25.387
H	5.257	20.411	26.038
H	4.765	19.218	25.248
O	11.233	24.062	21.261
H	10.486	23.476	21.134
H	11.931	23.493	21.584
O	9.48	27.556	15.717
H	10.067	26.861	15.418
H	9.744	27.719	16.622
O	11.536	26.417	22.465
H	10.698	26.726	22.807
H	11.308	25.667	21.915
O	7.942	27.289	21.811
H	7.106	26.846	21.668
H	7.809	28.17	21.461
O	7.57	23.724	19.557
H	6.861	23.086	19.479
H	7.503	24.255	18.763
O	9.281	21.829	21.265
H	8.698	22.45	20.829
H	9.496	21.187	20.588
O	10.03	27.47	19.351
H	9.481	28.238	19.507
H	9.7	26.811	19.962
O	8.322	22.971	26.654
H	7.712	23.213	27.351
H	8.996	23.651	26.679
O	7.694	13.829	26.977
H	6.99	13.731	26.335
H	8.345	14.375	26.537
O	7.121	15.997	28.933
H	6.785	15.262	28.42
H	6.596	15.99	29.733
O	3.119	18.475	18.734
H	3.746	17.906	18.288
H	2.54	18.786	18.038
O	3.798	21.594	23.096
H	3.677	20.919	22.428

H	4.474	21.241	23.674
O	19.124	16.275	29.635
H	19.402	15.702	30.349
H	19.934	16.501	29.179
O	11.99	9.548	24.076
H	11.727	10.048	23.304
H	11.218	9.557	24.642
O	11.687	17.244	31.975
H	11.846	17.457	31.055
H	10.755	17.029	32.013
O	10.627	16.069	14.79
H	10.043	16.794	15.01
H	11.485	16.478	14.678
O	7.258	25.223	17.33
H	7.475	26.051	17.759
H	6.914	25.48	16.474
O	7.461	13.033	12.694
H	7.663	12.851	11.777
H	7.797	12.273	13.17
O	4.969	14.157	19.343
H	5.51	14.933	19.496
H	5.238	13.844	18.479
O	5.269	16.773	17.728
H	5.056	17.109	16.857
H	5.421	15.838	17.593
O	6.669	17.421	14.285
H	5.782	17.404	14.643
H	7.076	16.619	14.614
O	3.784	19.597	21.196
H	3.605	19.147	20.371
H	3.726	18.91	21.861
O	6.793	20.993	16.992
H	7.708	21.26	17.083
H	6.708	20.232	17.566
O	10.889	20.232	15.06
H	10.994	20.785	14.286
H	11.766	20.18	15.439
O	6.589	20.397	27.023
H	7.251	21.087	27.054
H	6.629	19.987	27.887
O	10.311	13.591	14.341
H	11.167	13.391	13.961
H	10.27	14.547	14.347
O	22.708	27.764	19.976
H	23.029	28.05	20.831
H	21.756	27.738	20.074
O	15.493	21.324	26.146

H	15.28	22.159	25.728
H	15.233	21.441	27.059
O	4.572	17.526	26.449
H	4.46	16.583	26.567
H	3.879	17.918	26.982
O	9.923	11.473	21.452
H	10.413	11.212	20.673
H	10.595	11.737	22.08
O	9.436	21.342	17.242
H	9.867	22.169	17.025
H	9.86	20.696	16.678
O	6.216	20.945	14.084
H	5.983	20.699	14.979
H	6.268	21.9	14.103
O	12.158	18.656	26.6
H	11.225	18.793	26.439
H	12.596	19.249	25.989
O	10.421	24.811	14.196
H	10.087	25.32	13.456
H	11.367	24.955	14.177
O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492
O	16.458	16.79	6.819
H	16.051	17.121	6.019
H	17.349	16.558	6.557
O	8.511	15.399	24.713
H	8.957	16.163	24.349
H	7.882	15.144	24.038
O	8.856	11.454	17.814
H	9.752	11.453	18.151
H	8.62	12.381	17.765
O	11.364	11.877	18.304
H	11.246	12.788	18.033
H	12.181	11.607	17.884
O	11.853	25.183	18.281
H	11.887	24.91	19.198
H	11.671	26.122	18.318
O	5.727	16.408	23.623
H	4.838	16.737	23.752
H	6.176	16.598	24.447
O	8.719	11.419	14.191
H	8.544	10.991	15.029
H	9.495	11.956	14.354
O	6.503	23.859	13.896
H	7.332	23.712	14.352
H	6.243	24.744	14.152

O	13.069	12.808	13.633
H	13.689	12.119	13.395
H	13.468	13.241	14.388
O	6.632	18.898	19.134
H	6.882	18.464	19.949
H	6.162	18.226	18.64
O	4.124	21.273	16.129
H	3.35	21.534	16.628
H	4.86	21.629	16.627
O	10.827	15.006	21.802
H	11.27	15.512	21.121
H	10.502	15.664	22.417
O	11.4	11.911	26.723
H	12.157	12.312	27.149
H	11.041	12.605	26.17
O	3.261	17.644	23.186
H	2.591	17.011	22.925
H	2.892	18.08	23.954
O	11.083	14.387	17.521
H	10.829	15.24	17.873
H	11.042	14.498	16.572
O	5.413	14.961	12.896
H	5.8	14.634	12.084
H	6.119	15.452	13.317
O	13.664	10.862	21.141
H	13.498	10.818	20.199
H	13.795	11.794	21.317
O	10.412	23.596	16.652
H	10.728	24.219	17.306
H	10.385	24.097	15.837
O	7.234	18.164	22.144
H	7.628	18.837	22.698
H	6.779	17.586	22.756
O	5.534	13.837	16.786
H	6.369	13.912	16.323
H	4.893	13.663	16.096
O	9.675	23.694	10.775
H	9.012	23.8	10.092
H	9.783	24.572	11.142
O	5.391	21.911	19.72
H	5.166	21.406	20.501
H	5.839	21.286	19.15
O	12.741	18.302	11.121
H	11.822	18.561	11.053
H	13.228	19.063	10.804
O	8.687	16.129	12.3
H	8.632	16.325	11.364

H	8.437	15.207	12.366
O	14.027	13.954	10.726
H	13.286	14.48	10.426
H	13.64	13.308	11.316

Table S16. PYP chromophore + 487 waters

Method	Time(s)	iterations	E(eV)	f
CIS	1221.2	12	3.65	1.6
TD-BLYP	-	-	-	-
TD-B3LYP	1218.7	7	0.05	0.0

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	29.182	25.39	22.779
H	29.281	25.376	23.731
H	28.342	25.825	22.632
O	27.666	29.01	16.826
H	26.744	28.833	17.014
H	28.124	28.779	17.634
O	29.551	22.926	11.032
H	30.104	23.7	10.923
H	29.77	22.597	11.904
O	25.88	25.718	28.046
H	25.602	26.061	28.895
H	25.875	24.767	28.158

O	33.894	22.795	16.377
H	34.33	22.95	17.215
H	33.272	22.09	16.558
O	30.112	21.211	18.047
H	30.308	22.125	18.252
H	29.292	21.246	17.554
O	24.075	15.499	29.422
H	24.789	14.887	29.603
H	23.281	15.008	29.631
O	26.423	14.107	29.296
H	26.561	13.165	29.395
H	26.809	14.318	28.445
O	27.383	22.332	28.542
H	28.134	22.88	28.772
H	27.568	21.487	28.951
O	25.825	17.56	30.061
H	25.435	16.932	29.452
H	25.968	17.058	30.863
O	28.391	13.11	22.223
H	29.252	12.971	21.829
H	28.33	12.444	22.907
O	31.475	22.004	26.329
H	31.137	21.63	27.143
H	31.181	21.401	25.647
O	31.852	17.267	28.442
H	32.534	17.817	28.058
H	32.119	17.156	29.355
O	29.307	17.709	27.704
H	30.224	17.766	27.973
H	29.295	18.067	26.817
O	33.709	17.406	9.427
H	34.618	17.29	9.703
H	33.76	17.531	8.48
O	24.938	16.847	11.925
H	24.601	17.235	12.732
H	25.689	16.325	12.206
O	32.469	14.752	21.385
H	33.348	14.759	21.766
H	32.195	13.836	21.431
O	30.816	19.132	13.418
H	30.974	18.346	13.94
H	31.54	19.153	12.792
O	30.284	15.257	11.884
H	31.234	15.279	11.994
H	30.077	14.33	11.768
O	36.186	20.699	18.464
H	36.55	20.393	19.295

H	35.267	20.432	18.492
O	32.263	11.353	17.063
H	32.41	10.514	17.499
H	31.311	11.441	17.027
O	33.28	18.588	15.193
H	33.815	17.822	15.401
H	32.532	18.235	14.713
O	33.563	9.022	21.216
H	34.106	9.499	20.588
H	32.971	8.501	20.675
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601
O	24.721	18.014	7.559
H	23.933	18.514	7.772
H	25.27	18.627	7.07
O	29.689	10.354	19.041
H	30.009	9.628	18.504
H	28.925	10.684	18.568
O	31.465	16.672	14.469
H	32.168	16.029	14.378
H	30.721	16.168	14.799
O	34.923	10.571	19.564
H	35.348	10.322	18.743
H	35.619	10.977	20.08
O	30.751	18.966	19.536
H	30.85	19.768	19.022
H	29.824	18.742	19.454
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	32.002	10.998	22.33
H	32.425	10.517	21.619
H	31.574	11.737	21.899
O	29.855	14.696	24.663
H	29.947	14.331	23.783
H	29.069	15.241	24.615
O	31.889	16.56	19.452
H	32.012	16.092	20.278
H	31.432	17.364	19.699
O	27.763	8.742	24.655
H	27.349	7.971	25.04
H	28.329	8.392	23.967
O	30.544	12.556	20.427

H	30.218	11.819	19.909
H	30.792	13.214	19.777
O	32.612	20.608	17.136
H	31.709	20.388	17.362
H	32.89	19.906	16.547
O	28.345	21.116	22.423
H	29.083	21.585	22.033
H	27.883	20.733	21.678
O	28.626	7.578	18.14
H	29.131	7.399	18.934
H	27.944	6.906	18.134
O	34.025	19.389	20.825
H	33.18	19.249	21.253
H	33.999	18.825	20.053
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934
O	24.407	14.872	14.057
H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85
H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	29.304	15.125	15.496
H	29.712	15.071	16.36
H	28.974	14.241	15.332
O	30.935	23.768	18.813
H	31.045	24.586	19.299
H	31.712	23.253	19.032
O	22.565	11.422	7.263
H	21.77	10.969	6.982
H	23.22	10.729	7.341
O	33.966	14.561	9.506
H	33.515	15.401	9.592
H	34.874	14.796	9.311
O	30.88	7.56	16.768
H	29.99	7.73	17.076
H	30.996	6.616	16.879
O	29.02	27.364	13.686
H	29.65	27.404	14.405
H	28.385	26.702	13.96
O	30.268	23.047	21.979
H	31.187	23.245	21.797
H	29.889	23.888	22.238
O	27.648	21.192	16.796
H	27.35	20.499	16.206
H	26.861	21.705	16.979

O	29.094	23.158	15.712
H	28.684	22.32	15.928
H	29.846	22.923	15.168
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H	35.24	20.289	13.454
H	34.281	20.321	14.625
O	32.982	14.146	13.03
H	33.495	13.501	12.543
H	33.138	13.931	13.95
O	24.198	19.84	23.687
H	24.475	20.696	23.361
H	23.265	19.795	23.477
O	27.776	19.346	29.523
H	28.367	18.91	28.909
H	27.057	18.725	29.643
O	31.049	20.49	23.466
H	31.305	20.855	22.619
H	30.106	20.348	23.391
O	33.02	19.355	24.959
H	32.359	19.651	24.333
H	32.922	18.403	24.978
O	34.337	17.381	18.699
H	33.413	17.138	18.745
H	34.589	17.193	17.794
O	36.349	14.37	16.428
H	35.776	13.647	16.683
H	36.874	14.547	17.209
O	30.684	26.111	20.225
H	30.14	25.942	20.994
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O	28.875	25.274	17.405
H	29.024	24.584	16.759
H	28.96	24.832	18.25
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
O	25.055	10.896	15.923
H	24.361	10.877	15.264
H	25.56	10.099	15.762
O	27.663	15.508	12.777
H	28.527	15.453	12.369
H	27.845	15.681	13.701
O	26.642	8.919	16.155
H	27.111	8.832	15.325
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O	32.886	23.254	20.961
H	33.701	22.752	20.958

H	33.126	24.103	20.589
O	30.396	12.661	26.533
H	29.905	13.14	27.202
H	30.326	13.206	25.749
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H	29.895	26.477	16.832
H	31.257	26.616	16.186
O	22.286	8.889	11.272
H	23.098	9.247	10.913
H	22.562	8.394	12.043
O	34.969	16.574	15.88
H	35.407	15.772	16.167
H	35.513	16.901	15.163
O	26.164	11.202	7.345
H	25.545	10.472	7.333
H	25.8	11.815	7.984
O	32.535	25.399	16.466
H	32.791	25.655	17.352
H	33.049	24.612	16.286
O	27.272	23.704	9.485
H	26.778	24.292	10.057
H	28.073	23.512	9.972
O	33.233	22.995	13.617
H	33.86	22.392	13.218
H	33.294	22.817	14.555
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H	33.956	19.326	11.886
H	33.051	18.7	10.847
O	30.605	17.651	8.116
H	29.808	18.112	7.853
H	30.494	17.497	9.054
O	31.29	15.336	7.075
H	31.237	16.239	7.387
H	30.501	14.916	7.417
O	28.183	20.556	11.69
H	27.261	20.81	11.729
H	28.556	21.113	11.007
O	28.184	19.383	14.719
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H	28.984	19.585	14.233
O	24.872	12.144	9.43
H	24.826	12.666	10.231
H	23.958	11.996	9.188
O	29.221	6.522	10.379
H	28.456	5.947	10.342
H	29.57	6.513	9.487
O	33.971	12.512	11.025

H	34.129	13.342	10.575
H	34.285	11.845	10.414
O	34.115	11.559	24.22
H	33.339	11.165	23.821
H	33.861	11.723	25.128
O	29.064	5.922	23.31
H	29.919	5.734	23.696
H	28.435	5.683	23.992
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H	27.252	5.047	20.773
H	27.56	5.309	22.232
O	27.915	9.266	11.271
H	28.66	9.642	10.801
H	28.008	8.321	11.15
O	29.43	4.772	14.03
H	30.115	5.18	14.559
H	29.462	5.24	13.195
O	34.216	13.143	17.637
H	33.781	13.513	18.405
H	33.591	12.503	17.294
O	31.702	10.129	12.535
H	31.309	9.286	12.76
H	32.645	9.98	12.605
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H	26.952	3.337	15.496
H	27.829	4.556	15.306
O	30.626	7.601	12.479
H	30.147	7.318	11.699
H	31.486	7.19	12.393
O	32.572	8.073	14.925
H	33.368	7.745	15.343
H	31.863	7.787	15.501
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H	32.199	7.545	18.239
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H	25.206	7.892	23.016
H	26.306	8.621	22.275
O	22.716	6.274	26.162
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H	28.616	11.345	16.04
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H	31.196	11.965	11.832
H	32.015	12.84	10.907

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H	29.499	8.672	13.861
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H	30.535	10.834	9.91
O	26.718	26.606	22.365
H	26.922	27.468	22.002
H	25.77	26.522	22.263
O	20.485	24.189	26.946
H	19.824	23.499	26.989
H	20.982	24.095	27.759
O	14.234	29.451	25.8
H	13.729	28.82	25.288
H	13.582	30.076	26.118
O	21.841	25.67	24.919
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H	22.774	25.46	24.871
O	23.943	26.468	22.389
H	23.24	27.114	22.464
H	23.571	25.769	21.852
O	12.238	24.196	24.379
H	12.264	25.01	23.876
H	13.158	23.962	24.504
O	14.585	30.731	16.435
H	15.025	30.964	15.618
H	15.297	30.594	17.06
O	13.619	27.917	18.44
H	14.291	28.521	18.757
H	13.651	27.182	19.051
O	18.176	26.857	16.936
H	17.888	25.989	17.218
H	17.621	27.464	17.426
O	13.129	20.587	24.819
H	14.035	20.781	25.059
H	12.692	21.438	24.822
O	21.06	28.306	25.498
H	20.998	27.406	25.18
H	21.99	28.522	25.427
O	8.368	24.538	22.244
H	8.26	25.485	22.33
H	8.09	24.345	21.349
O	14.801	26.026	20.08
H	15.168	25.155	19.923
H	14.58	26.028	21.011
O	11.605	29.867	17.285
H	11.941	29.176	17.856

H	12.281	29.973	16.615
O	11.77	26.697	27.758
H	12.281	27.238	28.36
H	10.88	27.045	27.821
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	15.518	30.124	19.132
H	15.1	30.613	19.841
H	16.381	29.894	19.476
O	14.1	25.544	16.465
H	14.254	26.406	16.851
H	13.352	25.195	16.95
O	22.678	29.625	16.507
H	23.225	30.276	16.946
H	22.985	28.785	16.848
O	19.204	28.066	13.227
H	19.892	28.232	12.582
H	18.729	28.895	13.289
O	15.718	25.165	8.299
H	16.584	24.811	8.1
H	15.678	25.178	9.255
O	11.17	29.151	21.291
H	12.004	29.4	21.69
H	11.226	28.201	21.193
O	33.37	25.639	19.299
H	32.733	25.983	19.926
H	34.157	26.164	19.446
O	16.267	28.198	26.672
H	16.151	27.332	26.281
H	15.448	28.656	26.485
O	25.075	27.949	24.701
H	25.929	27.518	24.754
H	24.626	27.503	23.984
O	19.353	30.071	21.619
H	18.914	29.509	22.257
H	20.133	30.387	22.075
O	10.628	21.988	23.73
H	11.119	22.808	23.678
H	10.072	21.992	22.95
O	27.111	28.882	20.581
H	26.437	28.446	20.06
H	27.194	29.751	20.189
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H	27.134	26.174	12.152
H	25.937	26.54	11.3
O	26.258	25.458	17.288

H	27.206	25.532	17.392
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O	14.62	29.462	12.835
H	14.506	29.02	13.676
H	15.562	29.427	12.671
O	11.198	28.961	25.719
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H	10.637	29.124	24.961
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H	17.728	27.128	21.207
H	16.63	27.052	20.168
O	16.955	15.331	32.7
H	16.55	15.37	33.566
H	16.453	15.951	32.171
O	21.44	22.08	30.761
H	22.317	22.004	30.384
H	21.373	21.338	31.362
O	12.756	16.479	24.912
H	13.482	16.7	25.496
H	12.671	17.239	24.337
O	16.042	14.118	27.054
H	15.404	14.757	26.737
H	16.134	14.312	27.986
O	4.385	14.355	22.132
H	4.404	14.303	21.176
H	5.022	15.036	22.348
O	16.029	25.333	26.761
H	16.951	25.579	26.679
H	15.939	25.037	27.667
O	11.873	17.622	29.258
H	11.424	17.928	28.469
H	12.778	17.482	28.979
O	23.729	23.294	23.224
H	24.058	24.189	23.134
H	24.062	22.838	22.451
O	19.392	20.508	33.059
H	19.681	19.86	32.416
H	20.188	20.746	33.533
O	21.786	24.636	30.15
H	22.028	23.795	30.538
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O	15.76	9.473	30.393
H	14.834	9.234	30.432
H	15.937	9.596	29.461
O	19.217	23.957	31.127
H	20.148	24.159	31.03
H	19.154	23.022	30.934

O	19.267	10.349	29.028
H	18.369	10.678	28.982
H	19.722	10.973	29.593
O	16.387	20.326	30.157
H	16.358	20.609	31.071
H	17.16	20.758	29.797
O	21.717	19.25	31.351
H	22.221	19.013	30.573
H	21.531	18.414	31.779
O	21.773	16.589	28.207
H	21.965	16.894	27.32
H	22.616	16.28	28.541
O	30.768	14.722	29.267
H	30.961	15.589	28.908
H	31.615	14.279	29.291
O	7.472	18.784	29.415
H	6.896	18.049	29.205
H	7.735	18.631	30.322
O	13.558	25.662	30.212
H	13.476	26.59	30.432
H	13.048	25.56	29.408
O	19.811	22.199	24.228
H	20.647	22.43	24.631
H	19.187	22.198	24.953
O	22.458	17.144	25.325
H	22.54	16.622	24.528
H	23.125	17.825	25.235
O	12.872	12.642	31.282
H	13.08	12.215	32.114
H	12.789	13.569	31.504
O	28.235	15.187	27.246
H	28.641	15.958	27.641
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O	21.999	28.447	22.887
H	21.135	28.619	23.261
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H	11.386	14.863	27.885
H	11.646	15.632	29.162
O	20.122	14.863	32.256
H	19.815	15.711	32.578
H	20.11	14.296	33.026
O	12.206	23.256	31.77
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H	11.757	23.541	30.974
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H	9.487	20.234	29.485

H	10.295	19.828	28.271
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H	22.61	21.852	27.276
H	21.234	21.243	27.112
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H	15.36	24.056	24.159
H	15.232	24.231	25.657
O	17.235	13.891	29.551
H	16.489	13.548	30.042
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O	12.496	18.392	23.093
H	12.583	19.222	23.562
H	12.739	18.6	22.191
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H	12.659	21.659	28.471
H	13.674	21.478	29.579
O	19.58	12.408	31.127
H	19.432	13.285	31.481
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H	9.111	17.051	27.568
H	10.363	16.827	26.747
O	18.347	8.686	25.953
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H	18.068	8.41	26.826
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H	15.707	18.562	33.342
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H	24.497	23.059	27.891
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O	21.843	14.029	29.919
H	21.364	13.201	29.9
H	21.47	14.505	30.661
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H	4.249	12.684	24.918
O	10.883	14.903	26.04
H	10.417	14.692	25.231
H	11.719	15.265	25.746
O	27.401	26.591	25.41
H	27.41	26.62	26.367
H	28.087	27.203	25.145
O	21.655	11.816	28.049

H	22.116	11.342	28.742
H	22.219	11.724	27.281
O	13.533	12.733	28.119
H	14.455	12.946	27.977
H	13.182	13.489	28.589
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H	24.462	14.655	27.153
O	18.692	26.056	26.329
H	19.128	26.796	26.752
H	19.378	25.394	26.239
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H	11.658	13.712	22.744
H	12.698	12.969	23.555
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O	10.014	20.59	26.179
H	9.549	21.152	26.799
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H	19.839	26.01	20.354
O	16.945	12.623	24.602
H	16.984	12.276	23.71
H	17.651	12.172	25.065
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H	22.339	16.502	6.337
H	23.819	16.312	6.088
O	23.37	10.671	13.931
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H	22.878	11.41	13.574
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H	14.889	15.184	14.839
H	15.803	14.127	15.421
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H	17.92	16.542	15.53
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O	14.403	16.848	15.969
H	13.948	17.67	16.154
H	14.21	16.292	16.723
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H	15.971	22.046	29.452
H	16.454	23.468	29.264

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H	9.137	26.834	10.746
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H	24.532	27.278	19.375
H	25.525	26.581	18.47
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H	24.902	12.36	27.139
H	25.715	11.43	28.013
O	18.419	5.694	17.961
H	17.904	5.222	17.306
H	19.284	5.287	17.924
O	25.06	21.993	21.145
H	25.996	22.109	20.98
H	24.83	21.197	20.666
O	29.628	17.598	10.714
H	29.801	18.391	11.222
H	30.054	16.899	11.21
O	17.57	13.249	16.234
H	18.437	13.654	16.246
H	17.195	13.459	17.089
O	15.28	15.817	12.454
H	14.861	15.48	11.662
H	15.297	15.07	13.052
O	21.627	12.663	13.231
H	21.25	12.924	14.071
H	21.47	13.412	12.655
O	17.755	15.73	25.649
H	18.607	15.4	25.932
H	17.126	15.092	25.988
O	18.731	22.555	17.426
H	17.984	22.738	16.856
H	18.404	22.718	18.31
O	16.305	13.653	9.176
H	15.683	13.996	9.818
H	15.787	13.539	8.379
O	14.368	13.467	21.096
H	14.669	14.215	21.613
H	14.139	13.841	20.245
O	22.909	23.677	16.692
H	22.302	24.379	16.929
H	22.394	22.875	16.78
O	22.343	26.264	13.759
H	21.624	26.451	13.154
H	22.138	26.778	14.54
O	28.285	4.477	19.359
H	29.064	4.957	19.64

H	28.469	3.566	19.587
O	8.898	18.427	15.597
H	9.56	19.004	15.215
H	8.079	18.693	15.179
O	11.489	21.897	12.634
H	12.403	21.614	12.659
H	11.531	22.85	12.711
O	21.335	19.709	23.292
H	20.775	20.422	23.599
H	20.725	19.007	23.064
O	19.946	29.885	16.909
H	20.864	29.831	16.642
H	19.97	30.307	17.768
O	13.262	26.321	13.77
H	13.79	27.004	14.183
H	13.563	25.508	14.176
O	25.524	21.135	12.809
H	25.102	20.588	12.146
H	25.298	22.031	12.559
O	27.382	25.171	14.397
H	27.956	24.443	14.635
H	26.543	24.758	14.194
O	19.293	13.239	27.628
H	18.729	13.63	28.295
H	20.128	13.096	28.074
O	11.386	16.902	19.667
H	10.675	17.357	19.216
H	11.773	17.567	20.236
O	14.224	10.457	25.473
H	13.675	10.076	24.788
H	13.607	10.898	26.057
O	27.741	16.05	24.581
H	26.823	16.164	24.335
H	28.205	16.731	24.094
O	15.712	18.646	24.882
H	16.604	18.442	24.598
H	15.821	19.333	25.539
O	18.883	6.511	14.197
H	19.033	5.952	14.959
H	19.752	6.635	13.816
O	24.681	20.073	14.961
H	23.846	20.534	15.05
H	25.116	20.506	14.227
O	18.261	22.005	26.323
H	17.341	22.148	26.101
H	18.241	21.652	27.212
O	15.03	16.584	26.547

H	15.496	17.223	26.006
H	14.873	17.039	27.374
O	19.257	18.968	27.196
H	19.113	18.833	26.259
H	19.164	18.097	27.581
O	13.242	15.061	18.782
H	12.414	14.723	18.441
H	13.003	15.872	19.231
O	18.487	11.278	13.645
H	18.181	11.915	13
H	18.748	11.807	14.399
O	16.854	8.504	19.286
H	17.512	8.476	19.98
H	16.016	8.472	19.748
O	14.272	18.25	13.393
H	14.767	17.467	13.154
H	13.532	18.261	12.786
O	21.4	11.534	24.354
H	22.108	10.945	24.616
H	21.833	12.373	24.195
O	14.464	18.51	28.583
H	13.694	19.017	28.328
H	14.964	19.1	29.147
O	13.277	19.405	15.875
H	13.618	19.224	14.999
H	13.859	20.078	16.225
O	15.771	14.127	18.118
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H	14.88	14.475	18.163
O	14.25	22.462	13.34
H	14.147	22.425	12.389
H	15.019	23.016	13.476
O	16.827	11.302	10.527
H	17.434	11.501	11.239
H	16.743	12.126	10.047
O	14.742	28.238	15.334
H	14.438	28.843	16.011
H	15.695	28.235	15.425
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O	10.755	23.099	29.429
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H	27.119	18.729	24.934
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H	26.475	12.817	6.523
H	25.384	13.533	5.756
O	25.571	16.088	26.879
H	25.369	16.91	26.432
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H	23.627	19.909	10.921
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O	21.065	25.826	17.148
H	21.323	26.57	17.693
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O	19.662	19.241	14.753
H	19.241	19.991	14.332
H	18.958	18.601	14.862
O	25.015	25.077	25.389
H	24.909	25.396	26.285
H	25.954	25.154	25.217
O	15.648	10.447	15.077
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H	16.538	10.456	14.726
O	24.255	22.071	26.165
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H	23.727	22.436	25.455
O	19.663	25.389	12.536
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H	19.449	25.714	11.662
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H	23.517	15.344	22.397
H	22.671	14.602	23.409
O	14.287	21.072	10.769
H	15.146	20.653	10.73
H	14.247	21.611	9.979
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H	9.944	10.403	26.52
H	8.844	9.632	25.823
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H	23.249	16.2	11.189

H	21.924	15.914	11.862
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H	16.628	24.337	15.322
H	15.499	24.337	16.33
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H	21.479	19.292	11.777
H	21.353	20.773	11.491
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H	16.29	20.474	15.55
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O	20.451	13.255	15.701
H	20.65	13.928	16.352
H	20.389	12.444	16.206
O	24.977	13.027	11.868
H	25.252	12.3	12.426
H	24.624	13.676	12.477
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H	18.538	14.559	12.976
H	18.746	14.063	11.561
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H	16.026	15.502	21.388
H	16.832	16.3	20.386
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H	28.235	10.275	20.881
H	27.592	10.945	22.077
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H	25.957	23.193	17.351
H	24.51	22.82	17.113
O	24.968	14.88	21.457
H	25.063	13.947	21.268
H	24.656	15.261	20.636
O	16.794	19.565	10.797
H	16.91	18.774	11.323
H	17.268	20.244	11.278
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H	9.453	18.386	17.282
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H	31.534	22.436	13.618
H	30.729	21.169	13.423
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H	22.255	23.657	20.563
H	21.957	23.253	21.991
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H	12.422	24.893	8.952
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O	15.709	27.732	22.834

H	16.206	28.194	22.158
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O	17.379	29.438	15.92
H	18.303	29.489	16.168
H	17.258	30.157	15.3
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H	15.317	17.042	30.406
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H	24.119	24.109	11.562
H	23.629	23.12	12.597
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H	10.793	17.759	23.344
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H	14.538	23.355	8.338
H	13.169	22.71	8.303
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H	15.033	21.149	17.893
H	15.506	22.088	16.804
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H	18.247	17.413	13.152
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O	16.921	23.022	22.968
H	16.499	23.164	22.121
H	17.771	22.638	22.751
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H	8.277	20.697	23.474
H	8.95	20.037	24.658
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H	17.278	22.145	12.626
H	17.52	20.917	13.477
O	11.65	21.466	19.131
H	12.012	20.691	18.703
H	11.042	21.833	18.489
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H	20.645	12.75	8.341
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H	25.257	16.216	23.076
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H	24.96	19.407	25.555
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O	11.774	9.792	11.863
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H	18.056	25.889	24.288
O	14.927	15.308	22.925
H	14.754	14.585	23.528
H	14.552	16.075	23.358
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H	27.382	17.243	18.426
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O	14.371	13.497	24.665
H	13.969	12.678	24.955
H	15.312	13.331	24.71
O	19.094	11.327	25.729
H	19.08	11.87	26.518
H	19.942	11.511	25.326
O	20.33	2.519	14.449
H	20.702	2.649	13.576
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H	19.196	29.293	24.859
H	17.776	29.344	24.338
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H	19.441	22.302	12.202
H	19.999	23.665	12.552
O	16.52	23.984	12.622
H	16.125	24.529	11.941
H	17.05	24.593	13.138
O	9.36	26.219	24.548
H	9.741	25.846	25.343
H	8.518	25.773	24.454
O	21.31	21.552	17.118
H	20.371	21.738	17.095
H	21.367	20.637	17.392
O	26.912	22.294	24.819
H	27.582	22.928	25.074
H	27.283	21.845	24.059
O	26.128	20.794	8.596
H	25.623	21.575	8.823
H	25.934	20.171	9.297
O	28.098	12.063	12.714
H	28.49	12.491	11.953
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H	19.688	16.2	22.901
H	21.169	16.361	22.63
O	20.219	17.398	9.613
H	21.062	17.358	10.063

H	19.753	16.615	9.906
O	16.815	12.151	21.77
H	15.968	12.574	21.625
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H	23.579	13.548	25.403
H	24.171	13.162	24.065
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H	14.985	10.8	11.841
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H	9.228	10.347	12.883
H	10.196	9.561	12.025
O	27.973	19.014	7.91
H	27.322	19.715	7.966
H	27.618	18.314	8.458
O	8.414	13.815	22.047
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O	27.268	12.771	15.442
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H	27.646	12.406	14.643
O	20.594	10.31	22.154
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H	20.755	10.793	22.965
O	29.545	13.664	8.748
H	28.742	13.678	9.268
H	30.139	13.095	9.239
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H	23.777	6.187	16.863
H	22.995	7.093	17.788
O	19.409	24.33	19.467
H	20.177	23.984	19.922
H	19.523	24.05	18.559
O	7.605	10.179	21.005
H	8.263	10.849	21.186
H	7.961	9.687	20.265
O	15.15	23.322	20.352
H	15.685	22.545	20.191
H	14.359	22.986	20.773
O	22.52	22.091	13.856
H	21.633	22.215	13.52
H	22.443	22.242	14.798
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H	17.829	14.357	22.501
O	15.927	8.033	16.597

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O	28.018	22.874	19.665
H	27.946	21.926	19.553
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H	17.759	26.13	15.27
H	18.137	26.635	13.894
O	18.063	3.425	16.417
H	18.713	3.289	15.728
H	17.221	3.282	15.984
O	18.629	18.047	24.495
H	19.425	17.798	24.027
H	18.252	17.217	24.786
O	23.616	28.7	12.625
H	23.669	27.819	12.996
H	24.246	29.212	13.133
O	19.091	21.702	21.61
H	19.893	21.913	21.132
H	19.386	21.511	22.501
O	23.917	24.227	20.046
H	24.379	23.451	20.363
H	24.368	24.46	19.235
O	21.055	15.483	13.922
H	20.52	14.923	14.484
H	21.497	16.077	14.529
O	24.222	10.565	18.262
H	24.868	9.939	18.589
H	24.551	10.82	17.4
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H	25.844	12.043	22.503
H	24.907	11.062	21.832
O	10.185	19.902	11.363
H	10.681	20.668	11.651
H	9.446	19.854	11.969
O	16.788	7.395	9.922
H	17.393	8.119	9.764
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O	20.387	10.75	11.029
H	20.686	11.237	11.797
H	21.093	10.129	10.849
O	18.426	9.698	9.126
H	19.206	9.307	9.522
H	18.13	10.342	9.769
O	18.182	24.209	8.114
H	18.945	24.632	8.509
H	18.506	23.359	7.818

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H	21.991	14.935	9.404
H	22.481	14.373	8.087
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H	22.736	20.754	8.005
H	22.329	19.952	9.222
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H	8.605	16.558	9.061
H	9.255	17.925	9.078
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H	18.31	14.349	9.407
H	19.813	14.432	9.253
O	19.734	25.768	9.831
H	20.332	25.069	9.568
H	20.129	26.567	9.481
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H	15.753	18.867	9.45
H	15.604	18.066	8.174
O	20.98	18.384	6.461
H	20.751	19.234	6.083
H	21.596	18.593	7.162
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H	24.047	24.343	15.542
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H	26.466	13.368	10.001
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H	27.67	17.362	10.355
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H	12.391	11.692	8.369
H	12.764	13.156	8.461
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H	17.977	19.426	9.475
H	19.214	18.775	8.895
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H	24.664	25.721	9.109
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H	8.631	19.973	9.504
H	9.638	20.488	8.497
O	24.171	22.829	8.747
H	23.279	23.17	8.821
H	24.714	23.479	9.192
O	21.244	23.78	8.287
H	21.294	24.432	7.588
H	20.811	23.028	7.883
O	19.924	21.603	7.612
H	20.045	21.457	6.674
H	19.489	20.809	7.924
O	14.314	14.558	7.198
H	15.157	14.999	7.097
H	13.665	15.252	7.083
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H	17.155	28.842	10.248
O	24.135	9.013	7.504
H	24.017	8.16	7.084
H	24.243	8.81	8.433
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H	21.058	7.108	8.727
H	20.768	7.744	10.07
O	14.962	26.232	10.749
H	15.29	27.119	10.896
H	14.02	26.344	10.621
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H	13.164	19.429	8.749
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O	23.166	10.212	29.633
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H	21.897	9.152	28.549
O	20.104	6.795	25.015

H	20.145	6.764	24.059
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H	22.025	4.211	23.036
H	21.345	5.523	23.363
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H	22.293	7.763	21.724
H	23.441	8.695	22.051
O	19.672	12.13	20.083
H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	25.745	8.456	19.464
H	26.1	7.602	19.219
H	25.767	8.46	20.421
O	14.942	7.964	12.04
H	14.351	7.747	12.761
H	15.77	8.182	12.468
O	25.469	4.58	12.551
H	24.865	4.327	13.25
H	26.339	4.488	12.942
O	12.903	8.209	16.179
H	13.744	7.755	16.229
H	12.679	8.196	15.249
O	20.681	4.849	17.283
H	21.085	3.984	17.214
H	21.419	5.454	17.358
O	14.96	5.607	16.675
H	15.424	5.202	17.408
H	14.977	4.944	15.985
O	24.929	3.111	21.795
H	24.917	2.992	22.745
H	25.167	4.03	21.672
O	24.821	6.199	15.508
H	25.311	5.466	15.136
H	25.487	6.86	15.697
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
O	15.859	5.475	21.218
H	15.249	5.051	20.614
H	15.499	6.353	21.344
O	20.771	5.262	12.215
H	21.477	5.904	12.298
H	21.215	4.414	12.234
O	16.933	4.598	13.488
H	17.476	5.37	13.65
H	16.31	4.881	12.818

O	18.595	4.874	20.615
H	17.733	4.934	21.028
H	18.43	5.061	19.69
O	22.777	7.188	13.749
H	23.243	6.495	14.218
H	22.565	7.833	14.424
O	22.325	8.632	18.507
H	23.08	9.21	18.608
H	21.889	8.655	19.359
O	15.022	8.21	21.62
H	15.405	8.711	22.34
H	14.179	8.633	21.456
O	23.142	5.674	20.23
H	23.876	6.209	20.531
H	23.16	5.756	19.277
O	17.461	8.619	13.175
H	17.91	8.001	13.751
H	17.992	9.414	13.216
O	31.544	8.965	24.418
H	31.384	9.851	24.091
H	32.103	8.562	23.753
O	16.549	9.056	23.942
H	17.251	8.693	24.482
H	16.269	9.842	24.409
O	16.938	5.183	23.867
H	16.594	5.433	23.009
H	16.63	4.286	23.996
O	19.849	6.507	22.403
H	19.182	7.037	21.965
H	19.777	5.645	21.994
O	13.207	10.901	16.462
H	13.966	10.894	15.878
H	12.945	9.983	16.526
O	23.406	10.236	25.781
H	23.432	9.436	26.307
H	24.233	10.677	25.974
O	26.761	5.183	10.151
H	26.488	5.243	11.066
H	26.044	5.582	9.659
O	22.438	2.8	16.266
H	22.092	1.912	16.356
H	23.145	2.849	16.909
O	24.848	9.495	10.383
H	24.994	10.398	10.1
H	25.694	9.213	10.73
O	18.294	8.698	21.634
H	19.002	9.278	21.914

H	17.596	8.848	22.271
O	30.401	5.99	20.707
H	31.337	6.172	20.791
H	30.087	5.927	21.609
O	27.262	11.494	24.43
H	26.724	11.713	25.191
H	27.418	10.553	24.51
O	16.553	11.125	27.716
H	16.055	10.917	26.925
H	16.725	12.064	27.651
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751
O	26.295	5.941	18.23
H	25.431	5.529	18.237
H	26.908	5.213	18.332
O	17.242	11.293	18.992
H	17.164	10.418	18.613
H	16.411	11.72	18.781
O	19.435	3.691	24.066
H	18.86	4.443	24.203
H	20.319	4.041	24.182
O	11.883	15.87	9.605
H	12.188	16.476	10.28
H	11.015	16.195	9.365
O	24.303	15.474	8.769
H	24.325	16.277	8.249
H	25.183	15.403	9.137
O	10.345	24.772	26.483
H	10.794	24.263	25.808
H	11.047	25.231	26.943
O	6.743	23.957	24.422
H	7.142	23.753	25.268
H	7.408	23.714	23.778
O	8.702	28.755	24.255
H	8.471	28.172	23.532
H	8.819	28.173	25.006
O	4.606	20.151	25.387
H	5.257	20.411	26.038
H	4.765	19.218	25.248
O	11.233	24.062	21.261
H	10.486	23.476	21.134
H	11.931	23.493	21.584
O	9.48	27.556	15.717
H	10.067	26.861	15.418
H	9.744	27.719	16.622
O	11.536	26.417	22.465

H	10.698	26.726	22.807
H	11.308	25.667	21.915
O	7.942	27.289	21.811
H	7.106	26.846	21.668
H	7.809	28.17	21.461
O	12.427	28.253	11.606
H	12.447	27.435	12.103
H	13.199	28.734	11.905
O	7.57	23.724	19.557
H	6.861	23.086	19.479
H	7.503	24.255	18.763
O	5.186	26.955	22.474
H	4.794	27.671	21.974
H	5.111	27.232	23.387
O	9.281	21.829	21.265
H	8.698	22.45	20.829
H	9.496	21.187	20.588
O	10.03	27.47	19.351
H	9.481	28.238	19.507
H	9.7	26.811	19.962
O	13.439	29.575	22.515
H	14.23	29.153	22.849
H	13.406	30.417	22.97
O	8.322	22.971	26.654
H	7.712	23.213	27.351
H	8.996	23.651	26.679
O	7.694	13.829	26.977
H	6.99	13.731	26.335
H	8.345	14.375	26.537
O	7.121	15.997	28.933
H	6.785	15.262	28.42
H	6.596	15.99	29.733
O	3.119	18.475	18.734
H	3.746	17.906	18.288
H	2.54	18.786	18.038
O	8.495	8.206	19.487
H	9.292	8.272	18.961
H	8.139	7.343	19.276
O	3.798	21.594	23.096
H	3.677	20.919	22.428
H	4.474	21.241	23.674
O	19.124	16.275	29.635
H	19.402	15.702	30.349
H	19.934	16.501	29.179
O	11.99	9.548	24.076
H	11.727	10.048	23.304
H	11.218	9.557	24.642

O	11.833	10.956	29.762
H	12.33	11.567	30.306
H	11.999	11.243	28.865
O	11.687	17.244	31.975
H	11.846	17.457	31.055
H	10.755	17.029	32.013
O	10.627	16.069	14.79
H	10.043	16.794	15.01
H	11.485	16.478	14.678
O	7.258	25.223	17.33
H	7.475	26.051	17.759
H	6.914	25.48	16.474
O	7.461	13.033	12.694
H	7.663	12.851	11.777
H	7.797	12.273	13.17
O	4.969	14.157	19.343
H	5.51	14.933	19.496
H	5.238	13.844	18.479
O	5.269	16.773	17.728
H	5.056	17.109	16.857
H	5.421	15.838	17.593
O	6.669	17.421	14.285
H	5.782	17.404	14.643
H	7.076	16.619	14.614
O	3.784	19.597	21.196
H	3.605	19.147	20.371
H	3.726	18.91	21.861
O	3.905	17.383	12.472
H	4.436	16.586	12.481
H	4.476	18.055	12.844
O	6.793	20.993	16.992
H	7.708	21.26	17.083
H	6.708	20.232	17.566
O	10.889	20.232	15.06
H	10.994	20.785	14.286
H	11.766	20.18	15.439
O	6.589	20.397	27.023
H	7.251	21.087	27.054
H	6.629	19.987	27.887
O	10.311	13.591	14.341
H	11.167	13.391	13.961
H	10.27	14.547	14.347
O	22.708	27.764	19.976
H	23.029	28.05	20.831
H	21.756	27.738	20.074
O	6.059	26.458	15.133
H	6.193	27.093	14.43

H	5.346	26.826	15.655
O	15.493	21.324	26.146
H	15.28	22.159	25.728
H	15.233	21.441	27.059
O	4.397	14.864	26.829
H	4.099	14.296	26.118
H	3.934	14.542	27.603
O	4.572	17.526	26.449
H	4.46	16.583	26.567
H	3.879	17.918	26.982
O	9.923	11.473	21.452
H	10.413	11.212	20.673
H	10.595	11.737	22.08
O	9.436	21.342	17.242
H	9.867	22.169	17.025
H	9.86	20.696	16.678
O	6.216	20.945	14.084
H	5.983	20.699	14.979
H	6.268	21.9	14.103
O	12.158	18.656	26.6
H	11.225	18.793	26.439
H	12.596	19.249	25.989
O	10.421	24.811	14.196
H	10.087	25.32	13.456
H	11.367	24.955	14.177
O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492
O	4.004	23.979	24.467
H	4.953	24.109	24.476
H	3.884	23.118	24.067
O	16.458	16.79	6.819
H	16.051	17.121	6.019
H	17.349	16.558	6.557
O	8.511	15.399	24.713
H	8.957	16.163	24.349
H	7.882	15.144	24.038
O	8.856	11.454	17.814
H	9.752	11.453	18.151
H	8.62	12.381	17.765
O	11.364	11.877	18.304
H	11.246	12.788	18.033
H	12.181	11.607	17.884
O	11.853	25.183	18.281
H	11.887	24.91	19.198
H	11.671	26.122	18.318
O	5.727	16.408	23.623

H	4.838	16.737	23.752
H	6.176	16.598	24.447
O	5.582	11.634	25.208
H	5.295	11.249	24.379
H	6.379	11.152	25.432
O	8.719	11.419	14.191
H	8.544	10.991	15.029
H	9.495	11.956	14.354
O	6.273	23.876	28.295
H	5.336	24.071	28.309
H	6.473	23.596	29.188
O	6.503	23.859	13.896
H	7.332	23.712	14.352
H	6.243	24.744	14.152
O	13.069	12.808	13.633
H	13.689	12.119	13.395
H	13.468	13.241	14.388
O	6.632	18.898	19.134
H	6.882	18.464	19.949
H	6.162	18.226	18.64
O	4.124	21.273	16.129
H	3.35	21.534	16.628
H	4.86	21.629	16.627
O	10.827	15.006	21.802
H	11.27	15.512	21.121
H	10.502	15.664	22.417
O	11.4	11.911	26.723
H	12.157	12.312	27.149
H	11.041	12.605	26.17
O	3.261	17.644	23.186
H	2.591	17.011	22.925
H	2.892	18.08	23.954
O	8.779	9.041	16.468
H	9.601	8.686	16.807
H	8.641	9.844	16.97
O	11.083	14.387	17.521
H	10.829	15.24	17.873
H	11.042	14.498	16.572
O	5.413	14.961	12.896
H	5.8	14.634	12.084
H	6.119	15.452	13.317
O	13.664	10.862	21.141
H	13.498	10.818	20.199
H	13.795	11.794	21.317
O	8.069	13.676	10.149
H	7.756	14.578	10.086
H	8.456	13.497	9.292

O	10.412	23.596	16.652
H	10.728	24.219	17.306
H	10.385	24.097	15.837
O	7.234	18.164	22.144
H	7.628	18.837	22.698
H	6.779	17.586	22.756
O	5.534	13.837	16.786
H	6.369	13.912	16.323
H	4.893	13.663	16.096
O	9.675	23.694	10.775
H	9.012	23.8	10.092
H	9.783	24.572	11.142
O	5.391	21.911	19.72
H	5.166	21.406	20.501
H	5.839	21.286	19.15
O	12.741	18.302	11.121
H	11.822	18.561	11.053
H	13.228	19.063	10.804
O	5.821	22.106	11.546
H	6.054	21.497	12.247
H	5.888	22.972	11.949
O	2.897	22.367	18.607
H	2.381	22.61	19.376
H	3.805	22.41	18.905
O	8.687	16.129	12.3
H	8.632	16.325	11.364
H	8.437	15.207	12.366
O	10.657	7.817	17.783
H	10.612	6.874	17.626
H	11.563	8.05	17.581
O	4.919	11.137	22.608
H	5.588	10.882	21.972
H	4.279	11.632	22.097
O	14.027	13.954	10.726
H	13.286	14.48	10.426
H	13.64	13.308	11.316
O	6.883	16.082	9.474
H	6.474	16.936	9.614
H	6.708	15.881	8.554

Table S17. PYP chromophore + 574 waters

Method	Time(s)	iterations	E (eV)	f
CIS	1583.5	12	3.66	1.6
TD-BLYP	-	-	-	-
TD-B3LYP*	833.6	3	-0.05	0.0

* residual converged to 0.00003

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	29.914	28.662	20.051
H	28.96	28.597	20.094
H	30.203	28.55	20.956
O	29.182	25.39	22.779
H	29.281	25.376	23.731
H	28.342	25.825	22.632
O	27.666	29.01	16.826
H	26.744	28.833	17.014
H	28.124	28.779	17.634
O	29.551	22.926	11.032
H	30.104	23.7	10.923
H	29.77	22.597	11.904

O	25.88	25.718	28.046
H	25.602	26.061	28.895
H	25.875	24.767	28.158
O	33.894	22.795	16.377
H	34.33	22.95	17.215
H	33.272	22.09	16.558
O	30.112	21.211	18.047
H	30.308	22.125	18.252
H	29.292	21.246	17.554
O	32.027	24.623	10.821
H	32.335	24.527	11.722
H	32.71	24.214	10.289
O	24.075	15.499	29.422
H	24.789	14.887	29.603
H	23.281	15.008	29.631
O	26.423	14.107	29.296
H	26.561	13.165	29.395
H	26.809	14.318	28.445
O	27.383	22.332	28.542
H	28.134	22.88	28.772
H	27.568	21.487	28.951
O	25.825	17.56	30.061
H	25.435	16.932	29.452
H	25.968	17.058	30.863
O	28.391	13.11	22.223
H	29.252	12.971	21.829
H	28.33	12.444	22.907
O	30.871	21.739	29.017
H	31.739	21.702	29.418
H	30.266	21.566	29.739
O	29.874	10.396	28.124
H	29.975	11.045	27.428
H	30.526	9.725	27.923
O	31.475	22.004	26.329
H	31.137	21.63	27.143
H	31.181	21.401	25.647
O	34.454	8.83	23.885
H	34.391	8.547	22.973
H	34.633	9.769	23.833
O	31.852	17.267	28.442
H	32.534	17.817	28.058
H	32.119	17.156	29.355
O	29.307	17.709	27.704
H	30.224	17.766	27.973
H	29.295	18.067	26.817
O	33.709	17.406	9.427
H	34.618	17.29	9.703

H	33.76	17.531	8.48
O	24.938	16.847	11.925
H	24.601	17.235	12.732
H	25.689	16.325	12.206
O	32.469	14.752	21.385
H	33.348	14.759	21.766
H	32.195	13.836	21.431
O	30.816	19.132	13.418
H	30.974	18.346	13.94
H	31.54	19.153	12.792
O	30.284	15.257	11.884
H	31.234	15.279	11.994
H	30.077	14.33	11.768
O	36.186	20.699	18.464
H	36.55	20.393	19.295
H	35.267	20.432	18.492
O	32.263	11.353	17.063
H	32.41	10.514	17.499
H	31.311	11.441	17.027
O	33.28	18.588	15.193
H	33.815	17.822	15.401
H	32.532	18.235	14.713
O	33.563	9.022	21.216
H	34.106	9.499	20.588
H	32.971	8.501	20.675
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601
O	24.721	18.014	7.559
H	23.933	18.514	7.772
H	25.27	18.627	7.07
O	29.689	10.354	19.041
H	30.009	9.628	18.504
H	28.925	10.684	18.568
O	31.465	16.672	14.469
H	32.168	16.029	14.378
H	30.721	16.168	14.799
O	34.923	10.571	19.564
H	35.348	10.322	18.743
H	35.619	10.977	20.08
O	30.751	18.966	19.536
H	30.85	19.768	19.022
H	29.824	18.742	19.454
O	35.482	20.719	24.898
H	35.54	21.194	24.069
H	34.566	20.446	24.954
O	21.624	17.545	15.698

H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	32.002	10.998	22.33
H	32.425	10.517	21.619
H	31.574	11.737	21.899
O	29.855	14.696	24.663
H	29.947	14.331	23.783
H	29.069	15.241	24.615
O	31.889	16.56	19.452
H	32.012	16.092	20.278
H	31.432	17.364	19.699
O	27.763	8.742	24.655
H	27.349	7.971	25.04
H	28.329	8.392	23.967
O	30.544	12.556	20.427
H	30.218	11.819	19.909
H	30.792	13.214	19.777
O	32.612	20.608	17.136
H	31.709	20.388	17.362
H	32.89	19.906	16.547
O	28.345	21.116	22.423
H	29.083	21.585	22.033
H	27.883	20.733	21.678
O	28.626	7.578	18.14
H	29.131	7.399	18.934
H	27.944	6.906	18.134
O	34.025	19.389	20.825
H	33.18	19.249	21.253
H	33.999	18.825	20.053
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934
O	24.407	14.872	14.057
H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85
H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	29.304	15.125	15.496
H	29.712	15.071	16.36
H	28.974	14.241	15.332
O	30.935	23.768	18.813
H	31.045	24.586	19.299
H	31.712	23.253	19.032

O	22.565	11.422	7.263
H	21.77	10.969	6.982
H	23.22	10.729	7.341
O	33.966	14.561	9.506
H	33.515	15.401	9.592
H	34.874	14.796	9.311
O	30.88	7.56	16.768
H	29.99	7.73	17.076
H	30.996	6.616	16.879
O	29.02	27.364	13.686
H	29.65	27.404	14.405
H	28.385	26.702	13.96
O	30.268	23.047	21.979
H	31.187	23.245	21.797
H	29.889	23.888	22.238
O	27.648	21.192	16.796
H	27.35	20.499	16.206
H	26.861	21.705	16.979
O	29.094	23.158	15.712
H	28.684	22.32	15.928
H	29.846	22.923	15.168
O	34.864	20.878	14.109
H	35.24	20.289	13.454
H	34.281	20.321	14.625
O	33.093	26.646	22.107
H	32.438	26.688	22.803
H	33.395	25.738	22.117
O	35.958	10.673	13.915
H	35.175	10.32	13.493
H	35.815	10.525	14.85
O	32.982	14.146	13.03
H	33.495	13.501	12.543
H	33.138	13.931	13.95
O	29.29	12.914	5.866
H	28.755	13.501	5.332
H	29.356	13.355	6.713
O	35.239	24.226	22.752
H	35.057	23.301	22.584
H	35.71	24.522	21.974
O	24.198	19.84	23.687
H	24.475	20.696	23.361
H	23.265	19.795	23.477
O	27.776	19.346	29.523
H	28.367	18.91	28.909
H	27.057	18.725	29.643
O	31.049	20.49	23.466
H	31.305	20.855	22.619

H	30.106	20.348	23.391
O	33.02	19.355	24.959
H	32.359	19.651	24.333
H	32.922	18.403	24.978
O	35.863	19.669	11.703
H	35.851	20.058	10.828
H	36.775	19.412	11.839
O	34.337	17.381	18.699
H	33.413	17.138	18.745
H	34.589	17.193	17.794
O	36.349	14.37	16.428
H	35.776	13.647	16.683
H	36.874	14.547	17.209
O	30.684	26.111	20.225
H	30.14	25.942	20.994
H	30.563	27.043	20.045
O	28.875	25.274	17.405
H	29.024	24.584	16.759
H	28.96	24.832	18.25
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
O	28.503	15.262	30.777
H	29.239	14.89	30.291
H	27.726	14.937	30.321
O	25.055	10.896	15.923
H	24.361	10.877	15.264
H	25.56	10.099	15.762
O	27.663	15.508	12.777
H	28.527	15.453	12.369
H	27.845	15.681	13.701
O	26.642	8.919	16.155
H	27.111	8.832	15.325
H	27.2	8.476	16.794
O	30.043	28.447	22.688
H	30.94	28.47	23.023
H	29.544	28	23.371
O	32.886	23.254	20.961
H	33.701	22.752	20.958
H	33.126	24.103	20.589
O	30.396	12.661	26.533
H	29.905	13.14	27.202
H	30.326	13.206	25.749
O	33.891	19.05	27.854
H	33.348	19.395	27.144
H	34.755	19.431	27.701
O	30.413	27.058	16.275

H	29.895	26.477	16.832
H	31.257	26.616	16.186
O	22.286	8.889	11.272
H	23.098	9.247	10.913
H	22.562	8.394	12.043
O	34.969	16.574	15.88
H	35.407	15.772	16.167
H	35.513	16.901	15.163
O	26.164	11.202	7.345
H	25.545	10.472	7.333
H	25.8	11.815	7.984
O	34.181	9.003	12.582
H	33.626	8.682	13.292
H	34.185	8.293	11.941
O	32.535	25.399	16.466
H	32.791	25.655	17.352
H	33.049	24.612	16.286
O	29.654	20.42	6.361
H	29.741	21.306	6.711
H	29.071	19.975	6.976
O	27.272	23.704	9.485
H	26.778	24.292	10.057
H	28.073	23.512	9.972
O	33.233	22.995	13.617
H	33.86	22.392	13.218
H	33.294	22.817	14.555
O	33.064	19.005	11.754
H	33.956	19.326	11.886
H	33.051	18.7	10.847
O	30.605	17.651	8.116
H	29.808	18.112	7.853
H	30.494	17.497	9.054
O	31.29	15.336	7.075
H	31.237	16.239	7.387
H	30.501	14.916	7.417
O	28.183	20.556	11.69
H	27.261	20.81	11.729
H	28.556	21.113	11.007
O	28.184	19.383	14.719
H	27.476	19.592	14.11
H	28.984	19.585	14.233
O	24.872	12.144	9.43
H	24.826	12.666	10.231
H	23.958	11.996	9.188
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H	28.456	5.947	10.342
H	29.57	6.513	9.487

O	33.971	12.512	11.025
H	34.129	13.342	10.575
H	34.285	11.845	10.414
O	24.271	2.462	24.324
H	24.276	2.433	25.281
H	23.367	2.68	24.096
O	34.115	11.559	24.22
H	33.339	11.165	23.821
H	33.861	11.723	25.128
O	29.064	5.922	23.31
H	29.919	5.734	23.696
H	28.435	5.683	23.992
O	27.828	5.596	25.887
H	28.47	5.873	26.541
H	27.619	4.693	26.125
O	26.832	5.189	21.622
H	27.252	5.047	20.773
H	27.56	5.309	22.232
O	27.915	9.266	11.271
H	28.66	9.642	10.801
H	28.008	8.321	11.15
O	29.43	4.772	14.03
H	30.115	5.18	14.559
H	29.462	5.24	13.195
O	31.206	3.357	19.326
H	31.592	3.95	19.971
H	31.079	2.536	19.801
O	34.216	13.143	17.637
H	33.781	13.513	18.405
H	33.591	12.503	17.294
O	31.702	10.129	12.535
H	31.309	9.286	12.76
H	32.645	9.98	12.605
O	24.574	1.164	20.131
H	23.643	0.949	20.082
H	24.638	1.789	20.853
O	26.913	4.285	15.371
H	26.952	3.337	15.496
H	27.829	4.556	15.306
O	30.626	7.601	12.479
H	30.147	7.318	11.699
H	31.486	7.19	12.393
O	32.572	8.073	14.925
H	33.368	7.745	15.343
H	31.863	7.787	15.501
O	27.036	1.61	16.375
H	27.747	1.122	16.791

H	27.079	1.356	15.453
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H	32.199	7.545	18.239
H	33.388	7.099	19.063
O	25.355	8.517	22.306
H	25.206	7.892	23.016
H	26.306	8.621	22.275
O	22.716	6.274	26.162
H	22.311	6.96	26.692
H	22.078	6.099	25.47
O	29.441	10.867	16.12
H	29.416	10.227	15.408
H	28.616	11.345	16.04
O	31.122	12.532	11.065
H	31.196	11.965	11.832
H	32.015	12.84	10.907
O	28.552	8.795	13.93
H	29.499	8.672	13.861
H	28.268	8.976	13.034
O	29.73	10.361	9.699
H	29.491	10.671	8.826
H	30.535	10.834	9.91
O	30.307	8.048	7.832
H	29.872	7.646	7.079
H	29.927	8.925	7.887
O	9.173	27.776	28.296
H	8.972	27.205	29.038
H	8.339	28.194	28.083
O	26.718	26.606	22.365
H	26.922	27.468	22.002
H	25.77	26.522	22.263
O	12.169	19.132	33.848
H	12.133	18.575	33.07
H	11.785	19.962	33.566
O	20.485	24.189	26.946
H	19.824	23.499	26.989
H	20.982	24.095	27.759
O	13.474	28.382	29.119
H	14.419	28.431	29.264
H	13.146	29.24	29.391
O	20.676	27.261	30.028
H	20.794	26.311	30.033
H	21.132	27.563	30.814
O	17.431	24.711	33.291
H	18.114	24.165	32.902
H	17.703	25.608	33.098
O	14.234	29.451	25.8

H	13.729	28.82	25.288
H	13.582	30.076	26.118
O	21.841	25.67	24.919
H	21.461	24.958	25.433
H	22.774	25.46	24.871
O	23.943	26.468	22.389
H	23.24	27.114	22.464
H	23.571	25.769	21.852
O	12.238	24.196	24.379
H	12.264	25.01	23.876
H	13.158	23.962	24.504
O	14.585	30.731	16.435
H	15.025	30.964	15.618
H	15.297	30.594	17.06
O	13.619	27.917	18.44
H	14.291	28.521	18.757
H	13.651	27.182	19.051
O	18.176	26.857	16.936
H	17.888	25.989	17.218
H	17.621	27.464	17.426
O	24.608	30.968	17.556
H	24.77	31.723	16.991
H	24.687	31.312	18.446
O	13.129	20.587	24.819
H	14.035	20.781	25.059
H	12.692	21.438	24.822
O	23.146	31.118	22.018
H	22.361	31.601	22.276
H	23.577	31.685	21.38
O	21.864	31.131	14.358
H	22.43	31.33	13.612
H	22.398	30.572	14.922
O	21.06	28.306	25.498
H	20.998	27.406	25.18
H	21.99	28.522	25.427
O	8.368	24.538	22.244
H	8.26	25.485	22.33
H	8.09	24.345	21.349
O	14.801	26.026	20.08
H	15.168	25.155	19.923
H	14.58	26.028	21.011
O	11.605	29.867	17.285
H	11.941	29.176	17.856
H	12.281	29.973	16.615
O	11.77	26.697	27.758
H	12.281	27.238	28.36
H	10.88	27.045	27.821

O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	18.218	30.917	13.635
H	19.02	31.44	13.633
H	17.531	31.533	13.89
O	19.683	31.273	19.221
H	20.549	31.558	19.514
H	19.263	30.935	20.012
O	16.147	31.036	24.68
H	15.607	30.323	25.021
H	16.072	31.728	25.337
O	15.518	30.124	19.132
H	15.1	30.613	19.841
H	16.381	29.894	19.476
O	14.1	25.544	16.465
H	14.254	26.406	16.851
H	13.352	25.195	16.95
O	22.678	29.625	16.507
H	23.225	30.276	16.946
H	22.985	28.785	16.848
O	19.204	28.066	13.227
H	19.892	28.232	12.582
H	18.729	28.895	13.289
O	15.718	25.165	8.299
H	16.584	24.811	8.1
H	15.678	25.178	9.255
O	11.17	29.151	21.291
H	12.004	29.4	21.69
H	11.226	28.201	21.193
O	33.37	25.639	19.299
H	32.733	25.983	19.926
H	34.157	26.164	19.446
O	16.267	28.198	26.672
H	16.151	27.332	26.281
H	15.448	28.656	26.485
O	25.075	27.949	24.701
H	25.929	27.518	24.754
H	24.626	27.503	23.984
O	19.353	30.071	21.619
H	18.914	29.509	22.257
H	20.133	30.387	22.075
O	10.628	21.988	23.73
H	11.119	22.808	23.678
H	10.072	21.992	22.95
O	27.111	28.882	20.581
H	26.437	28.446	20.06

H	27.194	29.751	20.189
O	24.864	28.34	27.769
H	24.911	28.056	26.856
H	24.993	27.538	28.276
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H	27.134	26.174	12.152
H	25.937	26.54	11.3
O	26.258	25.458	17.288
H	27.206	25.532	17.392
H	26.119	25.466	16.341
O	14.62	29.462	12.835
H	14.506	29.02	13.676
H	15.562	29.427	12.671
O	11.198	28.961	25.719
H	10.812	28.193	26.141
H	10.637	29.124	24.961
O	17.29	27.644	20.529
H	17.728	27.128	21.207
H	16.63	27.052	20.168
O	20.817	29.522	11.52
H	21.724	29.388	11.794
H	20.821	30.376	11.088
O	20.925	27.96	8.713
H	20.995	28.704	9.311
H	20.462	28.309	7.951
O	16.955	15.331	32.7
H	16.55	15.37	33.566
H	16.453	15.951	32.171
O	21.44	22.08	30.761
H	22.317	22.004	30.384
H	21.373	21.338	31.362
O	12.756	16.479	24.912
H	13.482	16.7	25.496
H	12.671	17.239	24.337
O	16.042	14.118	27.054
H	15.404	14.757	26.737
H	16.134	14.312	27.986
O	4.385	14.355	22.132
H	4.404	14.303	21.176
H	5.022	15.036	22.348
O	16.029	25.333	26.761
H	16.951	25.579	26.679
H	15.939	25.037	27.667
O	11.873	17.622	29.258
H	11.424	17.928	28.469
H	12.778	17.482	28.979
O	23.729	23.294	23.224

H	24.058	24.189	23.134
H	24.062	22.838	22.451
O	19.392	20.508	33.059
H	19.681	19.86	32.416
H	20.188	20.746	33.533
O	33.331	12.525	26.742
H	33.384	13.096	27.509
H	32.414	12.57	26.472
O	14.938	14.961	34.797
H	14.775	14.024	34.687
H	14.259	15.252	35.406
O	10.502	21.215	32.977
H	10.478	21.586	33.858
H	11.075	21.803	32.484
O	21.786	24.636	30.15
H	22.028	23.795	30.538
H	22.583	24.936	29.713
O	15.76	9.473	30.393
H	14.834	9.234	30.432
H	15.937	9.596	29.461
O	19.217	23.957	31.127
H	20.148	24.159	31.03
H	19.154	23.022	30.934
O	19.267	10.349	29.028
H	18.369	10.678	28.982
H	19.722	10.973	29.593
O	16.387	20.326	30.157
H	16.358	20.609	31.071
H	17.16	20.758	29.797
O	21.717	19.25	31.351
H	22.221	19.013	30.573
H	21.531	18.414	31.779
O	21.773	16.589	28.207
H	21.965	16.894	27.32
H	22.616	16.28	28.541
O	30.768	14.722	29.267
H	30.961	15.589	28.908
H	31.615	14.279	29.291
O	19.91	17.365	34.391
H	19.781	16.988	35.261
H	19.934	18.31	34.541
O	7.472	18.784	29.415
H	6.896	18.049	29.205
H	7.735	18.631	30.322
O	13.558	25.662	30.212
H	13.476	26.59	30.432
H	13.048	25.56	29.408

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H	20.647	22.43	24.631
H	19.187	22.198	24.953
O	27.923	8.658	28.649
H	28.431	9.442	28.441
H	28.362	7.955	28.171
O	22.458	17.144	25.325
H	22.54	16.622	24.528
H	23.125	17.825	25.235
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H	13.08	12.215	32.114
H	12.789	13.569	31.504
O	28.235	15.187	27.246
H	28.641	15.958	27.641
H	28.357	15.307	26.304
O	21.999	28.447	22.887
H	21.135	28.619	23.261
H	22.272	29.286	22.517
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H	11.386	14.863	27.885
H	11.646	15.632	29.162
O	20.122	14.863	32.256
H	19.815	15.711	32.578
H	20.11	14.296	33.026
O	12.206	23.256	31.77
H	13.122	23.494	31.626
H	11.757	23.541	30.974
O	10.115	20.572	28.846
H	9.487	20.234	29.485
H	10.295	19.828	28.271
O	21.743	21.82	27.681
H	22.61	21.852	27.276
H	21.234	21.243	27.112
O	14.851	23.762	24.915
H	15.36	24.056	24.159
H	15.232	24.231	25.657
O	17.235	13.891	29.551
H	16.489	13.548	30.042
H	17.465	14.704	30
O	12.496	18.392	23.093
H	12.583	19.222	23.562
H	12.739	18.6	22.191
O	13.511	21.266	28.659
H	12.659	21.659	28.471
H	13.674	21.478	29.579
O	19.58	12.408	31.127
H	19.432	13.285	31.481

H	19.842	11.885	31.885
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H	9.111	17.051	27.568
H	10.363	16.827	26.747
O	18.347	8.686	25.953
H	18.62	9.597	26.065
H	18.068	8.41	26.826
O	15.273	18.259	34.139
H	14.368	18.555	34.047
H	15.707	18.562	33.342
O	25.163	21.625	31.806
H	25.502	21.439	30.93
H	24.998	20.762	32.187
O	24.758	23.037	28.812
H	24.497	23.059	27.891
H	25.629	22.639	28.804
O	31.006	24.973	26.133
H	31.048	25.098	27.081
H	31.194	24.044	26.005
O	21.843	14.029	29.919
H	21.364	13.201	29.9
H	21.47	14.505	30.661
O	3.691	13.415	24.653
H	3.879	13.535	23.722
H	4.249	12.684	24.918
O	10.883	14.903	26.04
H	10.417	14.692	25.231
H	11.719	15.265	25.746
O	27.401	26.591	25.41
H	27.41	26.62	26.367
H	28.087	27.203	25.145
O	21.655	11.816	28.049
H	22.116	11.342	28.742
H	22.219	11.724	27.281
O	9.156	25.736	30.419
H	9.733	25.049	30.755
H	9.06	26.347	31.149
O	13.533	12.733	28.119
H	14.455	12.946	27.977
H	13.182	13.489	28.589
O	23.935	13.857	27.143
H	23.268	14.002	27.814
H	24.462	14.655	27.153
O	18.692	26.056	26.329
H	19.128	26.796	26.752
H	19.378	25.394	26.239
O	11.851	12.855	23.124

H	11.658	13.712	22.744
H	12.698	12.969	23.555
O	15.626	12.123	30.89
H	15.657	11.216	30.585
H	14.766	12.438	30.611
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H	9.549	21.152	26.799
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H	19.373	27.3	19.714
H	19.839	26.01	20.354
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H	16.984	12.276	23.71
H	17.651	12.172	25.065
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H	22.339	16.502	6.337
H	23.819	16.312	6.088
O	23.37	10.671	13.931
H	22.71	9.994	14.082
H	22.878	11.41	13.574
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H	14.889	15.184	14.839
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O	17.468	17.185	14.984
H	17.92	16.542	15.53
H	16.609	17.286	15.394
O	14.403	16.848	15.969
H	13.948	17.67	16.154
H	14.21	16.292	16.723
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H	15.971	22.046	29.452
H	16.454	23.468	29.264
O	9.19	26.368	11.58
H	9.137	26.834	10.746
H	8.366	26.573	12.023
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H	24.532	27.278	19.375
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H	24.902	12.36	27.139
H	25.715	11.43	28.013
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H	24.83	21.197	20.666
O	29.628	17.598	10.714
H	29.801	18.391	11.222
H	30.054	16.899	11.21
O	17.57	13.249	16.234
H	18.437	13.654	16.246
H	17.195	13.459	17.089
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H	14.861	15.48	11.662
H	15.297	15.07	13.052
O	21.627	12.663	13.231
H	21.25	12.924	14.071
H	21.47	13.412	12.655
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H	18.607	15.4	25.932
H	17.126	15.092	25.988
O	18.731	22.555	17.426
H	17.984	22.738	16.856
H	18.404	22.718	18.31
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H	15.683	13.996	9.818
H	15.787	13.539	8.379
O	14.368	13.467	21.096
H	14.669	14.215	21.613
H	14.139	13.841	20.245
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H	22.302	24.379	16.929
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H	21.624	26.451	13.154
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H	17.771	22.638	22.751
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H	17.278	22.145	12.626
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H	19.893	21.913	21.132
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O	8.864	19.929	8.576
H	8.631	19.973	9.504
H	9.638	20.488	8.497
O	24.171	22.829	8.747
H	23.279	23.17	8.821
H	24.714	23.479	9.192
O	21.244	23.78	8.287
H	21.294	24.432	7.588
H	20.811	23.028	7.883
O	14.608	18.205	4.848
H	14.401	17.63	4.112
H	13.755	18.488	5.179
O	19.924	21.603	7.612
H	20.045	21.457	6.674
H	19.489	20.809	7.924
O	14.314	14.558	7.198
H	15.157	14.999	7.097
H	13.665	15.252	7.083
O	17.02	28.357	11.062
H	17.879	28.356	11.485
H	17.155	28.842	10.248
O	12.076	19.619	5.305

H	11.173	19.305	5.315
H	12.279	19.797	6.223
O	24.135	9.013	7.504
H	24.017	8.16	7.084
H	24.243	8.81	8.433
O	20.533	7.791	9.143
H	21.058	7.108	8.727
H	20.768	7.744	10.07
O	14.962	26.232	10.749
H	15.29	27.119	10.896
H	14.02	26.344	10.621
O	23.608	12.845	5.112
H	23.199	12.399	5.853
H	23.459	12.261	4.369
O	12.377	19.602	8.232
H	13.164	19.429	8.749
H	12.059	20.445	8.555
O	23.166	10.212	29.633
H	23.016	10.028	30.561
H	23.982	9.755	29.427
O	21.656	8.536	27.858
H	20.705	8.617	27.786
H	21.897	9.152	28.549
O	20.104	6.795	25.015
H	20.145	6.764	24.059
H	19.476	7.492	25.204
O	21.823	4.798	23.765
H	22.025	4.211	23.036
H	21.345	5.523	23.363
O	19.611	5.653	27.727
H	19.863	6.067	26.902
H	18.656	5.606	27.69
O	16.545	12.364	33.541
H	16.979	13.211	33.433
H	16.058	12.239	32.727
O	22.582	8.671	21.629
H	22.293	7.763	21.724
H	23.441	8.695	22.051
O	19.672	12.13	20.083
H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	25.745	8.456	19.464
H	26.1	7.602	19.219
H	25.767	8.46	20.421
O	14.942	7.964	12.04
H	14.351	7.747	12.761
H	15.77	8.182	12.468

O	25.469	4.58	12.551
H	24.865	4.327	13.25
H	26.339	4.488	12.942
O	12.903	8.209	16.179
H	13.744	7.755	16.229
H	12.679	8.196	15.249
O	20.681	4.849	17.283
H	21.085	3.984	17.214
H	21.419	5.454	17.358
O	14.96	5.607	16.675
H	15.424	5.202	17.408
H	14.977	4.944	15.985
O	24.929	3.111	21.795
H	24.917	2.992	22.745
H	25.167	4.03	21.672
O	24.821	6.199	15.508
H	25.311	5.466	15.136
H	25.487	6.86	15.697
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
O	15.859	5.475	21.218
H	15.249	5.051	20.614
H	15.499	6.353	21.344
O	20.771	5.262	12.215
H	21.477	5.904	12.298
H	21.215	4.414	12.234
O	26.792	11.473	29.652
H	26.509	10.976	30.419
H	27.726	11.276	29.57
O	16.933	4.598	13.488
H	17.476	5.37	13.65
H	16.31	4.881	12.818
O	18.595	4.874	20.615
H	17.733	4.934	21.028
H	18.43	5.061	19.69
O	21.641	5.335	8.322
H	20.956	4.874	7.837
H	21.963	4.69	8.952
O	22.777	7.188	13.749
H	23.243	6.495	14.218
H	22.565	7.833	14.424
O	16.939	5.794	26.44
H	16.577	4.923	26.601
H	17.047	5.837	25.49
O	21.614	1.321	20.076
H	20.826	1.184	19.551

H	21.514	2.205	20.431
O	22.325	8.632	18.507
H	23.08	9.21	18.608
H	21.889	8.655	19.359
O	15.022	8.21	21.62
H	15.405	8.711	22.34
H	14.179	8.633	21.456
O	23.142	5.674	20.23
H	23.876	6.209	20.531
H	23.16	5.756	19.277
O	21.637	2.564	12.113
H	21.388	1.645	12.019
H	21.886	2.836	11.23
O	17.461	8.619	13.175
H	17.91	8.001	13.751
H	17.992	9.414	13.216
O	31.544	8.965	24.418
H	31.384	9.851	24.091
H	32.103	8.562	23.753
O	16.549	9.056	23.942
H	17.251	8.693	24.482
H	16.269	9.842	24.409
O	16.938	5.183	23.867
H	16.594	5.433	23.009
H	16.63	4.286	23.996
O	19.849	6.507	22.403
H	19.182	7.037	21.965
H	19.777	5.645	21.994
O	16.233	7.417	28.481
H	15.46	6.937	28.779
H	16.505	6.962	27.684
O	14.159	3.839	19.885
H	13.926	3.704	18.966
H	13.77	3.094	20.343
O	13.207	10.901	16.462
H	13.966	10.894	15.878
H	12.945	9.983	16.526
O	23.406	10.236	25.781
H	23.432	9.436	26.307
H	24.233	10.677	25.974
O	26.761	5.183	10.151
H	26.488	5.243	11.066
H	26.044	5.582	9.659
O	22.438	2.8	16.266
H	22.092	1.912	16.356
H	23.145	2.849	16.909
O	24.848	9.495	10.383

H	24.994	10.398	10.1
H	25.694	9.213	10.73
O	18.294	8.698	21.634
H	19.002	9.278	21.914
H	17.596	8.848	22.271
O	30.401	5.99	20.707
H	31.337	6.172	20.791
H	30.087	5.927	21.609
O	27.262	11.494	24.43
H	26.724	11.713	25.191
H	27.418	10.553	24.51
O	16.553	11.125	27.716
H	16.055	10.917	26.925
H	16.725	12.064	27.651
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751
O	26.295	5.941	18.23
H	25.431	5.529	18.237
H	26.908	5.213	18.332
O	17.242	11.293	18.992
H	17.164	10.418	18.613
H	16.411	11.72	18.781
O	12.88	6.997	13.606
H	11.954	7.209	13.484
H	12.911	6.041	13.588
O	19.435	3.691	24.066
H	18.86	4.443	24.203
H	20.319	4.041	24.182
O	16.393	10.343	7.185
H	15.564	10.221	7.648
H	17.052	9.971	7.771
O	15.596	3.233	15.249
H	15.054	2.598	14.781
H	15.998	3.76	14.559
O	11.883	15.87	9.605
H	12.188	16.476	10.28
H	11.015	16.195	9.365
O	24.408	5.797	8.197
H	24.597	4.874	8.027
H	23.453	5.857	8.155
O	24.303	15.474	8.769
H	24.325	16.277	8.249
H	25.183	15.403	9.137
O	10.345	24.772	26.483
H	10.794	24.263	25.808
H	11.047	25.231	26.943

O	6.743	23.957	24.422
H	7.142	23.753	25.268
H	7.408	23.714	23.778
O	8.702	28.755	24.255
H	8.471	28.172	23.532
H	8.819	28.173	25.006
O	4.606	20.151	25.387
H	5.257	20.411	26.038
H	4.765	19.218	25.248
O	5.998	26.836	27.348
H	5.629	26.154	27.91
H	6.217	26.383	26.534
O	11.233	24.062	21.261
H	10.486	23.476	21.134
H	11.931	23.493	21.584
O	9.48	27.556	15.717
H	10.067	26.861	15.418
H	9.744	27.719	16.622
O	11.536	26.417	22.465
H	10.698	26.726	22.807
H	11.308	25.667	21.915
O	7.942	27.289	21.811
H	7.106	26.846	21.668
H	7.809	28.17	21.461
O	8.065	29.45	19.317
H	8.059	30.407	19.313
H	7.166	29.204	19.098
O	12.427	28.253	11.606
H	12.447	27.435	12.103
H	13.199	28.734	11.905
O	7.57	23.724	19.557
H	6.861	23.086	19.479
H	7.503	24.255	18.763
O	14.853	24.985	32.463
H	15.796	24.817	32.475
H	14.649	25.137	31.54
O	5.186	26.955	22.474
H	4.794	27.671	21.974
H	5.111	27.232	23.387
O	9.281	21.829	21.265
H	8.698	22.45	20.829
H	9.496	21.187	20.588
O	10.03	27.47	19.351
H	9.481	28.238	19.507
H	9.7	26.811	19.962
O	13.439	29.575	22.515
H	14.23	29.153	22.849

H	13.406	30.417	22.97
O	9.389	9.913	29.44
H	10.315	10.145	29.37
H	8.94	10.751	29.546
O	7.242	22.664	30.659
H	7.301	21.799	31.065
H	7.797	23.222	31.204
O	8.322	22.971	26.654
H	7.712	23.213	27.351
H	8.996	23.651	26.679
O	7.694	13.829	26.977
H	6.99	13.731	26.335
H	8.345	14.375	26.537
O	7.121	15.997	28.933
H	6.785	15.262	28.42
H	6.596	15.99	29.733
O	3.119	18.475	18.734
H	3.746	17.906	18.288
H	2.54	18.786	18.038
O	8.495	8.206	19.487
H	9.292	8.272	18.961
H	8.139	7.343	19.276
O	8.48	19.274	32.209
H	7.707	19.438	32.749
H	9.123	19.915	32.51
O	4.097	19.322	28.952
H	4.788	19.211	28.3
H	4.032	20.269	29.074
O	7.118	8.55	22.881
H	7.965	8.684	23.306
H	7.173	9.058	22.072
O	3.798	21.594	23.096
H	3.677	20.919	22.428
H	4.474	21.241	23.674
O	19.124	16.275	29.635
H	19.402	15.702	30.349
H	19.934	16.501	29.179
O	7.147	9.499	26.21
H	6.598	8.782	25.894
H	7.238	9.336	27.149
O	11.99	9.548	24.076
H	11.727	10.048	23.304
H	11.218	9.557	24.642
O	11.833	10.956	29.762
H	12.33	11.567	30.306
H	11.999	11.243	28.865
O	11.687	17.244	31.975

H	11.846	17.457	31.055
H	10.755	17.029	32.013
O	10.627	16.069	14.79
H	10.043	16.794	15.01
H	11.485	16.478	14.678
O	7.258	25.223	17.33
H	7.475	26.051	17.759
H	6.914	25.48	16.474
O	7.461	13.033	12.694
H	7.663	12.851	11.777
H	7.797	12.273	13.17
O	4.969	14.157	19.343
H	5.51	14.933	19.496
H	5.238	13.844	18.479
O	5.269	16.773	17.728
H	5.056	17.109	16.857
H	5.421	15.838	17.593
O	6.669	17.421	14.285
H	5.782	17.404	14.643
H	7.076	16.619	14.614
O	3.784	19.597	21.196
H	3.605	19.147	20.371
H	3.726	18.91	21.861
O	3.905	17.383	12.472
H	4.436	16.586	12.481
H	4.476	18.055	12.844
O	6.793	20.993	16.992
H	7.708	21.26	17.083
H	6.708	20.232	17.566
O	10.889	20.232	15.06
H	10.994	20.785	14.286
H	11.766	20.18	15.439
O	6.589	20.397	27.023
H	7.251	21.087	27.054
H	6.629	19.987	27.887
O	9.581	23.657	7.735
H	8.647	23.449	7.725
H	9.693	24.292	7.027
O	10.311	13.591	14.341
H	11.167	13.391	13.961
H	10.27	14.547	14.347
O	22.708	27.764	19.976
H	23.029	28.05	20.831
H	21.756	27.738	20.074
O	1.962	21.501	25.597
H	2.79	21.096	25.337
H	1.505	20.818	26.087

O	6.059	26.458	15.133
H	6.193	27.093	14.43
H	5.346	26.826	15.655
O	2.22	19.398	16.242
H	2.93	20.007	16.038
H	1.421	19.898	16.078
O	15.493	21.324	26.146
H	15.28	22.159	25.728
H	15.233	21.441	27.059
O	4.397	14.864	26.829
H	4.099	14.296	26.118
H	3.934	14.542	27.603
O	4.572	17.526	26.449
H	4.46	16.583	26.567
H	3.879	17.918	26.982
O	9.923	11.473	21.452
H	10.413	11.212	20.673
H	10.595	11.737	22.08
O	9.436	21.342	17.242
H	9.867	22.169	17.025
H	9.86	20.696	16.678
O	6.216	20.945	14.084
H	5.983	20.699	14.979
H	6.268	21.9	14.103
O	12.158	18.656	26.6
H	11.225	18.793	26.439
H	12.596	19.249	25.989
O	10.421	24.811	14.196
H	10.087	25.32	13.456
H	11.367	24.955	14.177
O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492
O	4.004	23.979	24.467
H	4.953	24.109	24.476
H	3.884	23.118	24.067
O	16.458	16.79	6.819
H	16.051	17.121	6.019
H	17.349	16.558	6.557
O	8.511	15.399	24.713
H	8.957	16.163	24.349
H	7.882	15.144	24.038
O	8.856	11.454	17.814
H	9.752	11.453	18.151
H	8.62	12.381	17.765
O	11.364	11.877	18.304
H	11.246	12.788	18.033

H	12.181	11.607	17.884
O	2.885	21.121	13.352
H	3.436	21.175	14.133
H	2.753	22.032	13.088
O	11.853	25.183	18.281
H	11.887	24.91	19.198
H	11.671	26.122	18.318
O	5.727	16.408	23.623
H	4.838	16.737	23.752
H	6.176	16.598	24.447
O	5.582	11.634	25.208
H	5.295	11.249	24.379
H	6.379	11.152	25.432
O	8.719	11.419	14.191
H	8.544	10.991	15.029
H	9.495	11.956	14.354
O	6.273	23.876	28.295
H	5.336	24.071	28.309
H	6.473	23.596	29.188
O	6.503	23.859	13.896
H	7.332	23.712	14.352
H	6.243	24.744	14.152
O	13.069	12.808	13.633
H	13.689	12.119	13.395
H	13.468	13.241	14.388
O	6.632	18.898	19.134
H	6.882	18.464	19.949
H	6.162	18.226	18.64
O	4.124	21.273	16.129
H	3.35	21.534	16.628
H	4.86	21.629	16.627
O	10.827	15.006	21.802
H	11.27	15.512	21.121
H	10.502	15.664	22.417
O	11.4	11.911	26.723
H	12.157	12.312	27.149
H	11.041	12.605	26.17
O	3.261	17.644	23.186
H	2.591	17.011	22.925
H	2.892	18.08	23.954
O	8.779	9.041	16.468
H	9.601	8.686	16.807
H	8.641	9.844	16.97
O	11.083	14.387	17.521
H	10.829	15.24	17.873
H	11.042	14.498	16.572
O	5.413	14.961	12.896

H	5.8	14.634	12.084
H	6.119	15.452	13.317
O	13.664	10.862	21.141
H	13.498	10.818	20.199
H	13.795	11.794	21.317
O	8.069	13.676	10.149
H	7.756	14.578	10.086
H	8.456	13.497	9.292
O	10.412	23.596	16.652
H	10.728	24.219	17.306
H	10.385	24.097	15.837
O	7.234	18.164	22.144
H	7.628	18.837	22.698
H	6.779	17.586	22.756
O	3.627	10.43	19.518
H	4.527	10.501	19.2
H	3.137	11.062	18.991
O	5.534	13.837	16.786
H	6.369	13.912	16.323
H	4.893	13.663	16.096
O	3.976	13.497	14.707
H	4.316	14.117	14.062
H	3.096	13.285	14.395
O	9.675	23.694	10.775
H	9.012	23.8	10.092
H	9.783	24.572	11.142
O	5.391	21.911	19.72
H	5.166	21.406	20.501
H	5.839	21.286	19.15
O	12.569	24.472	7.065
H	12.548	24.004	6.23
H	12.711	25.387	6.823
O	12.741	18.302	11.121
H	11.822	18.561	11.053
H	13.228	19.063	10.804
O	5.821	22.106	11.546
H	6.054	21.497	12.247
H	5.888	22.972	11.949
O	5.855	18.556	9.479
H	5.073	18.545	8.927
H	5.735	19.315	10.049
O	2.897	22.367	18.607
H	2.381	22.61	19.376
H	3.805	22.41	18.905
O	2.558	12.333	18.335
H	3.227	13.006	18.461
H	1.729	12.788	18.484

O	8.687	16.129	12.3
H	8.632	16.325	11.364
H	8.437	15.207	12.366
O	10.657	7.817	17.783
H	10.612	6.874	17.626
H	11.563	8.05	17.581
O	4.919	11.137	22.608
H	5.588	10.882	21.972
H	4.279	11.632	22.097
O	14.027	13.954	10.726
H	13.286	14.48	10.426
H	13.64	13.308	11.316
O	4.941	10.54	15.659
H	4.883	10.595	16.613
H	4.572	11.367	15.349
O	6.883	16.082	9.474
H	6.474	16.936	9.614
H	6.708	15.881	8.554

Table S18. PYP chromophore + 683 waters

Method	Time(s)	iterations	E(eV)	f
CIS	2118.2	12	3.65	1.6
TD-BLYP	-	-	-	-
TD-B3LYP	958.0	3	0.57	0.0

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	29.51	28.373	25.52
H	29.611	29.237	25.919
H	30.004	27.785	26.093
O	29.914	28.662	20.051
H	28.96	28.597	20.094
H	30.203	28.55	20.956
O	33.619	26.143	13.581
H	34.206	26.555	14.215
H	33.074	25.557	14.105
O	29.182	25.39	22.779
H	29.281	25.376	23.731
H	28.342	25.825	22.632

O	27.666	29.01	16.826
H	26.744	28.833	17.014
H	28.124	28.779	17.634
O	29.551	22.926	11.032
H	30.104	23.7	10.923
H	29.77	22.597	11.904
O	25.88	25.718	28.046
H	25.602	26.061	28.895
H	25.875	24.767	28.158
O	33.894	22.795	16.377
H	34.33	22.95	17.215
H	33.272	22.09	16.558
O	30.112	21.211	18.047
H	30.308	22.125	18.252
H	29.292	21.246	17.554
O	32.027	24.623	10.821
H	32.335	24.527	11.722
H	32.71	24.214	10.289
O	24.075	15.499	29.422
H	24.789	14.887	29.603
H	23.281	15.008	29.631
O	25.931	16.537	32.89
H	26.584	16.212	33.509
H	25.185	15.946	32.996
O	26.423	14.107	29.296
H	26.561	13.165	29.395
H	26.809	14.318	28.445
O	27.383	22.332	28.542
H	28.134	22.88	28.772
H	27.568	21.487	28.951
O	25.825	17.56	30.061
H	25.435	16.932	29.452
H	25.968	17.058	30.863
O	28.391	13.11	22.223
H	29.252	12.971	21.829
H	28.33	12.444	22.907
O	32.048	27.128	24.603
H	32.977	27.306	24.748
H	31.858	26.375	25.162
O	30.871	21.739	29.017
H	31.739	21.702	29.418
H	30.266	21.566	29.739
O	29.874	10.396	28.124
H	29.975	11.045	27.428
H	30.526	9.725	27.923
O	31.475	22.004	26.329
H	31.137	21.63	27.143

H	31.181	21.401	25.647
O	29.037	17.929	31.606
H	28.779	17.008	31.567
H	28.694	18.308	30.797
O	34.454	8.83	23.885
H	34.391	8.547	22.973
H	34.633	9.769	23.833
O	31.852	17.267	28.442
H	32.534	17.817	28.058
H	32.119	17.156	29.355
O	29.307	17.709	27.704
H	30.224	17.766	27.973
H	29.295	18.067	26.817
O	33.709	17.406	9.427
H	34.618	17.29	9.703
H	33.76	17.531	8.48
O	24.938	16.847	11.925
H	24.601	17.235	12.732
H	25.689	16.325	12.206
O	32.469	14.752	21.385
H	33.348	14.759	21.766
H	32.195	13.836	21.431
O	30.816	19.132	13.418
H	30.974	18.346	13.94
H	31.54	19.153	12.792
O	30.284	15.257	11.884
H	31.234	15.279	11.994
H	30.077	14.33	11.768
O	36.186	20.699	18.464
H	36.55	20.393	19.295
H	35.267	20.432	18.492
O	32.263	11.353	17.063
H	32.41	10.514	17.499
H	31.311	11.441	17.027
O	33.28	18.588	15.193
H	33.815	17.822	15.401
H	32.532	18.235	14.713
O	33.563	9.022	21.216
H	34.106	9.499	20.588
H	32.971	8.501	20.675
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601
O	24.721	18.014	7.559
H	23.933	18.514	7.772
H	25.27	18.627	7.07
O	29.689	10.354	19.041

H	30.009	9.628	18.504
H	28.925	10.684	18.568
O	31.465	16.672	14.469
H	32.168	16.029	14.378
H	30.721	16.168	14.799
O	34.923	10.571	19.564
H	35.348	10.322	18.743
H	35.619	10.977	20.08
O	38.527	15.458	13.427
H	37.971	14.933	14.002
H	38.738	14.874	12.699
O	30.751	18.966	19.536
H	30.85	19.768	19.022
H	29.824	18.742	19.454
O	35.482	20.719	24.898
H	35.54	21.194	24.069
H	34.566	20.446	24.954
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	28.39	27.497	9.419
H	28.841	28.199	9.888
H	28.061	26.921	10.11
O	32.002	10.998	22.33
H	32.425	10.517	21.619
H	31.574	11.737	21.899
O	29.855	14.696	24.663
H	29.947	14.331	23.783
H	29.069	15.241	24.615
O	31.889	16.56	19.452
H	32.012	16.092	20.278
H	31.432	17.364	19.699
O	27.763	8.742	24.655
H	27.349	7.971	25.04
H	28.329	8.392	23.967
O	34.644	10.558	9.453
H	35.402	10.214	8.98
H	33.93	9.961	9.231
O	37.732	9.429	18.503
H	38.216	9.367	19.327
H	38.329	9.07	17.847
O	30.544	12.556	20.427
H	30.218	11.819	19.909
H	30.792	13.214	19.777

O	32.612	20.608	17.136
H	31.709	20.388	17.362
H	32.89	19.906	16.547
O	28.345	21.116	22.423
H	29.083	21.585	22.033
H	27.883	20.733	21.678
O	37.856	19.551	20.509
H	37.953	19.844	21.415
H	38.75	19.529	20.167
O	28.626	7.578	18.14
H	29.131	7.399	18.934
H	27.944	6.906	18.134
O	34.025	19.389	20.825
H	33.18	19.249	21.253
H	33.999	18.825	20.053
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934
O	24.407	14.872	14.057
H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85
H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	29.304	15.125	15.496
H	29.712	15.071	16.36
H	28.974	14.241	15.332
O	30.935	23.768	18.813
H	31.045	24.586	19.299
H	31.712	23.253	19.032
O	22.565	11.422	7.263
H	21.77	10.969	6.982
H	23.22	10.729	7.341
O	33.966	14.561	9.506
H	33.515	15.401	9.592
H	34.874	14.796	9.311
O	30.88	7.56	16.768
H	29.99	7.73	17.076
H	30.996	6.616	16.879
O	29.02	27.364	13.686
H	29.65	27.404	14.405
H	28.385	26.702	13.96
O	33.543	13.762	29.261
H	33.839	14.591	29.636
H	33.78	13.104	29.915
O	30.268	23.047	21.979
H	31.187	23.245	21.797

H	29.889	23.888	22.238
O	27.648	21.192	16.796
H	27.35	20.499	16.206
H	26.861	21.705	16.979
O	29.094	23.158	15.712
H	28.684	22.32	15.928
H	29.846	22.923	15.168
O	34.864	20.878	14.109
H	35.24	20.289	13.454
H	34.281	20.321	14.625
O	33.093	26.646	22.107
H	32.438	26.688	22.803
H	33.395	25.738	22.117
O	35.958	10.673	13.915
H	35.175	10.32	13.493
H	35.815	10.525	14.85
O	32.982	14.146	13.03
H	33.495	13.501	12.543
H	33.138	13.931	13.95
O	29.29	12.914	5.866
H	28.755	13.501	5.332
H	29.356	13.355	6.713
O	27.587	22.533	6.576
H	27.384	22.656	7.503
H	26.773	22.205	6.193
O	35.239	24.226	22.752
H	35.057	23.301	22.584
H	35.71	24.522	21.974
O	35.225	21.368	9.799
H	34.727	22.182	9.874
H	34.904	20.965	8.992
O	24.198	19.84	23.687
H	24.475	20.696	23.361
H	23.265	19.795	23.477
O	27.776	19.346	29.523
H	28.367	18.91	28.909
H	27.057	18.725	29.643
O	31.049	20.49	23.466
H	31.305	20.855	22.619
H	30.106	20.348	23.391
O	36.167	24.994	20.402
H	36.008	24.584	19.552
H	36.629	25.806	20.193
O	33.02	19.355	24.959
H	32.359	19.651	24.333
H	32.922	18.403	24.978
O	35.863	19.669	11.703

H	35.851	20.058	10.828
H	36.775	19.412	11.839
O	34.337	17.381	18.699
H	33.413	17.138	18.745
H	34.589	17.193	17.794
O	37.085	11.712	11.01
H	37.46	11.144	11.684
H	36.145	11.709	11.19
O	23.676	30.073	25.75
H	23.953	29.785	26.619
H	24.338	29.716	25.157
O	36.349	14.37	16.428
H	35.776	13.647	16.683
H	36.874	14.547	17.209
O	30.684	26.111	20.225
H	30.14	25.942	20.994
H	30.563	27.043	20.045
O	28.875	25.274	17.405
H	29.024	24.584	16.759
H	28.96	24.832	18.25
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
O	28.503	15.262	30.777
H	29.239	14.89	30.291
H	27.726	14.937	30.321
O	25.055	10.896	15.923
H	24.361	10.877	15.264
H	25.56	10.099	15.762
O	27.663	15.508	12.777
H	28.527	15.453	12.369
H	27.845	15.681	13.701
O	26.642	8.919	16.155
H	27.111	8.832	15.325
H	27.2	8.476	16.794
O	30.043	28.447	22.688
H	30.94	28.47	23.023
H	29.544	28	23.371
O	32.886	23.254	20.961
H	33.701	22.752	20.958
H	33.126	24.103	20.589
O	30.396	12.661	26.533
H	29.905	13.14	27.202
H	30.326	13.206	25.749
O	33.891	19.05	27.854
H	33.348	19.395	27.144
H	34.755	19.431	27.701

O	30.413	27.058	16.275
H	29.895	26.477	16.832
H	31.257	26.616	16.186
O	22.286	8.889	11.272
H	23.098	9.247	10.913
H	22.562	8.394	12.043
O	34.969	16.574	15.88
H	35.407	15.772	16.167
H	35.513	16.901	15.163
O	26.164	11.202	7.345
H	25.545	10.472	7.333
H	25.8	11.815	7.984
O	34.181	9.003	12.582
H	33.626	8.682	13.292
H	34.185	8.293	11.941
O	32.535	25.399	16.466
H	32.791	25.655	17.352
H	33.049	24.612	16.286
O	29.654	20.42	6.361
H	29.741	21.306	6.711
H	29.071	19.975	6.976
O	27.272	23.704	9.485
H	26.778	24.292	10.057
H	28.073	23.512	9.972
O	33.233	22.995	13.617
H	33.86	22.392	13.218
H	33.294	22.817	14.555
O	33.064	19.005	11.754
H	33.956	19.326	11.886
H	33.051	18.7	10.847
O	30.605	17.651	8.116
H	29.808	18.112	7.853
H	30.494	17.497	9.054
O	33.099	13.381	7.205
H	33.436	13.551	8.085
H	32.489	14.099	7.04
O	31.29	15.336	7.075
H	31.237	16.239	7.387
H	30.501	14.916	7.417
O	28.183	20.556	11.69
H	27.261	20.81	11.729
H	28.556	21.113	11.007
O	28.184	19.383	14.719
H	27.476	19.592	14.11
H	28.984	19.585	14.233
O	24.872	12.144	9.43
H	24.826	12.666	10.231

H	23.958	11.996	9.188
O	29.221	6.522	10.379
H	28.456	5.947	10.342
H	29.57	6.513	9.487
O	33.971	12.512	11.025
H	34.129	13.342	10.575
H	34.285	11.845	10.414
O	24.271	2.462	24.324
H	24.276	2.433	25.281
H	23.367	2.68	24.096
O	33.118	5.384	21.004
H	33.837	5.702	20.458
H	33.437	5.483	21.901
O	34.115	11.559	24.22
H	33.339	11.165	23.821
H	33.861	11.723	25.128
O	29.064	5.922	23.31
H	29.919	5.734	23.696
H	28.435	5.683	23.992
O	27.828	5.596	25.887
H	28.47	5.873	26.541
H	27.619	4.693	26.125
O	26.832	5.189	21.622
H	27.252	5.047	20.773
H	27.56	5.309	22.232
O	27.915	9.266	11.271
H	28.66	9.642	10.801
H	28.008	8.321	11.15
O	29.43	4.772	14.03
H	30.115	5.18	14.559
H	29.462	5.24	13.195
O	31.206	3.357	19.326
H	31.592	3.95	19.971
H	31.079	2.536	19.801
O	34.216	13.143	17.637
H	33.781	13.513	18.405
H	33.591	12.503	17.294
O	31.702	10.129	12.535
H	31.309	9.286	12.76
H	32.645	9.98	12.605
O	24.574	1.164	20.131
H	23.643	0.949	20.082
H	24.638	1.789	20.853
O	26.913	4.285	15.371
H	26.952	3.337	15.496
H	27.829	4.556	15.306
O	33.035	8.455	8.69

H	32.114	8.259	8.861
H	33.169	8.202	7.777
O	24.191	6.078	28.866
H	23.464	5.96	29.478
H	23.769	6.211	28.017
O	34.781	6.16	16.103
H	35.49	6.193	16.745
H	34.378	5.302	16.235
O	30.626	7.601	12.479
H	30.147	7.318	11.699
H	31.486	7.19	12.393
O	32.572	8.073	14.925
H	33.368	7.745	15.343
H	31.863	7.787	15.501
O	27.036	1.61	16.375
H	27.747	1.122	16.791
H	27.079	1.356	15.453
O	29.913	6.883	27.251
H	30.44	6.318	27.816
H	30.516	7.572	26.973
O	32.539	7.536	19.134
H	32.199	7.545	18.239
H	33.388	7.099	19.063
O	32.493	5.52	11.477
H	33.429	5.702	11.563
H	32.308	5.65	10.547
O	25.355	8.517	22.306
H	25.206	7.892	23.016
H	26.306	8.621	22.275
O	31.904	8.888	27.088
H	31.792	8.912	26.138
H	32.853	8.878	27.217
O	22.716	6.274	26.162
H	22.311	6.96	26.692
H	22.078	6.099	25.47
O	35.106	6.298	19.48
H	35.449	5.405	19.525
H	35.801	6.84	19.854
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H	29.416	10.227	15.408
H	28.616	11.345	16.04
O	31.122	12.532	11.065
H	31.196	11.965	11.832
H	32.015	12.84	10.907
O	28.552	8.795	13.93
H	29.499	8.672	13.861
H	28.268	8.976	13.034

O	29.73	10.361	9.699
H	29.491	10.671	8.826
H	30.535	10.834	9.91
O	30.307	8.048	7.832
H	29.872	7.646	7.079
H	29.927	8.925	7.887
O	22.492	8.265	4.963
H	21.699	8.599	5.382
H	22.78	8.978	4.393
O	15.325	23.619	35.24
H	15.641	23.96	34.403
H	15.405	22.669	35.156
O	9.173	27.776	28.296
H	8.972	27.205	29.038
H	8.339	28.194	28.083
O	26.718	26.606	22.365
H	26.922	27.468	22.002
H	25.77	26.522	22.263
O	12.169	19.132	33.848
H	12.133	18.575	33.07
H	11.785	19.962	33.566
O	20.485	24.189	26.946
H	19.824	23.499	26.989
H	20.982	24.095	27.759
O	13.474	28.382	29.119
H	14.419	28.431	29.264
H	13.146	29.24	29.391
O	18.257	28.509	30.224
H	18.347	29.452	30.087
H	19.118	28.152	30.008
O	17.616	30.699	27.489
H	18.476	30.45	27.83
H	17.308	29.921	27.025
O	20.676	27.261	30.028
H	20.794	26.311	30.033
H	21.132	27.563	30.814
O	20.288	30.264	27.478
H	21.034	30.563	27.997
H	20.599	29.467	27.049
O	17.431	24.711	33.291
H	18.114	24.165	32.902
H	17.703	25.608	33.098
O	14.234	29.451	25.8
H	13.729	28.82	25.288
H	13.582	30.076	26.118
O	21.841	25.67	24.919
H	21.461	24.958	25.433

H	22.774	25.46	24.871
O	29.046	24.005	30.607
H	28.918	23.161	31.04
H	28.924	24.652	31.302
O	23.943	26.468	22.389
H	23.24	27.114	22.464
H	23.571	25.769	21.852
O	12.238	24.196	24.379
H	12.264	25.01	23.876
H	13.158	23.962	24.504
O	14.585	30.731	16.435
H	15.025	30.964	15.618
H	15.297	30.594	17.06
O	13.619	27.917	18.44
H	14.291	28.521	18.757
H	13.651	27.182	19.051
O	18.176	26.857	16.936
H	17.888	25.989	17.218
H	17.621	27.464	17.426
O	13.323	32.607	17.845
H	13.569	33.321	17.257
H	13.903	31.886	17.601
O	24.608	30.968	17.556
H	24.77	31.723	16.991
H	24.687	31.312	18.446
O	13.129	20.587	24.819
H	14.035	20.781	25.059
H	12.692	21.438	24.822
O	23.146	31.118	22.018
H	22.361	31.601	22.276
H	23.577	31.685	21.38
O	21.864	31.131	14.358
H	22.43	31.33	13.612
H	22.398	30.572	14.922
O	17.794	32.381	17.737
H	18.417	32.355	18.463
H	17.235	31.616	17.873
O	21.06	28.306	25.498
H	20.998	27.406	25.18
H	21.99	28.522	25.427
O	8.368	24.538	22.244
H	8.26	25.485	22.33
H	8.09	24.345	21.349
O	14.801	26.026	20.08
H	15.168	25.155	19.923
H	14.58	26.028	21.011
O	11.605	29.867	17.285

H	11.941	29.176	17.856
H	12.281	29.973	16.615
O	11.77	26.697	27.758
H	12.281	27.238	28.36
H	10.88	27.045	27.821
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	18.218	30.917	13.635
H	19.02	31.44	13.633
H	17.531	31.533	13.89
O	19.683	31.273	19.221
H	20.549	31.558	19.514
H	19.263	30.935	20.012
O	16.147	31.036	24.68
H	15.607	30.323	25.021
H	16.072	31.728	25.337
O	15.518	30.124	19.132
H	15.1	30.613	19.841
H	16.381	29.894	19.476
O	12.982	31.74	23.971
H	13.642	32.434	23.982
H	12.747	31.618	24.891
O	14.1	25.544	16.465
H	14.254	26.406	16.851
H	13.352	25.195	16.95
O	22.678	29.625	16.507
H	23.225	30.276	16.946
H	22.985	28.785	16.848
O	19.204	28.066	13.227
H	19.892	28.232	12.582
H	18.729	28.895	13.289
O	26.659	25.853	7.926
H	27.319	26.349	8.411
H	26.742	24.958	8.256
O	15.718	25.165	8.299
H	16.584	24.811	8.1
H	15.678	25.178	9.255
O	11.17	29.151	21.291
H	12.004	29.4	21.69
H	11.226	28.201	21.193
O	33.37	25.639	19.299
H	32.733	25.983	19.926
H	34.157	26.164	19.446
O	16.267	28.198	26.672
H	16.151	27.332	26.281
H	15.448	28.656	26.485

O	25.075	27.949	24.701
H	25.929	27.518	24.754
H	24.626	27.503	23.984
O	19.353	30.071	21.619
H	18.914	29.509	22.257
H	20.133	30.387	22.075
O	10.628	21.988	23.73
H	11.119	22.808	23.678
H	10.072	21.992	22.95
O	27.111	28.882	20.581
H	26.437	28.446	20.06
H	27.194	29.751	20.189
O	24.864	28.34	27.769
H	24.911	28.056	26.856
H	24.993	27.538	28.276
O	20.749	31.69	23.145
H	20.137	31.867	23.859
H	20.467	32.272	22.439
O	26.818	26.169	11.249
H	27.134	26.174	12.152
H	25.937	26.54	11.3
O	9.952	29.522	11.572
H	10.733	28.969	11.58
H	10.217	30.318	12.033
O	26.258	25.458	17.288
H	27.206	25.532	17.392
H	26.119	25.466	16.341
O	14.62	29.462	12.835
H	14.506	29.02	13.676
H	15.562	29.427	12.671
O	11.198	28.961	25.719
H	10.812	28.193	26.141
H	10.637	29.124	24.961
O	17.29	27.644	20.529
H	17.728	27.128	21.207
H	16.63	27.052	20.168
O	9.673	27.338	8.737
H	9.208	28.142	8.968
H	9.243	27.033	7.938
O	17.386	22.204	3.892
H	16.485	21.885	3.843
H	17.73	21.825	4.701
O	15.103	31.043	10.626
H	15.695	30.398	10.24
H	15.009	30.766	11.537
O	20.817	29.522	11.52
H	21.724	29.388	11.794

H	20.821	30.376	11.088
O	20.925	27.96	8.713
H	20.995	28.704	9.311
H	20.462	28.309	7.951
O	20.656	25.108	5.925
H	19.745	25.334	6.111
H	20.606	24.507	5.182
O	14.253	26.808	7.076
H	14.676	26.092	7.549
H	14.122	27.488	7.737
O	16.955	15.331	32.7
H	16.55	15.37	33.566
H	16.453	15.951	32.171
O	21.44	22.08	30.761
H	22.317	22.004	30.384
H	21.373	21.338	31.362
O	12.756	16.479	24.912
H	13.482	16.7	25.496
H	12.671	17.239	24.337
O	16.042	14.118	27.054
H	15.404	14.757	26.737
H	16.134	14.312	27.986
O	22.676	17.042	33.605
H	23.063	16.219	33.905
H	21.794	17.042	33.976
O	4.385	14.355	22.132
H	4.404	14.303	21.176
H	5.022	15.036	22.348
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H	16.951	25.579	26.679
H	15.939	25.037	27.667
O	11.873	17.622	29.258
H	11.424	17.928	28.469
H	12.778	17.482	28.979
O	23.729	23.294	23.224
H	24.058	24.189	23.134
H	24.062	22.838	22.451
O	19.392	20.508	33.059
H	19.681	19.86	32.416
H	20.188	20.746	33.533
O	33.331	12.525	26.742
H	33.384	13.096	27.509
H	32.414	12.57	26.472
O	14.938	14.961	34.797
H	14.775	14.024	34.687
H	14.259	15.252	35.406
O	10.502	21.215	32.977

H	10.478	21.586	33.858
H	11.075	21.803	32.484
O	21.786	24.636	30.15
H	22.028	23.795	30.538
H	22.583	24.936	29.713
O	19.4	13.241	34.309
H	19.748	12.462	33.876
H	18.695	12.911	34.866
O	15.76	9.473	30.393
H	14.834	9.234	30.432
H	15.937	9.596	29.461
O	19.217	23.957	31.127
H	20.148	24.159	31.03
H	19.154	23.022	30.934
O	19.267	10.349	29.028
H	18.369	10.678	28.982
H	19.722	10.973	29.593
O	16.387	20.326	30.157
H	16.358	20.609	31.071
H	17.16	20.758	29.797
O	6.095	13.607	30.531
H	5.914	14.046	31.362
H	5.245	13.568	30.091
O	21.717	19.25	31.351
H	22.221	19.013	30.573
H	21.531	18.414	31.779
O	21.773	16.589	28.207
H	21.965	16.894	27.32
H	22.616	16.28	28.541
O	30.768	14.722	29.267
H	30.961	15.589	28.908
H	31.615	14.279	29.291
O	25.178	27.253	30.538
H	26.098	27.493	30.65
H	24.755	28.057	30.237
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H	19.781	16.988	35.261
H	19.934	18.31	34.541
O	7.472	18.784	29.415
H	6.896	18.049	29.205
H	7.735	18.631	30.322
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H	13.476	26.59	30.432
H	13.048	25.56	29.408
O	19.811	22.199	24.228
H	20.647	22.43	24.631
H	19.187	22.198	24.953

O	27.923	8.658	28.649
H	28.431	9.442	28.441
H	28.362	7.955	28.171
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H	22.54	16.622	24.528
H	23.125	17.825	25.235
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H	13.08	12.215	32.114
H	12.789	13.569	31.504
O	28.235	15.187	27.246
H	28.641	15.958	27.641
H	28.357	15.307	26.304
O	21.999	28.447	22.887
H	21.135	28.619	23.261
H	22.272	29.286	22.517
O	11.937	14.865	28.668
H	11.386	14.863	27.885
H	11.646	15.632	29.162
O	20.122	14.863	32.256
H	19.815	15.711	32.578
H	20.11	14.296	33.026
O	12.206	23.256	31.77
H	13.122	23.494	31.626
H	11.757	23.541	30.974
O	10.115	20.572	28.846
H	9.487	20.234	29.485
H	10.295	19.828	28.271
O	21.743	21.82	27.681
H	22.61	21.852	27.276
H	21.234	21.243	27.112
O	14.851	23.762	24.915
H	15.36	24.056	24.159
H	15.232	24.231	25.657
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H	16.489	13.548	30.042
H	17.465	14.704	30
O	12.496	18.392	23.093
H	12.583	19.222	23.562
H	12.739	18.6	22.191
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H	12.659	21.659	28.471
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O	19.58	12.408	31.127
H	19.432	13.285	31.481
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O	9.923	17.477	27.295
H	9.111	17.051	27.568

H	10.363	16.827	26.747
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H	18.068	8.41	26.826
O	15.273	18.259	34.139
H	14.368	18.555	34.047
H	15.707	18.562	33.342
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H	25.502	21.439	30.93
H	24.998	20.762	32.187
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H	24.497	23.059	27.891
H	25.629	22.639	28.804
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H	31.048	25.098	27.081
H	31.194	24.044	26.005
O	21.843	14.029	29.919
H	21.364	13.201	29.9
H	21.47	14.505	30.661
O	24.263	12.291	32.764
H	23.45	11.919	33.108
H	24.274	12.031	31.843
O	3.691	13.415	24.653
H	3.879	13.535	23.722
H	4.249	12.684	24.918
O	10.883	14.903	26.04
H	10.417	14.692	25.231
H	11.719	15.265	25.746
O	27.401	26.591	25.41
H	27.41	26.62	26.367
H	28.087	27.203	25.145
O	21.655	11.816	28.049
H	22.116	11.342	28.742
H	22.219	11.724	27.281
O	9.156	25.736	30.419
H	9.733	25.049	30.755
H	9.06	26.347	31.149
O	13.533	12.733	28.119
H	14.455	12.946	27.977
H	13.182	13.489	28.589
O	17.614	10.009	32.893
H	17.33	10.878	33.18
H	17.164	9.874	32.059
O	23.935	13.857	27.143
H	23.268	14.002	27.814
H	24.462	14.655	27.153
O	18.692	26.056	26.329

H	19.128	26.796	26.752
H	19.378	25.394	26.239
O	11.851	12.855	23.124
H	11.658	13.712	22.744
H	12.698	12.969	23.555
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H	15.657	11.216	30.585
H	14.766	12.438	30.611
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H	15.706	20.102	35.736
H	16.309	21.355	36.335
O	10.014	20.59	26.179
H	9.549	21.152	26.799
H	10.185	21.155	25.426
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H	20.083	16.332	17.326
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H	19.839	26.01	20.354
O	16.945	12.623	24.602
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H	22.339	16.502	6.337
H	23.819	16.312	6.088
O	23.37	10.671	13.931
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H	22.878	11.41	13.574
O	15.044	14.239	14.849
H	14.889	15.184	14.839
H	15.803	14.127	15.421
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H	17.92	16.542	15.53
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O	14.403	16.848	15.969
H	13.948	17.67	16.154
H	14.21	16.292	16.723
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H	15.971	22.046	29.452
H	16.454	23.468	29.264
O	9.19	26.368	11.58
H	9.137	26.834	10.746
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H	25.715	11.43	28.013
O	18.419	5.694	17.961
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H	19.284	5.287	17.924
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H	25.996	22.109	20.98
H	24.83	21.197	20.666
O	29.628	17.598	10.714
H	29.801	18.391	11.222
H	30.054	16.899	11.21
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H	18.437	13.654	16.246
H	17.195	13.459	17.089
O	15.28	15.817	12.454
H	14.861	15.48	11.662
H	15.297	15.07	13.052
O	21.627	12.663	13.231
H	21.25	12.924	14.071
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O	17.755	15.73	25.649
H	18.607	15.4	25.932
H	17.126	15.092	25.988
O	30.373	25.709	28.908
H	30.294	24.934	29.464
H	29.553	26.184	29.04
O	18.731	22.555	17.426
H	17.984	22.738	16.856
H	18.404	22.718	18.31
O	16.305	13.653	9.176
H	15.683	13.996	9.818
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O	14.368	13.467	21.096
H	14.669	14.215	21.613
H	14.139	13.841	20.245
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H	22.302	24.379	16.929
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H	21.624	26.451	13.154
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H	9.56	19.004	15.215

H	8.079	18.693	15.179
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H	12.403	21.614	12.659
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O	21.335	19.709	23.292
H	20.775	20.422	23.599
H	20.725	19.007	23.064
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H	20.864	29.831	16.642
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O	25.524	21.135	12.809
H	25.102	20.588	12.146
H	25.298	22.031	12.559
O	27.382	25.171	14.397
H	27.956	24.443	14.635
H	26.543	24.758	14.194
O	19.293	13.239	27.628
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O	11.386	16.902	19.667
H	10.675	17.357	19.216
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H	10.244	12.381	8.432
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O	27.741	16.05	24.581
H	26.823	16.164	24.335
H	28.205	16.731	24.094
O	15.712	18.646	24.882
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H	15.821	19.333	25.539
O	18.883	6.511	14.197
H	19.033	5.952	14.959
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O	24.681	20.073	14.961
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H	17.341	22.148	26.101
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H	18.181	11.915	13
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H	17.512	8.476	19.98
H	16.016	8.472	19.748
O	14.272	18.25	13.393
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H	22.108	10.945	24.616
H	21.833	12.373	24.195
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H	13.618	19.224	14.999
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H	14.88	14.475	18.163
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H	14.147	22.425	12.389
H	15.019	23.016	13.476
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H	17.434	11.501	11.239
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H	14.438	28.843	16.011
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H	27.119	18.729	24.934
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H	26.475	12.817	6.523
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O	25.571	16.088	26.879
H	25.369	16.91	26.432
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O	24.569	19.77	10.825
H	23.627	19.909	10.921
H	24.689	18.832	10.973
O	21.065	25.826	17.148
H	21.323	26.57	17.693
H	20.241	26.1	16.744
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H	7.2	14.177	14.241
H	8.385	14.873	14.875
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H	19.241	19.991	14.332
H	18.958	18.601	14.862
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H	16.538	10.456	14.726
O	24.255	22.071	26.165
H	25.154	22.104	25.836
H	23.727	22.436	25.455
O	19.663	25.389	12.536
H	19.505	26.136	13.115
H	19.449	25.714	11.662
O	22.74	15.438	22.947
H	23.517	15.344	22.397
H	22.671	14.602	23.409
O	14.287	21.072	10.769
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H	14.247	21.611	9.979
O	9.796	9.679	25.912
H	9.944	10.403	26.52
H	8.844	9.632	25.823
O	22.303	16.254	11.052
H	23.249	16.2	11.189

H	21.924	15.914	11.862
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H	16.628	24.337	15.322
H	15.499	24.337	16.33
O	21.65	19.95	11.103
H	21.479	19.292	11.777
H	21.353	20.773	11.491
O	16.783	20.269	14.756
H	16.29	20.474	15.55
H	16.349	19.496	14.397
O	20.451	13.255	15.701
H	20.65	13.928	16.352
H	20.389	12.444	16.206
O	24.977	13.027	11.868
H	25.252	12.3	12.426
H	24.624	13.676	12.477
O	25.802	21.018	5.058
H	26.396	20.3	4.84
H	25.694	21.497	4.237
O	18.644	13.758	12.463
H	18.538	14.559	12.976
H	18.746	14.063	11.561
O	16.501	15.419	20.562
H	16.026	15.502	21.388
H	16.832	16.3	20.386
O	27.658	10.103	21.625
H	28.235	10.275	20.881
H	27.592	10.945	22.077
O	25.356	22.448	17.363
H	25.957	23.193	17.351
H	24.51	22.82	17.113
O	24.968	14.88	21.457
H	25.063	13.947	21.268
H	24.656	15.261	20.636
O	16.794	19.565	10.797
H	16.91	18.774	11.323
H	17.268	20.244	11.278
O	9.428	18.475	18.235
H	8.496	18.538	18.445
H	9.453	18.386	17.282
O	30.636	22.114	13.548
H	31.534	22.436	13.618
H	30.729	21.169	13.423
O	21.547	23.357	21.133
H	22.255	23.657	20.563
H	21.957	23.253	21.991
O	12.513	25.53	9.66

H	12.422	24.893	8.952
H	11.833	26.181	9.486
O	15.709	27.732	22.834
H	16.206	28.194	22.158
H	16.316	27.07	23.166
O	17.379	29.438	15.92
H	18.303	29.489	16.168
H	17.258	30.157	15.3
O	16.011	17.212	31.043
H	15.317	17.042	30.406
H	16.788	17.379	30.51
O	24.396	23.347	12.071
H	24.119	24.109	11.562
H	23.629	23.12	12.597
O	9.908	17.41	23.452
H	10.793	17.759	23.344
H	9.347	18.185	23.484
O	14.078	22.542	8.549
H	14.538	23.355	8.338
H	13.169	22.71	8.303
O	15.072	21.246	16.941
H	15.033	21.149	17.893
H	15.506	22.088	16.804
O	17.755	17.448	12.332
H	18.247	17.413	13.152
H	16.93	17.005	12.528
O	16.921	23.022	22.968
H	16.499	23.164	22.121
H	17.771	22.638	22.751
O	8.472	19.84	23.852
H	8.277	20.697	23.474
H	8.95	20.037	24.658
O	17.786	21.334	12.658
H	17.278	22.145	12.626
H	17.52	20.917	13.477
O	11.65	21.466	19.131
H	12.012	20.691	18.703
H	11.042	21.833	18.489
O	19.878	12.178	8.33
H	20.645	12.75	8.341
H	19.732	11.955	9.249
O	25.465	16.898	23.713
H	25.257	16.216	23.076
H	24.796	17.568	23.574
O	25.204	18.77	26.226
H	24.96	19.407	25.555
H	24.691	19.022	26.994

O	12.147	6.908	26.549
H	12.898	6.828	25.962
H	11.651	7.651	26.203
O	11.774	9.792	11.863
H	12.611	10.227	12.022
H	11.921	9.271	11.074
O	17.469	25.759	23.544
H	17.553	24.829	23.332
H	18.056	25.889	24.288
O	14.927	15.308	22.925
H	14.754	14.585	23.528
H	14.552	16.075	23.358
O	27.736	17.219	19.315
H	27.382	17.243	18.426
H	27.865	16.288	19.496
O	16.768	12.765	5.92
H	17.458	12.865	6.575
H	16.063	12.31	6.381
O	16.482	30.519	22.119
H	17.414	30.43	21.92
H	16.46	30.887	23.003
O	14.371	13.497	24.665
H	13.969	12.678	24.955
H	15.312	13.331	24.71
O	19.094	11.327	25.729
H	19.08	11.87	26.518
H	19.942	11.511	25.326
O	20.33	2.519	14.449
H	20.702	2.649	13.576
H	21.004	2.843	15.046
O	10.493	14.62	6.71
H	11.024	14.708	7.502
H	10.017	13.799	6.831
O	18.687	29.294	24.049
H	19.196	29.293	24.859
H	17.776	29.344	24.338
O	20.257	22.752	12.421
H	19.441	22.302	12.202
H	19.999	23.665	12.552
O	16.52	23.984	12.622
H	16.125	24.529	11.941
H	17.05	24.593	13.138
O	9.36	26.219	24.548
H	9.741	25.846	25.343
H	8.518	25.773	24.454
O	21.31	21.552	17.118
H	20.371	21.738	17.095

H	21.367	20.637	17.392
O	26.912	22.294	24.819
H	27.582	22.928	25.074
H	27.283	21.845	24.059
O	26.128	20.794	8.596
H	25.623	21.575	8.823
H	25.934	20.171	9.297
O	28.098	12.063	12.714
H	28.49	12.491	11.953
H	27.572	11.353	12.345
O	20.386	16.855	22.874
H	19.688	16.2	22.901
H	21.169	16.361	22.63
O	20.219	17.398	9.613
H	21.062	17.358	10.063
H	19.753	16.615	9.906
O	16.815	12.151	21.77
H	15.968	12.574	21.625
H	17.118	11.915	20.894
O	23.346	13.405	24.485
H	23.579	13.548	25.403
H	24.171	13.162	24.065
O	13.765	10.058	8.48
H	13.369	9.811	7.644
H	13.745	9.255	9.001
O	14.298	10.813	12.508
H	14.985	10.8	11.841
H	14.71	10.432	13.283
O	9.276	9.6	12.286
H	9.228	10.347	12.883
H	10.196	9.561	12.025
O	27.973	19.014	7.91
H	27.322	19.715	7.966
H	27.618	18.314	8.458
O	8.414	13.815	22.047
H	8.693	12.915	21.88
H	9.23	14.309	22.122
O	27.268	12.771	15.442
H	26.34	12.54	15.396
H	27.646	12.406	14.643
O	20.594	10.31	22.154
H	21.357	9.739	22.06
H	20.755	10.793	22.965
O	29.545	13.664	8.748
H	28.742	13.678	9.268
H	30.139	13.095	9.239
O	23.224	6.175	17.644

H	23.777	6.187	16.863
H	22.995	7.093	17.788
O	19.409	24.33	19.467
H	20.177	23.984	19.922
H	19.523	24.05	18.559
O	7.605	10.179	21.005
H	8.263	10.849	21.186
H	7.961	9.687	20.265
O	15.15	23.322	20.352
H	15.685	22.545	20.191
H	14.359	22.986	20.773
O	22.52	22.091	13.856
H	21.633	22.215	13.52
H	22.443	22.242	14.798
O	18.279	15.065	22.961
H	17.794	15.164	23.781
H	17.829	14.357	22.501
O	15.927	8.033	16.597
H	15.802	7.089	16.502
H	16.391	8.13	17.429
O	28.018	22.874	19.665
H	27.946	21.926	19.553
H	28.904	23.008	20.002
O	17.628	25.957	14.337
H	17.759	26.13	15.27
H	18.137	26.635	13.894
O	18.063	3.425	16.417
H	18.713	3.289	15.728
H	17.221	3.282	15.984
O	18.629	18.047	24.495
H	19.425	17.798	24.027
H	18.252	17.217	24.786
O	23.616	28.7	12.625
H	23.669	27.819	12.996
H	24.246	29.212	13.133
O	19.091	21.702	21.61
H	19.893	21.913	21.132
H	19.386	21.511	22.501
O	25.261	30.427	14.657
H	26.169	30.713	14.566
H	25.015	30.69	15.544
O	23.917	24.227	20.046
H	24.379	23.451	20.363
H	24.368	24.46	19.235
O	21.055	15.483	13.922
H	20.52	14.923	14.484
H	21.497	16.077	14.529

O	24.222	10.565	18.262
H	24.868	9.939	18.589
H	24.551	10.82	17.4
O	25.046	11.998	21.977
H	25.844	12.043	22.503
H	24.907	11.062	21.832
O	10.185	19.902	11.363
H	10.681	20.668	11.651
H	9.446	19.854	11.969
O	16.788	7.395	9.922
H	17.393	8.119	9.764
H	16.281	7.668	10.686
O	20.387	10.75	11.029
H	20.686	11.237	11.797
H	21.093	10.129	10.849
O	18.426	9.698	9.126
H	19.206	9.307	9.522
H	18.13	10.342	9.769
O	18.182	24.209	8.114
H	18.945	24.632	8.509
H	18.506	23.359	7.818
O	21.753	14.324	8.707
H	21.991	14.935	9.404
H	22.481	14.373	8.087
O	27.302	31.335	19.424
H	27.752	31.879	20.07
H	27.117	31.93	18.697
O	13.859	28.506	8.94
H	13.25	28.633	9.667
H	14.025	29.389	8.609
O	22.599	19.857	8.309
H	22.736	20.754	8.005
H	22.329	19.952	9.222
O	14.199	6.789	25.103
H	14.274	7.493	24.458
H	15.096	6.639	25.399
O	26.291	30.243	23.073
H	26.462	29.894	22.198
H	25.381	30.539	23.04
O	9.459	16.99	9.082
H	8.605	16.558	9.061
H	9.255	17.925	9.078
O	20.014	14.534	5.595
H	19.448	15.158	6.05
H	20.885	14.929	5.634
O	19.101	14.65	9.853
H	18.31	14.349	9.407

H	19.813	14.432	9.253
O	23.137	21.46	5.15
H	23.075	22.353	4.812
H	24.076	21.311	5.264
O	19.734	25.768	9.831
H	20.332	25.069	9.568
H	20.129	26.567	9.481
O	15.175	18.744	8.697
H	15.753	18.867	9.45
H	15.604	18.066	8.174
O	20.98	18.384	6.461
H	20.751	19.234	6.083
H	21.596	18.593	7.162
O	24.633	24.894	15.023
H	24.047	24.343	15.542
H	24.047	25.426	14.484
O	27.14	14.032	10.141
H	26.858	14.497	10.93
H	26.466	13.368	10.001
O	26.89	17.52	9.823
H	26.255	17.894	10.434
H	27.67	17.362	10.355
O	19.228	16.616	7.143
H	20.039	16.978	6.788
H	19.092	17.09	7.963
O	27.373	16.141	6.634
H	27.004	15.284	6.848
H	27.278	16.65	7.439
O	20.518	9.114	6.35
H	19.891	9.73	5.971
H	20.06	8.737	7.101
O	12.036	12.55	8.6
H	12.391	11.692	8.369
H	12.764	13.156	8.461
O	8.073	19.293	12.916
H	7.339	19.82	13.231
H	7.831	18.392	13.131
O	24.885	14.894	3.349
H	24.562	15.111	4.223
H	24.685	13.964	3.243
O	28.786	10.546	7.084
H	29.066	11.286	6.545
H	27.829	10.58	7.058
O	17.516	20.477	6.169
H	16.589	20.714	6.18
H	17.614	19.86	6.895
O	20.423	20.967	4.975

H	21.356	20.762	4.921
H	20.068	20.697	4.128
O	18.504	19.38	8.678
H	17.977	19.426	9.475
H	19.214	18.775	8.895
O	24.323	25.463	9.965
H	24.664	25.721	9.109
H	23.615	26.083	10.138
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H	8.247	30.226	15.99
H	8.283	28.913	15.237
O	28.416	15.156	4.449
H	27.651	15.38	3.918
H	28.286	15.634	5.269
O	8.864	19.929	8.576
H	8.631	19.973	9.504
H	9.638	20.488	8.497
O	24.171	22.829	8.747
H	23.279	23.17	8.821
H	24.714	23.479	9.192
O	21.244	23.78	8.287
H	21.294	24.432	7.588
H	20.811	23.028	7.883
O	4.91	24.684	9.583
H	5.146	23.81	9.273
H	5.707	25.201	9.471
O	14.608	18.205	4.848
H	14.401	17.63	4.112
H	13.755	18.488	5.179
O	19.924	21.603	7.612
H	20.045	21.457	6.674
H	19.489	20.809	7.924
O	14.314	14.558	7.198
H	15.157	14.999	7.097
H	13.665	15.252	7.083
O	17.02	28.357	11.062
H	17.879	28.356	11.485
H	17.155	28.842	10.248
O	14.979	20.976	3.838
H	14.632	20.89	4.726
H	14.97	20.085	3.49
O	12.076	19.619	5.305
H	11.173	19.305	5.315
H	12.279	19.797	6.223
O	24.135	9.013	7.504
H	24.017	8.16	7.084
H	24.243	8.81	8.433

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H	21.058	7.108	8.727
H	20.768	7.744	10.07
O	14.962	26.232	10.749
H	15.29	27.119	10.896
H	14.02	26.344	10.621
O	23.608	12.845	5.112
H	23.199	12.399	5.853
H	23.459	12.261	4.369
O	12.377	19.602	8.232
H	13.164	19.429	8.749
H	12.059	20.445	8.555
O	18.977	18.775	3.888
H	18.348	18.072	3.726
H	18.599	19.27	4.615
O	25.472	8.397	29.959
H	25.162	7.627	29.481
H	26.374	8.516	29.662
O	22.287	10.099	32.457
H	21.46	10.028	32.934
H	22.923	9.649	33.012
O	23.166	10.212	29.633
H	23.016	10.028	30.561
H	23.982	9.755	29.427
O	21.656	8.536	27.858
H	20.705	8.617	27.786
H	21.897	9.152	28.549
O	20.104	6.795	25.015
H	20.145	6.764	24.059
H	19.476	7.492	25.204
O	21.823	4.798	23.765
H	22.025	4.211	23.036
H	21.345	5.523	23.363
O	19.611	5.653	27.727
H	19.863	6.067	26.902
H	18.656	5.606	27.69
O	16.545	12.364	33.541
H	16.979	13.211	33.433
H	16.058	12.239	32.727
O	22.582	8.671	21.629
H	22.293	7.763	21.724
H	23.441	8.695	22.051
O	19.672	12.13	20.083
H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	25.745	8.456	19.464
H	26.1	7.602	19.219

H	25.767	8.46	20.421
O	14.942	7.964	12.04
H	14.351	7.747	12.761
H	15.77	8.182	12.468
O	25.469	4.58	12.551
H	24.865	4.327	13.25
H	26.339	4.488	12.942
O	12.903	8.209	16.179
H	13.744	7.755	16.229
H	12.679	8.196	15.249
O	21.05	7.892	31.275
H	20.16	8.218	31.137
H	21.543	8.658	31.568
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H	21.085	3.984	17.214
H	21.419	5.454	17.358
O	14.96	5.607	16.675
H	15.424	5.202	17.408
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O	24.929	3.111	21.795
H	24.917	2.992	22.745
H	25.167	4.03	21.672
O	24.821	6.199	15.508
H	25.311	5.466	15.136
H	25.487	6.86	15.697
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
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H	15.249	5.051	20.614
H	15.499	6.353	21.344
O	20.771	5.262	12.215
H	21.477	5.904	12.298
H	21.215	4.414	12.234
O	26.792	11.473	29.652
H	26.509	10.976	30.419
H	27.726	11.276	29.57
O	16.933	4.598	13.488
H	17.476	5.37	13.65
H	16.31	4.881	12.818
O	18.595	4.874	20.615
H	17.733	4.934	21.028
H	18.43	5.061	19.69
O	21.641	5.335	8.322
H	20.956	4.874	7.837
H	21.963	4.69	8.952
O	12.953	7.93	10.109

H	13.588	7.892	10.824
H	12.94	7.042	9.752
O	18.496	3.178	11.406
H	18.224	3.555	12.242
H	18.84	3.92	10.908
O	22.777	7.188	13.749
H	23.243	6.495	14.218
H	22.565	7.833	14.424
O	16.939	5.794	26.44
H	16.577	4.923	26.601
H	17.047	5.837	25.49
O	21.614	1.321	20.076
H	20.826	1.184	19.551
H	21.514	2.205	20.431
O	31.542	4.771	23.447
H	31.094	3.938	23.3
H	32.441	4.613	23.159
O	23.139	3.281	9.665
H	23.681	2.631	9.217
H	23.748	3.748	10.237
O	22.325	8.632	18.507
H	23.08	9.21	18.608
H	21.889	8.655	19.359
O	15.022	8.21	21.62
H	15.405	8.711	22.34
H	14.179	8.633	21.456
O	23.142	5.674	20.23
H	23.876	6.209	20.531
H	23.16	5.756	19.277
O	15.285	3.703	25.366
H	14.592	4.302	25.088
H	14.938	2.831	25.175
O	13.642	6.459	29.19
H	13.072	6.541	28.425
H	13.48	7.256	29.695
O	21.637	2.564	12.113
H	21.388	1.645	12.019
H	21.886	2.836	11.23
O	17.461	8.619	13.175
H	17.91	8.001	13.751
H	17.992	9.414	13.216
O	31.544	8.965	24.418
H	31.384	9.851	24.091
H	32.103	8.562	23.753
O	13.141	8.738	30.71
H	12.558	9.463	30.484
H	12.915	8.522	31.615

O	18.556	4.849	9.203
H	18.646	4.897	8.251
H	18.28	5.729	9.461
O	18.576	7.769	30.056
H	18.811	8.652	29.77
H	17.767	7.572	29.582
O	16.549	9.056	23.942
H	17.251	8.693	24.482
H	16.269	9.842	24.409
O	15.341	4.813	11.239
H	14.9	5.548	10.812
H	16.027	4.555	10.623
O	16.938	5.183	23.867
H	16.594	5.433	23.009
H	16.63	4.286	23.996
O	19.849	6.507	22.403
H	19.182	7.037	21.965
H	19.777	5.645	21.994
O	16.233	7.417	28.481
H	15.46	6.937	28.779
H	16.505	6.962	27.684
O	14.159	3.839	19.885
H	13.926	3.704	18.966
H	13.77	3.094	20.343
O	13.207	10.901	16.462
H	13.966	10.894	15.878
H	12.945	9.983	16.526
O	23.406	10.236	25.781
H	23.432	9.436	26.307
H	24.233	10.677	25.974
O	26.761	5.183	10.151
H	26.488	5.243	11.066
H	26.044	5.582	9.659
O	22.438	2.8	16.266
H	22.092	1.912	16.356
H	23.145	2.849	16.909
O	24.848	9.495	10.383
H	24.994	10.398	10.1
H	25.694	9.213	10.73
O	18.294	8.698	21.634
H	19.002	9.278	21.914
H	17.596	8.848	22.271
O	30.401	5.99	20.707
H	31.337	6.172	20.791
H	30.087	5.927	21.609
O	27.262	11.494	24.43
H	26.724	11.713	25.191

H	27.418	10.553	24.51
O	16.553	11.125	27.716
H	16.055	10.917	26.925
H	16.725	12.064	27.651
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751
O	26.295	5.941	18.23
H	25.431	5.529	18.237
H	26.908	5.213	18.332
O	17.242	11.293	18.992
H	17.164	10.418	18.613
H	16.411	11.72	18.781
O	12.88	6.997	13.606
H	11.954	7.209	13.484
H	12.911	6.041	13.588
O	19.435	3.691	24.066
H	18.86	4.443	24.203
H	20.319	4.041	24.182
O	16.393	10.343	7.185
H	15.564	10.221	7.648
H	17.052	9.971	7.771
O	15.596	3.233	15.249
H	15.054	2.598	14.781
H	15.998	3.76	14.559
O	26.97	8.357	5.414
H	27.478	8.981	4.896
H	26.506	8.898	6.053
O	11.883	15.87	9.605
H	12.188	16.476	10.28
H	11.015	16.195	9.365
O	24.408	5.797	8.197
H	24.597	4.874	8.027
H	23.453	5.857	8.155
O	10.105	6.966	13.376
H	9.583	7.713	13.084
H	9.494	6.429	13.881
O	28.455	2.576	12.437
H	29.256	2.052	12.414
H	28.719	3.397	12.852
O	13.611	12.388	5.838
H	13.832	13.156	6.364
H	12.667	12.28	5.957
O	24.303	15.474	8.769
H	24.325	16.277	8.249
H	25.183	15.403	9.137
O	10.345	24.772	26.483

H	10.794	24.263	25.808
H	11.047	25.231	26.943
O	6.743	23.957	24.422
H	7.142	23.753	25.268
H	7.408	23.714	23.778
O	8.702	28.755	24.255
H	8.471	28.172	23.532
H	8.819	28.173	25.006
O	4.606	20.151	25.387
H	5.257	20.411	26.038
H	4.765	19.218	25.248
O	5.998	26.836	27.348
H	5.629	26.154	27.91
H	6.217	26.383	26.534
O	10.602	31.505	19.793
H	10.867	30.812	20.398
H	11.19	31.406	19.044
O	3.632	28.521	20.494
H	3.004	29.238	20.584
H	4.204	28.792	19.776
O	15.725	32.069	14.477
H	15.909	32.881	14.949
H	14.993	32.287	13.9
O	11.233	24.062	21.261
H	10.486	23.476	21.134
H	11.931	23.493	21.584
O	9.48	27.556	15.717
H	10.067	26.861	15.418
H	9.744	27.719	16.622
O	11.536	26.417	22.465
H	10.698	26.726	22.807
H	11.308	25.667	21.915
O	7.942	27.289	21.811
H	7.106	26.846	21.668
H	7.809	28.17	21.461
O	8.065	29.45	19.317
H	8.059	30.407	19.313
H	7.166	29.204	19.098
O	12.427	28.253	11.606
H	12.447	27.435	12.103
H	13.199	28.734	11.905
O	7.57	23.724	19.557
H	6.861	23.086	19.479
H	7.503	24.255	18.763
O	5.349	29.145	18.434
H	5.198	28.382	17.877
H	4.992	29.88	17.937

O	2.42	25.93	22.193
H	3.271	26.149	21.814
H	2.52	26.11	23.128
O	14.853	24.985	32.463
H	15.796	24.817	32.475
H	14.649	25.137	31.54
O	5.186	26.955	22.474
H	4.794	27.671	21.974
H	5.111	27.232	23.387
O	9.217	30.922	16.985
H	10.12	30.695	16.763
H	9.07	30.515	17.839
O	9.281	21.829	21.265
H	8.698	22.45	20.829
H	9.496	21.187	20.588
O	10.03	27.47	19.351
H	9.481	28.238	19.507
H	9.7	26.811	19.962
O	13.439	29.575	22.515
H	14.23	29.153	22.849
H	13.406	30.417	22.97
O	5.894	28.09	12.91
H	6.124	28.955	13.251
H	5.904	28.198	11.959
O	4.404	21.97	30.287
H	5.338	22.164	30.361
H	3.989	22.826	30.181
O	9.389	9.913	29.44
H	10.315	10.145	29.37
H	8.94	10.751	29.546
O	6.125	16.796	31.663
H	6.387	16.525	32.543
H	5.205	17.044	31.753
O	7.242	22.664	30.659
H	7.301	21.799	31.065
H	7.797	23.222	31.204
O	8.322	22.971	26.654
H	7.712	23.213	27.351
H	8.996	23.651	26.679
O	7.694	13.829	26.977
H	6.99	13.731	26.335
H	8.345	14.375	26.537
O	7.121	15.997	28.933
H	6.785	15.262	28.42
H	6.596	15.99	29.733
O	3.119	18.475	18.734
H	3.746	17.906	18.288

H	2.54	18.786	18.038
O	8.495	8.206	19.487
H	9.292	8.272	18.961
H	8.139	7.343	19.276
O	8.48	19.274	32.209
H	7.707	19.438	32.749
H	9.123	19.915	32.51
O	4.097	19.322	28.952
H	4.788	19.211	28.3
H	4.032	20.269	29.074
O	7.118	8.55	22.881
H	7.965	8.684	23.306
H	7.173	9.058	22.072
O	3.798	21.594	23.096
H	3.677	20.919	22.428
H	4.474	21.241	23.674
O	1.708	18.856	27.048
H	1.092	18.274	27.495
H	2.199	19.273	27.756
O	19.124	16.275	29.635
H	19.402	15.702	30.349
H	19.934	16.501	29.179
O	7.147	9.499	26.21
H	6.598	8.782	25.894
H	7.238	9.336	27.149
O	0.543	16.788	22.555
H	0.179	17.376	23.216
H	-0.1	16.798	21.845
O	11.99	9.548	24.076
H	11.727	10.048	23.304
H	11.218	9.557	24.642
O	12.544	23.066	34.472
H	12.227	23.41	33.637
H	13.492	23.2	34.442
O	11.833	10.956	29.762
H	12.33	11.567	30.306
H	11.999	11.243	28.865
O	11.687	17.244	31.975
H	11.846	17.457	31.055
H	10.755	17.029	32.013
O	0.501	21.367	16.215
H	-0.249	21.63	15.683
H	0.118	21.07	17.04
O	10.627	16.069	14.79
H	10.043	16.794	15.01
H	11.485	16.478	14.678
O	7.258	25.223	17.33

H	7.475	26.051	17.759
H	6.914	25.48	16.474
O	3.771	27.314	16.874
H	3.12	27.873	16.45
H	3.268	26.572	17.21
O	7.461	13.033	12.694
H	7.663	12.851	11.777
H	7.797	12.273	13.17
O	4.969	14.157	19.343
H	5.51	14.933	19.496
H	5.238	13.844	18.479
O	5.269	16.773	17.728
H	5.056	17.109	16.857
H	5.421	15.838	17.593
O	6.669	17.421	14.285
H	5.782	17.404	14.643
H	7.076	16.619	14.614
O	3.784	19.597	21.196
H	3.605	19.147	20.371
H	3.726	18.91	21.861
O	3.905	17.383	12.472
H	4.436	16.586	12.481
H	4.476	18.055	12.844
O	6.793	20.993	16.992
H	7.708	21.26	17.083
H	6.708	20.232	17.566
O	10.889	20.232	15.06
H	10.994	20.785	14.286
H	11.766	20.18	15.439
O	6.589	20.397	27.023
H	7.251	21.087	27.054
H	6.629	19.987	27.887
O	9.581	23.657	7.735
H	8.647	23.449	7.725
H	9.693	24.292	7.027
O	10.311	13.591	14.341
H	11.167	13.391	13.961
H	10.27	14.547	14.347
O	22.708	27.764	19.976
H	23.029	28.05	20.831
H	21.756	27.738	20.074
O	-0.206	17.112	19.964
H	-0.972	17.412	19.474
H	0.313	17.904	20.105
O	1.962	21.501	25.597
H	2.79	21.096	25.337
H	1.505	20.818	26.087

O	6.059	26.458	15.133
H	6.193	27.093	14.43
H	5.346	26.826	15.655
O	2.22	19.398	16.242
H	2.93	20.007	16.038
H	1.421	19.898	16.078
O	15.493	21.324	26.146
H	15.28	22.159	25.728
H	15.233	21.441	27.059
O	4.397	14.864	26.829
H	4.099	14.296	26.118
H	3.934	14.542	27.603
O	1.231	14.122	21.62
H	2.085	14.173	22.051
H	0.684	14.746	22.097
O	4.572	17.526	26.449
H	4.46	16.583	26.567
H	3.879	17.918	26.982
O	0.663	14.711	19.07
H	1.194	14.411	19.808
H	0.299	15.546	19.362
O	9.923	11.473	21.452
H	10.413	11.212	20.673
H	10.595	11.737	22.08
O	9.436	21.342	17.242
H	9.867	22.169	17.025
H	9.86	20.696	16.678
O	0.21	18.485	24.775
H	-0.489	19.116	24.947
H	0.771	18.534	25.549
O	0.843	21.235	22.914
H	1.288	21.945	22.451
H	1.186	21.28	23.806
O	6.216	20.945	14.084
H	5.983	20.699	14.979
H	6.268	21.9	14.103
O	12.158	18.656	26.6
H	11.225	18.793	26.439
H	12.596	19.249	25.989
O	10.421	24.811	14.196
H	10.087	25.32	13.456
H	11.367	24.955	14.177
O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492
O	4.004	23.979	24.467
H	4.953	24.109	24.476

H	3.884	23.118	24.067
O	16.458	16.79	6.819
H	16.051	17.121	6.019
H	17.349	16.558	6.557
O	8.511	15.399	24.713
H	8.957	16.163	24.349
H	7.882	15.144	24.038
O	8.856	11.454	17.814
H	9.752	11.453	18.151
H	8.62	12.381	17.765
O	11.364	11.877	18.304
H	11.246	12.788	18.033
H	12.181	11.607	17.884
O	2.885	21.121	13.352
H	3.436	21.175	14.133
H	2.753	22.032	13.088
O	11.853	25.183	18.281
H	11.887	24.91	19.198
H	11.671	26.122	18.318
O	6.652	23.165	7.563
H	5.94	23.625	7.117
H	6.424	22.239	7.486
O	6.307	20.313	6.796
H	5.732	20.347	7.561
H	7.167	20.091	7.153
O	5.727	16.408	23.623
H	4.838	16.737	23.752
H	6.176	16.598	24.447
O	5.582	11.634	25.208
H	5.295	11.249	24.379
H	6.379	11.152	25.432
O	8.719	11.419	14.191
H	8.544	10.991	15.029
H	9.495	11.956	14.354
O	6.273	23.876	28.295
H	5.336	24.071	28.309
H	6.473	23.596	29.188
O	7.502	15.379	6.721
H	7.356	16.087	6.093
H	8.428	15.158	6.621
O	6.503	23.859	13.896
H	7.332	23.712	14.352
H	6.243	24.744	14.152
O	13.069	12.808	13.633
H	13.689	12.119	13.395
H	13.468	13.241	14.388
O	6.632	18.898	19.134

H	6.882	18.464	19.949
H	6.162	18.226	18.64
O	4.124	21.273	16.129
H	3.35	21.534	16.628
H	4.86	21.629	16.627
O	10.827	15.006	21.802
H	11.27	15.512	21.121
H	10.502	15.664	22.417
O	11.4	11.911	26.723
H	12.157	12.312	27.149
H	11.041	12.605	26.17
O	3.261	17.644	23.186
H	2.591	17.011	22.925
H	2.892	18.08	23.954
O	8.779	9.041	16.468
H	9.601	8.686	16.807
H	8.641	9.844	16.97
O	11.083	14.387	17.521
H	10.829	15.24	17.873
H	11.042	14.498	16.572
O	5.413	14.961	12.896
H	5.8	14.634	12.084
H	6.119	15.452	13.317
O	13.664	10.862	21.141
H	13.498	10.818	20.199
H	13.795	11.794	21.317
O	8.069	13.676	10.149
H	7.756	14.578	10.086
H	8.456	13.497	9.292
O	10.412	23.596	16.652
H	10.728	24.219	17.306
H	10.385	24.097	15.837
O	7.234	18.164	22.144
H	7.628	18.837	22.698
H	6.779	17.586	22.756
O	3.627	10.43	19.518
H	4.527	10.501	19.2
H	3.137	11.062	18.991
O	2.237	25.187	17.955
H	2.404	24.257	18.109
H	1.633	25.202	17.212
O	5.534	13.837	16.786
H	6.369	13.912	16.323
H	4.893	13.663	16.096
O	3.976	13.497	14.707
H	4.316	14.117	14.062
H	3.096	13.285	14.395

O	9.675	23.694	10.775
H	9.012	23.8	10.092
H	9.783	24.572	11.142
O	5.391	21.911	19.72
H	5.166	21.406	20.501
H	5.839	21.286	19.15
O	12.569	24.472	7.065
H	12.548	24.004	6.23
H	12.711	25.387	6.823
O	14.777	24.405	4.634
H	14.044	25.004	4.5
H	14.368	23.581	4.9
O	12.741	18.302	11.121
H	11.822	18.561	11.053
H	13.228	19.063	10.804
O	1.5	18.804	12.493
H	2.136	18.091	12.448
H	2.028	19.587	12.65
O	5.821	22.106	11.546
H	6.054	21.497	12.247
H	5.888	22.972	11.949
O	5.855	18.556	9.479
H	5.073	18.545	8.927
H	5.735	19.315	10.049
O	2.897	22.367	18.607
H	2.381	22.61	19.376
H	3.805	22.41	18.905
O	9.658	11.537	32.303
H	9.931	12.423	32.541
H	10.377	11.199	31.77
O	12.931	3.273	17.436
H	12.703	3.692	16.607
H	12.125	3.307	17.951
O	2.558	12.333	18.335
H	3.227	13.006	18.461
H	1.729	12.788	18.484
O	4.807	11.141	12.472
H	5.275	11.949	12.681
H	5.358	10.445	12.831
O	6.717	9.08	11.526
H	7.552	9.269	11.955
H	6.757	9.563	10.701
O	8.687	16.129	12.3
H	8.632	16.325	11.364
H	8.437	15.207	12.366
O	10.657	7.817	17.783
H	10.612	6.874	17.626

H	11.563	8.05	17.581
O	4.919	11.137	22.608
H	5.588	10.882	21.972
H	4.279	11.632	22.097
O	14.027	13.954	10.726
H	13.286	14.48	10.426
H	13.64	13.308	11.316
O	4.941	10.54	15.659
H	4.883	10.595	16.613
H	4.572	11.367	15.349
O	6.883	16.082	9.474
H	6.474	16.936	9.614
H	6.708	15.881	8.554
O	6.333	11.028	9.802
H	5.588	11.333	9.284
H	6.387	11.646	10.53

Table S19. PYP chromophore + 790 waters

Method	Time(s)	iterations	E(eV)	f
CIS	4504.1	12	3.65	1.6
TD-BLYP	-	-	-	-
TD-B3LYP*	1113.7	2	0.80	0.0

*residual norm converged to only 0.0006

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	29.51	28.373	25.52
H	29.611	29.237	25.919
H	30.004	27.785	26.093
O	29.914	28.662	20.051
H	28.96	28.597	20.094
H	30.203	28.55	20.956
O	28.022	19.477	33.619
H	28.041	19.045	32.765
H	27.758	18.789	34.229
O	24.698	32.706	19.971
H	25.394	32.886	19.339

H	24.901	33.269	20.718
O	33.619	26.143	13.581
H	34.206	26.555	14.215
H	33.074	25.557	14.105
O	37.086	24.833	16.188
H	36.76	24.222	15.527
H	36.637	25.656	15.995
O	35.36	27.523	15.628
H	34.791	27.638	16.389
H	35.762	28.383	15.497
O	35.282	28.206	21.415
H	34.436	27.915	21.756
H	35.828	27.42	21.425
O	29.182	25.39	22.779
H	29.281	25.376	23.731
H	28.342	25.825	22.632
O	27.666	29.01	16.826
H	26.744	28.833	17.014
H	28.124	28.779	17.634
O	29.551	22.926	11.032
H	30.104	23.7	10.923
H	29.77	22.597	11.904
O	25.88	25.718	28.046
H	25.602	26.061	28.895
H	25.875	24.767	28.158
O	33.894	22.795	16.377
H	34.33	22.95	17.215
H	33.272	22.09	16.558
O	30.112	21.211	18.047
H	30.308	22.125	18.252
H	29.292	21.246	17.554
O	20.126	33.539	20.94
H	19.734	34.225	21.481
H	20.662	34.013	20.304
O	19.885	32.771	12.143
H	20.771	32.669	11.795
H	19.349	32.984	11.379
O	29.311	29.116	11.863
H	29.862	29.614	12.467
H	29.085	28.321	12.346
O	32.027	24.623	10.821
H	32.335	24.527	11.722
H	32.71	24.214	10.289
O	22.739	27.389	5.844
H	22.093	26.689	5.936
H	23.584	26.939	5.866
O	30.25	23.229	6.634

H	30.147	24.042	7.129
H	29.37	22.856	6.598
O	24.075	15.499	29.422
H	24.789	14.887	29.603
H	23.281	15.008	29.631
O	25.931	16.537	32.89
H	26.584	16.212	33.509
H	25.185	15.946	32.996
O	32.393	16.843	31.041
H	31.962	16.242	31.649
H	33.317	16.817	31.293
O	26.423	14.107	29.296
H	26.561	13.165	29.395
H	26.809	14.318	28.445
O	27.383	22.332	28.542
H	28.134	22.88	28.772
H	27.568	21.487	28.951
O	25.825	17.56	30.061
H	25.435	16.932	29.452
H	25.968	17.058	30.863
O	28.391	13.11	22.223
H	29.252	12.971	21.829
H	28.33	12.444	22.907
O	32.048	27.128	24.603
H	32.977	27.306	24.748
H	31.858	26.375	25.162
O	30.871	21.739	29.017
H	31.739	21.702	29.418
H	30.266	21.566	29.739
O	29.874	10.396	28.124
H	29.975	11.045	27.428
H	30.526	9.725	27.923
O	31.475	22.004	26.329
H	31.137	21.63	27.143
H	31.181	21.401	25.647
O	32.047	19.635	31.966
H	31.894	18.846	31.447
H	32.999	19.734	31.977
O	38.553	23.44	20.941
H	37.923	24.02	20.513
H	38.935	23.973	21.638
O	29.037	17.929	31.606
H	28.779	17.008	31.567
H	28.694	18.308	30.797
O	34.454	8.83	23.885
H	34.391	8.547	22.973
H	34.633	9.769	23.833

O	31.852	17.267	28.442
H	32.534	17.817	28.058
H	32.119	17.156	29.355
O	35.835	11.509	27.426
H	34.934	11.824	27.351
H	35.947	10.922	26.678
O	29.307	17.709	27.704
H	30.224	17.766	27.973
H	29.295	18.067	26.817
O	33.709	17.406	9.427
H	34.618	17.29	9.703
H	33.76	17.531	8.48
O	24.938	16.847	11.925
H	24.601	17.235	12.732
H	25.689	16.325	12.206
O	32.469	14.752	21.385
H	33.348	14.759	21.766
H	32.195	13.836	21.431
O	30.816	19.132	13.418
H	30.974	18.346	13.94
H	31.54	19.153	12.792
O	30.284	15.257	11.884
H	31.234	15.279	11.994
H	30.077	14.33	11.768
O	36.186	20.699	18.464
H	36.55	20.393	19.295
H	35.267	20.432	18.492
O	32.263	11.353	17.063
H	32.41	10.514	17.499
H	31.311	11.441	17.027
O	33.28	18.588	15.193
H	33.815	17.822	15.401
H	32.532	18.235	14.713
O	33.563	9.022	21.216
H	34.106	9.499	20.588
H	32.971	8.501	20.675
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601
O	24.721	18.014	7.559
H	23.933	18.514	7.772
H	25.27	18.627	7.07
O	29.689	10.354	19.041
H	30.009	9.628	18.504
H	28.925	10.684	18.568
O	31.465	16.672	14.469
H	32.168	16.029	14.378

H	30.721	16.168	14.799
O	34.923	10.571	19.564
H	35.348	10.322	18.743
H	35.619	10.977	20.08
O	38.527	15.458	13.427
H	37.971	14.933	14.002
H	38.738	14.874	12.699
O	30.751	18.966	19.536
H	30.85	19.768	19.022
H	29.824	18.742	19.454
O	35.482	20.719	24.898
H	35.54	21.194	24.069
H	34.566	20.446	24.954
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	28.39	27.497	9.419
H	28.841	28.199	9.888
H	28.061	26.921	10.11
O	30.133	25.377	8.495
H	30.881	25.33	9.09
H	29.936	26.312	8.431
O	32.002	10.998	22.33
H	32.425	10.517	21.619
H	31.574	11.737	21.899
O	29.855	14.696	24.663
H	29.947	14.331	23.783
H	29.069	15.241	24.615
O	31.889	16.56	19.452
H	32.012	16.092	20.278
H	31.432	17.364	19.699
O	27.763	8.742	24.655
H	27.349	7.971	25.04
H	28.329	8.392	23.967
O	34.644	10.558	9.453
H	35.402	10.214	8.98
H	33.93	9.961	9.231
O	37.732	9.429	18.503
H	38.216	9.367	19.327
H	38.329	9.07	17.847
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H	30.218	11.819	19.909
H	30.792	13.214	19.777
O	34.526	20.736	7.123

H	34.765	21.156	6.297
H	33.854	20.098	6.882
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H	31.709	20.388	17.362
H	32.89	19.906	16.547
O	28.345	21.116	22.423
H	29.083	21.585	22.033
H	27.883	20.733	21.678
O	37.856	19.551	20.509
H	37.953	19.844	21.415
H	38.75	19.529	20.167
O	28.626	7.578	18.14
H	29.131	7.399	18.934
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H	33.999	18.825	20.053
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934
O	24.407	14.872	14.057
H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85
H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	29.304	15.125	15.496
H	29.712	15.071	16.36
H	28.974	14.241	15.332
O	30.935	23.768	18.813
H	31.045	24.586	19.299
H	31.712	23.253	19.032
O	22.565	11.422	7.263
H	21.77	10.969	6.982
H	23.22	10.729	7.341
O	33.966	14.561	9.506
H	33.515	15.401	9.592
H	34.874	14.796	9.311
O	30.88	7.56	16.768
H	29.99	7.73	17.076
H	30.996	6.616	16.879
O	29.02	27.364	13.686
H	29.65	27.404	14.405
H	28.385	26.702	13.96
O	33.543	13.762	29.261
H	33.839	14.591	29.636
H	33.78	13.104	29.915

O	30.268	23.047	21.979
H	31.187	23.245	21.797
H	29.889	23.888	22.238
O	27.648	21.192	16.796
H	27.35	20.499	16.206
H	26.861	21.705	16.979
O	29.094	23.158	15.712
H	28.684	22.32	15.928
H	29.846	22.923	15.168
O	34.864	20.878	14.109
H	35.24	20.289	13.454
H	34.281	20.321	14.625
O	33.093	26.646	22.107
H	32.438	26.688	22.803
H	33.395	25.738	22.117
O	35.958	10.673	13.915
H	35.175	10.32	13.493
H	35.815	10.525	14.85
O	32.982	14.146	13.03
H	33.495	13.501	12.543
H	33.138	13.931	13.95
O	29.29	12.914	5.866
H	28.755	13.501	5.332
H	29.356	13.355	6.713
O	27.587	22.533	6.576
H	27.384	22.656	7.503
H	26.773	22.205	6.193
O	35.239	24.226	22.752
H	35.057	23.301	22.584
H	35.71	24.522	21.974
O	35.225	21.368	9.799
H	34.727	22.182	9.874
H	34.904	20.965	8.992
O	24.198	19.84	23.687
H	24.475	20.696	23.361
H	23.265	19.795	23.477
O	35.223	17.396	7.188
H	35.424	16.46	7.207
H	35.023	17.579	6.27
O	27.776	19.346	29.523
H	28.367	18.91	28.909
H	27.057	18.725	29.643
O	31.049	20.49	23.466
H	31.305	20.855	22.619
H	30.106	20.348	23.391
O	36.167	24.994	20.402
H	36.008	24.584	19.552

H	36.629	25.806	20.193
O	33.02	19.355	24.959
H	32.359	19.651	24.333
H	32.922	18.403	24.978
O	35.863	19.669	11.703
H	35.851	20.058	10.828
H	36.775	19.412	11.839
O	34.337	17.381	18.699
H	33.413	17.138	18.745
H	34.589	17.193	17.794
O	37.085	11.712	11.01
H	37.46	11.144	11.684
H	36.145	11.709	11.19
O	23.676	30.073	25.75
H	23.953	29.785	26.619
H	24.338	29.716	25.157
O	36.349	14.37	16.428
H	35.776	13.647	16.683
H	36.874	14.547	17.209
O	30.684	26.111	20.225
H	30.14	25.942	20.994
H	30.563	27.043	20.045
O	28.875	25.274	17.405
H	29.024	24.584	16.759
H	28.96	24.832	18.25
O	27.561	17.119	16.412
H	27.549	17.874	15.824
H	28.209	16.527	16.028
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H	29.239	14.89	30.291
H	27.726	14.937	30.321
O	25.055	10.896	15.923
H	24.361	10.877	15.264
H	25.56	10.099	15.762
O	27.663	15.508	12.777
H	28.527	15.453	12.369
H	27.845	15.681	13.701
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H	31.623	6.611	8.355
H	32.166	5.207	8.194
O	26.642	8.919	16.155
H	27.111	8.832	15.325
H	27.2	8.476	16.794
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H	34.791	8.629	25.741
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O	30.043	28.447	22.688

H	30.94	28.47	23.023
H	29.544	28	23.371
O	32.886	23.254	20.961
H	33.701	22.752	20.958
H	33.126	24.103	20.589
O	30.396	12.661	26.533
H	29.905	13.14	27.202
H	30.326	13.206	25.749
O	33.891	19.05	27.854
H	33.348	19.395	27.144
H	34.755	19.431	27.701
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H	35.829	23.243	29.072
H	34.691	23.488	28.105
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H	29.895	26.477	16.832
H	31.257	26.616	16.186
O	28.936	30.943	22.42
H	28.1	30.695	22.815
H	29.402	30.115	22.306
O	22.286	8.889	11.272
H	23.098	9.247	10.913
H	22.562	8.394	12.043
O	34.969	16.574	15.88
H	35.407	15.772	16.167
H	35.513	16.901	15.163
O	26.164	11.202	7.345
H	25.545	10.472	7.333
H	25.8	11.815	7.984
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H	34.185	8.293	11.941
O	36.64	14.614	27.231
H	37.4	14.199	26.823
H	36.183	13.897	27.67
O	32.535	25.399	16.466
H	32.791	25.655	17.352
H	33.049	24.612	16.286
O	29.654	20.42	6.361
H	29.741	21.306	6.711
H	29.071	19.975	6.976
O	27.272	23.704	9.485
H	26.778	24.292	10.057
H	28.073	23.512	9.972
O	33.233	22.995	13.617
H	33.86	22.392	13.218
H	33.294	22.817	14.555

O	33.064	19.005	11.754
H	33.956	19.326	11.886
H	33.051	18.7	10.847
O	31.386	15.609	4.205
H	30.585	15.185	3.898
H	31.311	15.6	5.159
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H	29.808	18.112	7.853
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H	31.054	12.482	5.094
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H	33.436	13.551	8.085
H	32.489	14.099	7.04
O	31.29	15.336	7.075
H	31.237	16.239	7.387
H	30.501	14.916	7.417
O	28.183	20.556	11.69
H	27.261	20.81	11.729
H	28.556	21.113	11.007
O	28.184	19.383	14.719
H	27.476	19.592	14.11
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O	36.55	14.959	8.939
H	36.879	14.234	8.408
H	37.281	15.576	8.982
O	35.485	24.696	11.699
H	35.999	24.911	10.921
H	35.086	25.526	11.96
O	26.657	18.865	3.959
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H	27.47	18.59	4.382
O	24.872	12.144	9.43
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H	23.958	11.996	9.188
O	33.348	23.688	8.391
H	33.433	22.882	7.882
H	32.477	24.019	8.171
O	29.221	6.522	10.379
H	28.456	5.947	10.342
H	29.57	6.513	9.487
O	33.971	12.512	11.025
H	34.129	13.342	10.575
H	34.285	11.845	10.414
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H	23.367	2.68	24.096
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H	33.861	11.723	25.128
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H	29.919	5.734	23.696
H	28.435	5.683	23.992
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H	28.47	5.873	26.541
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O	26.832	5.189	21.622
H	27.252	5.047	20.773
H	27.56	5.309	22.232
O	27.915	9.266	11.271
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H	28.008	8.321	11.15
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H	29.462	5.24	13.195
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H	31.592	3.95	19.971
H	31.079	2.536	19.801
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H	37.085	8.591	11.459
H	35.918	8.519	12.419
O	26.913	4.285	15.371
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H	27.829	4.556	15.306
O	33.035	8.455	8.69
H	32.114	8.259	8.861
H	33.169	8.202	7.777
O	24.191	6.078	28.866

H	23.464	5.96	29.478
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O	34.781	6.16	16.103
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H	31.486	7.19	12.393
O	32.572	8.073	14.925
H	33.368	7.745	15.343
H	31.863	7.787	15.501
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H	27.747	1.122	16.791
H	27.079	1.356	15.453
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H	30.44	6.318	27.816
H	30.516	7.572	26.973
O	32.539	7.536	19.134
H	32.199	7.545	18.239
H	33.388	7.099	19.063
O	32.493	5.52	11.477
H	33.429	5.702	11.563
H	32.308	5.65	10.547
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H	25.206	7.892	23.016
H	26.306	8.621	22.275
O	31.904	8.888	27.088
H	31.792	8.912	26.138
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H	22.311	6.96	26.692
H	22.078	6.099	25.47
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H	35.449	5.405	19.525
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H	30.535	10.834	9.91
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H	29.872	7.646	7.079
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H	21.699	8.599	5.382
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H	15.405	22.669	35.156
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H	8.972	27.205	29.038
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O	26.718	26.606	22.365
H	26.922	27.468	22.002
H	25.77	26.522	22.263
O	12.169	19.132	33.848
H	12.133	18.575	33.07
H	11.785	19.962	33.566
O	20.485	24.189	26.946
H	19.824	23.499	26.989
H	20.982	24.095	27.759
O	13.474	28.382	29.119
H	14.419	28.431	29.264
H	13.146	29.24	29.391
O	22.005	21.03	34.568
H	21.915	20.422	35.303
H	22.446	21.793	34.941
O	15.726	30.467	29.749
H	16.302	30.295	29.004
H	16.307	30.45	30.51
O	18.257	28.509	30.224
H	18.347	29.452	30.087
H	19.118	28.152	30.008
O	17.616	30.699	27.489
H	18.476	30.45	27.83
H	17.308	29.921	27.025
O	20.676	27.261	30.028
H	20.794	26.311	30.033
H	21.132	27.563	30.814
O	20.288	30.264	27.478
H	21.034	30.563	27.997
H	20.599	29.467	27.049
O	17.431	24.711	33.291
H	18.114	24.165	32.902

H	17.703	25.608	33.098
O	6.966	29.291	27.904
H	6.509	28.464	27.747
H	6.272	29.909	28.133
O	14.234	29.451	25.8
H	13.729	28.82	25.288
H	13.582	30.076	26.118
O	21.841	25.67	24.919
H	21.461	24.958	25.433
H	22.774	25.46	24.871
O	29.046	24.005	30.607
H	28.918	23.161	31.04
H	28.924	24.652	31.302
O	23.943	26.468	22.389
H	23.24	27.114	22.464
H	23.571	25.769	21.852
O	12.238	24.196	24.379
H	12.264	25.01	23.876
H	13.158	23.962	24.504
O	14.585	30.731	16.435
H	15.025	30.964	15.618
H	15.297	30.594	17.06
O	13.619	27.917	18.44
H	14.291	28.521	18.757
H	13.651	27.182	19.051
O	18.176	26.857	16.936
H	17.888	25.989	17.218
H	17.621	27.464	17.426
O	13.323	32.607	17.845
H	13.569	33.321	17.257
H	13.903	31.886	17.601
O	24.608	30.968	17.556
H	24.77	31.723	16.991
H	24.687	31.312	18.446
O	13.129	20.587	24.819
H	14.035	20.781	25.059
H	12.692	21.438	24.822
O	23.146	31.118	22.018
H	22.361	31.601	22.276
H	23.577	31.685	21.38
O	21.864	31.131	14.358
H	22.43	31.33	13.612
H	22.398	30.572	14.922
O	28.649	27.805	29.073
H	28.908	28.701	29.29
H	28.182	27.496	29.849
O	15.224	33.394	22.1

H	14.403	33.115	21.695
H	15.834	32.678	21.924
O	17.794	32.381	17.737
H	18.417	32.355	18.463
H	17.235	31.616	17.873
O	21.06	28.306	25.498
H	20.998	27.406	25.18
H	21.99	28.522	25.427
O	8.368	24.538	22.244
H	8.26	25.485	22.33
H	8.09	24.345	21.349
O	5.765	27.763	9.94
H	6.481	28.139	9.428
H	5.195	27.352	9.289
O	14.801	26.026	20.08
H	15.168	25.155	19.923
H	14.58	26.028	21.011
O	11.605	29.867	17.285
H	11.941	29.176	17.856
H	12.281	29.973	16.615
O	11.77	26.697	27.758
H	12.281	27.238	28.36
H	10.88	27.045	27.821
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	18.218	30.917	13.635
H	19.02	31.44	13.633
H	17.531	31.533	13.89
O	19.683	31.273	19.221
H	20.549	31.558	19.514
H	19.263	30.935	20.012
O	23.848	33.568	16.213
H	23.958	34.397	16.679
H	22.989	33.639	15.797
O	12.027	31.117	27.063
H	11.365	31.8	27.175
H	11.555	30.392	26.654
O	16.147	31.036	24.68
H	15.607	30.323	25.021
H	16.072	31.728	25.337
O	15.518	30.124	19.132
H	15.1	30.613	19.841
H	16.381	29.894	19.476
O	12.982	31.74	23.971
H	13.642	32.434	23.982
H	12.747	31.618	24.891

O	14.1	25.544	16.465
H	14.254	26.406	16.851
H	13.352	25.195	16.95
O	22.678	29.625	16.507
H	23.225	30.276	16.946
H	22.985	28.785	16.848
O	19.204	28.066	13.227
H	19.892	28.232	12.582
H	18.729	28.895	13.289
O	7.314	30.539	12.014
H	7.302	31.433	11.672
H	8.18	30.205	11.78
O	26.659	25.853	7.926
H	27.319	26.349	8.411
H	26.742	24.958	8.256
O	15.718	25.165	8.299
H	16.584	24.811	8.1
H	15.678	25.178	9.255
O	11.17	29.151	21.291
H	12.004	29.4	21.69
H	11.226	28.201	21.193
O	33.37	25.639	19.299
H	32.733	25.983	19.926
H	34.157	26.164	19.446
O	27.048	30.86	11.619
H	26.8	30.85	12.543
H	27.668	30.136	11.529
O	16.267	28.198	26.672
H	16.151	27.332	26.281
H	15.448	28.656	26.485
O	25.075	27.949	24.701
H	25.929	27.518	24.754
H	24.626	27.503	23.984
O	19.353	30.071	21.619
H	18.914	29.509	22.257
H	20.133	30.387	22.075
O	10.628	21.988	23.73
H	11.119	22.808	23.678
H	10.072	21.992	22.95
O	27.111	28.882	20.581
H	26.437	28.446	20.06
H	27.194	29.751	20.189
O	24.864	28.34	27.769
H	24.911	28.056	26.856
H	24.993	27.538	28.276
O	20.749	31.69	23.145
H	20.137	31.867	23.859

H	20.467	32.272	22.439
O	26.818	26.169	11.249
H	27.134	26.174	12.152
H	25.937	26.54	11.3
O	9.952	29.522	11.572
H	10.733	28.969	11.58
H	10.217	30.318	12.033
O	26.258	25.458	17.288
H	27.206	25.532	17.392
H	26.119	25.466	16.341
O	27.754	31.248	14.701
H	28.2	30.494	15.088
H	28.211	32.008	15.062
O	14.62	29.462	12.835
H	14.506	29.02	13.676
H	15.562	29.427	12.671
O	11.198	28.961	25.719
H	10.812	28.193	26.141
H	10.637	29.124	24.961
O	17.29	27.644	20.529
H	17.728	27.128	21.207
H	16.63	27.052	20.168
O	9.673	27.338	8.737
H	9.208	28.142	8.968
H	9.243	27.033	7.938
O	17.386	22.204	3.892
H	16.485	21.885	3.843
H	17.73	21.825	4.701
O	19.786	28.492	6.317
H	20.009	28.509	5.387
H	19.082	27.846	6.383
O	17.153	30.287	9.094
H	18.033	30.583	8.857
H	16.612	30.518	8.34
O	24.095	32.693	12.689
H	24.197	33.57	13.059
H	24.397	32.104	13.38
O	15.103	31.043	10.626
H	15.695	30.398	10.24
H	15.009	30.766	11.537
O	20.817	29.522	11.52
H	21.724	29.388	11.794
H	20.821	30.376	11.088
O	20.925	27.96	8.713
H	20.995	28.704	9.311
H	20.462	28.309	7.951
O	20.656	25.108	5.925

H	19.745	25.334	6.111
H	20.606	24.507	5.182
O	14.253	26.808	7.076
H	14.676	26.092	7.549
H	14.122	27.488	7.737
O	16.955	15.331	32.7
H	16.55	15.37	33.566
H	16.453	15.951	32.171
O	21.44	22.08	30.761
H	22.317	22.004	30.384
H	21.373	21.338	31.362
O	12.756	16.479	24.912
H	13.482	16.7	25.496
H	12.671	17.239	24.337
O	16.042	14.118	27.054
H	15.404	14.757	26.737
H	16.134	14.312	27.986
O	22.676	17.042	33.605
H	23.063	16.219	33.905
H	21.794	17.042	33.976
O	4.385	14.355	22.132
H	4.404	14.303	21.176
H	5.022	15.036	22.348
O	26.962	21.825	33.666
H	26.371	21.81	32.913
H	27.319	20.938	33.708
O	16.029	25.333	26.761
H	16.951	25.579	26.679
H	15.939	25.037	27.667
O	11.873	17.622	29.258
H	11.424	17.928	28.469
H	12.778	17.482	28.979
O	12.847	15.651	36.472
H	11.986	15.24	36.541
H	12.659	16.579	36.328
O	23.729	23.294	23.224
H	24.058	24.189	23.134
H	24.062	22.838	22.451
O	19.392	20.508	33.059
H	19.681	19.86	32.416
H	20.188	20.746	33.533
O	33.331	12.525	26.742
H	33.384	13.096	27.509
H	32.414	12.57	26.472
O	14.938	14.961	34.797
H	14.775	14.024	34.687
H	14.259	15.252	35.406

O	10.502	21.215	32.977
H	10.478	21.586	33.858
H	11.075	21.803	32.484
O	21.786	24.636	30.15
H	22.028	23.795	30.538
H	22.583	24.936	29.713
O	19.4	13.241	34.309
H	19.748	12.462	33.876
H	18.695	12.911	34.866
O	15.76	9.473	30.393
H	14.834	9.234	30.432
H	15.937	9.596	29.461
O	19.217	23.957	31.127
H	20.148	24.159	31.03
H	19.154	23.022	30.934
O	19.267	10.349	29.028
H	18.369	10.678	28.982
H	19.722	10.973	29.593
O	16.387	20.326	30.157
H	16.358	20.609	31.071
H	17.16	20.758	29.797
O	6.095	13.607	30.531
H	5.914	14.046	31.362
H	5.245	13.568	30.091
O	21.717	19.25	31.351
H	22.221	19.013	30.573
H	21.531	18.414	31.779
O	13.236	26.962	33.362
H	13.729	27.188	34.15
H	13.65	26.161	33.042
O	21.773	16.589	28.207
H	21.965	16.894	27.32
H	22.616	16.28	28.541
O	30.768	14.722	29.267
H	30.961	15.589	28.908
H	31.615	14.279	29.291
O	25.178	27.253	30.538
H	26.098	27.493	30.65
H	24.755	28.057	30.237
O	19.91	17.365	34.391
H	19.781	16.988	35.261
H	19.934	18.31	34.541
O	7.472	18.784	29.415
H	6.896	18.049	29.205
H	7.735	18.631	30.322
O	13.558	25.662	30.212
H	13.476	26.59	30.432

H	13.048	25.56	29.408
O	19.811	22.199	24.228
H	20.647	22.43	24.631
H	19.187	22.198	24.953
O	27.923	8.658	28.649
H	28.431	9.442	28.441
H	28.362	7.955	28.171
O	22.458	17.144	25.325
H	22.54	16.622	24.528
H	23.125	17.825	25.235
O	12.872	12.642	31.282
H	13.08	12.215	32.114
H	12.789	13.569	31.504
O	28.235	15.187	27.246
H	28.641	15.958	27.641
H	28.357	15.307	26.304
O	21.999	28.447	22.887
H	21.135	28.619	23.261
H	22.272	29.286	22.517
O	11.937	14.865	28.668
H	11.386	14.863	27.885
H	11.646	15.632	29.162
O	20.122	14.863	32.256
H	19.815	15.711	32.578
H	20.11	14.296	33.026
O	12.206	23.256	31.77
H	13.122	23.494	31.626
H	11.757	23.541	30.974
O	10.115	20.572	28.846
H	9.487	20.234	29.485
H	10.295	19.828	28.271
O	10.232	22.241	35.53
H	10.897	22.868	35.243
H	10.598	21.85	36.323
O	21.743	21.82	27.681
H	22.61	21.852	27.276
H	21.234	21.243	27.112
O	14.851	23.762	24.915
H	15.36	24.056	24.159
H	15.232	24.231	25.657
O	17.235	13.891	29.551
H	16.489	13.548	30.042
H	17.465	14.704	30
O	12.496	18.392	23.093
H	12.583	19.222	23.562
H	12.739	18.6	22.191
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H	12.659	21.659	28.471
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O	9.923	17.477	27.295
H	9.111	17.051	27.568
H	10.363	16.827	26.747
O	18.347	8.686	25.953
H	18.62	9.597	26.065
H	18.068	8.41	26.826
O	15.273	18.259	34.139
H	14.368	18.555	34.047
H	15.707	18.562	33.342
O	11.19	28.685	32.162
H	11.755	28.315	32.841
H	11.729	29.356	31.742
O	25.163	21.625	31.806
H	25.502	21.439	30.93
H	24.998	20.762	32.187
O	24.758	23.037	28.812
H	24.497	23.059	27.891
H	25.629	22.639	28.804
O	31.006	24.973	26.133
H	31.048	25.098	27.081
H	31.194	24.044	26.005
O	21.843	14.029	29.919
H	21.364	13.201	29.9
H	21.47	14.505	30.661
O	24.263	12.291	32.764
H	23.45	11.919	33.108
H	24.274	12.031	31.843
O	3.691	13.415	24.653
H	3.879	13.535	23.722
H	4.249	12.684	24.918
O	10.883	14.903	26.04
H	10.417	14.692	25.231
H	11.719	15.265	25.746
O	23.802	14.613	33.875
H	23.213	14.323	34.571
H	24.165	13.803	33.517
O	27.401	26.591	25.41
H	27.41	26.62	26.367
H	28.087	27.203	25.145
O	21.655	11.816	28.049
H	22.116	11.342	28.742
H	22.219	11.724	27.281

O	9.156	25.736	30.419
H	9.733	25.049	30.755
H	9.06	26.347	31.149
O	13.533	12.733	28.119
H	14.455	12.946	27.977
H	13.182	13.489	28.589
O	17.614	10.009	32.893
H	17.33	10.878	33.18
H	17.164	9.874	32.059
O	23.935	13.857	27.143
H	23.268	14.002	27.814
H	24.462	14.655	27.153
O	18.692	26.056	26.329
H	19.128	26.796	26.752
H	19.378	25.394	26.239
O	11.851	12.855	23.124
H	11.658	13.712	22.744
H	12.698	12.969	23.555
O	15.626	12.123	30.89
H	15.657	11.216	30.585
H	14.766	12.438	30.611
O	15.9	21.018	35.538
H	15.706	20.102	35.736
H	16.309	21.355	36.335
O	10.014	20.59	26.179
H	9.549	21.152	26.799
H	10.185	21.155	25.426
O	19.394	15.833	16.886
H	20.083	16.332	17.326
H	18.978	15.332	17.587
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H	19.839	26.01	20.354
O	16.945	12.623	24.602
H	16.984	12.276	23.71
H	17.651	12.172	25.065
O	22.958	16.088	5.736
H	22.339	16.502	6.337
H	23.819	16.312	6.088
O	23.37	10.671	13.931
H	22.71	9.994	14.082
H	22.878	11.41	13.574
O	26.309	9.972	32.112
H	25.764	9.271	31.755
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O	15.044	14.239	14.849
H	14.889	15.184	14.839

H	15.803	14.127	15.421
O	17.468	17.185	14.984
H	17.92	16.542	15.53
H	16.609	17.286	15.394
O	14.403	16.848	15.969
H	13.948	17.67	16.154
H	14.21	16.292	16.723
O	15.941	22.78	28.839
H	15.971	22.046	29.452
H	16.454	23.468	29.264
O	9.19	26.368	11.58
H	9.137	26.834	10.746
H	8.366	26.573	12.023
O	25.461	27.257	19.145
H	24.532	27.278	19.375
H	25.525	26.581	18.47
O	25.425	11.559	27.11
H	24.902	12.36	27.139
H	25.715	11.43	28.013
O	18.419	5.694	17.961
H	17.904	5.222	17.306
H	19.284	5.287	17.924
O	25.06	21.993	21.145
H	25.996	22.109	20.98
H	24.83	21.197	20.666
O	29.628	17.598	10.714
H	29.801	18.391	11.222
H	30.054	16.899	11.21
O	17.57	13.249	16.234
H	18.437	13.654	16.246
H	17.195	13.459	17.089
O	15.28	15.817	12.454
H	14.861	15.48	11.662
H	15.297	15.07	13.052
O	21.627	12.663	13.231
H	21.25	12.924	14.071
H	21.47	13.412	12.655
O	17.755	15.73	25.649
H	18.607	15.4	25.932
H	17.126	15.092	25.988
O	30.373	25.709	28.908
H	30.294	24.934	29.464
H	29.553	26.184	29.04
O	18.731	22.555	17.426
H	17.984	22.738	16.856
H	18.404	22.718	18.31
O	16.305	13.653	9.176

H	15.683	13.996	9.818
H	15.787	13.539	8.379
O	14.368	13.467	21.096
H	14.669	14.215	21.613
H	14.139	13.841	20.245
O	22.909	23.677	16.692
H	22.302	24.379	16.929
H	22.394	22.875	16.78
O	22.343	26.264	13.759
H	21.624	26.451	13.154
H	22.138	26.778	14.54
O	28.285	4.477	19.359
H	29.064	4.957	19.64
H	28.469	3.566	19.587
O	8.898	18.427	15.597
H	9.56	19.004	15.215
H	8.079	18.693	15.179
O	11.489	21.897	12.634
H	12.403	21.614	12.659
H	11.531	22.85	12.711
O	21.335	19.709	23.292
H	20.775	20.422	23.599
H	20.725	19.007	23.064
O	30	21.412	31.927
H	29.511	21.114	32.693
H	30.844	20.964	31.992
O	19.946	29.885	16.909
H	20.864	29.831	16.642
H	19.97	30.307	17.768
O	13.262	26.321	13.77
H	13.79	27.004	14.183
H	13.563	25.508	14.176
O	25.524	21.135	12.809
H	25.102	20.588	12.146
H	25.298	22.031	12.559
O	27.382	25.171	14.397
H	27.956	24.443	14.635
H	26.543	24.758	14.194
O	19.293	13.239	27.628
H	18.729	13.63	28.295
H	20.128	13.096	28.074
O	11.386	16.902	19.667
H	10.675	17.357	19.216
H	11.773	17.567	20.236
O	9.365	12.364	8.054
H	9.292	11.497	7.656
H	10.244	12.381	8.432

O	14.224	10.457	25.473
H	13.675	10.076	24.788
H	13.607	10.898	26.057
O	27.741	16.05	24.581
H	26.823	16.164	24.335
H	28.205	16.731	24.094
O	15.712	18.646	24.882
H	16.604	18.442	24.598
H	15.821	19.333	25.539
O	18.883	6.511	14.197
H	19.033	5.952	14.959
H	19.752	6.635	13.816
O	24.681	20.073	14.961
H	23.846	20.534	15.05
H	25.116	20.506	14.227
O	18.261	22.005	26.323
H	17.341	22.148	26.101
H	18.241	21.652	27.212
O	15.03	16.584	26.547
H	15.496	17.223	26.006
H	14.873	17.039	27.374
O	19.257	18.968	27.196
H	19.113	18.833	26.259
H	19.164	18.097	27.581
O	13.242	15.061	18.782
H	12.414	14.723	18.441
H	13.003	15.872	19.231
O	2.269	13.672	11.287
H	2.89	12.998	11.562
H	1.484	13.186	11.034
O	18.487	11.278	13.645
H	18.181	11.915	13
H	18.748	11.807	14.399
O	16.854	8.504	19.286
H	17.512	8.476	19.98
H	16.016	8.472	19.748
O	14.272	18.25	13.393
H	14.767	17.467	13.154
H	13.532	18.261	12.786
O	21.4	11.534	24.354
H	22.108	10.945	24.616
H	21.833	12.373	24.195
O	14.464	18.51	28.583
H	13.694	19.017	28.328
H	14.964	19.1	29.147
O	13.277	19.405	15.875
H	13.618	19.224	14.999

H	13.859	20.078	16.225
O	15.771	14.127	18.118
H	16.154	14.342	18.969
H	14.88	14.475	18.163
O	14.25	22.462	13.34
H	14.147	22.425	12.389
H	15.019	23.016	13.476
O	16.827	11.302	10.527
H	17.434	11.501	11.239
H	16.743	12.126	10.047
O	14.742	28.238	15.334
H	14.438	28.843	16.011
H	15.695	28.235	15.425
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H	22.533	9.041	16.68
H	21.422	9.793	15.978
O	24.223	17.423	14.731
H	23.553	17.297	15.402
H	24.473	18.344	14.812
O	6.718	15.743	20.562
H	6.749	16.374	21.281
H	7.498	15.202	20.685
O	10.755	23.099	29.429
H	10.654	22.161	29.268
H	10.382	23.516	28.652
O	27.991	19.053	24.709
H	27.83	19.759	24.083
H	27.119	18.729	24.934
O	26.205	13.685	6.223
H	26.475	12.817	6.523
H	25.384	13.533	5.756
O	25.571	16.088	26.879
H	25.369	16.91	26.432
H	26.523	16.094	26.975
O	24.569	19.77	10.825
H	23.627	19.909	10.921
H	24.689	18.832	10.973
O	21.065	25.826	17.148
H	21.323	26.57	17.693
H	20.241	26.1	16.744
O	7.429	14.828	14.904
H	7.2	14.177	14.241
H	8.385	14.873	14.875
O	19.662	19.241	14.753
H	19.241	19.991	14.332
H	18.958	18.601	14.862
O	25.015	25.077	25.389

H	24.909	25.396	26.285
H	25.954	25.154	25.217
O	15.648	10.447	15.077
H	15.635	9.705	15.681
H	16.538	10.456	14.726
O	24.255	22.071	26.165
H	25.154	22.104	25.836
H	23.727	22.436	25.455
O	19.663	25.389	12.536
H	19.505	26.136	13.115
H	19.449	25.714	11.662
O	22.74	15.438	22.947
H	23.517	15.344	22.397
H	22.671	14.602	23.409
O	14.287	21.072	10.769
H	15.146	20.653	10.73
H	14.247	21.611	9.979
O	9.796	9.679	25.912
H	9.944	10.403	26.52
H	8.844	9.632	25.823
O	22.303	16.254	11.052
H	23.249	16.2	11.189
H	21.924	15.914	11.862
O	16.339	23.922	16.134
H	16.628	24.337	15.322
H	15.499	24.337	16.33
O	21.65	19.95	11.103
H	21.479	19.292	11.777
H	21.353	20.773	11.491
O	16.783	20.269	14.756
H	16.29	20.474	15.55
H	16.349	19.496	14.397
O	20.451	13.255	15.701
H	20.65	13.928	16.352
H	20.389	12.444	16.206
O	24.977	13.027	11.868
H	25.252	12.3	12.426
H	24.624	13.676	12.477
O	25.802	21.018	5.058
H	26.396	20.3	4.84
H	25.694	21.497	4.237
O	18.644	13.758	12.463
H	18.538	14.559	12.976
H	18.746	14.063	11.561
O	16.501	15.419	20.562
H	16.026	15.502	21.388
H	16.832	16.3	20.386

O	27.658	10.103	21.625
H	28.235	10.275	20.881
H	27.592	10.945	22.077
O	25.356	22.448	17.363
H	25.957	23.193	17.351
H	24.51	22.82	17.113
O	24.968	14.88	21.457
H	25.063	13.947	21.268
H	24.656	15.261	20.636
O	16.794	19.565	10.797
H	16.91	18.774	11.323
H	17.268	20.244	11.278
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H	8.496	18.538	18.445
H	9.453	18.386	17.282
O	30.636	22.114	13.548
H	31.534	22.436	13.618
H	30.729	21.169	13.423
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H	22.255	23.657	20.563
H	21.957	23.253	21.991
O	12.513	25.53	9.66
H	12.422	24.893	8.952
H	11.833	26.181	9.486
O	15.709	27.732	22.834
H	16.206	28.194	22.158
H	16.316	27.07	23.166
O	17.379	29.438	15.92
H	18.303	29.489	16.168
H	17.258	30.157	15.3
O	16.011	17.212	31.043
H	15.317	17.042	30.406
H	16.788	17.379	30.51
O	24.396	23.347	12.071
H	24.119	24.109	11.562
H	23.629	23.12	12.597
O	9.908	17.41	23.452
H	10.793	17.759	23.344
H	9.347	18.185	23.484
O	14.078	22.542	8.549
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H	13.169	22.71	8.303
O	15.072	21.246	16.941
H	15.033	21.149	17.893
H	15.506	22.088	16.804
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H	18.247	17.413	13.152

H	16.93	17.005	12.528
O	16.921	23.022	22.968
H	16.499	23.164	22.121
H	17.771	22.638	22.751
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H	8.277	20.697	23.474
H	8.95	20.037	24.658
O	17.786	21.334	12.658
H	17.278	22.145	12.626
H	17.52	20.917	13.477
O	11.65	21.466	19.131
H	12.012	20.691	18.703
H	11.042	21.833	18.489
O	19.878	12.178	8.33
H	20.645	12.75	8.341
H	19.732	11.955	9.249
O	25.465	16.898	23.713
H	25.257	16.216	23.076
H	24.796	17.568	23.574
O	25.204	18.77	26.226
H	24.96	19.407	25.555
H	24.691	19.022	26.994
O	12.147	6.908	26.549
H	12.898	6.828	25.962
H	11.651	7.651	26.203
O	11.774	9.792	11.863
H	12.611	10.227	12.022
H	11.921	9.271	11.074
O	17.469	25.759	23.544
H	17.553	24.829	23.332
H	18.056	25.889	24.288
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H	14.754	14.585	23.528
H	14.552	16.075	23.358
O	27.736	17.219	19.315
H	27.382	17.243	18.426
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O	16.768	12.765	5.92
H	17.458	12.865	6.575
H	16.063	12.31	6.381
O	16.482	30.519	22.119
H	17.414	30.43	21.92
H	16.46	30.887	23.003
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H	13.969	12.678	24.955
H	15.312	13.331	24.71
O	19.094	11.327	25.729

H	19.08	11.87	26.518
H	19.942	11.511	25.326
O	20.33	2.519	14.449
H	20.702	2.649	13.576
H	21.004	2.843	15.046
O	10.493	14.62	6.71
H	11.024	14.708	7.502
H	10.017	13.799	6.831
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H	19.196	29.293	24.859
H	17.776	29.344	24.338
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H	17.706	11.199	5.019
H	17.461	10.125	3.98
O	20.257	22.752	12.421
H	19.441	22.302	12.202
H	19.999	23.665	12.552
O	16.52	23.984	12.622
H	16.125	24.529	11.941
H	17.05	24.593	13.138
O	9.36	26.219	24.548
H	9.741	25.846	25.343
H	8.518	25.773	24.454
O	21.31	21.552	17.118
H	20.371	21.738	17.095
H	21.367	20.637	17.392
O	20.977	33.377	16.088
H	21.084	32.541	15.635
H	20.243	33.234	16.685
O	26.912	22.294	24.819
H	27.582	22.928	25.074
H	27.283	21.845	24.059
O	26.128	20.794	8.596
H	25.623	21.575	8.823
H	25.934	20.171	9.297
O	28.098	12.063	12.714
H	28.49	12.491	11.953
H	27.572	11.353	12.345
O	20.386	16.855	22.874
H	19.688	16.2	22.901
H	21.169	16.361	22.63
O	20.219	17.398	9.613
H	21.062	17.358	10.063
H	19.753	16.615	9.906
O	34.979	25.986	24.872
H	35.883	26.274	24.747
H	34.756	25.538	24.056

O	16.815	12.151	21.77
H	15.968	12.574	21.625
H	17.118	11.915	20.894
O	23.346	13.405	24.485
H	23.579	13.548	25.403
H	24.171	13.162	24.065
O	13.765	10.058	8.48
H	13.369	9.811	7.644
H	13.745	9.255	9.001
O	14.298	10.813	12.508
H	14.985	10.8	11.841
H	14.71	10.432	13.283
O	9.276	9.6	12.286
H	9.228	10.347	12.883
H	10.196	9.561	12.025
O	27.973	19.014	7.91
H	27.322	19.715	7.966
H	27.618	18.314	8.458
O	8.414	13.815	22.047
H	8.693	12.915	21.88
H	9.23	14.309	22.122
O	27.268	12.771	15.442
H	26.34	12.54	15.396
H	27.646	12.406	14.643
O	20.594	10.31	22.154
H	21.357	9.739	22.06
H	20.755	10.793	22.965
O	29.545	13.664	8.748
H	28.742	13.678	9.268
H	30.139	13.095	9.239
O	23.224	6.175	17.644
H	23.777	6.187	16.863
H	22.995	7.093	17.788
O	19.409	24.33	19.467
H	20.177	23.984	19.922
H	19.523	24.05	18.559
O	7.605	10.179	21.005
H	8.263	10.849	21.186
H	7.961	9.687	20.265
O	15.15	23.322	20.352
H	15.685	22.545	20.191
H	14.359	22.986	20.773
O	22.52	22.091	13.856
H	21.633	22.215	13.52
H	22.443	22.242	14.798
O	18.279	15.065	22.961
H	17.794	15.164	23.781

H	17.829	14.357	22.501
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H	15.802	7.089	16.502
H	16.391	8.13	17.429
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H	27.946	21.926	19.553
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H	17.759	26.13	15.27
H	18.137	26.635	13.894
O	18.063	3.425	16.417
H	18.713	3.289	15.728
H	17.221	3.282	15.984
O	18.629	18.047	24.495
H	19.425	17.798	24.027
H	18.252	17.217	24.786
O	23.616	28.7	12.625
H	23.669	27.819	12.996
H	24.246	29.212	13.133
O	19.091	21.702	21.61
H	19.893	21.913	21.132
H	19.386	21.511	22.501
O	25.261	30.427	14.657
H	26.169	30.713	14.566
H	25.015	30.69	15.544
O	23.917	24.227	20.046
H	24.379	23.451	20.363
H	24.368	24.46	19.235
O	21.055	15.483	13.922
H	20.52	14.923	14.484
H	21.497	16.077	14.529
O	24.222	10.565	18.262
H	24.868	9.939	18.589
H	24.551	10.82	17.4
O	25.046	11.998	21.977
H	25.844	12.043	22.503
H	24.907	11.062	21.832
O	10.185	19.902	11.363
H	10.681	20.668	11.651
H	9.446	19.854	11.969
O	16.788	7.395	9.922
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H	16.281	7.668	10.686
O	20.387	10.75	11.029
H	20.686	11.237	11.797
H	21.093	10.129	10.849
O	18.426	9.698	9.126

H	19.206	9.307	9.522
H	18.13	10.342	9.769
O	18.182	24.209	8.114
H	18.945	24.632	8.509
H	18.506	23.359	7.818
O	21.753	14.324	8.707
H	21.991	14.935	9.404
H	22.481	14.373	8.087
O	18.526	27.218	32.835
H	18.441	27.806	32.083
H	19.47	27.121	32.958
O	27.302	31.335	19.424
H	27.752	31.879	20.07
H	27.117	31.93	18.697
O	13.859	28.506	8.94
H	13.25	28.633	9.667
H	14.025	29.389	8.609
O	22.599	19.857	8.309
H	22.736	20.754	8.005
H	22.329	19.952	9.222
O	14.199	6.789	25.103
H	14.274	7.493	24.458
H	15.096	6.639	25.399
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H	26.462	29.894	22.198
H	25.381	30.539	23.04
O	11.838	22.324	4.493
H	12.076	21.49	4.897
H	10.908	22.431	4.695
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H	13.944	15.378	2.948
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O	9.459	16.99	9.082
H	8.605	16.558	9.061
H	9.255	17.925	9.078
O	20.014	14.534	5.595
H	19.448	15.158	6.05
H	20.885	14.929	5.634
O	19.101	14.65	9.853
H	18.31	14.349	9.407
H	19.813	14.432	9.253
O	23.137	21.46	5.15
H	23.075	22.353	4.812
H	24.076	21.311	5.264
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H	20.332	25.069	9.568
H	20.129	26.567	9.481

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H	20.751	19.234	6.083
H	21.596	18.593	7.162
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H	24.047	24.343	15.542
H	24.047	25.426	14.484
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H	26.858	14.497	10.93
H	26.466	13.368	10.001
O	26.89	17.52	9.823
H	26.255	17.894	10.434
H	27.67	17.362	10.355
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H	27.278	16.65	7.439
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H	19.891	9.73	5.971
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H	12.764	13.156	8.461
O	8.073	19.293	12.916
H	7.339	19.82	13.231
H	7.831	18.392	13.131
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H	24.685	13.964	3.243
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H	29.066	11.286	6.545
H	27.829	10.58	7.058
O	9.669	18.818	4.806
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O	16.97	17.032	3.23
H	16.035	16.906	3.072
H	17.264	16.202	3.606
O	11.314	15.665	4.297
H	11.711	14.872	3.937
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O	17.516	20.477	6.169
H	16.589	20.714	6.18

H	17.614	19.86	6.895
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H	21.356	20.762	4.921
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O	18.504	19.38	8.678
H	17.977	19.426	9.475
H	19.214	18.775	8.895
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H	23.615	26.083	10.138
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H	8.247	30.226	15.99
H	8.283	28.913	15.237
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H	27.651	15.38	3.918
H	28.286	15.634	5.269
O	8.864	19.929	8.576
H	8.631	19.973	9.504
H	9.638	20.488	8.497
O	24.171	22.829	8.747
H	23.279	23.17	8.821
H	24.714	23.479	9.192
O	21.244	23.78	8.287
H	21.294	24.432	7.588
H	20.811	23.028	7.883
O	4.91	24.684	9.583
H	5.146	23.81	9.273
H	5.707	25.201	9.471
O	14.608	18.205	4.848
H	14.401	17.63	4.112
H	13.755	18.488	5.179
O	19.924	21.603	7.612
H	20.045	21.457	6.674
H	19.489	20.809	7.924
O	25.516	25.351	5.345
H	25.977	25.101	4.544
H	26.146	25.184	6.046
O	14.314	14.558	7.198
H	15.157	14.999	7.097
H	13.665	15.252	7.083
O	17.02	28.357	11.062
H	17.879	28.356	11.485
H	17.155	28.842	10.248
O	14.979	20.976	3.838
H	14.632	20.89	4.726
H	14.97	20.085	3.49
O	12.076	19.619	5.305

H	11.173	19.305	5.315
H	12.279	19.797	6.223
O	24.135	9.013	7.504
H	24.017	8.16	7.084
H	24.243	8.81	8.433
O	20.533	7.791	9.143
H	21.058	7.108	8.727
H	20.768	7.744	10.07
O	14.962	26.232	10.749
H	15.29	27.119	10.896
H	14.02	26.344	10.621
O	15.887	7.892	6.108
H	15.984	8.007	5.163
H	16.101	8.749	6.477
O	23.608	12.845	5.112
H	23.199	12.399	5.853
H	23.459	12.261	4.369
O	12.377	19.602	8.232
H	13.164	19.429	8.749
H	12.059	20.445	8.555
O	18.977	18.775	3.888
H	18.348	18.072	3.726
H	18.599	19.27	4.615
O	22.679	10.904	3.11
H	22.851	10.328	2.366
H	21.725	10.952	3.162
O	25.472	8.397	29.959
H	25.162	7.627	29.481
H	26.374	8.516	29.662
O	27.167	3.146	27.004
H	27.574	3.303	27.857
H	26.3	2.799	27.213
O	22.287	10.099	32.457
H	21.46	10.028	32.934
H	22.923	9.649	33.012
O	23.166	10.212	29.633
H	23.016	10.028	30.561
H	23.982	9.755	29.427
O	21.656	8.536	27.858
H	20.705	8.617	27.786
H	21.897	9.152	28.549
O	20.104	6.795	25.015
H	20.145	6.764	24.059
H	19.476	7.492	25.204
O	21.823	4.798	23.765
H	22.025	4.211	23.036
H	21.345	5.523	23.363

O	19.611	5.653	27.727
H	19.863	6.067	26.902
H	18.656	5.606	27.69
O	16.545	12.364	33.541
H	16.979	13.211	33.433
H	16.058	12.239	32.727
O	30.367	10.927	30.614
H	30.137	11.095	29.7
H	30.953	10.171	30.578
O	17.607	15.234	36.321
H	16.795	15.74	36.301
H	18.274	15.862	36.598
O	21.627	14.793	35.471
H	20.715	14.509	35.401
H	21.725	15.062	36.384
O	22.582	8.671	21.629
H	22.293	7.763	21.724
H	23.441	8.695	22.051
O	19.672	12.13	20.083
H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	25.745	8.456	19.464
H	26.1	7.602	19.219
H	25.767	8.46	20.421
O	14.942	7.964	12.04
H	14.351	7.747	12.761
H	15.77	8.182	12.468
O	25.469	4.58	12.551
H	24.865	4.327	13.25
H	26.339	4.488	12.942
O	12.903	8.209	16.179
H	13.744	7.755	16.229
H	12.679	8.196	15.249
O	21.05	7.892	31.275
H	20.16	8.218	31.137
H	21.543	8.658	31.568
O	20.681	4.849	17.283
H	21.085	3.984	17.214
H	21.419	5.454	17.358
O	14.96	5.607	16.675
H	15.424	5.202	17.408
H	14.977	4.944	15.985
O	24.929	3.111	21.795
H	24.917	2.992	22.745
H	25.167	4.03	21.672
O	24.821	6.199	15.508
H	25.311	5.466	15.136

H	25.487	6.86	15.697
O	17.851	1.131	13.511
H	18.683	1.601	13.561
H	17.988	0.475	12.827
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
O	15.859	5.475	21.218
H	15.249	5.051	20.614
H	15.499	6.353	21.344
O	20.771	5.262	12.215
H	21.477	5.904	12.298
H	21.215	4.414	12.234
O	8.106	4.926	22.752
H	7.889	4.454	23.555
H	7.303	5.396	22.526
O	26.792	11.473	29.652
H	26.509	10.976	30.419
H	27.726	11.276	29.57
O	16.933	4.598	13.488
H	17.476	5.37	13.65
H	16.31	4.881	12.818
O	16.408	0.042	15.543
H	16.811	0.545	14.835
H	15.959	0.698	16.077
O	18.595	4.874	20.615
H	17.733	4.934	21.028
H	18.43	5.061	19.69
O	21.641	5.335	8.322
H	20.956	4.874	7.837
H	21.963	4.69	8.952
O	12.953	7.93	10.109
H	13.588	7.892	10.824
H	12.94	7.042	9.752
O	18.496	3.178	11.406
H	18.224	3.555	12.242
H	18.84	3.92	10.908
O	22.777	7.188	13.749
H	23.243	6.495	14.218
H	22.565	7.833	14.424
O	16.939	5.794	26.44
H	16.577	4.923	26.601
H	17.047	5.837	25.49
O	21.614	1.321	20.076
H	20.826	1.184	19.551
H	21.514	2.205	20.431
O	31.542	4.771	23.447

H	31.094	3.938	23.3
H	32.441	4.613	23.159
O	29.843	2.243	23.641
H	29.688	1.597	22.952
H	29.238	1.997	24.341
O	23.139	3.281	9.665
H	23.681	2.631	9.217
H	23.748	3.748	10.237
O	22.325	8.632	18.507
H	23.08	9.21	18.608
H	21.889	8.655	19.359
O	15.022	8.21	21.62
H	15.405	8.711	22.34
H	14.179	8.633	21.456
O	23.142	5.674	20.23
H	23.876	6.209	20.531
H	23.16	5.756	19.277
O	15.285	3.703	25.366
H	14.592	4.302	25.088
H	14.938	2.831	25.175
O	13.642	6.459	29.19
H	13.072	6.541	28.425
H	13.48	7.256	29.695
O	12.676	4.208	13.351
H	13.055	3.36	13.582
H	12.571	4.172	12.401
O	21.637	2.564	12.113
H	21.388	1.645	12.019
H	21.886	2.836	11.23
O	17.461	8.619	13.175
H	17.91	8.001	13.751
H	17.992	9.414	13.216
O	16.082	5.665	7.66
H	16.446	5.935	8.502
H	15.941	6.485	7.186
O	31.544	8.965	24.418
H	31.384	9.851	24.091
H	32.103	8.562	23.753
O	13.141	8.738	30.71
H	12.558	9.463	30.484
H	12.915	8.522	31.615
O	18.556	4.849	9.203
H	18.646	4.897	8.251
H	18.28	5.729	9.461
O	18.576	7.769	30.056
H	18.811	8.652	29.77
H	17.767	7.572	29.582

O	16.549	9.056	23.942
H	17.251	8.693	24.482
H	16.269	9.842	24.409
O	15.341	4.813	11.239
H	14.9	5.548	10.812
H	16.027	4.555	10.623
O	16.938	5.183	23.867
H	16.594	5.433	23.009
H	16.63	4.286	23.996
O	20.073	10.385	33.793
H	19.201	10.02	33.637
H	20.269	10.157	34.701
O	19.849	6.507	22.403
H	19.182	7.037	21.965
H	19.777	5.645	21.994
O	16.233	7.417	28.481
H	15.46	6.937	28.779
H	16.505	6.962	27.684
O	14.159	3.839	19.885
H	13.926	3.704	18.966
H	13.77	3.094	20.343
O	10.132	4.984	17.568
H	10.398	4.3	18.183
H	10.626	4.794	16.771
O	13.207	10.901	16.462
H	13.966	10.894	15.878
H	12.945	9.983	16.526
O	23.406	10.236	25.781
H	23.432	9.436	26.307
H	24.233	10.677	25.974
O	26.761	5.183	10.151
H	26.488	5.243	11.066
H	26.044	5.582	9.659
O	22.438	2.8	16.266
H	22.092	1.912	16.356
H	23.145	2.849	16.909
O	24.848	9.495	10.383
H	24.994	10.398	10.1
H	25.694	9.213	10.73
O	18.294	8.698	21.634
H	19.002	9.278	21.914
H	17.596	8.848	22.271
O	30.401	5.99	20.707
H	31.337	6.172	20.791
H	30.087	5.927	21.609
O	27.262	11.494	24.43
H	26.724	11.713	25.191

H	27.418	10.553	24.51
O	16.553	11.125	27.716
H	16.055	10.917	26.925
H	16.725	12.064	27.651
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751
O	26.295	5.941	18.23
H	25.431	5.529	18.237
H	26.908	5.213	18.332
O	17.242	11.293	18.992
H	17.164	10.418	18.613
H	16.411	11.72	18.781
O	12.88	6.997	13.606
H	11.954	7.209	13.484
H	12.911	6.041	13.588
O	19.435	3.691	24.066
H	18.86	4.443	24.203
H	20.319	4.041	24.182
O	16.393	10.343	7.185
H	15.564	10.221	7.648
H	17.052	9.971	7.771
O	15.596	3.233	15.249
H	15.054	2.598	14.781
H	15.998	3.76	14.559
O	15.731	1.372	23.561
H	15.24	0.673	23.129
H	16.422	1.598	22.938
O	26.97	8.357	5.414
H	27.478	8.981	4.896
H	26.506	8.898	6.053
O	25.578	3.142	8.252
H	26.122	3.413	8.991
H	26.148	3.237	7.488
O	11.883	15.87	9.605
H	12.188	16.476	10.28
H	11.015	16.195	9.365
O	24.408	5.797	8.197
H	24.597	4.874	8.027
H	23.453	5.857	8.155
O	26.397	5.797	5.436
H	25.455	5.768	5.602
H	26.59	6.727	5.314
O	19.994	12.734	3.459
H	19.497	12.009	3.839
H	20.241	13.274	4.21
O	10.105	6.966	13.376

H	9.583	7.713	13.084
H	9.494	6.429	13.881
O	28.455	2.576	12.437
H	29.256	2.052	12.414
H	28.719	3.397	12.852
O	13.611	12.388	5.838
H	13.832	13.156	6.364
H	12.667	12.28	5.957
O	24.303	15.474	8.769
H	24.325	16.277	8.249
H	25.183	15.403	9.137
O	10.345	24.772	26.483
H	10.794	24.263	25.808
H	11.047	25.231	26.943
O	6.743	23.957	24.422
H	7.142	23.753	25.268
H	7.408	23.714	23.778
O	8.936	31.558	24.589
H	8.915	30.649	24.291
H	9.075	31.498	25.534
O	6.107	26.506	31.078
H	6.689	27.135	31.505
H	6.663	25.746	30.903
O	8.702	28.755	24.255
H	8.471	28.172	23.532
H	8.819	28.173	25.006
O	4.606	20.151	25.387
H	5.257	20.411	26.038
H	4.765	19.218	25.248
O	5.998	26.836	27.348
H	5.629	26.154	27.91
H	6.217	26.383	26.534
O	5.076	30.227	15.164
H	4.855	30.868	15.839
H	6.024	30.118	15.237
O	10.602	31.505	19.793
H	10.867	30.812	20.398
H	11.19	31.406	19.044
O	3.632	28.521	20.494
H	3.004	29.238	20.584
H	4.204	28.792	19.776
O	15.725	32.069	14.477
H	15.909	32.881	14.949
H	14.993	32.287	13.9
O	11.233	24.062	21.261
H	10.486	23.476	21.134
H	11.931	23.493	21.584

O	9.48	27.556	15.717
H	10.067	26.861	15.418
H	9.744	27.719	16.622
O	11.536	26.417	22.465
H	10.698	26.726	22.807
H	11.308	25.667	21.915
O	7.942	27.289	21.811
H	7.106	26.846	21.668
H	7.809	28.17	21.461
O	8.065	29.45	19.317
H	8.059	30.407	19.313
H	7.166	29.204	19.098
O	12.427	28.253	11.606
H	12.447	27.435	12.103
H	13.199	28.734	11.905
O	7.57	23.724	19.557
H	6.861	23.086	19.479
H	7.503	24.255	18.763
O	5.349	29.145	18.434
H	5.198	28.382	17.877
H	4.992	29.88	17.937
O	2.42	25.93	22.193
H	3.271	26.149	21.814
H	2.52	26.11	23.128
O	14.853	24.985	32.463
H	15.796	24.817	32.475
H	14.649	25.137	31.54
O	5.186	26.955	22.474
H	4.794	27.671	21.974
H	5.111	27.232	23.387
O	9.217	30.922	16.985
H	10.12	30.695	16.763
H	9.07	30.515	17.839
O	9.281	21.829	21.265
H	8.698	22.45	20.829
H	9.496	21.187	20.588
O	10.03	27.47	19.351
H	9.481	28.238	19.507
H	9.7	26.811	19.962
O	13.439	29.575	22.515
H	14.23	29.153	22.849
H	13.406	30.417	22.97
O	5.894	28.09	12.91
H	6.124	28.955	13.251
H	5.904	28.198	11.959
O	4.404	21.97	30.287
H	5.338	22.164	30.361

H	3.989	22.826	30.181
O	9.389	9.913	29.44
H	10.315	10.145	29.37
H	8.94	10.751	29.546
O	6.125	16.796	31.663
H	6.387	16.525	32.543
H	5.205	17.044	31.753
O	7.242	22.664	30.659
H	7.301	21.799	31.065
H	7.797	23.222	31.204
O	5.568	7.496	24.794
H	6.054	7.753	24.011
H	5.149	6.668	24.556
O	10.637	25.718	34.172
H	11.256	26.152	33.585
H	11.142	25.542	34.966
O	8.322	22.971	26.654
H	7.712	23.213	27.351
H	8.996	23.651	26.679
O	4.743	11.206	29.318
H	4.246	10.418	29.537
H	4.84	11.172	28.366
O	7.694	13.829	26.977
H	6.99	13.731	26.335
H	8.345	14.375	26.537
O	7.121	15.997	28.933
H	6.785	15.262	28.42
H	6.596	15.99	29.733
O	3.119	18.475	18.734
H	3.746	17.906	18.288
H	2.54	18.786	18.038
O	8.495	8.206	19.487
H	9.292	8.272	18.961
H	8.139	7.343	19.276
O	8.48	19.274	32.209
H	7.707	19.438	32.749
H	9.123	19.915	32.51
O	6.032	20.944	32.651
H	5.35	20.305	32.448
H	5.564	21.775	32.738
O	4.097	19.322	28.952
H	4.788	19.211	28.3
H	4.032	20.269	29.074
O	7.118	8.55	22.881
H	7.965	8.684	23.306
H	7.173	9.058	22.072
O	3.798	21.594	23.096

H	3.677	20.919	22.428
H	4.474	21.241	23.674
O	8.488	24.09	33.35
H	7.829	24.419	33.961
H	9.301	24.515	33.623
O	1.708	18.856	27.048
H	1.092	18.274	27.495
H	2.199	19.273	27.756
O	19.124	16.275	29.635
H	19.402	15.702	30.349
H	19.934	16.501	29.179
O	7.147	9.499	26.21
H	6.598	8.782	25.894
H	7.238	9.336	27.149
O	4.178	18.572	31.969
H	4.452	18.81	31.083
H	3.226	18.49	31.911
O	0.543	16.788	22.555
H	0.179	17.376	23.216
H	-0.1	16.798	21.845
O	11.99	9.548	24.076
H	11.727	10.048	23.304
H	11.218	9.557	24.642
O	7.189	8.392	28.781
H	8.025	8.858	28.77
H	6.659	8.866	29.422
O	12.544	23.066	34.472
H	12.227	23.41	33.637
H	13.492	23.2	34.442
O	11.833	10.956	29.762
H	12.33	11.567	30.306
H	11.999	11.243	28.865
O	11.687	17.244	31.975
H	11.846	17.457	31.055
H	10.755	17.029	32.013
O	0.501	21.367	16.215
H	-0.249	21.63	15.683
H	0.118	21.07	17.04
O	10.627	16.069	14.79
H	10.043	16.794	15.01
H	11.485	16.478	14.678
O	7.258	25.223	17.33
H	7.475	26.051	17.759
H	6.914	25.48	16.474
O	3.771	27.314	16.874
H	3.12	27.873	16.45
H	3.268	26.572	17.21

O	2.147	23.887	12.856
H	2.515	24.767	12.931
H	1.356	23.911	13.393
O	2.333	8.525	20.951
H	2.882	9.206	20.562
H	2.071	8.884	21.799
O	7.461	13.033	12.694
H	7.663	12.851	11.777
H	7.797	12.273	13.17
O	4.969	14.157	19.343
H	5.51	14.933	19.496
H	5.238	13.844	18.479
O	-0.166	18.377	14.564
H	0.606	18.325	15.128
H	0.185	18.566	13.694
O	5.269	16.773	17.728
H	5.056	17.109	16.857
H	5.421	15.838	17.593
O	6.669	17.421	14.285
H	5.782	17.404	14.643
H	7.076	16.619	14.614
O	3.784	19.597	21.196
H	3.605	19.147	20.371
H	3.726	18.91	21.861
O	3.905	17.383	12.472
H	4.436	16.586	12.481
H	4.476	18.055	12.844
O	3.485	18.341	8.264
H	2.83	19.039	8.275
H	3.121	17.661	8.831
O	6.793	20.993	16.992
H	7.708	21.26	17.083
H	6.708	20.232	17.566
O	10.889	20.232	15.06
H	10.994	20.785	14.286
H	11.766	20.18	15.439
O	6.589	20.397	27.023
H	7.251	21.087	27.054
H	6.629	19.987	27.887
O	9.581	23.657	7.735
H	8.647	23.449	7.725
H	9.693	24.292	7.027
O	10.311	13.591	14.341
H	11.167	13.391	13.961
H	10.27	14.547	14.347
O	22.708	27.764	19.976
H	23.029	28.05	20.831

H	21.756	27.738	20.074
O	-0.206	17.112	19.964
H	-0.972	17.412	19.474
H	0.313	17.904	20.105
O	1.962	21.501	25.597
H	2.79	21.096	25.337
H	1.505	20.818	26.087
O	6.059	26.458	15.133
H	6.193	27.093	14.43
H	5.346	26.826	15.655
O	2.22	19.398	16.242
H	2.93	20.007	16.038
H	1.421	19.898	16.078
O	15.493	21.324	26.146
H	15.28	22.159	25.728
H	15.233	21.441	27.059
O	4.397	14.864	26.829
H	4.099	14.296	26.118
H	3.934	14.542	27.603
O	1.231	14.122	21.62
H	2.085	14.173	22.051
H	0.684	14.746	22.097
O	4.572	17.526	26.449
H	4.46	16.583	26.567
H	3.879	17.918	26.982
O	0.663	14.711	19.07
H	1.194	14.411	19.808
H	0.299	15.546	19.362
O	9.923	11.473	21.452
H	10.413	11.212	20.673
H	10.595	11.737	22.08
O	9.436	21.342	17.242
H	9.867	22.169	17.025
H	9.86	20.696	16.678
O	0.21	18.485	24.775
H	-0.489	19.116	24.947
H	0.771	18.534	25.549
O	0.843	21.235	22.914
H	1.288	21.945	22.451
H	1.186	21.28	23.806
O	6.216	20.945	14.084
H	5.983	20.699	14.979
H	6.268	21.9	14.103
O	12.158	18.656	26.6
H	11.225	18.793	26.439
H	12.596	19.249	25.989
O	10.421	24.811	14.196

H	10.087	25.32	13.456
H	11.367	24.955	14.177
O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492
O	4.004	23.979	24.467
H	4.953	24.109	24.476
H	3.884	23.118	24.067
O	16.458	16.79	6.819
H	16.051	17.121	6.019
H	17.349	16.558	6.557
O	8.511	15.399	24.713
H	8.957	16.163	24.349
H	7.882	15.144	24.038
O	1.333	12.491	14.201
H	0.715	11.957	13.701
H	0.791	12.943	14.847
O	8.856	11.454	17.814
H	9.752	11.453	18.151
H	8.62	12.381	17.765
O	11.364	11.877	18.304
H	11.246	12.788	18.033
H	12.181	11.607	17.884
O	2.885	21.121	13.352
H	3.436	21.175	14.133
H	2.753	22.032	13.088
O	11.853	25.183	18.281
H	11.887	24.91	19.198
H	11.671	26.122	18.318
O	3.625	24.452	29.114
H	3.218	24.258	28.27
H	3.49	25.392	29.234
O	6.652	23.165	7.563
H	5.94	23.625	7.117
H	6.424	22.239	7.486
O	6.307	20.313	6.796
H	5.732	20.347	7.561
H	7.167	20.091	7.153
O	5.727	16.408	23.623
H	4.838	16.737	23.752
H	6.176	16.598	24.447
O	2.533	16.056	10.036
H	2.797	16.626	10.757
H	2.542	15.175	10.411
O	5.582	11.634	25.208
H	5.295	11.249	24.379
H	6.379	11.152	25.432

O	8.719	11.419	14.191
H	8.544	10.991	15.029
H	9.495	11.956	14.354
O	6.273	23.876	28.295
H	5.336	24.071	28.309
H	6.473	23.596	29.188
O	7.502	15.379	6.721
H	7.356	16.087	6.093
H	8.428	15.158	6.621
O	6.503	23.859	13.896
H	7.332	23.712	14.352
H	6.243	24.744	14.152
O	13.069	12.808	13.633
H	13.689	12.119	13.395
H	13.468	13.241	14.388
O	6.632	18.898	19.134
H	6.882	18.464	19.949
H	6.162	18.226	18.64
O	4.124	21.273	16.129
H	3.35	21.534	16.628
H	4.86	21.629	16.627
O	10.827	15.006	21.802
H	11.27	15.512	21.121
H	10.502	15.664	22.417
O	11.4	11.911	26.723
H	12.157	12.312	27.149
H	11.041	12.605	26.17
O	3.261	17.644	23.186
H	2.591	17.011	22.925
H	2.892	18.08	23.954
O	8.779	9.041	16.468
H	9.601	8.686	16.807
H	8.641	9.844	16.97
O	11.083	14.387	17.521
H	10.829	15.24	17.873
H	11.042	14.498	16.572
O	5.413	14.961	12.896
H	5.8	14.634	12.084
H	6.119	15.452	13.317
O	13.664	10.862	21.141
H	13.498	10.818	20.199
H	13.795	11.794	21.317
O	8.069	13.676	10.149
H	7.756	14.578	10.086
H	8.456	13.497	9.292
O	10.412	23.596	16.652
H	10.728	24.219	17.306

H	10.385	24.097	15.837
O	7.234	18.164	22.144
H	7.628	18.837	22.698
H	6.779	17.586	22.756
O	3.627	10.43	19.518
H	4.527	10.501	19.2
H	3.137	11.062	18.991
O	2.237	25.187	17.955
H	2.404	24.257	18.109
H	1.633	25.202	17.212
O	5.534	13.837	16.786
H	6.369	13.912	16.323
H	4.893	13.663	16.096
O	5.395	8.355	14.092
H	5.816	8.521	13.249
H	5.609	9.123	14.622
O	3.976	13.497	14.707
H	4.316	14.117	14.062
H	3.096	13.285	14.395
O	9.675	23.694	10.775
H	9.012	23.8	10.092
H	9.783	24.572	11.142
O	5.391	21.911	19.72
H	5.166	21.406	20.501
H	5.839	21.286	19.15
O	12.569	24.472	7.065
H	12.548	24.004	6.23
H	12.711	25.387	6.823
O	14.777	24.405	4.634
H	14.044	25.004	4.5
H	14.368	23.581	4.9
O	12.741	18.302	11.121
H	11.822	18.561	11.053
H	13.228	19.063	10.804
O	7.156	17.716	5.352
H	6.524	18.238	5.846
H	7.011	17.965	4.439
O	1.5	18.804	12.493
H	2.136	18.091	12.448
H	2.028	19.587	12.65
O	5.821	22.106	11.546
H	6.054	21.497	12.247
H	5.888	22.972	11.949
O	5.855	18.556	9.479
H	5.073	18.545	8.927
H	5.735	19.315	10.049
O	2.897	22.367	18.607

H	2.381	22.61	19.376
H	3.805	22.41	18.905
O	6.791	10.488	31.169
H	6.071	10.783	30.612
H	7.44	11.19	31.115
O	1.257	12.786	25.718
H	1.65	12.075	26.224
H	2.003	13.281	25.38
O	9.658	11.537	32.303
H	9.931	12.423	32.541
H	10.377	11.199	31.77
O	12.931	3.273	17.436
H	12.703	3.692	16.607
H	12.125	3.307	17.951
O	7.251	6.844	15.615
H	6.588	7.247	15.053
H	7.767	7.581	15.942
O	2.558	12.333	18.335
H	3.227	13.006	18.461
H	1.729	12.788	18.484
O	0.115	11.654	20.84
H	0.054	11.458	21.775
H	0.577	12.492	20.801
O	4.807	11.141	12.472
H	5.275	11.949	12.681
H	5.358	10.445	12.831
O	5.73	5.914	22.26
H	4.929	5.588	21.849
H	5.814	6.812	21.941
O	6.717	9.08	11.526
H	7.552	9.269	11.955
H	6.757	9.563	10.701
O	8.687	16.129	12.3
H	8.632	16.325	11.364
H	8.437	15.207	12.366
O	10.657	7.817	17.783
H	10.612	6.874	17.626
H	11.563	8.05	17.581
O	4.919	11.137	22.608
H	5.588	10.882	21.972
H	4.279	11.632	22.097
O	3.479	13.834	29.747
H	3.124	13.02	30.104
H	2.83	14.499	29.977
O	14.027	13.954	10.726
H	13.286	14.48	10.426
H	13.64	13.308	11.316

O	4.941	10.54	15.659
H	4.883	10.595	16.613
H	4.572	11.367	15.349
O	6.883	16.082	9.474
H	6.474	16.936	9.614
H	6.708	15.881	8.554
O	6.333	11.028	9.802
H	5.588	11.333	9.284
H	6.387	11.646	10.53

Table S20. PYP chromophore + 994 waters

Method	Time(s)	iterations	E(eV)	f
CIS	5644.3	12	3.65	1.6
TD-BLYP	-	-	-	-
TD-B3LYP	-	-	-	-

C	22.967	16.81	19.507
C	24.27	16.774	18.931
C	24.617	15.671	18.139
C	23.681	14.66	17.949
C	22.419	14.608	18.558
C	22.092	15.731	19.368
S	22.3	18.226	20.373
C	21.107	18.737	19.24
C	19.881	18.611	19.724
O	21.503	18.978	18.056
C	18.678	18.857	18.895
C	17.412	18.7	19.379
C	16.267	18.768	18.424
C	15.007	18.753	18.949
C	14.627	18.622	20.339
C	15.744	18.498	21.241
C	17.075	18.511	20.793
O	13.416	18.649	20.62
H	25.016	17.532	19.156
H	25.561	15.727	17.603
H	23.959	13.891	17.234
H	21.774	13.742	18.433
H	21.138	15.665	19.885
H	19.762	18.159	20.708
H	18.901	19.227	17.895
H	16.528	18.974	17.391
H	14.139	18.825	18.303
H	15.6	18.345	22.305
H	17.886	18.502	21.514
O	29.51	28.373	25.52
H	29.611	29.237	25.919
H	30.004	27.785	26.093
O	34.175	30.912	21.616
H	33.77	30.855	22.481
H	34.654	30.089	21.52
O	29.914	28.662	20.051
H	28.96	28.597	20.094
H	30.203	28.55	20.956
O	28.022	19.477	33.619
H	28.041	19.045	32.765
H	27.758	18.789	34.229

O	24.698	32.706	19.971
H	25.394	32.886	19.339
H	24.901	33.269	20.718
O	33.619	26.143	13.581
H	34.206	26.555	14.215
H	33.074	25.557	14.105
O	32.378	31.752	19.335
H	32.861	31.555	20.137
H	31.791	31.005	19.218
O	27.137	33.14	24.563
H	26.657	32.856	25.341
H	27.332	32.33	24.093
O	37.086	24.833	16.188
H	36.76	24.222	15.527
H	36.637	25.656	15.995
O	32.239	30.064	12.475
H	32.152	29.173	12.138
H	33.078	30.066	12.935
O	35.36	27.523	15.628
H	34.791	27.638	16.389
H	35.762	28.383	15.497
O	35.282	28.206	21.415
H	34.436	27.915	21.756
H	35.828	27.42	21.425
O	29.182	25.39	22.779
H	29.281	25.376	23.731
H	28.342	25.825	22.632
O	27.666	29.01	16.826
H	26.744	28.833	17.014
H	28.124	28.779	17.634
O	29.551	22.926	11.032
H	30.104	23.7	10.923
H	29.77	22.597	11.904
O	25.88	25.718	28.046
H	25.602	26.061	28.895
H	25.875	24.767	28.158
O	33.894	22.795	16.377
H	34.33	22.95	17.215
H	33.272	22.09	16.558
O	37.325	27.605	24.712
H	37.467	28.134	23.926
H	38.164	27.17	24.862
O	30.112	21.211	18.047
H	30.308	22.125	18.252
H	29.292	21.246	17.554
O	38.121	27.039	19.854
H	38.406	26.504	19.113

H	38.841	26.981	20.482
O	20.126	33.539	20.94
H	19.734	34.225	21.481
H	20.662	34.013	20.304
O	19.885	32.771	12.143
H	20.771	32.669	11.795
H	19.349	32.984	11.379
O	29.311	29.116	11.863
H	29.862	29.614	12.467
H	29.085	28.321	12.346
O	30.508	30.914	26.443
H	30.433	31.861	26.56
H	31.416	30.716	26.673
O	32.416	27.988	8.365
H	32.494	27.804	9.301
H	31.775	28.696	8.313
O	33.21	27.724	10.993
H	33.281	27.022	11.639
H	34.102	27.84	10.666
O	32.027	24.623	10.821
H	32.335	24.527	11.722
H	32.71	24.214	10.289
O	22.739	27.389	5.844
H	22.093	26.689	5.936
H	23.584	26.939	5.866
O	30.25	23.229	6.634
H	30.147	24.042	7.129
H	29.37	22.856	6.598
O	24.075	15.499	29.422
H	24.789	14.887	29.603
H	23.281	15.008	29.631
O	25.931	16.537	32.89
H	26.584	16.212	33.509
H	25.185	15.946	32.996
O	32.393	16.843	31.041
H	31.962	16.242	31.649
H	33.317	16.817	31.293
O	26.423	14.107	29.296
H	26.561	13.165	29.395
H	26.809	14.318	28.445
O	27.383	22.332	28.542
H	28.134	22.88	28.772
H	27.568	21.487	28.951
O	21.777	5.504	33.359
H	20.978	5.576	32.837
H	22.363	6.166	32.991
O	30.787	18.473	34.319

H	29.842	18.601	34.246
H	31.122	18.657	33.442
O	25.825	17.56	30.061
H	25.435	16.932	29.452
H	25.968	17.058	30.863
O	28.391	13.11	22.223
H	29.252	12.971	21.829
H	28.33	12.444	22.907
O	33.392	6.348	28.842
H	33.184	7.281	28.789
H	33.816	6.244	29.693
O	32.048	27.128	24.603
H	32.977	27.306	24.748
H	31.858	26.375	25.162
O	30.871	21.739	29.017
H	31.739	21.702	29.418
H	30.266	21.566	29.739
O	29.874	10.396	28.124
H	29.975	11.045	27.428
H	30.526	9.725	27.923
O	32.624	27.208	28.824
H	32.604	28.064	28.395
H	31.712	26.917	28.82
O	31.475	22.004	26.329
H	31.137	21.63	27.143
H	31.181	21.401	25.647
O	32.047	19.635	31.966
H	31.894	18.846	31.447
H	32.999	19.734	31.977
O	38.553	23.44	20.941
H	37.923	24.02	20.513
H	38.935	23.973	21.638
O	29.037	17.929	31.606
H	28.779	17.008	31.567
H	28.694	18.308	30.797
O	34.454	8.83	23.885
H	34.391	8.547	22.973
H	34.633	9.769	23.833
O	31.852	17.267	28.442
H	32.534	17.817	28.058
H	32.119	17.156	29.355
O	26.232	18.236	35.487
H	25.853	17.395	35.744
H	25.615	18.591	34.848
O	35.835	11.509	27.426
H	34.934	11.824	27.351
H	35.947	10.922	26.678

O	29.307	17.709	27.704
H	30.224	17.766	27.973
H	29.295	18.067	26.817
O	32.759	25.507	32.009
H	32.321	26.357	31.964
H	32.617	25.118	31.146
O	33.497	14.65	32.473
H	32.661	14.185	32.436
H	33.904	14.349	33.285
O	32.147	12.024	32.525
H	31.734	11.406	31.922
H	31.809	11.779	33.387
O	34.618	25.542	27.636
H	33.93	25.98	28.137
H	34.407	25.733	26.722
O	33.709	17.406	9.427
H	34.618	17.29	9.703
H	33.76	17.531	8.48
O	24.938	16.847	11.925
H	24.601	17.235	12.732
H	25.689	16.325	12.206
O	32.469	14.752	21.385
H	33.348	14.759	21.766
H	32.195	13.836	21.431
O	30.816	19.132	13.418
H	30.974	18.346	13.94
H	31.54	19.153	12.792
O	30.284	15.257	11.884
H	31.234	15.279	11.994
H	30.077	14.33	11.768
O	36.186	20.699	18.464
H	36.55	20.393	19.295
H	35.267	20.432	18.492
O	32.263	11.353	17.063
H	32.41	10.514	17.499
H	31.311	11.441	17.027
O	33.28	18.588	15.193
H	33.815	17.822	15.401
H	32.532	18.235	14.713
O	33.563	9.022	21.216
H	34.106	9.499	20.588
H	32.971	8.501	20.675
O	26.315	12.269	19.428
H	25.586	12.142	20.035
H	26.005	11.901	18.601
O	24.721	18.014	7.559
H	23.933	18.514	7.772

H	25.27	18.627	7.07
O	29.689	10.354	19.041
H	30.009	9.628	18.504
H	28.925	10.684	18.568
O	31.465	16.672	14.469
H	32.168	16.029	14.378
H	30.721	16.168	14.799
O	34.923	10.571	19.564
H	35.348	10.322	18.743
H	35.619	10.977	20.08
O	38.527	15.458	13.427
H	37.971	14.933	14.002
H	38.738	14.874	12.699
O	30.751	18.966	19.536
H	30.85	19.768	19.022
H	29.824	18.742	19.454
O	35.482	20.719	24.898
H	35.54	21.194	24.069
H	34.566	20.446	24.954
O	21.624	17.545	15.698
H	21.844	17.862	16.574
H	21.068	18.23	15.328
O	27.301	20.143	19.909
H	26.457	20.142	19.458
H	27.68	19.287	19.713
O	28.39	27.497	9.419
H	28.841	28.199	9.888
H	28.061	26.921	10.11
O	26.468	33.423	17.932
H	26.732	33.604	17.03
H	26.448	34.282	18.353
O	30.133	25.377	8.495
H	30.881	25.33	9.09
H	29.936	26.312	8.431
O	32.002	10.998	22.33
H	32.425	10.517	21.619
H	31.574	11.737	21.899
O	39.57	8.44	16.595
H	40.015	9.205	16.232
H	39.425	7.867	15.842
O	29.855	14.696	24.663
H	29.947	14.331	23.783
H	29.069	15.241	24.615
O	31.889	16.56	19.452
H	32.012	16.092	20.278
H	31.432	17.364	19.699
O	27.763	8.742	24.655

H	27.349	7.971	25.04
H	28.329	8.392	23.967
O	34.644	10.558	9.453
H	35.402	10.214	8.98
H	33.93	9.961	9.231
O	37.732	9.429	18.503
H	38.216	9.367	19.327
H	38.329	9.07	17.847
O	30.544	12.556	20.427
H	30.218	11.819	19.909
H	30.792	13.214	19.777
O	34.526	20.736	7.123
H	34.765	21.156	6.297
H	33.854	20.098	6.882
O	32.612	20.608	17.136
H	31.709	20.388	17.362
H	32.89	19.906	16.547
O	28.345	21.116	22.423
H	29.083	21.585	22.033
H	27.883	20.733	21.678
O	37.856	19.551	20.509
H	37.953	19.844	21.415
H	38.75	19.529	20.167
O	28.626	7.578	18.14
H	29.131	7.399	18.934
H	27.944	6.906	18.134
O	34.025	19.389	20.825
H	33.18	19.249	21.253
H	33.999	18.825	20.053
O	24.737	20.209	19.019
H	24.671	20.885	18.345
H	23.926	19.706	18.934
O	24.407	14.872	14.057
H	23.679	14.548	14.587
H	24.691	15.67	14.502
O	27.84	14.376	19.85
H	27.952	14.292	20.797
H	27.401	13.566	19.588
O	29.304	15.125	15.496
H	29.712	15.071	16.36
H	28.974	14.241	15.332
O	30.935	23.768	18.813
H	31.045	24.586	19.299
H	31.712	23.253	19.032
O	22.565	11.422	7.263
H	21.77	10.969	6.982
H	23.22	10.729	7.341

O	33.966	14.561	9.506
H	33.515	15.401	9.592
H	34.874	14.796	9.311
O	30.88	7.56	16.768
H	29.99	7.73	17.076
H	30.996	6.616	16.879
O	29.02	27.364	13.686
H	29.65	27.404	14.405
H	28.385	26.702	13.96
O	33.543	13.762	29.261
H	33.839	14.591	29.636
H	33.78	13.104	29.915
O	30.268	23.047	21.979
H	31.187	23.245	21.797
H	29.889	23.888	22.238
O	37.26	17.031	28.555
H	36.942	16.299	28.026
H	36.467	17.49	28.831
O	27.648	21.192	16.796
H	27.35	20.499	16.206
H	26.861	21.705	16.979
O	29.094	23.158	15.712
H	28.684	22.32	15.928
H	29.846	22.923	15.168
O	34.864	20.878	14.109
H	35.24	20.289	13.454
H	34.281	20.321	14.625
O	33.093	26.646	22.107
H	32.438	26.688	22.803
H	33.395	25.738	22.117
O	35.958	10.673	13.915
H	35.175	10.32	13.493
H	35.815	10.525	14.85
O	32.982	14.146	13.03
H	33.495	13.501	12.543
H	33.138	13.931	13.95
O	29.29	12.914	5.866
H	28.755	13.501	5.332
H	29.356	13.355	6.713
O	27.587	22.533	6.576
H	27.384	22.656	7.503
H	26.773	22.205	6.193
O	35.239	24.226	22.752
H	35.057	23.301	22.584
H	35.71	24.522	21.974
O	35.225	21.368	9.799
H	34.727	22.182	9.874

H	34.904	20.965	8.992
O	24.198	19.84	23.687
H	24.475	20.696	23.361
H	23.265	19.795	23.477
O	35.223	17.396	7.188
H	35.424	16.46	7.207
H	35.023	17.579	6.27
O	34.688	19.884	31.798
H	35.036	19.186	32.353
H	35.224	19.85	31.006
O	27.776	19.346	29.523
H	28.367	18.91	28.909
H	27.057	18.725	29.643
O	31.049	20.49	23.466
H	31.305	20.855	22.619
H	30.106	20.348	23.391
O	40.878	17.404	15.312
H	40.335	18.129	15.623
H	40.377	17.022	14.591
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H	36.008	24.584	19.552
H	36.629	25.806	20.193
O	33.02	19.355	24.959
H	32.359	19.651	24.333
H	32.922	18.403	24.978
O	35.863	19.669	11.703
H	35.851	20.058	10.828
H	36.775	19.412	11.839
O	34.337	17.381	18.699
H	33.413	17.138	18.745
H	34.589	17.193	17.794
O	37.085	11.712	11.01
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H	36.145	11.709	11.19
O	23.676	30.073	25.75
H	23.953	29.785	26.619
H	24.338	29.716	25.157
O	36.349	14.37	16.428
H	35.776	13.647	16.683
H	36.874	14.547	17.209
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H	30.14	25.942	20.994
H	30.563	27.043	20.045
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H	29.024	24.584	16.759
H	28.96	24.832	18.25
O	27.561	17.119	16.412

H	27.549	17.874	15.824
H	28.209	16.527	16.028
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H	29.239	14.89	30.291
H	27.726	14.937	30.321
O	25.055	10.896	15.923
H	24.361	10.877	15.264
H	25.56	10.099	15.762
O	27.663	15.508	12.777
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H	27.845	15.681	13.701
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H	31.623	6.611	8.355
H	32.166	5.207	8.194
O	26.642	8.919	16.155
H	27.111	8.832	15.325
H	27.2	8.476	16.794
O	34.7	8.647	26.694
H	34.791	8.629	25.741
H	34.874	7.746	26.968
O	30.043	28.447	22.688
H	30.94	28.47	23.023
H	29.544	28	23.371
O	32.886	23.254	20.961
H	33.701	22.752	20.958
H	33.126	24.103	20.589
O	30.396	12.661	26.533
H	29.905	13.14	27.202
H	30.326	13.206	25.749
O	33.891	19.05	27.854
H	33.348	19.395	27.144
H	34.755	19.431	27.701
O	35.148	22.79	28.574
H	35.829	23.243	29.072
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H	29.895	26.477	16.832
H	31.257	26.616	16.186
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H	28.1	30.695	22.815
H	29.402	30.115	22.306
O	22.286	8.889	11.272
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H	22.562	8.394	12.043
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H	35.407	15.772	16.167
H	35.513	16.901	15.163

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H	25.545	10.472	7.333
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H	33.626	8.682	13.292
H	34.185	8.293	11.941
O	36.64	14.614	27.231
H	37.4	14.199	26.823
H	36.183	13.897	27.67
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H	32.791	25.655	17.352
H	33.049	24.612	16.286
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H	29.071	19.975	6.976
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H	30.093	18.418	1.559
H	31.096	17.453	2.155
O	27.272	23.704	9.485
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H	33.294	22.817	14.555
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H	33.956	19.326	11.886
H	33.051	18.7	10.847
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H	28.608	12.477	2.01
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H	33.436	13.551	8.085
H	32.489	14.099	7.04
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H	31.237	16.239	7.387
H	30.501	14.916	7.417
O	28.183	20.556	11.69
H	27.261	20.81	11.729

H	28.556	21.113	11.007
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H	27.476	19.592	14.11
H	28.984	19.585	14.233
O	36.55	14.959	8.939
H	36.879	14.234	8.408
H	37.281	15.576	8.982
O	37.462	12.96	6.805
H	36.636	12.624	6.459
H	37.694	13.679	6.217
O	36.976	19.434	7.881
H	36.636	18.56	7.691
H	36.277	20.028	7.608
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H	35.999	24.911	10.921
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H	27.47	18.59	4.382
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O	27.268	11.411	1.54
H	26.413	11.828	1.649
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O	33.348	23.688	8.391
H	33.433	22.882	7.882
H	32.477	24.019	8.171
O	29.221	6.522	10.379
H	28.456	5.947	10.342
H	29.57	6.513	9.487
O	33.971	12.512	11.025
H	34.129	13.342	10.575
H	34.285	11.845	10.414
O	24.271	2.462	24.324
H	24.276	2.433	25.281
H	23.367	2.68	24.096
O	34.394	11.785	30.888
H	34.462	10.834	30.8
H	33.854	11.915	31.668
O	33.118	5.384	21.004
H	33.837	5.702	20.458
H	33.437	5.483	21.901
O	34.115	11.559	24.22
H	33.339	11.165	23.821
H	33.861	11.723	25.128
O	29.064	5.922	23.31

H	29.919	5.734	23.696
H	28.435	5.683	23.992
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H	28.47	5.873	26.541
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O	26.832	5.189	21.622
H	27.252	5.047	20.773
H	27.56	5.309	22.232
O	27.915	9.266	11.271
H	28.66	9.642	10.801
H	28.008	8.321	11.15
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H	31.279	2.701	9.561
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H	36.156	2.247	16.823
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H	34.438	2.017	18.6
H	33.083	2.656	18.382
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H	30.115	5.18	14.559
H	29.462	5.24	13.195
O	31.206	3.357	19.326
H	31.592	3.95	19.971
H	31.079	2.536	19.801
O	34.216	13.143	17.637
H	33.781	13.513	18.405
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H	24.638	1.789	20.853
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H	37.085	8.591	11.459
H	35.918	8.519	12.419
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H	27.829	4.556	15.306
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H	33.169	8.202	7.777

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H	34.378	5.302	16.235
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H	31.486	7.19	12.393
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H	31.863	7.787	15.501
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H	27.747	1.122	16.791
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H	30.44	6.318	27.816
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O	36.165	3.679	19.751
H	35.837	3.062	20.405
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H	32.308	5.65	10.547
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H	25.206	7.892	23.016
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H	35.57	4.105	12.072
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H	29.872	7.646	7.079
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O	29.103	6.897	3.001
H	29.072	5.973	2.754
H	29.248	6.888	3.947
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H	34.056	15.852	2.475
H	32.941	16.326	3.382
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H	26.922	27.468	22.002
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H	12.133	18.575	33.07
H	11.785	19.962	33.566
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H	20.982	24.095	27.759
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H	22.43	31.33	13.612
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H	28.908	28.701	29.29
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H	18.417	32.355	18.463
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H	16.148	33.762	27.122
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H	11.366	31.825	11.231
H	10.381	32.847	11.756
O	18.578	33.208	26.823
H	18.229	32.32	26.889
H	19.453	33.151	27.207
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H	20.998	27.406	25.18
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O	8.368	24.538	22.244
H	8.26	25.485	22.33
H	8.09	24.345	21.349
O	28.948	33.425	20.817
H	29.123	32.657	21.361
H	28.624	34.084	21.43
O	5.765	27.763	9.94
H	6.481	28.139	9.428
H	5.195	27.352	9.289
O	14.801	26.026	20.08

H	15.168	25.155	19.923
H	14.58	26.028	21.011
O	11.302	33.766	26.54
H	11.901	34.38	26.116
H	11.784	33.449	27.303
O	19.937	34.792	13.778
H	19.457	34.763	14.606
H	19.839	33.912	13.414
O	11.605	29.867	17.285
H	11.941	29.176	17.856
H	12.281	29.973	16.615
O	11.77	26.697	27.758
H	12.281	27.238	28.36
H	10.88	27.045	27.821
O	16.841	21.428	19.485
H	17.664	21.307	19.96
H	16.432	20.562	19.491
O	18.218	30.917	13.635
H	19.02	31.44	13.633
H	17.531	31.533	13.89
O	19.683	31.273	19.221
H	20.549	31.558	19.514
H	19.263	30.935	20.012
O	26.17	30.821	28.221
H	25.545	30.107	28.09
H	26.487	30.7	29.116
O	23.848	33.568	16.213
H	23.958	34.397	16.679
H	22.989	33.639	15.797
O	12.027	31.117	27.063
H	11.365	31.8	27.175
H	11.555	30.392	26.654
O	16.147	31.036	24.68
H	15.607	30.323	25.021
H	16.072	31.728	25.337
O	15.518	30.124	19.132
H	15.1	30.613	19.841
H	16.381	29.894	19.476
O	12.982	31.74	23.971
H	13.642	32.434	23.982
H	12.747	31.618	24.891
O	13.476	32.892	28.671
H	14.137	33.184	28.043
H	13.288	31.989	28.419
O	19.378	30.867	7.466
H	19.331	29.949	7.2
H	20.286	31.119	7.301

O	14.1	25.544	16.465
H	14.254	26.406	16.851
H	13.352	25.195	16.95
O	22.678	29.625	16.507
H	23.225	30.276	16.946
H	22.985	28.785	16.848
O	19.204	28.066	13.227
H	19.892	28.232	12.582
H	18.729	28.895	13.289
O	7.314	30.539	12.014
H	7.302	31.433	11.672
H	8.18	30.205	11.78
O	26.659	25.853	7.926
H	27.319	26.349	8.411
H	26.742	24.958	8.256
O	25.07	33.118	26.888
H	25.665	32.455	27.24
H	25.099	33.829	27.528
O	33.337	30.816	24.096
H	33.522	30.823	25.035
H	32.532	31.326	24.007
O	9.629	31.078	9.123
H	9.467	30.705	9.99
H	10.53	31.4	9.165
O	22.684	32.621	25.692
H	22.94	31.699	25.689
H	23.347	33.052	26.232
O	15.718	25.165	8.299
H	16.584	24.811	8.1
H	15.678	25.178	9.255
O	11.17	29.151	21.291
H	12.004	29.4	21.69
H	11.226	28.201	21.193
O	33.37	25.639	19.299
H	32.733	25.983	19.926
H	34.157	26.164	19.446
O	27.048	30.86	11.619
H	26.8	30.85	12.543
H	27.668	30.136	11.529
O	16.267	28.198	26.672
H	16.151	27.332	26.281
H	15.448	28.656	26.485
O	25.075	27.949	24.701
H	25.929	27.518	24.754
H	24.626	27.503	23.984
O	19.353	30.071	21.619
H	18.914	29.509	22.257

H	20.133	30.387	22.075
O	10.628	21.988	23.73
H	11.119	22.808	23.678
H	10.072	21.992	22.95
O	27.111	28.882	20.581
H	26.437	28.446	20.06
H	27.194	29.751	20.189
O	24.864	28.34	27.769
H	24.911	28.056	26.856
H	24.993	27.538	28.276
O	20.749	31.69	23.145
H	20.137	31.867	23.859
H	20.467	32.272	22.439
O	28.908	33.661	16.238
H	29.255	34.035	17.047
H	29.561	33.882	15.573
O	26.818	26.169	11.249
H	27.134	26.174	12.152
H	25.937	26.54	11.3
O	9.952	29.522	11.572
H	10.733	28.969	11.58
H	10.217	30.318	12.033
O	26.258	25.458	17.288
H	27.206	25.532	17.392
H	26.119	25.466	16.341
O	27.754	31.248	14.701
H	28.2	30.494	15.088
H	28.211	32.008	15.062
O	14.62	29.462	12.835
H	14.506	29.02	13.676
H	15.562	29.427	12.671
O	11.198	28.961	25.719
H	10.812	28.193	26.141
H	10.637	29.124	24.961
O	17.29	27.644	20.529
H	17.728	27.128	21.207
H	16.63	27.052	20.168
O	9.673	27.338	8.737
H	9.208	28.142	8.968
H	9.243	27.033	7.938
O	17.386	22.204	3.892
H	16.485	21.885	3.843
H	17.73	21.825	4.701
O	19.786	28.492	6.317
H	20.009	28.509	5.387
H	19.082	27.846	6.383
O	7.534	26.079	5.877

H	8.409	25.747	5.677
H	6.944	25.525	5.366
O	17.153	30.287	9.094
H	18.033	30.583	8.857
H	16.612	30.518	8.34
O	29.235	27.705	5.897
H	29.893	27.107	5.541
H	28.707	27.959	5.14
O	15.066	31.205	7.392
H	14.184	31.451	7.111
H	15.639	31.845	6.971
O	24.095	32.693	12.689
H	24.197	33.57	13.059
H	24.397	32.104	13.38
O	15.103	31.043	10.626
H	15.695	30.398	10.24
H	15.009	30.766	11.537
O	25.258	32.449	10.257
H	24.789	32.356	11.086
H	26.057	31.935	10.375
O	13.392	29.186	4.809
H	12.516	29.09	4.437
H	13.924	29.519	4.086
O	26.075	28.483	6.74
H	26.619	28.393	5.958
H	26.164	27.643	7.191
O	20.817	29.522	11.52
H	21.724	29.388	11.794
H	20.821	30.376	11.088
O	20.925	27.96	8.713
H	20.995	28.704	9.311
H	20.462	28.309	7.951
O	20.656	25.108	5.925
H	19.745	25.334	6.111
H	20.606	24.507	5.182
O	14.253	26.808	7.076
H	14.676	26.092	7.549
H	14.122	27.488	7.737
O	16.955	15.331	32.7
H	16.55	15.37	33.566
H	16.453	15.951	32.171
O	21.44	22.08	30.761
H	22.317	22.004	30.384
H	21.373	21.338	31.362
O	12.756	16.479	24.912
H	13.482	16.7	25.496
H	12.671	17.239	24.337

O	16.042	14.118	27.054
H	15.404	14.757	26.737
H	16.134	14.312	27.986
O	22.676	17.042	33.605
H	23.063	16.219	33.905
H	21.794	17.042	33.976
O	4.385	14.355	22.132
H	4.404	14.303	21.176
H	5.022	15.036	22.348
O	26.962	21.825	33.666
H	26.371	21.81	32.913
H	27.319	20.938	33.708
O	16.029	25.333	26.761
H	16.951	25.579	26.679
H	15.939	25.037	27.667
O	11.873	17.622	29.258
H	11.424	17.928	28.469
H	12.778	17.482	28.979
O	12.847	15.651	36.472
H	11.986	15.24	36.541
H	12.659	16.579	36.328
O	23.729	23.294	23.224
H	24.058	24.189	23.134
H	24.062	22.838	22.451
O	19.392	20.508	33.059
H	19.681	19.86	32.416
H	20.188	20.746	33.533
O	33.331	12.525	26.742
H	33.384	13.096	27.509
H	32.414	12.57	26.472
O	14.938	14.961	34.797
H	14.775	14.024	34.687
H	14.259	15.252	35.406
O	10.502	21.215	32.977
H	10.478	21.586	33.858
H	11.075	21.803	32.484
O	13.661	22.759	38.431
H	13.072	22.497	39.139
H	14.536	22.704	38.815
O	21.786	24.636	30.15
H	22.028	23.795	30.538
H	22.583	24.936	29.713
O	19.4	13.241	34.309
H	19.748	12.462	33.876
H	18.695	12.911	34.866
O	15.76	9.473	30.393
H	14.834	9.234	30.432

H	15.937	9.596	29.461
O	19.217	23.957	31.127
H	20.148	24.159	31.03
H	19.154	23.022	30.934
O	19.267	10.349	29.028
H	18.369	10.678	28.982
H	19.722	10.973	29.593
O	26.109	6.756	33.276
H	26.062	5.831	33.036
H	26.995	7.023	33.031
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H	-0.336	10.629	17.586
H	-1.512	11.524	17.257
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H	16.358	20.609	31.071
H	17.16	20.758	29.797
O	6.936	13.286	35.968
H	6.377	12.562	36.25
H	7.382	12.954	35.188
O	6.095	13.607	30.531
H	5.914	14.046	31.362
H	5.245	13.568	30.091
O	21.717	19.25	31.351
H	22.221	19.013	30.573
H	21.531	18.414	31.779
O	13.236	26.962	33.362
H	13.729	27.188	34.15
H	13.65	26.161	33.042
O	21.773	16.589	28.207
H	21.965	16.894	27.32
H	22.616	16.28	28.541
O	30.768	14.722	29.267
H	30.961	15.589	28.908
H	31.615	14.279	29.291
O	25.178	27.253	30.538
H	26.098	27.493	30.65
H	24.755	28.057	30.237
O	19.91	17.365	34.391
H	19.781	16.988	35.261
H	19.934	18.31	34.541
O	7.472	18.784	29.415
H	6.896	18.049	29.205
H	7.735	18.631	30.322
O	13.558	25.662	30.212
H	13.476	26.59	30.432
H	13.048	25.56	29.408
O	19.811	22.199	24.228

H	20.647	22.43	24.631
H	19.187	22.198	24.953
O	17.502	30.752	31.905
H	18.429	30.694	31.675
H	17.477	30.573	32.845
O	27.923	8.658	28.649
H	28.431	9.442	28.441
H	28.362	7.955	28.171
O	22.458	17.144	25.325
H	22.54	16.622	24.528
H	23.125	17.825	25.235
O	12.872	12.642	31.282
H	13.08	12.215	32.114
H	12.789	13.569	31.504
O	28.235	15.187	27.246
H	28.641	15.958	27.641
H	28.357	15.307	26.304
O	21.999	28.447	22.887
H	21.135	28.619	23.261
H	22.272	29.286	22.517
O	11.937	14.865	28.668
H	11.386	14.863	27.885
H	11.646	15.632	29.162
O	20.122	14.863	32.256
H	19.815	15.711	32.578
H	20.11	14.296	33.026
O	12.206	23.256	31.77
H	13.122	23.494	31.626
H	11.757	23.541	30.974
O	22.3	19.161	36.735
H	22.223	18.218	36.591
H	22.063	19.283	37.655
O	10.115	20.572	28.846
H	9.487	20.234	29.485
H	10.295	19.828	28.271
O	7.324	21.93	35.025
H	8.244	22.189	35.089
H	7.107	22.044	34.1
O	10.232	22.241	35.53
H	10.897	22.868	35.243
H	10.598	21.85	36.323
O	21.743	21.82	27.681
H	22.61	21.852	27.276
H	21.234	21.243	27.112
O	22.652	31.751	28.815
H	23.488	32.183	28.643
H	22.008	32.459	28.798

O	14.851	23.762	24.915
H	15.36	24.056	24.159
H	15.232	24.231	25.657
O	17.235	13.891	29.551
H	16.489	13.548	30.042
H	17.465	14.704	30
O	14.422	19.455	37.505
H	14.335	20.392	37.682
H	13.526	19.158	37.342
O	12.496	18.392	23.093
H	12.583	19.222	23.562
H	12.739	18.6	22.191
O	13.511	21.266	28.659
H	12.659	21.659	28.471
H	13.674	21.478	29.579
O	19.58	12.408	31.127
H	19.432	13.285	31.481
H	19.842	11.885	31.885
O	9.923	17.477	27.295
H	9.111	17.051	27.568
H	10.363	16.827	26.747
O	18.347	8.686	25.953
H	18.62	9.597	26.065
H	18.068	8.41	26.826
O	19.701	25.862	36.19
H	18.941	25.323	36.411
H	19.476	26.261	35.35
O	15.273	18.259	34.139
H	14.368	18.555	34.047
H	15.707	18.562	33.342
O	6.283	19.459	35.678
H	6.527	20.316	35.329
H	6.471	19.52	36.614
O	11.19	28.685	32.162
H	11.755	28.315	32.841
H	11.729	29.356	31.742
O	25.163	21.625	31.806
H	25.502	21.439	30.93
H	24.998	20.762	32.187
O	24.758	23.037	28.812
H	24.497	23.059	27.891
H	25.629	22.639	28.804
O	27.701	15.452	34.633
H	28.127	15.413	35.489
H	27.165	14.659	34.596
O	31.006	24.973	26.133
H	31.048	25.098	27.081

H	31.194	24.044	26.005
O	21.843	14.029	29.919
H	21.364	13.201	29.9
H	21.47	14.505	30.661
O	24.263	12.291	32.764
H	23.45	11.919	33.108
H	24.274	12.031	31.843
O	19.647	17.003	37.222
H	20.468	17.239	37.655
H	18.977	17.127	37.895
O	3.691	13.415	24.653
H	3.879	13.535	23.722
H	4.249	12.684	24.918
O	10.883	14.903	26.04
H	10.417	14.692	25.231
H	11.719	15.265	25.746
O	23.802	14.613	33.875
H	23.213	14.323	34.571
H	24.165	13.803	33.517
O	27.401	26.591	25.41
H	27.41	26.62	26.367
H	28.087	27.203	25.145
O	21.655	11.816	28.049
H	22.116	11.342	28.742
H	22.219	11.724	27.281
O	26.18	4.442	29.754
H	25.457	4.83	29.262
H	26.812	5.154	29.853
O	9.156	25.736	30.419
H	9.733	25.049	30.755
H	9.06	26.347	31.149
O	13.533	12.733	28.119
H	14.455	12.946	27.977
H	13.182	13.489	28.589
O	17.614	10.009	32.893
H	17.33	10.878	33.18
H	17.164	9.874	32.059
O	23.859	8.287	33.791
H	24.67	7.888	33.476
H	23.841	8.086	34.727
O	23.935	13.857	27.143
H	23.268	14.002	27.814
H	24.462	14.655	27.153
O	18.692	26.056	26.329
H	19.128	26.796	26.752
H	19.378	25.394	26.239
O	11.851	12.855	23.124

H	11.658	13.712	22.744
H	12.698	12.969	23.555
O	15.626	12.123	30.89
H	15.657	11.216	30.585
H	14.766	12.438	30.611
O	27.728	26.795	31.503
H	28.163	27.531	31.932
H	27.182	26.407	32.187
O	15.9	21.018	35.538
H	15.706	20.102	35.736
H	16.309	21.355	36.335
O	10.014	20.59	26.179
H	9.549	21.152	26.799
H	10.185	21.155	25.426
O	19.394	15.833	16.886
H	20.083	16.332	17.326
H	18.978	15.332	17.587
O	20.054	26.94	20.282
H	19.373	27.3	19.714
H	19.839	26.01	20.354
O	16.945	12.623	24.602
H	16.984	12.276	23.71
H	17.651	12.172	25.065
O	22.958	16.088	5.736
H	22.339	16.502	6.337
H	23.819	16.312	6.088
O	23.37	10.671	13.931
H	22.71	9.994	14.082
H	22.878	11.41	13.574
O	26.309	9.972	32.112
H	25.764	9.271	31.755
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O	15.044	14.239	14.849
H	14.889	15.184	14.839
H	15.803	14.127	15.421
O	17.468	17.185	14.984
H	17.92	16.542	15.53
H	16.609	17.286	15.394
O	14.403	16.848	15.969
H	13.948	17.67	16.154
H	14.21	16.292	16.723
O	15.941	22.78	28.839
H	15.971	22.046	29.452
H	16.454	23.468	29.264
O	9.19	26.368	11.58
H	9.137	26.834	10.746
H	8.366	26.573	12.023

O	25.461	27.257	19.145
H	24.532	27.278	19.375
H	25.525	26.581	18.47
O	25.425	11.559	27.11
H	24.902	12.36	27.139
H	25.715	11.43	28.013
O	18.419	5.694	17.961
H	17.904	5.222	17.306
H	19.284	5.287	17.924
O	25.06	21.993	21.145
H	25.996	22.109	20.98
H	24.83	21.197	20.666
O	29.628	17.598	10.714
H	29.801	18.391	11.222
H	30.054	16.899	11.21
O	17.57	13.249	16.234
H	18.437	13.654	16.246
H	17.195	13.459	17.089
O	15.28	15.817	12.454
H	14.861	15.48	11.662
H	15.297	15.07	13.052
O	21.627	12.663	13.231
H	21.25	12.924	14.071
H	21.47	13.412	12.655
O	17.755	15.73	25.649
H	18.607	15.4	25.932
H	17.126	15.092	25.988
O	30.373	25.709	28.908
H	30.294	24.934	29.464
H	29.553	26.184	29.04
O	18.731	22.555	17.426
H	17.984	22.738	16.856
H	18.404	22.718	18.31
O	16.305	13.653	9.176
H	15.683	13.996	9.818
H	15.787	13.539	8.379
O	14.368	13.467	21.096
H	14.669	14.215	21.613
H	14.139	13.841	20.245
O	22.909	23.677	16.692
H	22.302	24.379	16.929
H	22.394	22.875	16.78
O	22.343	26.264	13.759
H	21.624	26.451	13.154
H	22.138	26.778	14.54
O	28.285	4.477	19.359
H	29.064	4.957	19.64

H	28.469	3.566	19.587
O	8.898	18.427	15.597
H	9.56	19.004	15.215
H	8.079	18.693	15.179
O	11.489	21.897	12.634
H	12.403	21.614	12.659
H	11.531	22.85	12.711
O	21.335	19.709	23.292
H	20.775	20.422	23.599
H	20.725	19.007	23.064
O	30	21.412	31.927
H	29.511	21.114	32.693
H	30.844	20.964	31.992
O	19.946	29.885	16.909
H	20.864	29.831	16.642
H	19.97	30.307	17.768
O	13.262	26.321	13.77
H	13.79	27.004	14.183
H	13.563	25.508	14.176
O	25.524	21.135	12.809
H	25.102	20.588	12.146
H	25.298	22.031	12.559
O	27.382	25.171	14.397
H	27.956	24.443	14.635
H	26.543	24.758	14.194
O	19.293	13.239	27.628
H	18.729	13.63	28.295
H	20.128	13.096	28.074
O	11.386	16.902	19.667
H	10.675	17.357	19.216
H	11.773	17.567	20.236
O	9.365	12.364	8.054
H	9.292	11.497	7.656
H	10.244	12.381	8.432
O	14.224	10.457	25.473
H	13.675	10.076	24.788
H	13.607	10.898	26.057
O	27.741	16.05	24.581
H	26.823	16.164	24.335
H	28.205	16.731	24.094
O	15.712	18.646	24.882
H	16.604	18.442	24.598
H	15.821	19.333	25.539
O	19.477	12.979	0.904
H	18.825	13.669	0.787
H	19.681	12.998	1.839
O	18.883	6.511	14.197

H	19.033	5.952	14.959
H	19.752	6.635	13.816
O	24.681	20.073	14.961
H	23.846	20.534	15.05
H	25.116	20.506	14.227
O	18.261	22.005	26.323
H	17.341	22.148	26.101
H	18.241	21.652	27.212
O	15.03	16.584	26.547
H	15.496	17.223	26.006
H	14.873	17.039	27.374
O	19.257	18.968	27.196
H	19.113	18.833	26.259
H	19.164	18.097	27.581
O	13.242	15.061	18.782
H	12.414	14.723	18.441
H	13.003	15.872	19.231
O	2.269	13.672	11.287
H	2.89	12.998	11.562
H	1.484	13.186	11.034
O	18.487	11.278	13.645
H	18.181	11.915	13
H	18.748	11.807	14.399
O	16.854	8.504	19.286
H	17.512	8.476	19.98
H	16.016	8.472	19.748
O	14.272	18.25	13.393
H	14.767	17.467	13.154
H	13.532	18.261	12.786
O	21.4	11.534	24.354
H	22.108	10.945	24.616
H	21.833	12.373	24.195
O	14.464	18.51	28.583
H	13.694	19.017	28.328
H	14.964	19.1	29.147
O	13.277	19.405	15.875
H	13.618	19.224	14.999
H	13.859	20.078	16.225
O	15.771	14.127	18.118
H	16.154	14.342	18.969
H	14.88	14.475	18.163
O	14.25	22.462	13.34
H	14.147	22.425	12.389
H	15.019	23.016	13.476
O	16.827	11.302	10.527
H	17.434	11.501	11.239
H	16.743	12.126	10.047

O	14.742	28.238	15.334
H	14.438	28.843	16.011
H	15.695	28.235	15.425
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H	23.553	17.297	15.402
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O	6.718	15.743	20.562
H	6.749	16.374	21.281
H	7.498	15.202	20.685
O	10.755	23.099	29.429
H	10.654	22.161	29.268
H	10.382	23.516	28.652
O	27.991	19.053	24.709
H	27.83	19.759	24.083
H	27.119	18.729	24.934
O	26.205	13.685	6.223
H	26.475	12.817	6.523
H	25.384	13.533	5.756
O	25.571	16.088	26.879
H	25.369	16.91	26.432
H	26.523	16.094	26.975
O	24.569	19.77	10.825
H	23.627	19.909	10.921
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O	21.065	25.826	17.148
H	21.323	26.57	17.693
H	20.241	26.1	16.744
O	7.429	14.828	14.904
H	7.2	14.177	14.241
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O	19.662	19.241	14.753
H	19.241	19.991	14.332
H	18.958	18.601	14.862
O	25.015	25.077	25.389
H	24.909	25.396	26.285
H	25.954	25.154	25.217
O	15.648	10.447	15.077
H	15.635	9.705	15.681
H	16.538	10.456	14.726
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H	25.154	22.104	25.836
H	23.727	22.436	25.455
O	19.663	25.389	12.536
H	19.505	26.136	13.115

H	19.449	25.714	11.662
O	22.74	15.438	22.947
H	23.517	15.344	22.397
H	22.671	14.602	23.409
O	14.287	21.072	10.769
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H	9.944	10.403	26.52
H	8.844	9.632	25.823
O	22.303	16.254	11.052
H	23.249	16.2	11.189
H	21.924	15.914	11.862
O	16.339	23.922	16.134
H	16.628	24.337	15.322
H	15.499	24.337	16.33
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H	21.479	19.292	11.777
H	21.353	20.773	11.491
O	16.783	20.269	14.756
H	16.29	20.474	15.55
H	16.349	19.496	14.397
O	20.451	13.255	15.701
H	20.65	13.928	16.352
H	20.389	12.444	16.206
O	24.977	13.027	11.868
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H	24.624	13.676	12.477
O	25.802	21.018	5.058
H	26.396	20.3	4.84
H	25.694	21.497	4.237
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O	16.501	15.419	20.562
H	16.026	15.502	21.388
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H	28.235	10.275	20.881
H	27.592	10.945	22.077
O	25.356	22.448	17.363
H	25.957	23.193	17.351
H	24.51	22.82	17.113
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H	25.063	13.947	21.268
H	24.656	15.261	20.636
O	16.794	19.565	10.797

H	16.91	18.774	11.323
H	17.268	20.244	11.278
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H	8.496	18.538	18.445
H	9.453	18.386	17.282
O	30.636	22.114	13.548
H	31.534	22.436	13.618
H	30.729	21.169	13.423
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H	22.255	23.657	20.563
H	21.957	23.253	21.991
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H	12.422	24.893	8.952
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O	17.379	29.438	15.92
H	18.303	29.489	16.168
H	17.258	30.157	15.3
O	16.011	17.212	31.043
H	15.317	17.042	30.406
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H	23.08	29.84	29.937
H	23.805	30.055	31.248
O	24.396	23.347	12.071
H	24.119	24.109	11.562
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O	9.908	17.41	23.452
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H	18.247	17.413	13.152
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H	16.499	23.164	22.121
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O	8.472	19.84	23.852
H	8.277	20.697	23.474
H	8.95	20.037	24.658

O	17.786	21.334	12.658
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H	17.52	20.917	13.477
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H	19.732	11.955	9.249
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H	25.257	16.216	23.076
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H	24.691	19.022	26.994
O	12.147	6.908	26.549
H	12.898	6.828	25.962
H	11.651	7.651	26.203
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H	12.611	10.227	12.022
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O	17.469	25.759	23.544
H	17.553	24.829	23.332
H	18.056	25.889	24.288
O	14.927	15.308	22.925
H	14.754	14.585	23.528
H	14.552	16.075	23.358
O	27.736	17.219	19.315
H	27.382	17.243	18.426
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O	16.768	12.765	5.92
H	17.458	12.865	6.575
H	16.063	12.31	6.381
O	16.482	30.519	22.119
H	17.414	30.43	21.92
H	16.46	30.887	23.003
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H	13.969	12.678	24.955
H	15.312	13.331	24.71
O	19.094	11.327	25.729
H	19.08	11.87	26.518
H	19.942	11.511	25.326
O	20.33	2.519	14.449
H	20.702	2.649	13.576
H	21.004	2.843	15.046
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H	11.024	14.708	7.502

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H	19.196	29.293	24.859
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H	17.706	11.199	5.019
H	17.461	10.125	3.98
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H	19.441	22.302	12.202
H	19.999	23.665	12.552
O	16.52	23.984	12.622
H	16.125	24.529	11.941
H	17.05	24.593	13.138
O	9.36	26.219	24.548
H	9.741	25.846	25.343
H	8.518	25.773	24.454
O	21.31	21.552	17.118
H	20.371	21.738	17.095
H	21.367	20.637	17.392
O	20.977	33.377	16.088
H	21.084	32.541	15.635
H	20.243	33.234	16.685
O	26.912	22.294	24.819
H	27.582	22.928	25.074
H	27.283	21.845	24.059
O	26.128	20.794	8.596
H	25.623	21.575	8.823
H	25.934	20.171	9.297
O	28.098	12.063	12.714
H	28.49	12.491	11.953
H	27.572	11.353	12.345
O	20.386	16.855	22.874
H	19.688	16.2	22.901
H	21.169	16.361	22.63
O	20.219	17.398	9.613
H	21.062	17.358	10.063
H	19.753	16.615	9.906
O	19.534	4.322	6.59
H	18.7	4.002	6.246
H	20.057	4.512	5.812
O	34.979	25.986	24.872
H	35.883	26.274	24.747
H	34.756	25.538	24.056
O	31.126	3.539	26.175
H	31.164	2.6	25.996
H	31.295	3.952	25.328
O	16.815	12.151	21.77

H	15.968	12.574	21.625
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O	23.346	13.405	24.485
H	23.579	13.548	25.403
H	24.171	13.162	24.065
O	13.765	10.058	8.48
H	13.369	9.811	7.644
H	13.745	9.255	9.001
O	14.298	10.813	12.508
H	14.985	10.8	11.841
H	14.71	10.432	13.283
O	9.276	9.6	12.286
H	9.228	10.347	12.883
H	10.196	9.561	12.025
O	27.973	19.014	7.91
H	27.322	19.715	7.966
H	27.618	18.314	8.458
O	8.414	13.815	22.047
H	8.693	12.915	21.88
H	9.23	14.309	22.122
O	27.268	12.771	15.442
H	26.34	12.54	15.396
H	27.646	12.406	14.643
O	20.594	10.31	22.154
H	21.357	9.739	22.06
H	20.755	10.793	22.965
O	29.545	13.664	8.748
H	28.742	13.678	9.268
H	30.139	13.095	9.239
O	23.224	6.175	17.644
H	23.777	6.187	16.863
H	22.995	7.093	17.788
O	19.409	24.33	19.467
H	20.177	23.984	19.922
H	19.523	24.05	18.559
O	7.605	10.179	21.005
H	8.263	10.849	21.186
H	7.961	9.687	20.265
O	15.15	23.322	20.352
H	15.685	22.545	20.191
H	14.359	22.986	20.773
O	22.52	22.091	13.856
H	21.633	22.215	13.52
H	22.443	22.242	14.798
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H	17.794	15.164	23.781
H	17.829	14.357	22.501

O	15.927	8.033	16.597
H	15.802	7.089	16.502
H	16.391	8.13	17.429
O	28.018	22.874	19.665
H	27.946	21.926	19.553
H	28.904	23.008	20.002
O	10.155	4.267	25.904
H	10.906	3.676	25.857
H	10.522	5.097	26.21
O	17.628	25.957	14.337
H	17.759	26.13	15.27
H	18.137	26.635	13.894
O	18.063	3.425	16.417
H	18.713	3.289	15.728
H	17.221	3.282	15.984
O	18.629	18.047	24.495
H	19.425	17.798	24.027
H	18.252	17.217	24.786
O	23.616	28.7	12.625
H	23.669	27.819	12.996
H	24.246	29.212	13.133
O	19.091	21.702	21.61
H	19.893	21.913	21.132
H	19.386	21.511	22.501
O	25.261	30.427	14.657
H	26.169	30.713	14.566
H	25.015	30.69	15.544
O	23.917	24.227	20.046
H	24.379	23.451	20.363
H	24.368	24.46	19.235
O	21.055	15.483	13.922
H	20.52	14.923	14.484
H	21.497	16.077	14.529
O	24.222	10.565	18.262
H	24.868	9.939	18.589
H	24.551	10.82	17.4
O	25.046	11.998	21.977
H	25.844	12.043	22.503
H	24.907	11.062	21.832
O	10.185	19.902	11.363
H	10.681	20.668	11.651
H	9.446	19.854	11.969
O	16.788	7.395	9.922
H	17.393	8.119	9.764
H	16.281	7.668	10.686
O	20.387	10.75	11.029
H	20.686	11.237	11.797

H	21.093	10.129	10.849
O	18.426	9.698	9.126
H	19.206	9.307	9.522
H	18.13	10.342	9.769
O	18.182	24.209	8.114
H	18.945	24.632	8.509
H	18.506	23.359	7.818
O	10.896	3.652	15.323
H	11.465	3.964	14.619
H	10.424	2.913	14.94
O	21.753	14.324	8.707
H	21.991	14.935	9.404
H	22.481	14.373	8.087
O	18.526	27.218	32.835
H	18.441	27.806	32.083
H	19.47	27.121	32.958
O	27.302	31.335	19.424
H	27.752	31.879	20.07
H	27.117	31.93	18.697
O	14.811	3.941	29.399
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O	13.859	28.506	8.94
H	13.25	28.633	9.667
H	14.025	29.389	8.609
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H	22.329	19.952	9.222
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H	15.096	6.639	25.399
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H	26.462	29.894	22.198
H	25.381	30.539	23.04
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H	12.076	21.49	4.897
H	10.908	22.431	4.695
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H	15.873	25.114	2.872
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H	4.121	17.174	5.407
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H	13.944	15.378	2.948
H	14.18	16.545	2.014
O	9.459	16.99	9.082

H	8.605	16.558	9.061
H	9.255	17.925	9.078
O	20.014	14.534	5.595
H	19.448	15.158	6.05
H	20.885	14.929	5.634
O	11.132	19.828	2.316
H	11.049	20.758	2.101
H	11.517	19.818	3.192
O	19.101	14.65	9.853
H	18.31	14.349	9.407
H	19.813	14.432	9.253
O	32.393	23.645	4.989
H	32.414	24.601	4.934
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H	22.294	16.139	2.134
H	22.255	14.628	2.21
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H	23.075	22.353	4.812
H	24.076	21.311	5.264
O	19.734	25.768	9.831
H	20.332	25.069	9.568
H	20.129	26.567	9.481
O	15.175	18.744	8.697
H	15.753	18.867	9.45
H	15.604	18.066	8.174
O	20.98	18.384	6.461
H	20.751	19.234	6.083
H	21.596	18.593	7.162
O	24.633	24.894	15.023
H	24.047	24.343	15.542
H	24.047	25.426	14.484
O	27.14	14.032	10.141
H	26.858	14.497	10.93
H	26.466	13.368	10.001
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H	15.289	27.625	5.679
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H	27.67	17.362	10.355
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H	27.278	16.65	7.439

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H	19.891	9.73	5.971
H	20.06	8.737	7.101
O	15.505	12.638	2.711
H	16.376	13.015	2.835
H	14.904	13.37	2.85
O	12.036	12.55	8.6
H	12.391	11.692	8.369
H	12.764	13.156	8.461
O	8.073	19.293	12.916
H	7.339	19.82	13.231
H	7.831	18.392	13.131
O	16.265	9.075	3.397
H	16.279	9.024	2.442
H	15.386	9.391	3.608
O	24.605	17.758	2.681
H	25.247	17.187	2.258
H	25.124	18.306	3.27
O	24.885	14.894	3.349
H	24.562	15.111	4.223
H	24.685	13.964	3.243
O	28.786	10.546	7.084
H	29.066	11.286	6.545
H	27.829	10.58	7.058
O	9.669	18.818	4.806
H	8.851	18.481	5.172
H	9.542	18.775	3.858
O	16.97	17.032	3.23
H	16.035	16.906	3.072
H	17.264	16.202	3.606
O	11.314	15.665	4.297
H	11.711	14.872	3.937
H	11.11	15.44	5.204
O	17.516	20.477	6.169
H	16.589	20.714	6.18
H	17.614	19.86	6.895
O	20.423	20.967	4.975
H	21.356	20.762	4.921
H	20.068	20.697	4.128
O	27.555	19.317	1.402
H	28.43	19.293	1.016
H	26.976	19.014	0.703
O	18.504	19.38	8.678
H	17.977	19.426	9.475
H	19.214	18.775	8.895
O	24.323	25.463	9.965
H	24.664	25.721	9.109

H	23.615	26.083	10.138
O	5.569	7.706	8.706
H	5.374	8.041	9.581
H	4.859	8.041	8.157
O	12.6	26.096	4.513
H	12.404	26.557	3.697
H	13.042	26.748	5.056
O	7.78	29.723	15.323
H	8.247	30.226	15.99
H	8.283	28.913	15.237
O	28.416	15.156	4.449
H	27.651	15.38	3.918
H	28.286	15.634	5.269
O	8.864	19.929	8.576
H	8.631	19.973	9.504
H	9.638	20.488	8.497
O	24.171	22.829	8.747
H	23.279	23.17	8.821
H	24.714	23.479	9.192
O	21.244	23.78	8.287
H	21.294	24.432	7.588
H	20.811	23.028	7.883
O	4.91	24.684	9.583
H	5.146	23.81	9.273
H	5.707	25.201	9.471
O	14.608	18.205	4.848
H	14.401	17.63	4.112
H	13.755	18.488	5.179
O	16.922	20.728	1.586
H	17.257	21.163	2.37
H	17.045	19.795	1.76
O	19.924	21.603	7.612
H	20.045	21.457	6.674
H	19.489	20.809	7.924
O	25.516	25.351	5.345
H	25.977	25.101	4.544
H	26.146	25.184	6.046
O	13.926	10.576	3.752
H	13.957	11.122	4.538
H	14.508	11.016	3.132
O	14.314	14.558	7.198
H	15.157	14.999	7.097
H	13.665	15.252	7.083
O	26.964	21.989	2.224
H	26.128	21.683	1.873
H	27.605	21.355	1.903
O	7.662	29.141	8.474

H	8.366	29.783	8.57
H	7.261	29.35	7.631
O	12.808	13.996	2.996
H	12.559	13.173	3.416
H	12.63	13.853	2.066
O	17.02	28.357	11.062
H	17.879	28.356	11.485
H	17.155	28.842	10.248
O	27.783	23.898	3.877
H	27.781	23.239	4.572
H	27.737	23.391	3.066
O	21.839	17.798	2.752
H	21.384	18.234	3.473
H	22.768	17.887	2.965
O	14.979	20.976	3.838
H	14.632	20.89	4.726
H	14.97	20.085	3.49
O	12.076	19.619	5.305
H	11.173	19.305	5.315
H	12.279	19.797	6.223
O	24.135	9.013	7.504
H	24.017	8.16	7.084
H	24.243	8.81	8.433
O	20.533	7.791	9.143
H	21.058	7.108	8.727
H	20.768	7.744	10.07
O	14.962	26.232	10.749
H	15.29	27.119	10.896
H	14.02	26.344	10.621
O	10.375	22.399	2.011
H	10.783	23.103	2.516
H	9.516	22.745	1.77
O	15.887	7.892	6.108
H	15.984	8.007	5.163
H	16.101	8.749	6.477
O	23.608	12.845	5.112
H	23.199	12.399	5.853
H	23.459	12.261	4.369
O	7.049	10.427	7.263
H	6.836	10.4	8.196
H	6.96	11.349	7.024
O	12.377	19.602	8.232
H	13.164	19.429	8.749
H	12.059	20.445	8.555
O	20.666	8.4	2.17
H	21.02	7.917	2.916
H	19.837	7.965	1.973

O	19.306	24.37	3.569
H	18.683	23.659	3.72
H	18.772	25.089	3.232
O	18.977	18.775	3.888
H	18.348	18.072	3.726
H	18.599	19.27	4.615
O	17.939	34.276	15.65
H	17.281	34.971	15.635
H	17.714	33.75	16.417
O	10.542	6.292	10.637
H	10.45	7.101	11.141
H	10.962	6.565	9.821
O	22.679	10.904	3.11
H	22.851	10.328	2.366
H	21.725	10.952	3.162
O	22.356	3.188	30.242
H	21.546	2.997	30.715
H	22.3	4.122	30.038
O	17.295	6.958	33.569
H	16.741	6.811	34.335
H	17.349	7.911	33.491
O	10.252	17.002	38.298
H	10.442	17.93	38.432
H	10.716	16.557	39.007
O	25.472	8.397	29.959
H	25.162	7.627	29.481
H	26.374	8.516	29.662
O	7.808	11.387	34.178
H	7.049	10.948	33.795
H	8.453	11.411	33.471
O	22.329	12.149	35.902
H	21.594	11.538	35.958
H	21.926	13.015	35.975
O	27.167	3.146	27.004
H	27.574	3.303	27.857
H	26.3	2.799	27.213
O	19.115	5.035	32.117
H	18.358	5.487	32.491
H	19.248	5.455	31.267
O	22.287	10.099	32.457
H	21.46	10.028	32.934
H	22.923	9.649	33.012
O	13.686	5.186	32.68
H	14.292	5.168	31.939
H	13.535	6.117	32.844
O	23.166	10.212	29.633
H	23.016	10.028	30.561

H	23.982	9.755	29.427
O	6.994	6.164	26.969
H	6.4	6.639	26.388
H	7.276	6.818	27.609
O	21.656	8.536	27.858
H	20.705	8.617	27.786
H	21.897	9.152	28.549
O	12.456	7.652	32.959
H	11.592	7.284	32.775
H	12.467	7.774	33.909
O	20.104	6.795	25.015
H	20.145	6.764	24.059
H	19.476	7.492	25.204
O	21.823	4.798	23.765
H	22.025	4.211	23.036
H	21.345	5.523	23.363
O	19.611	5.653	27.727
H	19.863	6.067	26.902
H	18.656	5.606	27.69
O	16.545	12.364	33.541
H	16.979	13.211	33.433
H	16.058	12.239	32.727
O	30.367	10.927	30.614
H	30.137	11.095	29.7
H	30.953	10.171	30.578
O	17.607	15.234	36.321
H	16.795	15.74	36.301
H	18.274	15.862	36.598
O	12.184	10.356	35.113
H	12.223	9.4	35.141
H	11.306	10.569	35.428
O	21.627	14.793	35.471
H	20.715	14.509	35.401
H	21.725	15.062	36.384
O	22.582	8.671	21.629
H	22.293	7.763	21.724
H	23.441	8.695	22.051
O	19.672	12.13	20.083
H	18.909	11.736	19.661
H	19.929	11.496	20.753
O	25.745	8.456	19.464
H	26.1	7.602	19.219
H	25.767	8.46	20.421
O	14.942	7.964	12.04
H	14.351	7.747	12.761
H	15.77	8.182	12.468
O	25.469	4.58	12.551

H	24.865	4.327	13.25
H	26.339	4.488	12.942
O	12.903	8.209	16.179
H	13.744	7.755	16.229
H	12.679	8.196	15.249
O	7.852	3.117	20.694
H	7.008	2.667	20.657
H	7.836	3.589	21.527
O	16.487	1.831	10.062
H	16.054	1.298	10.729
H	17.051	2.424	10.559
O	21.05	7.892	31.275
H	20.16	8.218	31.137
H	21.543	8.658	31.568
O	20.681	4.849	17.283
H	21.085	3.984	17.214
H	21.419	5.454	17.358
O	19.719	1.266	10.118
H	20.063	1.444	9.243
H	19.395	2.112	10.426
O	14.96	5.607	16.675
H	15.424	5.202	17.408
H	14.977	4.944	15.985
O	24.929	3.111	21.795
H	24.917	2.992	22.745
H	25.167	4.03	21.672
O	24.821	6.199	15.508
H	25.311	5.466	15.136
H	25.487	6.86	15.697
O	17.851	1.131	13.511
H	18.683	1.601	13.561
H	17.988	0.475	12.827
O	20.735	10.817	17.859
H	21.253	10.076	18.174
H	20.533	11.319	18.649
O	9.844	2.241	23.511
H	10.282	2.868	22.936
H	9.748	2.705	24.343
O	15.859	5.475	21.218
H	15.249	5.051	20.614
H	15.499	6.353	21.344
O	20.771	5.262	12.215
H	21.477	5.904	12.298
H	21.215	4.414	12.234
O	8.106	4.926	22.752
H	7.889	4.454	23.555
H	7.303	5.396	22.526

O	26.792	11.473	29.652
H	26.509	10.976	30.419
H	27.726	11.276	29.57
O	16.933	4.598	13.488
H	17.476	5.37	13.65
H	16.31	4.881	12.818
O	16.408	0.042	15.543
H	16.811	0.545	14.835
H	15.959	0.698	16.077
O	28.411	7.405	31.387
H	28.362	6.777	30.667
H	28.396	8.261	30.96
O	18.595	4.874	20.615
H	17.733	4.934	21.028
H	18.43	5.061	19.69
O	21.641	5.335	8.322
H	20.956	4.874	7.837
H	21.963	4.69	8.952
O	12.953	7.93	10.109
H	13.588	7.892	10.824
H	12.94	7.042	9.752
O	18.496	3.178	11.406
H	18.224	3.555	12.242
H	18.84	3.92	10.908
O	22.777	7.188	13.749
H	23.243	6.495	14.218
H	22.565	7.833	14.424
O	16.939	5.794	26.44
H	16.577	4.923	26.601
H	17.047	5.837	25.49
O	12.259	0.176	15.993
H	12.091	0.693	15.205
H	11.427	0.183	16.466
O	21.614	1.321	20.076
H	20.826	1.184	19.551
H	21.514	2.205	20.431
O	31.542	4.771	23.447
H	31.094	3.938	23.3
H	32.441	4.613	23.159
O	29.843	2.243	23.641
H	29.688	1.597	22.952
H	29.238	1.997	24.341
O	23.139	3.281	9.665
H	23.681	2.631	9.217
H	23.748	3.748	10.237
O	22.325	8.632	18.507
H	23.08	9.21	18.608

H	21.889	8.655	19.359
O	15.022	8.21	21.62
H	15.405	8.711	22.34
H	14.179	8.633	21.456
O	23.142	5.674	20.23
H	23.876	6.209	20.531
H	23.16	5.756	19.277
O	15.285	3.703	25.366
H	14.592	4.302	25.088
H	14.938	2.831	25.175
O	18.428	1.954	28.671
H	18.1	1.134	29.038
H	17.821	2.158	27.959
O	8.014	4.134	16.121
H	8.751	4	16.718
H	8.025	5.073	15.934
O	13.642	6.459	29.19
H	13.072	6.541	28.425
H	13.48	7.256	29.695
O	11.041	5.467	30.324
H	11.529	4.644	30.284
H	11.712	6.147	30.265
O	12.676	4.208	13.351
H	13.055	3.36	13.582
H	12.571	4.172	12.401
O	21.637	2.564	12.113
H	21.388	1.645	12.019
H	21.886	2.836	11.23
O	17.461	8.619	13.175
H	17.91	8.001	13.751
H	17.992	9.414	13.216
O	16.082	5.665	7.66
H	16.446	5.935	8.502
H	15.941	6.485	7.186
O	31.544	8.965	24.418
H	31.384	9.851	24.091
H	32.103	8.562	23.753
O	8.311	4.982	12.184
H	7.685	5.336	11.552
H	9.15	5.368	11.93
O	13.141	8.738	30.71
H	12.558	9.463	30.484
H	12.915	8.522	31.615
O	18.556	4.849	9.203
H	18.646	4.897	8.251
H	18.28	5.729	9.461
O	18.576	7.769	30.056

H	18.811	8.652	29.77
H	17.767	7.572	29.582
O	16.549	9.056	23.942
H	17.251	8.693	24.482
H	16.269	9.842	24.409
O	30.934	1.068	11.932
H	31.649	1.018	11.298
H	30.608	0.171	11.997
O	15.341	4.813	11.239
H	14.9	5.548	10.812
H	16.027	4.555	10.623
O	16.938	5.183	23.867
H	16.594	5.433	23.009
H	16.63	4.286	23.996
O	20.073	10.385	33.793
H	19.201	10.02	33.637
H	20.269	10.157	34.701
O	19.849	6.507	22.403
H	19.182	7.037	21.965
H	19.777	5.645	21.994
O	24.671	1.656	26.943
H	23.924	1.472	27.513
H	25.157	0.832	26.913
O	16.233	7.417	28.481
H	15.46	6.937	28.779
H	16.505	6.962	27.684
O	14.159	3.839	19.885
H	13.926	3.704	18.966
H	13.77	3.094	20.343
O	10.132	4.984	17.568
H	10.398	4.3	18.183
H	10.626	4.794	16.771
O	13.207	10.901	16.462
H	13.966	10.894	15.878
H	12.945	9.983	16.526
O	23.406	10.236	25.781
H	23.432	9.436	26.307
H	24.233	10.677	25.974
O	26.761	5.183	10.151
H	26.488	5.243	11.066
H	26.044	5.582	9.659
O	22.438	2.8	16.266
H	22.092	1.912	16.356
H	23.145	2.849	16.909
O	31.231	4.656	28.656
H	31.963	5.271	28.604
H	31.219	4.225	27.802

O	30.26	2.855	6.243
H	30.393	2.046	5.749
H	30.569	2.65	7.125
O	24.848	9.495	10.383
H	24.994	10.398	10.1
H	25.694	9.213	10.73
O	18.294	8.698	21.634
H	19.002	9.278	21.914
H	17.596	8.848	22.271
O	30.401	5.99	20.707
H	31.337	6.172	20.791
H	30.087	5.927	21.609
O	27.262	11.494	24.43
H	26.724	11.713	25.191
H	27.418	10.553	24.51
O	16.553	11.125	27.716
H	16.055	10.917	26.925
H	16.725	12.064	27.651
O	18.636	14.472	19.061
H	19.069	13.674	19.365
H	18.005	14.68	19.751
O	26.295	5.941	18.23
H	25.431	5.529	18.237
H	26.908	5.213	18.332
O	17.242	11.293	18.992
H	17.164	10.418	18.613
H	16.411	11.72	18.781
O	12.88	6.997	13.606
H	11.954	7.209	13.484
H	12.911	6.041	13.588
O	19.435	3.691	24.066
H	18.86	4.443	24.203
H	20.319	4.041	24.182
O	33.523	3.705	7.619
H	33.157	3.111	8.275
H	34.226	4.165	8.078
O	16.393	10.343	7.185
H	15.564	10.221	7.648
H	17.052	9.971	7.771
O	15.596	3.233	15.249
H	15.054	2.598	14.781
H	15.998	3.76	14.559
O	15.731	1.372	23.561
H	15.24	0.673	23.129
H	16.422	1.598	22.938
O	15.722	2.818	7.16
H	15.868	3.764	7.164

H	15.943	2.538	8.048
O	26.97	8.357	5.414
H	27.478	8.981	4.896
H	26.506	8.898	6.053
O	25.578	3.142	8.252
H	26.122	3.413	8.991
H	26.148	3.237	7.488
O	13.282	5.508	8.597
H	14.08	5.491	8.068
H	12.576	5.625	7.961
O	11.883	15.87	9.605
H	12.188	16.476	10.28
H	11.015	16.195	9.365
O	30.16	5.468	5.684
H	30.04	4.585	6.033
H	31.037	5.456	5.3
O	24.408	5.797	8.197
H	24.597	4.874	8.027
H	23.453	5.857	8.155
O	26.397	5.797	5.436
H	25.455	5.768	5.602
H	26.59	6.727	5.314
O	19.994	12.734	3.459
H	19.497	12.009	3.839
H	20.241	13.274	4.21
O	10.105	6.966	13.376
H	9.583	7.713	13.084
H	9.494	6.429	13.881
O	35.099	12.063	5.613
H	34.572	12.613	6.192
H	35.173	11.229	6.077
O	28.455	2.576	12.437
H	29.256	2.052	12.414
H	28.719	3.397	12.852
O	23.081	5.726	4.176
H	22.895	6.65	4.347
H	22.219	5.312	4.137
O	13.611	12.388	5.838
H	13.832	13.156	6.364
H	12.667	12.28	5.957
O	12.332	8.912	6.415
H	12.728	8.122	6.046
H	11.429	8.659	6.608
O	23.42	2.243	6.443
H	23.643	2.269	5.513
H	24.151	1.78	6.852
O	24.303	15.474	8.769

H	24.325	16.277	8.249
H	25.183	15.403	9.137
O	4.687	30.342	28.77
H	4.695	30.326	29.727
H	4.022	30.993	28.546
O	10.345	24.772	26.483
H	10.794	24.263	25.808
H	11.047	25.231	26.943
O	10.474	32.048	30.374
H	9.777	31.825	29.757
H	10.366	32.987	30.529
O	6.743	23.957	24.422
H	7.142	23.753	25.268
H	7.408	23.714	23.778
O	8.936	31.558	24.589
H	8.915	30.649	24.291
H	9.075	31.498	25.534
O	6.107	26.506	31.078
H	6.689	27.135	31.505
H	6.663	25.746	30.903
O	8.702	28.755	24.255
H	8.471	28.172	23.532
H	8.819	28.173	25.006
O	5.25	31.016	23.397
H	5.013	31.272	22.505
H	5.874	31.685	23.68
O	4.606	20.151	25.387
H	5.257	20.411	26.038
H	4.765	19.218	25.248
O	5.998	26.836	27.348
H	5.629	26.154	27.91
H	6.217	26.383	26.534
O	5.076	30.227	15.164
H	4.855	30.868	15.839
H	6.024	30.118	15.237
O	10.602	31.505	19.793
H	10.867	30.812	20.398
H	11.19	31.406	19.044
O	3.632	28.521	20.494
H	3.004	29.238	20.584
H	4.204	28.792	19.776
O	15.725	32.069	14.477
H	15.909	32.881	14.949
H	14.993	32.287	13.9
O	9.948	33.977	24.019
H	9.772	33.054	24.2
H	10.416	34.288	24.794

O	11.233	24.062	21.261
H	10.486	23.476	21.134
H	11.931	23.493	21.584
O	9.091	33.038	21.442
H	9.701	32.509	20.927
H	9.546	33.186	22.272
O	9.48	27.556	15.717
H	10.067	26.861	15.418
H	9.744	27.719	16.622
O	11.536	26.417	22.465
H	10.698	26.726	22.807
H	11.308	25.667	21.915
O	5.142	32.122	17.253
H	4.677	32.925	17.485
H	6.034	32.26	17.571
O	7.942	27.289	21.811
H	7.106	26.846	21.668
H	7.809	28.17	21.461
O	2.604	28.95	14.983
H	2.35	28.957	14.06
H	3.534	29.178	14.977
O	7.008	32.241	19.061
H	7.54	32.768	19.657
H	6.219	32.036	19.562
O	4	27.148	29.762
H	4.753	26.857	30.276
H	4.361	27.341	28.897
O	4.777	32.134	20.893
H	4.834	33.065	21.107
H	3.858	31.911	21.04
O	8.065	29.45	19.317
H	8.059	30.407	19.313
H	7.166	29.204	19.098
O	12.427	28.253	11.606
H	12.447	27.435	12.103
H	13.199	28.734	11.905
O	7.57	23.724	19.557
H	6.861	23.086	19.479
H	7.503	24.255	18.763
O	5.349	29.145	18.434
H	5.198	28.382	17.877
H	4.992	29.88	17.937
O	2.42	25.93	22.193
H	3.271	26.149	21.814
H	2.52	26.11	23.128
O	14.853	24.985	32.463
H	15.796	24.817	32.475

H	14.649	25.137	31.54
O	5.186	26.955	22.474
H	4.794	27.671	21.974
H	5.111	27.232	23.387
O	6.424	33.541	24.37
H	6.772	33.855	23.536
H	7.13	33.009	24.739
O	9.217	30.922	16.985
H	10.12	30.695	16.763
H	9.07	30.515	17.839
O	9.281	21.829	21.265
H	8.698	22.45	20.829
H	9.496	21.187	20.588
O	10.03	27.47	19.351
H	9.481	28.238	19.507
H	9.7	26.811	19.962
O	13.439	29.575	22.515
H	14.23	29.153	22.849
H	13.406	30.417	22.97
O	12.559	31.794	9.737
H	13.443	31.951	10.069
H	12.692	31.467	8.847
O	6.058	21.538	4.165
H	5.152	21.835	4.252
H	6.257	21.127	5.006
O	5.894	28.09	12.91
H	6.124	28.955	13.251
H	5.904	28.198	11.959
O	4.404	21.97	30.287
H	5.338	22.164	30.361
H	3.989	22.826	30.181
O	9.389	9.913	29.44
H	10.315	10.145	29.37
H	8.94	10.751	29.546
O	6.125	16.796	31.663
H	6.387	16.525	32.543
H	5.205	17.044	31.753
O	7.242	22.664	30.659
H	7.301	21.799	31.065
H	7.797	23.222	31.204
O	5.568	7.496	24.794
H	6.054	7.753	24.011
H	5.149	6.668	24.556
O	10.637	25.718	34.172
H	11.256	26.152	33.585
H	11.142	25.542	34.966
O	8.322	22.971	26.654

H	7.712	23.213	27.351
H	8.996	23.651	26.679
O	2.879	9.273	29.66
H	2.837	8.332	29.831
H	1.964	9.551	29.626
O	1.47	15.364	30.518
H	0.944	15.818	29.859
H	0.877	14.711	30.889
O	4.743	11.206	29.318
H	4.246	10.418	29.537
H	4.84	11.172	28.366
O	7.694	13.829	26.977
H	6.99	13.731	26.335
H	8.345	14.375	26.537
O	7.121	15.997	28.933
H	6.785	15.262	28.42
H	6.596	15.99	29.733
O	3.119	18.475	18.734
H	3.746	17.906	18.288
H	2.54	18.786	18.038
O	0.385	19.926	30.295
H	0.513	20.829	30.585
H	0.117	20.003	29.38
O	8.495	8.206	19.487
H	9.292	8.272	18.961
H	8.139	7.343	19.276
O	8.48	19.274	32.209
H	7.707	19.438	32.749
H	9.123	19.915	32.51
O	6.032	20.944	32.651
H	5.35	20.305	32.448
H	5.564	21.775	32.738
O	4.097	19.322	28.952
H	4.788	19.211	28.3
H	4.032	20.269	29.074
O	7.118	8.55	22.881
H	7.965	8.684	23.306
H	7.173	9.058	22.072
O	3.798	21.594	23.096
H	3.677	20.919	22.428
H	4.474	21.241	23.674
O	8.488	24.09	33.35
H	7.829	24.419	33.961
H	9.301	24.515	33.623
O	1.708	18.856	27.048
H	1.092	18.274	27.495
H	2.199	19.273	27.756

O	19.124	16.275	29.635
H	19.402	15.702	30.349
H	19.934	16.501	29.179
O	7.147	9.499	26.21
H	6.598	8.782	25.894
H	7.238	9.336	27.149
O	4.178	18.572	31.969
H	4.452	18.81	31.083
H	3.226	18.49	31.911
O	4.57	23.485	33.189
H	4.878	24.349	32.916
H	4.168	23.633	34.045
O	0.543	16.788	22.555
H	0.179	17.376	23.216
H	-0.1	16.798	21.845
O	11.99	9.548	24.076
H	11.727	10.048	23.304
H	11.218	9.557	24.642
O	7.189	8.392	28.781
H	8.025	8.858	28.77
H	6.659	8.866	29.422
O	12.544	23.066	34.472
H	12.227	23.41	33.637
H	13.492	23.2	34.442
O	11.833	10.956	29.762
H	12.33	11.567	30.306
H	11.999	11.243	28.865
O	11.687	17.244	31.975
H	11.846	17.457	31.055
H	10.755	17.029	32.013
O	0.501	21.367	16.215
H	-0.249	21.63	15.683
H	0.118	21.07	17.04
O	10.627	16.069	14.79
H	10.043	16.794	15.01
H	11.485	16.478	14.678
O	7.258	25.223	17.33
H	7.475	26.051	17.759
H	6.914	25.48	16.474
O	3.771	27.314	16.874
H	3.12	27.873	16.45
H	3.268	26.572	17.21
O	2.147	23.887	12.856
H	2.515	24.767	12.931
H	1.356	23.911	13.393
O	2.333	8.525	20.951
H	2.882	9.206	20.562

H	2.071	8.884	21.799
O	7.461	13.033	12.694
H	7.663	12.851	11.777
H	7.797	12.273	13.17
O	4.969	14.157	19.343
H	5.51	14.933	19.496
H	5.238	13.844	18.479
O	0.761	22.655	10.39
H	0.069	21.994	10.423
H	0.56	23.25	11.112
O	-0.166	18.377	14.564
H	0.606	18.325	15.128
H	0.185	18.566	13.694
O	-1.734	21.624	21.903
H	-2.079	20.81	21.536
H	-0.842	21.405	22.174
O	5.269	16.773	17.728
H	5.056	17.109	16.857
H	5.421	15.838	17.593
O	6.669	17.421	14.285
H	5.782	17.404	14.643
H	7.076	16.619	14.614
O	3.784	19.597	21.196
H	3.605	19.147	20.371
H	3.726	18.91	21.861
O	3.905	17.383	12.472
H	4.436	16.586	12.481
H	4.476	18.055	12.844
O	3.485	18.341	8.264
H	2.83	19.039	8.275
H	3.121	17.661	8.831
O	6.793	20.993	16.992
H	7.708	21.26	17.083
H	6.708	20.232	17.566
O	10.889	20.232	15.06
H	10.994	20.785	14.286
H	11.766	20.18	15.439
O	2.773	8.093	25.886
H	3.645	7.765	25.665
H	2.412	7.434	26.479
O	6.589	20.397	27.023
H	7.251	21.087	27.054
H	6.629	19.987	27.887
O	9.581	23.657	7.735
H	8.647	23.449	7.725
H	9.693	24.292	7.027
O	7.393	32.279	14.198

H	7.596	32.084	13.283
H	7.391	31.425	14.63
O	10.311	13.591	14.341
H	11.167	13.391	13.961
H	10.27	14.547	14.347
O	22.708	27.764	19.976
H	23.029	28.05	20.831
H	21.756	27.738	20.074
O	-0.206	17.112	19.964
H	-0.972	17.412	19.474
H	0.313	17.904	20.105
O	1.962	21.501	25.597
H	2.79	21.096	25.337
H	1.505	20.818	26.087
O	6.059	26.458	15.133
H	6.193	27.093	14.43
H	5.346	26.826	15.655
O	2.045	20.661	9.009
H	1.201	20.343	8.689
H	1.822	21.389	9.59
O	2.22	19.398	16.242
H	2.93	20.007	16.038
H	1.421	19.898	16.078
O	15.493	21.324	26.146
H	15.28	22.159	25.728
H	15.233	21.441	27.059
O	4.397	14.864	26.829
H	4.099	14.296	26.118
H	3.934	14.542	27.603
O	1.231	14.122	21.62
H	2.085	14.173	22.051
H	0.684	14.746	22.097
O	4.572	17.526	26.449
H	4.46	16.583	26.567
H	3.879	17.918	26.982
O	0.663	14.711	19.07
H	1.194	14.411	19.808
H	0.299	15.546	19.362
O	9.923	11.473	21.452
H	10.413	11.212	20.673
H	10.595	11.737	22.08
O	9.436	21.342	17.242
H	9.867	22.169	17.025
H	9.86	20.696	16.678
O	3.731	9.172	10.346
H	3.495	9.931	9.813
H	4.038	9.545	11.172

O	0.21	18.485	24.775
H	-0.489	19.116	24.947
H	0.771	18.534	25.549
O	6.095	12.989	6.633
H	5.354	13.456	7.02
H	6.795	13.642	6.594
O	0.843	21.235	22.914
H	1.288	21.945	22.451
H	1.186	21.28	23.806
O	6.216	20.945	14.084
H	5.983	20.699	14.979
H	6.268	21.9	14.103
O	12.158	18.656	26.6
H	11.225	18.793	26.439
H	12.596	19.249	25.989
O	10.421	24.811	14.196
H	10.087	25.32	13.456
H	11.367	24.955	14.177
O	13.184	21.666	21.343
H	13.397	20.762	21.574
H	12.751	21.6	20.492
O	-0.085	11.509	23.791
H	-1.011	11.418	24.015
H	0.262	12.112	24.448
O	2.545	25.539	8.232
H	3.178	25.125	8.818
H	1.959	26.022	8.816
O	4.004	23.979	24.467
H	4.953	24.109	24.476
H	3.884	23.118	24.067
O	16.458	16.79	6.819
H	16.051	17.121	6.019
H	17.349	16.558	6.557
O	8.511	15.399	24.713
H	8.957	16.163	24.349
H	7.882	15.144	24.038
O	1.333	12.491	14.201
H	0.715	11.957	13.701
H	0.791	12.943	14.847
O	8.856	11.454	17.814
H	9.752	11.453	18.151
H	8.62	12.381	17.765
O	11.364	11.877	18.304
H	11.246	12.788	18.033
H	12.181	11.607	17.884
O	2.885	21.121	13.352
H	3.436	21.175	14.133

H	2.753	22.032	13.088
O	11.853	25.183	18.281
H	11.887	24.91	19.198
H	11.671	26.122	18.318
O	3.625	24.452	29.114
H	3.218	24.258	28.27
H	3.49	25.392	29.234
O	6.652	23.165	7.563
H	5.94	23.625	7.117
H	6.424	22.239	7.486
O	6.307	20.313	6.796
H	5.732	20.347	7.561
H	7.167	20.091	7.153
O	5.727	16.408	23.623
H	4.838	16.737	23.752
H	6.176	16.598	24.447
O	2.533	16.056	10.036
H	2.797	16.626	10.757
H	2.542	15.175	10.411
O	1.654	17.855	31.858
H	1.016	18.441	31.453
H	1.63	17.065	31.319
O	5.582	11.634	25.208
H	5.295	11.249	24.379
H	6.379	11.152	25.432
O	8.719	11.419	14.191
H	8.544	10.991	15.029
H	9.495	11.956	14.354
O	6.273	23.876	28.295
H	5.336	24.071	28.309
H	6.473	23.596	29.188
O	7.502	15.379	6.721
H	7.356	16.087	6.093
H	8.428	15.158	6.621
O	6.503	23.859	13.896
H	7.332	23.712	14.352
H	6.243	24.744	14.152
O	-0.864	20.421	27.416
H	-0.999	21.234	27.905
H	-1.027	20.661	26.504
O	13.069	12.808	13.633
H	13.689	12.119	13.395
H	13.468	13.241	14.388
O	6.632	18.898	19.134
H	6.882	18.464	19.949
H	6.162	18.226	18.64
O	4.124	21.273	16.129

H	3.35	21.534	16.628
H	4.86	21.629	16.627
O	10.827	15.006	21.802
H	11.27	15.512	21.121
H	10.502	15.664	22.417
O	11.4	11.911	26.723
H	12.157	12.312	27.149
H	11.041	12.605	26.17
O	3.261	17.644	23.186
H	2.591	17.011	22.925
H	2.892	18.08	23.954
O	8.779	9.041	16.468
H	9.601	8.686	16.807
H	8.641	9.844	16.97
O	11.083	14.387	17.521
H	10.829	15.24	17.873
H	11.042	14.498	16.572
O	5.413	14.961	12.896
H	5.8	14.634	12.084
H	6.119	15.452	13.317
O	13.664	10.862	21.141
H	13.498	10.818	20.199
H	13.795	11.794	21.317
O	-0.71	23.215	14.01
H	-1.103	23.669	13.264
H	-1.154	22.368	14.036
O	8.069	13.676	10.149
H	7.756	14.578	10.086
H	8.456	13.497	9.292
O	10.412	23.596	16.652
H	10.728	24.219	17.306
H	10.385	24.097	15.837
O	7.234	18.164	22.144
H	7.628	18.837	22.698
H	6.779	17.586	22.756
O	3.627	10.43	19.518
H	4.527	10.501	19.2
H	3.137	11.062	18.991
O	-0.682	23.494	18.373
H	-0.182	23.657	17.574
H	-0.783	22.543	18.404
O	2.237	25.187	17.955
H	2.404	24.257	18.109
H	1.633	25.202	17.212
O	-2.174	13.688	22.493
H	-1.449	13.474	21.905
H	-2.204	12.958	23.111

O	5.534	13.837	16.786
H	6.369	13.912	16.323
H	4.893	13.663	16.096
O	5.395	8.355	14.092
H	5.816	8.521	13.249
H	5.609	9.123	14.622
O	3.976	13.497	14.707
H	4.316	14.117	14.062
H	3.096	13.285	14.395
O	9.675	23.694	10.775
H	9.012	23.8	10.092
H	9.783	24.572	11.142
O	1.489	9.144	23.571
H	2.192	9.184	24.22
H	0.955	9.918	23.749
O	5.391	21.911	19.72
H	5.166	21.406	20.501
H	5.839	21.286	19.15
O	12.569	24.472	7.065
H	12.548	24.004	6.23
H	12.711	25.387	6.823
O	14.777	24.405	4.634
H	14.044	25.004	4.5
H	14.368	23.581	4.9
O	12.741	18.302	11.121
H	11.822	18.561	11.053
H	13.228	19.063	10.804
O	9.448	11.714	4.87
H	10.136	11.251	4.392
H	9.076	12.319	4.229
O	7.156	17.716	5.352
H	6.524	18.238	5.846
H	7.011	17.965	4.439
O	1.5	18.804	12.493
H	2.136	18.091	12.448
H	2.028	19.587	12.65
O	5.821	22.106	11.546
H	6.054	21.497	12.247
H	5.888	22.972	11.949
O	5.855	18.556	9.479
H	5.073	18.545	8.927
H	5.735	19.315	10.049
O	7.844	17.634	2.736
H	6.959	17.315	2.557
H	8.41	17.085	2.195
O	10.039	25.203	5.163
H	9.754	25.149	4.251

H	10.951	25.489	5.112
O	3.799	11.957	9.042
H	2.9	11.643	8.941
H	3.756	12.884	8.809
O	17.704	30.231	4.664
H	16.992	29.592	4.69
H	17.653	30.681	5.507
O	2.897	22.367	18.607
H	2.381	22.61	19.376
H	3.805	22.41	18.905
O	3.647	14.43	7.9
H	3.874	15.139	8.503
H	3.352	14.876	7.106
O	6.791	10.488	31.169
H	6.071	10.783	30.612
H	7.44	11.19	31.115
O	1.257	12.786	25.718
H	1.65	12.075	26.224
H	2.003	13.281	25.38
O	9.658	11.537	32.303
H	9.931	12.423	32.541
H	10.377	11.199	31.77
O	9.318	7.327	31.798
H	9.709	6.665	31.228
H	9.129	8.063	31.215
O	12.931	3.273	17.436
H	12.703	3.692	16.607
H	12.125	3.307	17.951
O	7.251	6.844	15.615
H	6.588	7.247	15.053
H	7.767	7.581	15.942
O	2.558	12.333	18.335
H	3.227	13.006	18.461
H	1.729	12.788	18.484
O	3.128	5.841	20.993
H	2.741	5.388	20.244
H	2.93	6.766	20.843
O	0.115	11.654	20.84
H	0.054	11.458	21.775
H	0.577	12.492	20.801
O	4.807	11.141	12.472
H	5.275	11.949	12.681
H	5.358	10.445	12.831
O	5.73	5.914	22.26
H	4.929	5.588	21.849
H	5.814	6.812	21.941
O	4.03	5.98	13.706

H	4.191	5.319	14.379
H	4.616	6.702	13.934
O	6.717	9.08	11.526
H	7.552	9.269	11.955
H	6.757	9.563	10.701
O	4.226	5.182	25.084
H	3.286	5.346	25.166
H	4.283	4.325	24.662
O	8.689	4.629	29.333
H	8.708	4.631	28.376
H	9.516	5.037	29.59
O	8.687	16.129	12.3
H	8.632	16.325	11.364
H	8.437	15.207	12.366
O	10.657	7.817	17.783
H	10.612	6.874	17.626
H	11.563	8.05	17.581
O	4.919	11.137	22.608
H	5.588	10.882	21.972
H	4.279	11.632	22.097
O	10.74	3.03	19.242
H	11.464	2.668	19.752
H	9.958	2.618	19.609
O	8.35	7.322	8.341
H	7.428	7.472	8.546
H	8.606	8.083	7.819
O	5.473	5.613	17.633
H	6.216	5.525	18.229
H	5.848	5.988	16.836
O	2.432	10.593	26.866
H	2.736	9.868	26.32
H	2.518	10.269	27.763
O	1.934	10.309	12.403
H	2.875	10.475	12.459
H	1.825	9.428	12.761
O	3.479	13.834	29.747
H	3.124	13.02	30.104
H	2.83	14.499	29.977
O	14.027	13.954	10.726
H	13.286	14.48	10.426
H	13.64	13.308	11.316
O	12.289	4.021	10.767
H	11.396	4.363	10.731
H	12.763	4.52	10.102
O	4.941	10.54	15.659
H	4.883	10.595	16.613
H	4.572	11.367	15.349

O	6.883	16.082	9.474
H	6.474	16.936	9.614
H	6.708	15.881	8.554
O	6.333	11.028	9.802
H	5.588	11.333	9.284
H	6.387	11.646	10.53
O	9.439	9.527	6.601
H	9.69	10.061	5.847
H	8.541	9.795	6.796

Table S21. PYP chromophore + 94 waters (precision data for Figure 3)

C	24.87854583	16.93508185	19.77644434
C	26.06455366	16.41537534	20.26443393
C	27.24438489	16.91126685	19.73714606
C	27.18116731	17.84022176	18.70588369
C	25.96663472	18.3361054	18.20122322
C	24.77863403	17.88683787	18.77242889
S	23.21217583	16.26416599	20.45740647
C	22.35365666	17.74837809	21.15466747
C	21.07064747	17.48397556	21.79480065
O	22.82585138	18.86945907	20.93316262
C	20.27198543	18.43109907	22.39945912
C	18.98339378	18.13741276	23.0334717
C	18.43442228	19.04319889	23.93319941
C	17.17598267	18.867445	24.48468975
C	16.36920274	17.73084068	24.12323415
C	17.01900732	16.74868902	23.28583511
C	18.24722522	17.0109762	22.69905442
O	15.1447425	17.4540968	24.52964162
H	26.00796207	15.66070546	21.04732886
H	28.2300527	16.59089817	20.02432207
H	28.12774586	18.0812081	18.23676255
H	25.89750853	18.97643559	17.36328565
H	23.844691	18.33664122	18.53946663
H	20.64170195	16.48055584	21.71227483
H	20.61252427	19.46554487	22.53547447
H	19.10891647	19.83675218	24.16754114
H	16.77248308	19.43057637	25.28612393
H	16.47720206	15.88521723	23.10637012
H	18.6213429	16.26121226	22.05042644
O	15.92437658	10.64357998	17.97337591
H	15.17938383	10.31707415	18.50034119
H	15.69565438	11.54156085	17.6446522
O	21.09832719	23.81224548	21.61045666
H	20.52179784	24.19458342	22.30885443
H	21.15124706	24.6012731	21.0314029
O	20.47708653	17.39530709	28.7865276
H	21.19144109	17.07471448	28.21725847
H	20.52821622	16.68253476	29.42372927
O	20.80134603	20.79658423	25.05925307
H	21.19492989	21.23067913	24.30744811
H	21.60951881	20.64591707	25.49452615
O	23.52054676	18.82946132	16.55196016
H	22.65909536	18.40160485	16.4501054
H	24.09273545	18.4979726	15.86932382
O	17.87111763	11.17820496	16.02331125

H	17.75825346	10.667634	15.24872738
H	17.33059709	10.70614585	16.67057882
O	20.84025139	18.14118676	16.94126412
H	20.31331969	17.8597376	17.72229658
H	20.34858457	17.66786379	16.28486305
O	20.22232616	14.76072518	21.50807285
H	20.10550015	13.81921528	21.4812513
H	19.73963168	14.96126177	20.70140318
O	21.19521158	20.62666188	18.01087294
H	21.0406611	19.79455497	17.57262623
H	21.37755211	21.06530682	17.17087256
O	23.84144816	15.60251351	16.2814173
H	23.64549308	16.14596271	17.0360695
H	23.17029356	14.91064572	16.22808949
O	19.64215896	14.05721798	24.18567415
H	19.32639968	14.43964723	25.01805866
H	19.61917033	14.80788126	23.57068137
O	18.35860499	18.63390744	27.65461787
H	19.18289385	18.33362477	28.0837124
H	17.73390546	17.92747327	27.93632535
O	11.559682	18.77720051	25.09399588
H	12.0497438	17.95188067	24.99210858
H	10.90037753	18.72356845	25.81357258
O	13.63775064	17.22823601	22.40866174
H	13.14121651	18.01577332	22.69953429
H	14.29880623	17.1413041	23.1220196
O	18.85732157	18.0240199	19.13093421
H	19.46480616	18.74459057	19.31852851
H	17.99975158	18.4039384	19.01750651
O	23.34377667	15.92442951	13.24914415
H	22.52758957	15.70863199	13.71911872
H	23.54202303	15.14772972	12.7475841
O	19.96137619	21.64460836	20.37729693
H	20.39039007	21.45585798	19.5315199
H	20.54593149	22.31450664	20.68715835
O	18.146802	16.90039519	15.45758641
H	17.2939276	16.46290407	15.51455272
H	17.90216337	17.71629424	15.90733526
O	19.73962872	24.50240955	23.86991087
H	18.98211294	23.9677852	24.13841076
H	20.46581312	24.26567868	24.43062405
O	15.54579778	16.20253799	16.36337759
H	15.72372157	17.1015871	16.67525978
H	14.71914975	16.01815912	16.84274015
O	22.97797023	21.38241805	13.10711794
H	23.8018045	21.71794706	12.69965302
H	22.99264343	20.44059331	12.94107198

O	14.39866736	9.892369175	20.54409901
H	13.92130081	9.459013201	21.26545527
H	15.24064662	9.998844677	21.013136
O	18.5177019	21.24004756	26.76273746
H	18.63118798	20.33257836	27.05805394
H	19.36383617	21.41624442	26.32098503
O	15.936212	13.43395535	17.06918627
H	15.425141	13.63698678	17.85346062
H	15.79950881	14.28783339	16.67971368
O	12.70639179	16.46331836	25.88735719
H	13.16696203	16.77475147	26.69397
H	13.32694521	16.72462849	25.1966184
O	23.9201778	16.43316004	24.49825512
H	23.89394076	15.55320618	24.0426605
H	23.18743345	16.80658655	23.9991502
O	22.43813852	21.79532106	22.89956977
H	21.98501871	22.56005727	22.47990778
H	22.86985795	21.29106476	22.20644741
O	13.19464392	8.867385256	23.07134624
H	13.88265201	8.273766732	23.42758008
H	12.86853299	9.414957911	23.81257799
O	17.69335303	20.88186411	18.2831471
H	18.51640802	21.35121565	18.23666362
H	17.42918664	20.96284931	19.20431265
O	14.8726375	20.62467252	20.71847574
H	14.77103241	21.03617002	21.5502667
H	15.81143832	20.75540666	20.53286587
O	17.49319546	20.37240771	20.98231526
H	18.28710937	20.90812565	21.14136244
H	17.46564003	19.83332619	21.75324607
O	13.78623731	19.58623316	23.52977957
H	14.38243825	18.87845095	23.81352728
H	13.03037361	19.52514081	24.14486089
O	23.2666381	21.32152477	19.96799697
H	23.06784815	20.45056341	20.33589724
H	23.09494387	21.12193662	19.05298632
O	24.22438164	23.88310087	20.46457737
H	24.99233229	23.29639064	20.43698264
H	23.49541985	23.24579738	20.39341024
O	21.3130103	14.54357744	15.74011665
H	20.57448477	14.77760287	15.17670491
H	20.88554031	14.06661796	16.4539949
O	15.1600507	21.85057835	24.64915773
H	15.71154715	22.31108433	24.03009912
H	14.96503956	21.05976018	24.14313597
O	26.54102591	17.06885369	12.53136084
H	26.4373976	17.03325723	13.49553253

H	25.6637909	17.23396131	12.17702832
O	19.71493054	21.52770041	13.65758031
H	20.06422465	21.62199365	14.51860309
H	20.36077634	21.89846627	13.06027556
O	16.63665823	10.08020912	22.18672634
H	17.31265524	10.46009771	21.62230497
H	16.69557378	10.67968909	22.91356423
O	15.4032689	14.97797048	25.46486288
H	15.3412437	15.87638088	25.0955521
H	15.05628632	14.56347141	24.6717462
O	13.89569208	12.3937151	21.50089863
H	13.21622792	12.69583542	20.90879598
H	13.92981442	11.45773733	21.34399266
O	16.68609305	16.43598667	27.76533181
H	16.40122539	15.55803913	27.45694095
H	15.87454279	16.92772257	27.94475582
O	20.69776516	17.54214441	25.75729744
H	20.8075923	18.29709248	25.14750738
H	19.77876883	17.66161103	26.02917167
O	14.64216865	18.27128765	26.85624433
H	15.1572313	19.03485067	27.13087799
H	14.84332232	18.18574493	25.91536341
O	19.06292504	13.47623742	16.90728785
H	19.27067963	12.58363417	17.18474434
H	18.19455172	13.29188824	16.55860089
O	14.76362159	18.05662106	19.92156302
H	14.48042017	19.00295919	19.95849309
H	14.43129653	17.84093047	20.80503026
O	22.49530419	16.07631002	27.30237171
H	23.14454548	16.3888746	26.68139862
H	21.7235078	16.35340276	26.79104657
O	17.47946044	23.40517547	25.38355097
H	16.58440633	23.2305845	25.7074843
H	17.90094335	22.60580746	25.75151328
O	15.72785587	15.23066492	19.66264029
H	15.50366754	16.18763142	19.81565109
H	16.68502143	15.25688609	19.73786414
O	22.71389317	14.19669695	23.43246996
H	21.77194152	14.0106508	23.34082708
H	22.93883975	14.13158001	22.47698514
O	18.40315499	14.87664535	26.54493535
H	17.53115905	14.89803898	26.1809807
H	18.38263398	15.7005588	27.04645538
O	16.25223427	18.50658958	17.65632003
H	16.6573321	19.27835161	18.09614273
H	15.529675	18.32218758	18.25757477
O	17.73253023	12.47895622	22.77095582

H	18.46579493	12.84769938	23.26405824
H	16.94434316	12.78876554	23.24535686
O	15.73279259	20.6748966	27.14887382
H	16.67465259	20.78211873	27.10191628
H	15.47600727	21.3597496	26.53965943
O	21.9035445	22.01482976	15.76622599
H	22.130963	22.94100632	15.87174653
H	22.240538	21.72897772	14.88470577
O	22.7573407	18.57706816	12.98803121
H	23.04764556	17.67288009	13.14123691
H	22.00000578	18.45976674	13.55898948
O	20.29113362	17.45612778	14.11194992
H	19.58779629	17.14157892	14.68652511
H	19.76358582	17.54168304	13.30812845
O	26.12714656	16.76165744	15.35006712
H	26.38183406	17.02996332	16.2351654
H	25.47427775	16.14416821	15.63975802
O	18.70815339	15.24010028	19.07860623
H	18.74395648	16.21686712	19.07336969
H	18.79066026	14.97487634	18.16569922
O	13.15579525	10.06379969	25.65921137
H	13.28563052	10.02305858	26.60022613
H	13.04363562	11.01582263	25.48907041
O	15.05703262	14.48133116	22.81546685
H	14.95240257	13.56227209	22.48875717
H	14.98583535	14.91712734	21.9876846
O	13.35239907	12.89633095	25.73903757
H	12.67510509	13.59331056	25.73185644
H	14.12695527	13.47126661	25.89014688
O	21.11766417	32.21470289	17.71558479
H	22.00895923	32.15769644	17.38880979
H	21.01410813	33.13557306	17.92892915

Table S22. photoactive yellow protein (PYP) + MM waters

Method	Time(s)	Iterations	E (eV)	f
CIS	4266.1	9	3.69	1.6
TD-BLYP	-	-	-	-
TD-B3LYP	4991.6	11	3.02	0.0

N	29.159	14.358	43.703
H	28.468	14.167	44.415
H	29.986	14.488	44.268
H	29.207	13.591	43.047
C	28.75	15.516	42.872
H	29.439	15.746	42.06
C	27.325	15.328	42.242
H	26.515	15.639	42.902
H	27.316	16.052	41.427
C	26.988	14.024	41.609
H	27.122	13.255	42.369
H	25.97	13.988	41.218
S	28.012	13.489	40.169
C	27.207	14.598	39.028
H	27.351	15.599	39.436
H	27.785	14.567	38.104
H	26.176	14.288	38.863
C	28.721	16.783	43.684
O	28.703	16.756	44.919
N	28.793	17.961	43.118
H	28.965	18.01	42.124
C	28.651	19.305	43.742
H	28.957	19.128	44.774
C	29.586	20.345	43.069
H	29.408	20.109	42.02
H	29.221	21.354	43.263
C	31.084	20.241	43.392
H	31.366	19.283	42.955
H	31.664	20.946	42.795
C	31.423	20.119	44.886
O	30.934	21.025	45.515
O	32.226	19.245	45.409
C	27.22	19.726	43.679
O	26.574	19.53	42.678
N	26.675	20.28	44.808
H	27.285	20.459	45.594
C	25.21	20.581	44.839
H	24.767	20.016	44.019
C	24.546	19.988	46.119
H	25.131	20.24	47.004
H	23.524	20.334	46.271

C	24.641	18.452	46.187
N	23.831	17.531	45.413
C	24.45	16.336	45.518
H	24.189	15.433	44.986
N	25.627	16.407	46.226
H	26.239	15.615	46.363
C	25.74	17.708	46.658
H	26.626	18.164	47.075
C	24.877	22.028	44.488
O	24.173	22.631	45.284
N	25.327	22.537	43.379
H	25.6	21.816	42.727
C	24.947	23.874	42.786
H	24.818	24.536	43.642
C	26.171	24.411	41.956
H	26.366	23.779	41.09
C	25.91	25.868	41.509
H	25.458	25.87	40.517
H	25.191	26.343	42.177
H	26.885	26.352	41.551
C	27.489	24.379	42.718
H	27.733	23.432	43.198
H	28.319	24.474	42.018
H	27.458	25.142	43.496
C	23.672	23.702	41.927
O	23.386	22.691	41.247
N	22.844	24.759	41.95
H	23.08	25.482	42.615
C	21.71	24.932	41.017
H	21.359	23.969	40.647
C	20.537	25.578	41.819
H	20.804	26.571	42.181
H	19.597	25.599	41.267
H	20.3	24.913	42.649
C	22.152	25.8	39.81
O	23.091	26.629	39.837
N	21.575	25.653	38.622
H	20.755	25.077	38.505
C	22.036	26.134	37.344
H	23.125	26.082	37.381
C	21.469	25.268	36.222
H	21.691	24.247	36.533
H	20.38	25.215	36.257
C	21.943	25.579	34.802
C	21.349	26.543	33.968
H	20.629	27.191	34.445
C	21.836	26.811	32.698

H	21.37	27.663	32.226
C	22.836	26.029	32.162
H	23.206	26.173	31.157
C	23.434	25.003	32.918
H	24.176	24.338	32.502
C	23.001	24.796	34.266
H	23.553	24.107	34.888
C	21.64	27.642	37.202
O	20.598	28.106	37.498
N	22.701	28.388	36.872
H	23.599	27.992	36.635
C	22.639	29.802	36.805
H	23.657	30.098	36.55
H	21.994	30.09	35.975
C	22.195	30.592	37.967
O	21.638	31.671	37.876
N	22.428	29.993	39.191
H	22.62	29.001	39.163
C	21.997	30.587	40.42
H	20.941	30.85	40.358
C	22.201	29.596	41.59
H	22.113	30.132	42.535
H	21.356	28.91	41.527
O	23.376	28.842	41.539
H	23.246	28.164	40.872
C	22.619	31.998	40.675
O	23.72	32.359	40.279
N	21.931	32.894	41.451
H	20.97	32.675	41.674
C	22.333	34.324	41.64
H	22.366	34.846	40.684
C	21.285	35.056	42.402
H	21.247	34.524	43.353
H	21.582	36.085	42.605
C	19.928	35.241	41.683
H	20.074	35.747	40.729
H	19.514	34.277	41.386
C	18.977	35.847	42.654
O	18.947	37.089	42.599
O	18.324	35.101	43.458
C	23.729	34.508	42.34
O	24.305	35.545	42.125
N	24.214	33.594	43.159
H	23.747	32.739	43.428
C	25.625	33.628	43.566
H	26.024	34.606	43.298
C	25.664	33.414	45.149

H	26.667	33.523	45.56
H	25.17	34.276	45.597
C	25.068	32.027	45.597
O	24.578	31.26	44.742
O	25.088	31.727	46.792
C	26.584	32.689	42.88
O	27.664	32.493	43.437
N	26.265	32.058	41.776
H	25.405	32.289	41.3
C	27.09	30.993	41.187
H	27.085	30.118	41.836
C	26.393	30.46	39.907
H	25.384	30.387	40.314
C	26.351	31.492	38.817
H	27.32	31.552	38.322
H	25.534	31.115	38.204
H	26.11	32.459	39.26
C	26.852	29.066	39.486
H	27.807	29.284	39.009
H	26.953	28.479	40.399
C	25.887	28.411	38.525
H	25.673	29.063	37.679
H	26.298	27.504	38.083
H	24.919	28.123	38.936
C	28.619	31.306	41.002
O	29.449	30.501	41.285
N	28.97	32.52	40.679
H	28.28	33.236	40.504
C	30.389	32.978	40.537
H	30.994	32.349	39.884
C	30.552	34.33	39.905
H	31.578	34.693	39.957
H	30.16	34.254	38.891
C	29.747	35.578	40.479
H	29.704	35.536	41.567
H	30.327	36.452	40.18
C	28.277	35.685	39.959
O	27.443	34.749	40.219
O	27.91	36.782	39.559
C	31.1	32.942	41.873
O	32.257	32.574	41.957
N	30.335	33.137	42.944
H	29.345	33.264	42.793
C	30.896	33.098	44.339
H	31.9	33.52	44.376
C	29.955	33.997	45.14
H	28.931	33.76	44.851

H	30.089	33.74	46.191
C	30.156	35.494	45.047
O	29.468	36.096	44.224
N	31.234	36.014	45.612
H	31.548	36.942	45.367
H	31.8	35.466	46.243
C	30.994	31.687	44.765
O	32.048	31.217	45.206
N	29.925	30.907	44.582
H	29.074	31.337	44.251
C	29.982	29.4	44.876
H	30.246	29.31	45.93
C	28.593	28.779	44.553
H	28.576	28.889	43.469
C	28.379	27.326	44.97
H	28.939	26.548	44.453
H	28.534	27.26	46.047
H	27.336	27.141	44.711
O	27.569	29.579	45.141
H	26.785	29.36	44.632
C	31.075	28.672	44.075
O	31.724	27.824	44.679
N	31.354	29.086	42.814
H	30.573	29.582	42.409
C	32.383	28.494	41.997
H	32.56	27.448	42.25
C	31.873	28.435	40.53
H	31.381	29.396	40.376
H	32.594	28.476	39.714
C	31.049	27.172	40.213
H	31.704	26.317	40.376
C	29.86	26.893	41.147
H	30.059	26.818	42.216
H	29.161	27.713	40.983
H	29.466	25.928	40.829
C	30.559	27.121	38.784
H	31.406	27.251	38.11
H	30.109	26.155	38.554
H	29.849	27.917	38.56
C	33.768	29.124	42.152
O	34.723	28.398	41.824
N	33.976	30.235	42.802
H	33.175	30.741	43.151
C	35.292	30.836	42.999
H	35.776	30.858	42.022
C	35.129	32.27	43.47
H	36.072	32.68	43.829

H	34.69	32.917	42.71
H	34.501	32.239	44.36
C	36.197	29.94	43.858
O	37.403	29.926	43.62
N	35.621	29.194	44.814
H	34.622	29.335	44.861
C	36.306	28.315	45.735
H	37.292	28.704	45.989
C	35.567	28.258	47.099
H	35.966	27.544	47.819
H	35.532	29.181	47.678
C	34.092	28.03	46.806
H	33.605	28.886	46.338
H	33.928	27.181	46.142
C	33.282	27.794	48.137
H	33.504	26.79	48.5
H	33.638	28.445	48.935
C	31.738	27.951	47.954
H	31.465	28.914	47.523
H	31.455	27.151	47.269
N	31.054	27.878	49.258
H	30.056	27.772	49.145
H	31.372	27.061	49.758
H	31.223	28.694	49.829
C	36.644	26.915	45.099
O	37.156	26.048	45.847
N	36.493	26.755	43.795
H	36.151	27.522	43.235
C	36.656	25.442	43.174
H	36.815	24.697	43.954
C	35.375	25.032	42.396
H	35.163	25.732	41.588
H	35.542	24.039	41.979
C	34.171	25.073	43.224
H	34.316	24.349	44.026
H	33.954	26.042	43.673
S	32.651	24.474	42.467
C	31.416	24.148	43.75
H	31.319	25.041	44.367
H	30.441	23.998	43.287
H	31.806	23.341	44.371
C	37.963	25.301	42.326
O	38.299	26.206	41.571
N	38.592	24.148	42.359
H	38.233	23.554	43.093
C	39.565	23.642	41.442
H	40.076	24.486	40.979

C	40.69	22.91	42.166
H	41.289	23.56	42.805
H	40.245	22.075	42.706
C	41.713	22.363	41.132
O	41.529	21.296	40.541
O	42.542	23.189	40.666
C	38.927	22.829	40.284
O	37.822	22.354	40.377
N	39.512	22.696	39.077
H	40.45	23.046	38.946
C	39.024	21.9	37.982
H	38.078	22.34	37.668
C	39.976	21.902	36.768
H	39.573	21.256	35.987
H	40.101	22.904	36.358
C	41.378	21.42	37.066
O	41.477	20.263	37.411
O	42.276	22.26	37.155
C	38.597	20.469	38.38
O	37.52	20.016	38.075
N	39.346	19.851	39.229
H	40.229	20.293	39.442
C	38.928	18.598	39.773
H	38.917	17.927	38.914
H	39.626	18.203	40.512
C	37.633	18.618	40.501
O	36.957	17.566	40.638
N	37.194	19.769	40.992
H	37.733	20.573	40.703
C	35.885	20.077	41.636
H	35.617	19.126	42.096
C	36.069	21.062	42.804
H	36.894	20.622	43.363
H	36.295	22.061	42.431
C	34.811	21.03	43.741
H	34.028	21.545	43.184
H	34.498	19.992	43.853
C	35.017	21.638	45.074
O	35.942	22.363	45.302
N	34.125	21.38	46.062
H	34.325	21.837	46.94
H	33.323	20.794	45.879
C	34.836	20.509	40.536
O	33.716	19.988	40.555
N	35.19	21.262	39.515
H	36.183	21.445	39.474
C	34.283	21.648	38.396

H	33.393	21.951	38.946
C	34.882	22.758	37.609
H	35.825	22.491	37.132
H	34.122	22.988	36.863
C	35.204	24.125	38.399
H	35.859	23.903	39.24
C	35.89	25.15	37.385
H	35.199	25.56	36.649
H	36.319	25.898	38.053
H	36.726	24.624	36.924
C	33.938	24.74	38.902
H	33.524	24.131	39.705
H	34.219	25.727	39.271
H	33.256	25.001	38.093
C	33.903	20.386	37.588
O	32.803	20.32	37.068
N	34.777	19.408	37.52
H	35.716	19.674	37.78
C	34.404	18.166	36.917
H	34.001	18.326	35.917
C	35.766	17.297	36.8
H	36.254	17.203	37.77
H	35.45	16.278	36.579
C	36.754	17.762	35.812
O	36.252	18.374	34.836
O	38.012	17.427	35.831
C	33.268	17.326	37.545
O	32.841	16.253	37.106
N	32.8	17.737	38.75
H	33.13	18.607	39.141
C	31.812	17.127	39.583
H	31.76	16.049	39.434
H	32.084	17.288	40.626
C	30.371	17.786	39.499
O	29.508	17.305	40.205
N	30.165	18.847	38.712
H	30.92	19.099	38.09
C	28.837	19.419	38.55
H	28.318	19.62	39.487
C	28.989	20.742	37.747
H	29.413	20.622	36.75
H	28.002	21.162	37.548
C	29.911	21.833	38.391
H	30.817	21.37	38.782
C	30.292	22.843	37.286
H	30.429	23.835	37.717
H	31.168	22.469	36.755

H	29.525	22.988	36.525
C	29.34	22.502	39.592
H	29.004	21.742	40.297
H	30.098	23.127	40.063
H	28.378	22.931	39.31
C	27.859	18.49	37.879
O	28.337	17.462	37.289
N	26.535	18.648	37.947
H	26.223	19.438	38.493
C	25.592	17.97	37.116
H	25.986	16.973	36.919
C	24.377	17.648	38.021
H	24.619	16.921	38.797
H	24.04	18.583	38.468
H	23.626	17.229	37.35
C	25.194	18.642	35.685
O	24.265	18.163	35.058
N	25.95	19.595	35.348
H	26.672	19.784	36.029
C	25.904	20.382	34.126
H	25.381	19.795	33.371
C	24.917	21.551	34.397
H	24.914	22.275	33.583
H	23.906	21.194	34.2
C	25.091	22.186	35.722
C	26.107	23.159	35.905
H	26.751	23.378	35.066
C	26.245	23.853	37.153
H	26.974	24.641	37.279
C	25.431	23.509	38.203
H	25.591	23.958	39.172
C	24.525	22.445	38.072
H	23.916	22.102	38.895
C	24.314	21.792	36.821
H	23.53	21.05	36.791
C	27.327	20.888	33.68
O	28.224	20.973	34.54
N	27.494	21.285	32.42
H	26.712	21.264	31.782
C	28.74	21.735	31.921
H	29.573	21.145	32.304
H	28.637	21.724	30.836
C	29.067	23.2	32.435
O	28.165	24.025	32.604
N	30.413	23.498	32.542
H	31.065	22.778	32.267
C	30.926	24.752	33.028

H	30.161	25.528	33.032
C	31.329	24.535	34.522
H	31.719	23.52	34.597
H	32.063	25.248	34.898
H	30.44	24.589	35.15
C	32.16	25.226	32.268
O	33.14	24.413	32.051
N	32.238	26.491	31.853
H	31.423	27.061	32.031
C	33.429	27.057	31.186
H	34.312	26.428	31.301
C	33.341	27.093	29.661
H	32.596	27.818	29.335
C	34.742	27.424	28.971
H	35.33	26.51	28.889
H	34.647	27.975	28.036
H	35.394	27.962	29.66
C	32.852	25.737	29.101
H	33.455	24.895	29.442
H	31.855	25.554	29.502
C	32.642	25.611	27.599
H	32.041	26.472	27.309
H	33.561	25.832	27.056
H	32.062	24.736	27.306
C	33.778	28.442	31.693
O	32.841	29.258	31.827
N	35.014	28.741	32.103
H	35.69	27.991	32.105
C	35.41	30.066	32.492
H	34.533	30.693	32.653
C	36.103	29.997	33.866
H	35.535	29.301	34.483
H	37.118	29.61	33.778
C	36.04	31.332	34.679
H	36.151	32.235	34.077
H	35.031	31.483	35.062
C	37.068	31.326	35.828
O	38.02	30.621	35.843
N	36.768	32.031	36.887
H	37.331	31.809	37.696
H	36.027	32.708	37
C	36.368	30.593	31.433
O	37.067	29.823	30.781
N	36.413	31.929	31.227
H	35.939	32.545	31.873
C	36.934	32.616	29.93
H	37.632	31.984	29.38

C	35.809	32.995	28.944
H	35.078	33.692	29.353
H	36.399	33.476	28.163
C	34.953	31.792	28.503
H	34.453	31.257	29.31
C	33.738	32.184	27.661
H	33.326	31.263	27.249
H	33.011	32.793	28.199
H	34.193	32.828	26.909
C	35.752	30.757	27.693
H	36.257	31.301	26.894
H	36.447	30.289	28.39
H	35.082	30.011	27.266
C	37.737	33.871	30.342
O	37.224	34.754	31.087
N	38.931	34.038	29.712
H	39.192	33.317	29.055
C	39.427	35.369	29.372
H	39.418	36.084	30.195
C	40.855	35.208	28.828
H	41.52	34.992	29.664
H	40.798	34.344	28.166
C	41.43	36.482	28.03
O	42.137	36.153	27.101
O	41.139	37.717	28.328
C	38.432	36.03	28.347
O	37.847	35.361	27.479
N	38.293	37.335	28.38
H	38.711	37.904	29.103
C	37.346	37.963	27.482
H	36.466	37.349	27.291
H	37.022	38.94	27.843
C	37.826	38.213	26.045
O	37.037	38.415	25.099
N	39.14	38.042	25.82
H	39.634	37.614	26.589
C	39.719	37.971	24.426
H	39.042	38.568	23.816
C	41.197	38.483	24.339
H	41.813	37.889	25.015
H	41.687	38.358	23.373
C	41.192	39.913	24.735
O	40.584	40.702	23.996
O	42.022	40.328	25.601
C	39.426	36.572	23.811
O	39.482	36.463	22.578
N	39.042	35.572	24.599

H	38.961	35.612	25.605
C	38.504	34.262	24.132
H	37.424	34.155	24.23
H	38.653	34.308	23.053
C	39.069	33.047	24.738
O	38.539	31.969	24.55
N	40.121	33.178	25.569
H	40.199	34.019	26.123
C	40.834	32.029	26.001
H	40.965	31.322	25.182
C	42.27	32.43	26.249
H	42.332	33.079	27.123
H	42.941	31.573	26.308
C	42.813	33.167	25.028
O	43.341	32.559	24.061
N	42.758	34.477	25.078
H	43.002	35.094	24.316
H	42.425	34.861	25.95
C	40.208	31.24	27.183
O	39.799	31.788	28.165
N	40.127	29.968	27.011
H	40.543	29.513	26.211
C	39.444	29.059	27.995
H	38.469	29.39	28.353
C	39.205	27.705	27.414
H	40.1	27.233	27.008
C	38.597	26.729	28.453
H	39.327	26.546	29.242
H	37.666	27.088	28.891
H	38.436	25.72	28.074
C	38.196	27.844	26.207
H	37.182	27.928	26.596
H	38.374	28.789	25.694
C	38.292	26.693	25.199
H	37.368	26.687	24.62
H	39.092	26.866	24.48
H	38.351	25.729	25.703
C	40.388	28.953	29.206
O	41.415	28.338	29.103
N	40.004	29.491	30.353
H	39.114	29.967	30.334
C	40.64	29.424	31.74
H	41.72	29.57	31.768
C	40.121	30.559	32.688
H	39.127	30.378	33.097
H	40.774	30.501	33.559
C	39.963	31.954	32.11

H	39.309	31.956	31.238
C	39.357	32.969	33.12
H	39.651	33.988	32.867
H	38.269	32.923	33.061
H	39.712	32.781	34.133
C	41.36	32.44	31.754
H	41.665	31.769	30.951
H	41.428	33.415	31.271
H	42.096	32.295	32.544
C	40.231	28.109	32.451
O	41.13	27.476	32.945
N	38.982	27.628	32.259
H	38.306	28.224	31.802
C	38.499	26.391	32.893
H	39.321	25.676	32.902
C	37.886	26.695	34.263
H	37.023	27.346	34.124
H	37.441	25.772	34.637
C	38.782	27.305	35.349
H	39.297	28.182	34.958
H	38.268	27.546	36.279
C	39.913	26.386	35.887
O	40.21	25.343	35.301
N	40.454	26.616	37.076
H	40.294	27.518	37.501
H	41.258	26.1	37.406
C	37.458	25.693	32.01
O	36.625	26.374	31.384
N	37.441	24.34	31.909
H	37.965	23.764	32.552
C	36.394	23.597	31.238
H	35.529	24.255	31.156
C	36.918	23.425	29.784
H	37.288	24.345	29.33
H	37.768	22.747	29.853
C	36.005	22.828	28.77
C	35.833	21.451	28.796
H	36.421	20.8	29.427
C	35.105	20.837	27.76
H	34.972	19.774	27.896
C	34.55	21.613	26.746
O	33.916	20.973	25.712
H	33.327	21.561	25.233
C	34.708	22.976	26.728
H	34.304	23.532	25.896
C	35.38	23.573	27.809
H	35.671	24.611	27.752

C	36.226	22.227	31.92
O	37.229	21.643	32.382
N	35.031	21.647	31.885
H	34.345	22.21	31.403
C	34.663	20.537	32.722
H	35.524	20.259	33.331
C	33.755	20.965	33.898
H	33.993	20.334	34.755
H	33.955	22.01	34.132
C	32.304	20.812	33.515
O	31.864	21.027	32.388
N	31.496	20.901	34.576
H	30.538	21.136	34.355
H	31.875	20.799	35.506
C	34.375	19.267	31.911
O	33.819	19.316	30.78
N	34.591	18.05	32.446
H	35.03	17.938	33.349
C	34.146	16.813	31.751
H	34.491	16.942	30.725
C	34.826	15.501	32.292
H	35.862	15.369	31.98
H	34.908	15.645	33.369
H	34.258	14.629	31.968
C	32.556	16.646	31.522
O	32.129	15.826	30.7
N	31.797	17.539	32.176
H	32.195	18.188	32.84
C	30.346	17.394	32.245
H	30.129	16.337	32.095
C	29.732	17.817	33.558
H	30.291	17.357	34.373
H	29.811	18.896	33.691
H	28.706	17.487	33.723
C	29.657	18.005	30.963
O	28.464	18.233	30.92
N	30.477	18.407	29.962
H	31.431	18.592	30.239
C	29.955	18.859	28.594
H	28.922	18.533	28.473
C	30.084	20.381	28.5
H	29.496	20.781	29.326
H	29.608	20.724	27.581
C	31.479	20.958	28.604
H	32.197	20.176	28.852
H	31.87	21.272	27.636
C	31.687	22.103	29.521

O	30.891	23.001	29.876
O	32.903	22.234	30.058
H	32.867	23.059	30.548
C	30.657	18.163	27.402
O	30.007	18.08	26.381
N	31.881	17.606	27.587
H	32.282	17.754	28.502
C	32.718	16.861	26.607
H	33.182	17.664	26.034
H	33.479	16.277	27.124
C	31.985	15.823	25.763
O	32.371	15.688	24.595
N	31.01	15.134	26.341
H	30.765	15.473	27.261
C	30.195	14.139	25.688
H	30.934	13.546	25.15
C	29.399	13.347	26.762
H	28.484	13.848	27.079
H	29.094	12.459	26.208
C	30.21	12.97	28.051
O	30.786	11.891	28.128
O	30.221	13.856	28.978
C	29.199	14.671	24.669
O	28.967	14.043	23.604
N	28.578	15.849	24.974
H	28.882	16.348	25.798
C	27.59	16.49	24.12
H	26.759	15.834	23.86
C	26.971	17.714	24.811
H	27.768	18.43	25.011
C	25.826	18.317	23.899
H	26.197	18.459	22.884
H	25.019	17.627	23.651
H	25.343	19.209	24.299
C	26.351	17.457	26.195
H	25.421	16.901	26.312
H	27.109	16.837	26.674
C	26.2	18.769	27.132
H	25.403	19.365	26.688
H	25.875	18.441	28.12
H	27.138	19.323	27.163
C	28.323	16.905	22.803
O	27.839	16.684	21.708
N	29.453	17.635	22.859
H	29.889	17.91	23.728
C	30.091	18.178	21.613
H	29.405	18.321	20.778

C	30.625	19.567	21.944
H	31.145	19.997	21.088
C	29.506	20.539	22.502
H	28.487	20.37	22.156
H	29.652	20.726	23.566
H	29.845	21.475	22.059
O	31.574	19.346	22.984
H	31.785	20.173	23.424
C	31.216	17.393	21.026
O	31.692	17.779	19.97
N	31.665	16.223	21.605
H	31.036	15.917	22.334
C	32.726	15.384	21.17
H	32.803	14.496	21.798
H	32.643	15.05	20.136
C	34.139	16.062	21.253
O	35.025	15.936	20.373
N	34.299	16.929	22.228
H	33.578	17.037	22.927
C	35.624	17.483	22.454
H	36.312	17.268	21.636
C	35.522	19.035	22.694
H	34.643	19.227	23.31
H	36.405	19.363	23.242
C	35.538	19.943	21.417
H	35.574	20.949	21.835
H	36.392	19.589	20.84
C	34.285	19.729	20.58
H	34.261	18.713	20.186
H	33.38	20.007	21.12
N	34.357	20.652	19.467
H	34.948	21.471	19.455
C	33.504	20.71	18.47
N	32.663	19.742	18.236
H	32.472	19.061	18.957
H	32.183	19.64	17.353
N	33.636	21.681	17.601
H	34.023	22.582	17.843
H	32.996	21.625	16.822
C	36.179	16.772	23.7
O	35.412	16.692	24.695
N	37.401	16.318	23.716
H	38.025	16.508	22.946
C	38.125	15.902	24.954
H	37.471	15.189	25.455
C	39.432	15.251	24.476
H	39.176	14.331	23.951

H	40.027	15.914	23.847
C	40.393	14.832	25.612
O	41.394	14.222	25.258
O	40.131	14.94	26.796
C	38.376	17.085	25.953
O	39.126	18.038	25.626
N	37.802	17.005	27.195
C	37.121	15.818	27.727
H	37.632	14.86	27.638
H	36.161	15.753	27.215
C	36.844	15.97	29.186
H	37.702	15.747	29.82
H	35.929	15.501	29.546
C	36.697	17.492	29.26
H	36.996	17.757	30.275
H	35.688	17.719	28.918
C	37.723	18.007	28.204
H	37.26	18.869	27.724
C	39.015	18.433	28.825
O	39.109	19.46	29.435
N	40.094	17.63	28.723
H	39.95	16.693	28.374
C	41.495	17.964	29.06
H	41.525	18.667	29.892
C	42.127	16.743	29.793
H	42.2	15.821	29.215
H	43.173	17.002	29.953
C	41.472	16.414	31.158
H	40.385	16.394	31.091
H	41.823	15.423	31.445
C	41.832	17.469	32.232
H	42.892	17.559	32.467
H	41.489	18.47	31.97
C	41.034	17.184	33.558
H	41.374	16.187	33.837
H	41.293	17.968	34.27
N	39.505	17.258	33.304
H	39.23	16.389	32.869
H	38.998	17.303	34.176
H	39.259	18	32.665
C	42.361	18.412	27.903
O	43.602	18.583	28.131
N	41.829	18.726	26.714
H	40.85	18.554	26.536
C	42.582	19.147	25.517
H	43.626	19.358	25.75
C	42.383	18.159	24.421

H	41.337	17.885	24.278
H	42.656	18.571	23.45
C	43.223	16.923	24.881
H	44.084	17.23	25.475
H	42.679	16.259	25.553
C	43.88	16.172	23.591
O	44.76	16.656	22.891
N	43.293	15.061	23.234
H	43.733	14.408	22.602
H	42.506	14.758	23.789
C	42.066	20.461	24.929
O	42.311	20.808	23.79
N	41.352	21.258	25.747
H	41.239	20.833	26.656
C	40.748	22.586	25.409
H	41.169	23.038	24.511
C	39.291	22.384	25.055
H	38.844	23.339	24.777
C	38.927	21.469	23.829
H	39.002	20.425	24.133
H	37.878	21.614	23.572
H	39.558	21.684	22.966
C	38.425	21.831	26.221
H	37.389	22.114	26.034
H	38.413	20.745	26.315
H	38.631	22.39	27.134
C	40.959	23.841	26.398
O	40.604	24.946	26.048
N	41.624	23.688	27.495
H	41.874	22.738	27.73
C	42.096	24.874	28.223
H	41.38	25.673	28.414
C	42.517	24.387	29.591
H	42.722	23.317	29.629
C	43.73	25.099	30.162
H	43.671	26.188	30.163
H	43.818	24.763	31.195
H	44.634	24.705	29.699
C	41.307	24.468	30.606
H	41.276	25.535	30.827
H	40.358	24.243	30.119
C	41.517	23.662	31.908
H	40.58	23.354	32.371
H	41.992	22.696	31.74
H	42.085	24.202	32.666
C	43.215	25.616	27.446
O	43.977	24.979	26.652

N	43.421	26.913	27.582
H	42.804	27.404	28.212
C	44.407	27.734	26.824
H	44.39	28.76	27.191
H	45.399	27.284	26.875
C	44.104	27.962	25.341
O	44.804	28.694	24.655
N	43.074	27.36	24.768
H	42.651	26.615	25.303
C	42.628	27.681	23.376
H	43.511	28.002	22.824
C	42.07	26.405	22.647
H	41.126	26.061	23.071
H	41.881	26.731	21.624
C	42.927	25.169	22.58
H	43.797	25.323	21.942
H	43.302	24.86	23.555
C	42.283	23.966	21.953
H	41.542	23.519	22.616
H	41.752	24.316	21.068
C	43.411	23.018	21.578
H	44.021	23.523	20.829
H	44.04	22.892	22.459
N	42.968	21.696	21.005
H	42.426	21.203	21.699
H	42.32	21.826	20.241
H	43.745	21.142	20.673
C	41.488	28.746	23.464
O	40.679	28.776	24.395
N	41.28	29.488	22.383
H	42.06	29.472	21.741
C	40.217	30.433	22.147
H	39.947	31.027	23.02
C	40.785	31.505	21.108
H	41.572	32.046	21.631
H	41.142	30.988	20.217
C	39.847	32.63	20.761
O	38.665	32.5	20.926
N	40.171	33.652	20.016
H	39.354	34.184	19.753
H	41.123	33.86	19.751
C	38.871	29.624	21.803
O	38.784	28.678	21.022
N	37.809	30.019	22.464
H	37.834	30.72	23.191
C	36.486	29.372	22.32
H	36.619	28.302	22.482

C	35.667	29.842	23.51
H	36.376	29.727	24.33
H	35.591	30.921	23.645
C	34.333	29.174	23.825
C	34.286	27.767	23.946
H	35.177	27.219	23.679
C	33.12	27.039	24.348
H	33.195	25.974	24.506
C	31.96	27.802	24.365
H	31.013	27.304	24.508
C	31.911	29.186	24.222
H	31.003	29.752	24.365
C	33.135	29.881	24.023
H	33.174	30.948	23.86
C	35.74	29.767	21.057
O	35.332	28.902	20.264
N	35.576	31.077	20.82
H	35.97	31.76	21.451
C	34.992	31.668	19.608
H	33.996	31.266	19.424
C	34.674	33.078	20.044
H	35.634	33.564	20.222
H	34.221	33.614	19.211
C	33.802	33.313	21.272
C	32.425	33.054	21.308
H	31.902	32.756	20.412
C	31.737	32.94	22.565
H	30.73	32.555	22.62
C	32.394	33.36	23.712
H	32.03	33.273	24.725
C	33.696	33.853	23.665
H	34.14	34.233	24.574
C	34.432	33.76	22.444
H	35.476	33.999	22.308
C	35.786	31.596	18.307
O	35.22	31.842	17.253
N	37.066	31.138	18.424
H	37.352	30.941	19.372
C	37.962	30.956	17.297
H	37.524	31.256	16.345
C	39.299	31.736	17.553
H	39.129	32.801	17.391
H	39.66	31.435	18.537
C	40.432	31.464	16.53
H	40.744	30.436	16.712
H	39.992	31.675	15.555
C	41.626	32.391	16.744

H	41.367	33.383	16.377
H	41.877	32.441	17.804
C	42.797	31.916	15.919
H	42.515	31.545	14.934
H	43.518	32.728	15.82
N	43.451	30.766	16.571
H	42.798	30.003	16.672
H	44.169	30.441	15.94
H	43.803	30.968	17.496
C	38.294	29.451	17.052
O	38.086	28.905	15.983
N	38.802	28.745	18.083
H	38.697	29.084	19.028
C	39.521	27.499	17.888
H	39.768	27.399	16.831
C	40.827	27.472	18.75
H	40.558	27.614	19.797
H	41.279	26.481	18.741
C	41.92	28.405	18.183
O	42.319	28.254	16.996
O	42.421	29.246	18.946
C	38.694	26.258	18.259
O	39.077	25.14	17.814
N	37.639	26.328	19.095
H	37.458	27.288	19.349
C	36.987	25.206	19.935
H	37.408	24.303	19.493
C	37.24	25.315	21.448
H	36.836	26.297	21.694
C	36.55	24.243	22.234
H	35.462	24.309	22.195
H	36.902	23.278	21.869
H	36.808	24.342	23.288
C	38.718	25.289	21.819
H	39.219	26.095	21.282
H	38.831	25.35	22.902
H	39.165	24.348	21.498
C	35.429	25.092	19.629
O	34.872	24.055	19.183
N	34.778	26.282	19.691
H	35.336	27.056	20.021
C	33.309	26.439	19.584
H	32.865	25.483	19.309
C	32.785	26.801	21.023
H	33.151	27.778	21.337
H	31.696	26.76	21.037
H	33.209	26.162	21.798

C	32.854	27.434	18.486
O	32.126	28.448	18.727
N	33.279	27.276	17.186
C	33.934	26.106	16.559
H	33.372	25.223	16.863
H	34.99	26.071	16.824
C	33.798	26.319	15.062
H	32.807	25.995	14.744
H	34.599	25.864	14.48
C	33.781	27.855	14.935
H	33.24	28.166	14.041
H	34.723	28.392	15.043
C	33.055	28.318	16.213
H	33.511	29.229	16.599
C	31.554	28.749	15.966
O	31.3	29.925	15.693
N	30.547	27.858	16.199
H	30.924	27.026	16.629
C	29.09	28.046	16.083
H	28.82	28.571	15.167
C	28.283	26.68	15.851
H	27.322	26.962	15.421
H	28.815	26.049	15.138
S	28.091	25.825	17.392
C	28.472	28.909	17.152
O	27.323	29.386	17.034
N	29.263	29.223	18.161
H	30.12	28.689	18.13
C	29.077	30.242	19.189
H	28.008	30.381	19.352
C	29.673	29.979	20.543
H	29.45	30.781	21.247
C	29.422	28.685	21.197
H	28.369	28.402	21.217
H	29.838	27.844	20.644
H	30.008	28.673	22.116
O	31.088	30.039	20.521
H	31.317	29.474	19.78
C	29.467	31.661	18.759
O	28.969	32.696	19.328
N	30.204	31.848	17.658
H	30.59	31.041	17.188
C	30.616	33.18	17.135
H	31.112	33.782	17.896
C	31.76	32.882	16.125
H	32.326	31.999	16.42
H	31.242	32.794	15.17

C	32.686	34.109	15.933
O	33.236	34.641	16.888
O	32.653	34.645	14.775
C	29.545	34.105	16.573
O	29.798	34.982	15.757
N	28.271	33.881	16.769
H	28.021	33.073	17.322
C	27.106	34.563	16.188
H	27.344	34.765	15.144
C	25.83	33.662	16.081
H	25.084	34.019	15.37
H	26.145	32.681	15.725
O	25.204	33.477	17.358
H	25.02	32.547	17.51
C	26.84	35.891	16.88
O	27.264	36.081	17.976
N	26.059	36.792	16.253
C	25.501	36.713	14.922
H	24.894	35.807	14.903
H	26.246	36.487	14.159
C	24.715	37.937	14.569
H	23.793	37.606	14.092
H	25.307	38.605	13.944
C	24.513	38.641	15.897
H	23.481	38.662	16.248
H	24.867	39.656	15.717
C	25.423	37.917	16.959
H	26.244	38.598	17.187
C	24.576	37.558	18.238
O	24.46	38.34	19.183
N	24.083	36.376	18.223
H	24.213	35.805	17.4
C	23.088	35.992	19.296
H	22.609	36.862	19.745
C	21.959	35.073	18.722
H	22.393	34.145	18.349
H	21.264	34.722	19.485
C	21.02	35.699	17.684
H	20.243	36.313	18.139
H	21.669	36.294	17.041
C	20.401	34.64	16.862
O	20.704	34.613	15.648
O	19.69	33.827	17.415
C	23.803	35.24	20.481
O	23.191	34.869	21.487
N	25.125	35.181	20.51
H	25.642	35.451	19.685

C	25.931	34.422	21.476
H	25.435	34.357	22.445
C	26.074	32.897	21.063
H	25.055	32.6	20.816
H	26.703	32.798	20.178
C	26.573	31.868	22.149
C	27.842	32.088	22.776
H	28.436	32.954	22.527
C	28.242	31.185	23.84
H	29.145	31.392	24.394
C	27.377	30.116	24.221
H	27.677	29.482	25.041
C	26.244	29.812	23.417
H	25.702	28.888	23.554
C	25.844	30.692	22.388
H	24.967	30.506	21.787
C	27.239	35.156	21.726
O	27.23	35.898	22.723
N	28.219	35.15	20.781
H	28.034	34.488	20.041
C	29.462	35.939	20.851
H	29.992	35.562	21.726
C	30.515	35.842	19.705
H	30.874	34.814	19.767
H	29.982	35.961	18.762
C	31.732	36.741	19.872
C	32.582	36.478	21.02
H	32.375	35.628	21.653
C	33.663	37.332	21.241
H	34.277	37.137	22.108
C	33.778	38.542	20.582
O	34.828	39.387	20.735
H	35.521	39.189	21.369
C	32.869	38.867	19.495
H	33.049	39.768	18.928
C	31.896	37.893	19.088
H	31.207	38.092	18.28
C	29.093	37.407	20.943
O	29.578	38.168	21.744
N	28.11	37.816	20.117
H	27.898	37.113	19.424
C	27.583	39.177	20.085
H	28.407	39.823	19.781
H	26.727	39.193	19.411
C	26.976	39.711	21.423
O	27.343	40.8	21.781
N	26.15	38.866	22.123

H	25.963	37.954	21.732
C	25.604	39.176	23.425
H	25.234	40.196	23.331
C	24.51	38.148	23.689
H	24.993	37.185	23.521
H	24.119	38.131	24.706
C	23.243	38.33	22.768
H	23.046	39.402	22.761
H	23.476	38.187	21.712
C	22.095	37.452	23.273
H	22.382	36.401	23.258
H	21.89	37.612	24.331
C	20.85	37.602	22.445
H	20.649	38.663	22.592
H	20.99	37.426	21.379
N	19.849	36.642	22.903
H	20.158	35.682	22.839
H	19.583	36.721	23.874
H	18.996	36.621	22.362
C	26.717	39.169	24.515
O	26.676	39.909	25.435
N	27.694	38.272	24.417
H	27.574	37.596	23.677
C	28.859	38.129	25.318
H	28.55	38.029	26.359
C	29.552	36.785	24.891
H	28.808	36.001	25.028
H	29.803	36.78	23.83
C	30.827	36.416	25.668
C	30.755	35.925	27.015
H	29.771	35.819	27.446
C	31.945	35.556	27.74
H	31.752	35.182	28.734
C	33.176	35.735	27.161
H	34.11	35.529	27.664
C	33.258	36.36	25.859
H	34.254	36.547	25.485
C	32.091	36.689	25.169
H	32.102	37.225	24.231
C	29.769	39.314	25.212
O	30.186	39.817	26.229
N	30.096	39.856	24.039
H	29.828	39.276	23.257
C	31.173	40.783	23.786
H	32.125	40.582	24.278
C	31.542	40.819	22.257
H	32.561	41.199	22.179

H	31.596	39.784	21.918
C	30.843	41.61	21.135
H	31.092	41.301	20.12
H	29.773	41.404	21.096
C	30.971	43.159	21.229
H	30.899	43.58	22.232
H	31.99	43.256	20.854
C	29.848	43.708	20.36
H	29.922	43.219	19.388
H	28.855	43.518	20.767
N	29.999	45.158	20.134
H	29.357	45.45	19.41
H	29.791	45.744	20.93
H	30.881	45.406	19.708
C	30.841	42.184	24.375
O	31.678	42.896	24.886
N	29.535	42.532	24.455
H	28.819	41.875	24.178
C	29.104	43.802	25.01
H	29.796	44.546	24.615
C	27.655	44.12	24.667
H	26.974	43.283	24.824
H	27.328	44.726	25.512
C	27.425	44.807	23.324
H	27.788	44.192	22.502
H	26.352	44.888	23.153
C	28.133	46.171	23.252
O	29.074	46.28	22.476
O	27.662	47.155	23.846
C	29.271	43.668	26.541
O	29.667	44.618	27.234
N	29.013	42.494	27.119
H	28.553	41.794	26.555
C	29.358	42.176	28.529
H	28.914	42.967	29.133
H	29.107	41.151	28.802
C	30.893	42.25	28.744
O	31.334	42.849	29.702
N	31.768	41.806	27.872
H	31.347	41.392	27.052
C	33.237	41.915	28.014
H	33.538	41.546	28.994
C	33.978	41.132	26.957
H	33.739	41.529	25.971
C	35.501	41.159	27.235
H	35.933	40.552	26.44
H	35.911	42.158	27.085

H	35.803	40.839	28.232
C	33.528	39.675	27.046
H	34.229	39.111	26.43
H	33.735	39.242	28.024
H	32.513	39.463	26.709
C	33.676	43.367	27.888
O	34.529	43.82	28.643
N	33.109	44.176	26.908
H	32.319	43.811	26.395
C	33.48	45.573	26.709
H	34.565	45.606	26.611
C	32.893	45.899	25.357
H	31.804	45.894	25.402
H	33.119	46.896	24.98
H	33.19	45.206	24.57
C	32.961	46.468	27.867
O	33.602	47.432	28.249
N	31.809	46.235	28.464
H	31.086	45.687	28.019
C	31.381	46.895	29.703
H	31.567	47.969	29.687
C	29.857	46.907	29.727
H	29.507	47.408	30.63
H	29.448	47.517	28.921
O	29.319	45.636	29.766
H	29.333	45.111	28.963
C	31.986	46.43	31.01
O	31.858	47.192	31.966
N	32.636	45.251	31.086
H	32.825	44.719	30.248
C	33.082	44.688	32.367
H	33.937	44.018	32.278
H	33.528	45.496	32.946
C	31.971	44.081	33.232
O	32.231	43.876	34.442
N	30.754	43.954	32.718
H	30.634	44.098	31.725
C	29.617	43.401	33.441
H	30.036	42.735	34.194
C	28.797	44.535	34.106
H	28.141	44.079	34.848
H	29.415	45.259	34.637
C	27.851	45.306	33.179
O	26.701	44.969	32.951
N	28.265	46.488	32.742
H	27.672	46.903	32.038
H	29.237	46.762	32.763

C	28.692	42.463	32.633
O	28.307	42.817	31.539
N	28.25	41.309	33.162
H	28.597	41.052	34.075
C	27.453	40.306	32.361
H	26.735	40.876	31.772
C	28.421	39.53	31.413
H	29.009	40.308	30.928
H	29.016	38.971	32.135
C	27.69	38.631	30.335
H	27.006	37.978	30.876
C	26.818	39.406	29.385
H	26.079	40.023	29.896
H	27.305	40.137	28.739
H	26.223	38.75	28.749
C	28.669	37.851	29.529
H	29.111	37.093	30.175
H	28.094	37.389	28.726
H	29.428	38.469	29.05
C	26.754	39.309	33.231
O	27.342	38.633	34.087
N	25.423	39.26	32.934
H	25.002	40.098	32.561
C	24.477	38.187	33.371
H	24.989	37.225	33.353
C	24.032	38.548	34.835
H	24.879	38.799	35.473
H	23.483	39.49	34.807
C	23.104	37.433	35.364
O	23.439	36.278	35.352
N	21.928	37.742	35.865
H	21.327	37.023	36.24
H	21.637	38.71	35.865
C	23.235	37.918	32.384
O	22.332	38.768	32.274
N	23.219	36.741	31.77
H	23.934	36.119	32.12
C	22.147	36.341	30.889
H	21.214	36.776	31.249
C	22.526	36.766	29.414
H	22.749	37.824	29.547
C	23.764	36.306	28.641
H	23.616	35.26	28.374
H	23.942	37.035	27.85
H	24.657	36.335	29.265
O	21.507	36.877	28.545
H	21.712	37.414	27.776

C	21.9	34.853	30.771
O	22.824	34.079	30.916
N	20.64	34.477	30.426
H	19.885	35.13	30.277
C	20.263	33.043	30.21
H	21.144	32.412	30.091
C	19.465	32.554	31.42
H	19.842	32.9	32.383
H	18.46	32.969	31.35
C	19.232	31.059	31.511
H	18.91	30.648	30.554
H	20.19	30.551	31.622
S	18.095	30.364	32.767
C	19.274	30.288	34.115
H	20.185	29.797	33.773
H	19.473	31.326	34.379
H	18.933	29.861	35.059
C	19.525	32.953	28.924
O	18.72	33.779	28.628
N	19.826	31.906	28.149
H	20.385	31.108	28.417
C	19.142	31.683	26.907
H	18.074	31.848	27.049
C	19.501	32.611	25.753
H	18.914	32.388	24.862
H	19.111	33.574	26.083
C	20.922	32.661	25.447
C	21.694	33.773	25.911
H	21.276	34.569	26.511
C	23.071	33.83	25.582
H	23.673	34.611	26.021
C	23.615	32.882	24.733
H	24.684	32.88	24.586
C	22.876	31.757	24.28
H	23.335	31.002	23.659
C	21.556	31.62	24.744
H	21.001	30.74	24.451
C	19.303	30.149	26.5
O	19.641	29.317	27.388
N	18.954	29.813	25.273
H	18.782	30.522	24.575
C	19.009	28.462	24.709
H	19.637	27.92	25.416
C	17.561	27.906	24.563
H	17.02	28.628	23.953
H	17.65	26.952	24.043
C	16.804	27.673	25.88

H	17.463	27.185	26.597
H	16.637	28.679	26.265
C	15.537	26.882	25.748
O	14.916	26.845	24.659
O	15.089	26.354	26.781
C	19.652	28.499	23.351
O	19.33	29.403	22.582
N	20.52	27.482	23.06
H	20.668	26.694	23.674
C	21.342	27.428	21.815
H	20.78	27.939	21.033
C	22.701	28.191	22.02
H	22.55	29.095	22.61
H	23.449	27.634	22.585
C	23.303	28.737	20.704
C	22.711	29.888	20.182
H	21.871	30.368	20.662
C	23.377	30.588	19.099
H	23.084	31.588	18.814
C	24.48	30.014	18.522
O	25.135	30.659	17.567
H	25.914	30.103	17.487
C	24.951	28.736	18.949
H	25.623	28.183	18.31
C	24.415	28.157	20.066
H	24.849	27.223	20.391
C	21.627	26.051	21.266
O	21.69	25.089	21.994
N	21.863	25.928	19.976
H	21.714	26.748	19.407
C	22.158	24.712	19.195
H	21.952	23.955	19.952
C	21.221	24.574	17.995
H	21.518	25.367	17.309
C	21.454	23.225	17.276
H	21.072	22.559	18.05
H	20.72	23.178	16.471
H	22.493	22.971	17.067
O	19.868	24.752	18.411
H	19.344	24.504	17.645
C	23.59	24.654	18.741
O	24.124	25.629	18.201
N	24.257	23.543	18.995
H	23.769	22.831	19.519
C	25.599	23.21	18.584
H	26.014	24.093	18.098
C	26.577	22.779	19.716

H	26.399	21.729	19.948
H	27.588	22.905	19.329
C	26.566	23.6	21.019
C	26.492	24.941	20.934
H	26.681	25.448	19.999
C	26.554	25.712	22.111
H	26.509	26.789	22.04
C	26.723	25.107	23.338
H	26.658	25.622	24.285
C	26.815	23.745	23.456
H	27.069	23.272	24.393
C	26.749	22.972	22.276
H	26.733	21.898	22.382
C	25.573	22.174	17.469
O	24.801	21.215	17.422
N	26.528	22.283	16.552
H	27.277	22.95	16.668
C	26.465	21.58	15.191
H	26.095	20.571	15.368
C	25.42	22.257	14.348
H	25.448	21.752	13.382
H	24.484	22.142	14.895
C	25.65	23.743	14.073
O	24.874	24.585	14.563
O	26.544	24.078	13.243
C	27.828	21.393	14.496
O	28.049	20.293	13.896
N	28.766	22.344	14.573
H	28.536	23.213	15.034
C	30.07	22.18	13.92
H	29.789	22.028	12.878
C	30.838	23.477	14.01
H	30.093	24.209	13.698
H	31.223	23.656	15.014
C	32.114	23.551	13.156
C	32.036	24.091	11.82
H	31.096	24.374	11.37
C	33.303	24.277	11.157
H	33.168	24.473	10.104
C	34.525	23.889	11.717
O	35.584	23.942	10.885
H	36.171	23.384	11.4
C	34.542	23.363	13.027
H	35.466	23.127	13.535
C	33.343	23.102	13.721
H	33.502	22.658	14.693
C	30.905	20.986	14.401

O	31.316	20.937	15.566
N	31.273	20.013	13.539
H	31.091	20.257	12.576
C	31.943	18.735	13.803
H	31.803	18.281	12.822
C	33.472	18.884	14.001
H	33.686	19.402	14.935
H	34.084	17.997	14.166
C	34.1	19.634	12.715
H	33.612	20.609	12.717
H	35.155	19.788	12.945
C	34.041	18.97	11.274
O	33.206	19.257	10.522
N	35.014	18.12	10.917
H	34.905	17.681	10.014
H	35.67	17.769	11.599
C	31.244	17.823	14.859
O	31.891	16.989	15.568
N	29.89	17.818	14.931
H	29.385	18.511	14.397
C	29.094	16.985	15.836
H	29.684	16.082	15.987
C	29.016	17.603	17.186
H	28.328	16.998	17.777
H	30.008	17.568	17.637
C	28.646	19.101	17.184
H	29.476	19.599	16.682
H	27.814	19.215	16.489
S	28.268	19.805	18.85
C	26.811	18.888	19.46
H	27.138	17.855	19.584
H	26.473	19.207	20.446
H	25.949	18.813	18.797
C	27.713	16.664	15.214
O	27.246	17.372	14.294
N	26.998	15.721	15.847
H	27.349	15.184	16.628
C	25.533	15.6	15.631
H	25.273	15.405	14.59
C	25.02	14.379	16.406
H	25.097	14.621	17.466
C	23.615	14.041	16.026
H	23.612	13.931	14.942
H	23.183	13.164	16.509
H	23.015	14.9	16.327
O	25.832	13.205	16.276
H	25.391	12.453	16.677

C	24.765	16.852	16.221
O	24.78	16.994	17.433
N	23.936	17.549	15.444
C	23.717	17.314	14.014
H	23.022	16.482	13.905
H	24.641	17.133	13.466
C	23.08	18.617	13.532
H	22.407	18.468	12.687
H	23.811	19.359	13.211
C	22.264	19.168	14.725
H	21.302	18.672	14.856
H	22.225	20.258	14.704
C	23.236	18.734	15.882
H	24.066	19.435	15.971
C	22.514	18.528	17.239
O	21.654	17.665	17.408
N	22.879	19.37	18.267
H	23.46	20.188	18.148
C	22.299	19.125	19.628
H	21.308	18.682	19.538
C	23.202	18.236	20.54
H	24.162	18.751	20.504
C	22.674	18.11	22.027
H	23.187	17.244	22.444
H	22.944	19.007	22.584
H	21.6	17.952	22.13
O	23.382	16.978	20.004
H	23.485	17.172	19.069
C	22.092	20.459	20.392
O	22.992	21.26	20.539
N	20.882	20.617	20.92
H	20.223	19.855	20.997
C	20.399	21.828	21.632
H	21.017	22.649	21.27
C	18.916	22.097	21.287
H	18.625	21.941	20.248
H	18.295	21.421	21.875
C	18.498	23.534	21.65
H	18.765	23.763	22.682
H	19.067	24.202	21.003
C	16.971	23.583	21.563
H	16.714	23.744	20.516
H	16.535	22.65	21.919
C	16.461	24.705	22.496
H	16.841	24.472	23.49
H	16.961	25.628	22.202
N	14.996	24.861	22.46

H	14.565	23.967	22.646
H	14.765	25.522	23.188
H	14.671	25.047	21.522
C	20.706	21.721	23.092
O	20.418	20.643	23.67
N	21.106	22.837	23.696
H	21.205	23.642	23.094
C	21.347	22.991	25.104
H	20.775	22.261	25.676
C	22.845	22.866	25.452
H	23.074	23.047	26.502
C	23.512	21.47	25.289
H	22.834	20.651	25.527
H	23.803	21.272	24.257
H	24.408	21.518	25.907
C	23.726	23.839	24.691
H	24.737	23.768	25.09
H	23.725	23.589	23.63
H	23.379	24.863	24.829
C	20.792	24.292	25.678
O	20.488	25.236	24.957
N	20.616	24.344	26.976
H	20.839	23.556	27.567
C	20.267	25.554	27.767
H	19.699	26.337	27.264
C	19.433	25.273	29.064
H	18.618	24.611	28.77
H	20.02	24.76	29.826
C	18.806	26.566	29.513
H	19.623	27.223	29.809
H	18.362	27.029	28.632
C	17.707	26.315	30.609
H	18.325	25.907	31.409
H	17.291	27.276	30.908
C	16.612	25.258	30.503
H	17.043	24.299	30.214
H	16.079	25.105	31.441
N	15.501	25.539	29.458
H	15.766	25.563	28.483
H	14.726	24.933	29.687
H	15.081	26.445	29.608
C	21.603	26.234	28.198
O	22.491	25.594	28.75
N	21.79	27.539	28.003
H	21.048	28.108	27.621
C	23.032	28.318	28.276
H	23.792	27.648	28.678

C	23.524	28.884	26.992
H	22.773	29.393	26.387
C	24.755	29.87	27.23
H	24.413	30.737	27.795
H	25.583	29.389	27.751
H	25.112	30.296	26.292
C	24.264	27.821	26.058
H	23.685	26.909	25.914
H	24.378	28.258	25.066
H	25.242	27.517	26.432
C	22.769	29.386	29.325
O	21.691	29.953	29.292
N	23.737	29.618	30.241
H	24.537	29.003	30.223
C	23.847	30.711	31.162
H	23.153	31.481	30.825
C	23.484	30.311	32.622
H	22.593	29.691	32.52
H	24.21	29.61	33.033
C	23.324	31.536	33.583
N	22.104	31.846	34.14
C	22.287	33.049	34.686
H	21.436	33.603	35.052
N	23.576	33.477	34.578
H	24.011	34.336	34.884
C	24.237	32.484	33.868
H	25.248	32.563	33.496
C	25.158	31.309	30.971
O	26.157	30.564	30.97
N	25.298	32.627	30.75
H	24.462	33.187	30.836
C	26.604	33.307	30.704
H	27.358	32.557	30.941
C	26.989	33.98	29.344
H	26.243	34.766	29.22
H	27.984	34.404	29.476
C	26.997	33.058	28.125
H	27.61	32.176	28.312
H	26.009	32.607	28.033
S	27.56	33.866	26.553
C	26.484	35.333	26.448
H	25.516	35.13	26.905
H	26.783	36.143	27.113
H	26.42	35.719	25.43
C	26.607	34.413	31.81
O	25.609	35.187	31.917
N	27.669	34.324	32.626

H	28.485	33.843	32.275
C	27.833	35.359	33.642
H	27.208	36.241	33.506
C	27.466	34.655	35.043
H	26.693	33.93	34.787
H	28.309	34.158	35.523
C	26.856	35.676	36.025
H	27.646	36.158	36.601
H	26.192	36.27	35.398
C	26.111	34.885	37.129
H	25.463	34.188	36.597
H	26.893	34.34	37.658
C	25.367	35.814	38.139
H	26.084	36.54	38.523
H	24.509	36.219	37.603
N	24.718	35.22	39.319
H	24.062	34.475	39.134
H	25.365	34.838	39.994
H	24.225	35.873	39.91
C	29.238	35.931	33.71
O	30.053	35.669	32.781
N	29.569	36.648	34.793
H	28.797	36.88	35.401
C	30.882	37.226	35.126
H	31.55	37.234	34.264
C	30.598	38.708	35.509
H	29.742	39.157	35.006
H	30.34	38.697	36.568
C	31.771	39.656	35.366
H	32.67	39.059	35.523
H	31.849	40.13	34.387
C	31.772	40.755	36.448
H	30.868	41.309	36.193
H	31.756	40.255	37.416
C	32.99	41.64	36.513
H	33.188	42.13	35.559
H	32.736	42.434	37.215
N	34.218	40.922	36.972
H	34.016	40.277	37.723
H	34.463	40.316	36.203
H	35.059	41.446	37.169
C	31.459	36.491	36.268
O	30.707	35.963	37.06
N	32.727	36.489	36.442
H	33.232	37.098	35.813
C	33.523	35.838	37.437
H	32.848	35.183	37.987

C	34.514	34.838	36.849
H	35.355	35.414	36.464
H	34.666	33.909	37.398
H	34.07	34.4	35.955
C	34.179	36.89	38.37
O	34.211	38.096	38.072
N	34.856	36.519	39.505
H	34.963	35.53	39.679
C	35.31	37.509	40.507
H	34.549	38.286	40.583
C	35.564	36.916	41.915
H	36.399	36.216	41.893
H	35.656	37.714	42.652
C	34.427	36.001	42.476
H	34.314	35.105	41.865
C	34.555	35.505	43.902
H	34.459	36.298	44.643
H	33.835	34.716	44.116
H	35.524	35.008	43.948
C	33.114	36.654	42.312
H	33.176	37.655	42.739
H	32.842	36.657	41.256
H	32.407	36.026	42.853
C	36.554	38.356	40.11
O	36.632	39.468	40.581
N	37.324	38.032	39.099
H	37.11	37.183	38.596
C	38.371	38.9	38.565
H	38.746	39.479	39.409
C	39.546	38.06	37.965
H	39.266	37.544	37.047
H	40.304	38.84	37.9
O	40.061	37.127	38.906
H	40.884	36.756	38.579
C	37.808	39.932	37.598
O	36.699	39.909	37.136
N	38.62	40.871	37.174
H	39.564	40.879	37.532
C	38.259	42.052	36.39
H	37.306	42.461	36.723
H	39.032	42.811	36.515
C	38.093	41.869	34.872
O	37.339	42.613	34.245
N	38.581	40.761	34.301
H	39.271	40.258	34.841
C	38.54	40.29	32.91
H	37.631	40.677	32.448

C	39.848	40.697	32.23
H	40.011	41.727	32.546
H	40.68	40.101	32.606
C	39.9	40.602	30.692
O	38.853	40.852	30.073
O	40.985	40.46	30.13
C	38.32	38.78	32.797
O	38.884	38.101	31.889
N	37.428	38.273	33.662
H	37.022	38.789	34.429
C	37.102	36.866	33.716
H	37.6	36.411	32.86
C	37.716	36.145	34.986
H	37.375	36.828	35.763
H	37.276	35.156	35.117
O	39.127	36.186	34.929
H	39.444	35.532	35.556
C	35.601	36.648	33.626
O	34.79	37.366	34.162
N	35.178	35.587	32.952
H	35.875	35.008	32.506
C	33.768	35.333	32.559
H	33.152	35.963	33.201
C	33.541	35.908	31.141
H	34.24	35.343	30.524
H	32.495	35.704	30.912
C	33.822	37.38	31.043
C	35.103	37.809	30.613
H	35.85	37.139	30.214
C	35.456	39.17	30.799
H	36.39	39.548	30.411
C	34.465	40.059	31.246
O	34.881	41.331	31.532
H	35.714	41.591	31.133
C	33.192	39.556	31.59
H	32.406	40.235	31.889
C	32.803	38.22	31.383
H	31.86	37.776	31.668
C	33.317	33.859	32.591
O	34.093	32.965	32.719
N	32.028	33.623	32.68
H	31.441	34.442	32.623
C	31.466	32.303	32.908
H	32.263	31.569	33.023
C	30.805	32.129	34.317
H	30.272	33.041	34.584
H	29.921	31.497	34.232

C	31.637	31.664	35.502
C	31.672	32.317	36.668
H	31.247	33.282	36.903
N	32.425	31.611	37.535
H	32.702	31.962	38.441
C	32.922	30.457	37.004
C	33.736	29.481	37.448
H	34.217	29.588	38.409
C	33.951	28.343	36.64
H	34.63	27.59	37.012
C	33.281	28.149	35.404
H	33.417	27.223	34.867
C	32.498	29.202	34.963
H	31.963	29.107	34.029
C	32.261	30.367	35.726
C	30.566	31.868	31.718
O	29.903	32.691	31.15
N	30.406	30.549	31.663
H	30.849	29.938	32.333
C	29.337	29.907	30.897
H	28.497	30.594	30.794
C	29.749	29.477	29.44
H	30.384	28.593	29.49
C	28.589	28.998	28.623
H	28.959	28.772	27.623
H	28.113	28.054	28.891
H	27.836	29.786	28.636
C	30.486	30.511	28.598
H	31.535	30.523	28.895
H	30.476	30.157	27.567
H	30.036	31.489	28.771
C	28.981	28.687	31.702
O	29.856	28.062	32.301
N	27.693	28.239	31.542
H	27.177	28.886	30.963
C	27.123	26.952	31.938
H	27.943	26.236	31.998
C	26.425	27.056	33.305
H	25.42	27.453	33.165
H	26.373	26.019	33.637
C	27.234	27.819	34.335
C	28.408	27.227	34.737
H	28.701	26.275	34.322
C	29.205	27.869	35.652
H	30.102	27.323	35.903
C	28.894	29.169	36.077
H	29.586	29.792	36.624

C	27.684	29.817	35.671
H	27.386	30.801	36.004
C	26.855	29.133	34.763
H	25.89	29.57	34.554
C	26.223	26.401	30.876
O	25.677	27.111	30.055
N	26.182	25.047	30.802
H	26.65	24.493	31.504
C	25.469	24.368	29.723
H	24.695	25.051	29.374
C	26.384	24.025	28.536
H	25.685	23.508	27.878
C	26.755	25.213	27.618
H	27.528	25.719	28.196
H	27.07	24.833	26.646
H	25.944	25.935	27.522
C	27.645	23.138	28.852
H	27.301	22.113	28.993
H	28.323	23.27	28.009
H	28.065	23.56	29.765
C	24.774	23.092	30.245
O	25.36	22.412	31.074
N	23.592	22.706	29.821
H	23.097	23.349	29.219
C	22.996	21.367	29.998
H	23.826	20.662	29.948
C	22.297	21.281	31.42
H	21.941	20.277	31.65
H	23.118	21.46	32.115
C	21.132	22.299	31.6
H	21.555	23.304	31.574
H	20.509	22.142	30.719
C	20.391	21.977	32.897
H	19.884	21.015	32.836
H	21.108	21.951	33.717
C	19.195	22.954	33.172
H	19.515	23.957	33.455
H	18.581	22.955	32.272
N	18.468	22.544	34.37
H	18.96	22.477	35.249
H	17.768	23.248	34.555
H	17.954	21.684	34.237
C	21.974	20.966	28.885
O	21.444	21.852	28.133
N	21.644	19.666	28.845
H	22.122	19.17	29.584
C	20.64	19.117	27.933

H	20.917	19.406	26.919
C	20.842	17.621	27.759
H	20.74	17.18	28.75
H	20.004	17.318	27.131
C	22.173	17.035	27.186
H	22.165	17.197	26.108
H	22.987	17.55	27.696
C	22.179	15.535	27.424
H	21.885	15.224	28.426
H	21.417	14.99	26.866
N	23.435	14.854	27.077
H	24.102	14.78	27.832
C	23.765	14.469	25.891
N	23.063	14.679	24.792
H	22.132	15.069	24.793
H	23.459	14.409	23.903
N	24.934	13.952	25.713
H	25.243	13.555	24.837
H	25.557	13.82	26.497
C	19.165	19.439	28.286
O	18.82	19.464	29.502
N	18.344	19.584	27.277
H	18.661	19.411	26.334
C	16.927	19.864	27.27
H	16.514	19.502	28.212
C	16.624	21.425	27.197
H	15.555	21.63	27.14
C	17.082	22.081	28.504
H	16.878	23.15	28.572
H	16.61	21.541	29.324
H	18.138	21.888	28.693
C	17.461	22.145	26.083
H	17.081	23.151	25.908
H	18.511	22.128	26.377
H	17.347	21.616	25.137
C	16.189	19.051	26.197
O	16.584	19.1	25.01
O	15.104	18.514	26.526
C	29.616	25.033	17.761
O	30.522	25.039	16.868
C	29.729	24.738	19.1
C	30.959	24.075	19.621
C	31.231	23.779	20.939
C	32.427	23.016	21.284
C	32.723	22.587	22.58
C	31.781	22.821	23.655
C	30.67	23.701	23.328

C	30.421	24.174	22.062
O	31.899	22.371	24.784
H	28.853	24.8	19.744
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H	29.87	23.693	24.06
H	29.502	24.731	21.916
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H	60.223	53.111	49.81
H	61.33	52.097	49.616
O	49.759	55.925	56.114
H	49.152	55.198	55.975
H	50.29	55.654	56.862
O	47.252	51.974	50.345
H	47.757	51.616	49.615
H	46.445	51.459	50.354
O	47.889	48.484	61.943
H	47.601	47.775	61.369
H	47.996	49.236	61.361
O	55.496	44.551	63.594
H	55.663	45.288	63.007
H	56.003	44.752	64.381
O	57.728	56.44	53.234
H	57.701	55.567	53.623
H	58.654	56.589	53.042
O	45.533	62.49	52.018
H	45.477	63.268	52.574
H	46.349	62.602	51.531
O	48.374	54.03	54.926
H	47.568	54.488	54.687
H	48.529	53.424	54.201
O	54.742	43.562	55.527
H	55.623	43.293	55.267
H	54.607	43.147	56.379
O	59.27	51.835	52.636
H	60.036	51.361	52.311
H	59.439	51.951	53.571
O	61.334	39.052	47.545
H	60.606	38.703	48.06
H	61.864	39.536	48.178

O	55.826	59.367	48.029
H	56.277	58.788	48.643
H	56.495	59.601	47.385
O	53.154	52.59	45.067
H	53.447	52.74	45.965
H	52.205	52.712	45.101
O	45.264	58.972	57.197
H	44.615	58.853	57.891
H	45.352	58.106	56.8
O	56.857	42.775	53.679
H	56.165	42.173	53.406
H	57.062	42.513	54.577
O	61.772	49.948	59.935
H	61.417	50.801	59.682
H	62.339	50.138	60.682
O	56.854	46.833	57.181
H	57.013	47.743	57.431
H	55.91	46.788	57.026
O	51.381	52.06	53.647
H	50.473	51.789	53.508
H	51.86	51.679	52.911
O	56.341	53.689	53.78
H	55.87	53.834	52.959
H	55.669	53.387	54.392
O	42.996	52.341	58.535
H	43.075	51.529	58.035
H	42.103	52.325	58.879
O	49.321	48.611	51.273
H	48.537	48.16	50.961
H	49.875	48.693	50.497
O	55.339	55.792	49.026
H	55.664	55.354	48.239
H	55.997	56.46	49.218
O	58.651	51.448	58.169
H	58.286	50.626	58.495
H	58.197	51.599	57.339
O	54.112	55.811	55.103
H	54.728	56.131	55.762
H	54.074	54.865	55.25
O	52.797	55.129	49.074
H	52.544	55.001	49.988
H	53.599	55.65	49.119
O	50.449	54.797	47.646
H	50.499	54.118	46.973
H	51.272	54.718	48.128
O	49.389	43.985	61.234
H	49.525	44.446	60.407

H	50.145	43.402	61.311
O	55.159	47.659	49.778
H	55.266	46.708	49.81
H	54.936	47.906	50.675
O	57.556	60.856	46.572
H	58.446	61.144	46.366
H	57.015	61.237	45.88
O	49.58	55.81	50.053
H	49.894	55.454	49.222
H	50.25	56.444	50.309
O	53.562	59.03	49.824
H	54.402	59.105	49.37
H	53.113	58.312	49.379
O	52.15	54.796	51.706
H	51.48	54.142	51.903
H	51.999	55.494	52.343
O	46.569	52.651	59.679
H	47.212	52.691	58.971
H	45.926	52.007	59.383
O	51.652	60.858	56.545
H	51.657	60.376	57.372
H	51.357	60.218	55.896
O	59.305	50.535	46.889
H	59.69	49.807	47.378
H	58.362	50.381	46.935
O	48.07	65.99	43.08
H	49.009	66.174	43.084
H	47.822	65.993	44.004
O	53.228	57.479	47.32
H	52.869	56.592	47.352
H	54.1	57.371	46.942
O	53.948	52.536	47.922
H	54.344	51.879	48.495
H	53.76	53.275	48.501
O	48.567	51.44	44.513
H	48.418	50.55	44.832
H	48.874	51.324	43.614
O	54.99	54.591	40.364
H	55.116	54.593	41.313
H	55.45	55.374	40.06
O	51.915	46.937	47.613
H	51.613	46.044	47.774
H	52.494	46.861	46.854
O	56.178	44.818	46.017
H	56.764	44.842	46.773
H	55.519	44.162	46.245
O	55.622	61.389	44.596

H	55.702	61.254	43.652
H	54.68	61.466	44.748
O	52.104	60.13	53.987
H	52.162	61.045	53.712
H	52.855	59.707	53.572
O	55.148	53.713	51.415
H	54.386	54.201	51.728
H	55.43	54.186	50.632
O	58.034	48.824	53.366
H	57.489	48.751	54.15
H	57.452	49.195	52.703
O	46.575	47.118	59.658
H	46.05	47.798	59.236
H	47.013	46.67	58.934
O	54.682	52.968	55.617
H	54.918	53.061	56.54
H	54.213	52.135	55.572
O	49.902	48.102	53.883
H	49.642	48.482	53.044
H	49.604	47.193	53.837
O	51.004	55.249	58.469
H	50.925	55.601	59.356
H	51.946	55.23	58.302
O	56.913	51.397	51.472
H	56.484	52.242	51.601
H	57.749	51.48	51.93
O	54.206	47.43	56.496
H	53.743	46.804	57.053
H	53.687	47.464	55.692
O	62.103	58.049	37.045
H	61.272	58.334	37.427
H	61.851	57.453	36.34
O	46.169	60.537	37.295
H	45.326	60.893	37.015
H	46.154	60.611	38.25
O	46.281	51.891	36.741
H	46.697	51.861	35.879
H	45.808	51.061	36.808
O	50.761	53.14	37.444
H	51.307	53.605	38.077
H	49.9	53.55	37.523
O	47.618	54.287	44.319
H	47.693	54.513	45.246
H	47.699	53.333	44.298
O	57.292	53.374	39.676
H	56.376	53.65	39.68
H	57.299	52.571	39.155

O	50.406	56.386	34.141
H	49.64	56.548	34.691
H	50.191	56.796	33.303
O	49.042	57.996	37.945
H	49.627	58.753	37.932
H	49.429	57.406	38.592
O	56.169	56.751	33.529
H	56.961	57.033	33.072
H	55.528	56.61	32.832
O	50.441	55.849	44.71
H	49.995	56.292	45.431
H	51.222	56.379	44.55
O	51.792	49.757	39.334
H	52.203	49.228	40.017
H	50.887	49.445	39.301
O	63.877	45.222	36.95
H	63.094	45.717	37.191
H	63.969	45.361	36.008
O	59.432	55.424	33.596
H	60.29	55.432	33.172
H	59.103	56.317	33.487
O	58.677	56.063	26.854
H	58.851	55.144	26.652
H	58.438	56.452	26.013
O	58.203	57.615	32.112
H	58.492	57.288	31.26
H	58.228	58.568	32.025
O	59.257	51.65	41.624
H	58.632	51.944	40.962
H	58.82	50.917	42.058
O	57.15	63.327	35.631
H	56.381	63.878	35.484
H	56.793	62.454	35.789
O	43.884	54.685	30.245
H	44.488	54.14	30.75
H	43.328	54.06	29.782
O	44.5	59.582	42.593
H	44.682	59.192	43.448
H	43.739	60.144	42.744
O	53.999	49.782	37.892
H	53.889	50.567	37.355
H	53.173	49.702	38.371
O	52.525	53.933	39.039
H	53.261	54.46	39.352
H	52.494	53.187	39.638
O	60.489	50.712	29.402
H	60.342	51.657	29.352

H	61.269	50.62	29.948
O	57.842	44.681	39.564
H	58.044	44.223	38.748
H	56.919	44.485	39.726
O	56.639	54.476	30.592
H	56.206	53.713	30.21
H	55.935	54.958	31.027
O	55.844	61.093	36.255
H	55.468	60.593	35.53
H	55.183	61.048	36.946
O	53.098	56.541	43.871
H	53.797	56.319	44.487
H	52.984	55.75	43.344
O	39.471	45.575	36.357
H	39.438	45.411	37.299
H	38.978	46.387	36.238
O	50.788	48.632	43.753
H	51.658	48.26	43.896
H	50.954	49.539	43.496
O	45.207	49.92	39.831
H	45.201	49.019	40.156
H	44.584	49.917	39.105
O	53.461	47.184	24.262
H	53.226	46.293	24.004
H	52.622	47.627	24.388
O	60.826	51.784	37.817
H	59.877	51.7	37.717
H	61.184	51.036	37.339
O	50.673	60.121	38.235
H	50.285	60.834	38.742
H	50.719	60.461	37.341
O	46.075	62.293	43.684
H	46.684	61.667	44.077
H	45.31	61.767	43.45
O	57.94	51.426	37.549
H	57.58	51.223	36.686
H	58.203	50.577	37.904
O	47.462	55.331	24.208
H	48.231	55.406	23.643
H	47.218	56.236	24.403
O	61.113	57.145	41.839
H	60.653	56.306	41.813
H	62.037	56.909	41.926
O	56.855	48.514	40.788
H	57.576	47.887	40.746
H	56.358	48.362	39.984
O	54.894	54.352	43.266

H	54.437	53.747	43.85
H	55.812	54.296	43.533
O	53.688	56.507	27.653
H	53.278	56.882	28.433
H	52.983	56.027	27.219
O	56.225	54.238	46.668
H	56.32	53.527	46.034
H	56.356	53.819	47.519
O	44.356	58.657	25.347
H	45.127	58.836	25.884
H	44.384	57.713	25.194
O	44.015	55.036	44.201
H	44.871	55.449	44.319
H	43.451	55.467	44.842
O	57.029	57.935	43.973
H	56.946	57.035	43.657
H	56.78	58.476	43.224
O	46.094	60.153	27.588
H	46.333	60.283	28.505
H	45.435	60.825	27.415
O	55.47	52.06	29.839
H	55.387	51.127	29.642
H	55.293	52.122	30.778
O	51.742	48.503	35.675
H	52.572	48.708	35.245
H	51.235	49.313	35.615
O	41.14	40.739	46.246
H	41.847	40.725	45.6
H	40.548	41.425	45.938
O	52.397	54.333	33.821
H	51.81	55.081	33.718
H	52.698	54.388	34.728
O	59.91	52.678	33.349
H	60.492	53.065	32.695
H	59.202	53.315	33.445
O	56.551	52.091	44.914
H	56.579	51.588	45.727
H	56.39	51.438	44.233
O	52.779	51.695	35.303
H	52.925	51.141	34.536
H	51.869	51.981	35.222
O	43.025	62.905	22.288
H	43.103	62.288	23.015
H	43.133	62.367	21.503
O	47.549	52.635	34.227
H	47.807	52.032	33.529
H	48.371	53.033	34.515

O	47.269	63.468	48.18
H	47.315	64.093	48.903
H	47.026	62.64	48.594
O	57.32	62.158	49.2
H	56.46	62.345	49.577
H	57.17	61.41	48.622
O	50.138	54.108	41.88
H	50.455	54.553	42.666
H	49.232	54.402	41.786
O	48.88	58.782	28.969
H	48.763	58.477	28.069
H	47.989	58.887	29.304
O	46.91	50.292	54.036
H	46.159	50.209	53.448
H	46.528	50.537	54.879
O	51.78	56.944	23.698
H	52.532	57.526	23.588
H	52.042	56.13	23.269
O	53.569	54.212	36.292
H	53.638	53.401	35.787
H	53.02	53.981	37.041
O	50.478	53.202	45.287
H	50.423	54.031	44.812
H	49.745	52.685	44.953
O	55.338	60.654	42.152
H	54.479	60.672	41.73
H	55.85	60.037	41.629
O	62.244	56.245	47.231
H	61.334	55.955	47.3
H	62.225	56.939	46.571
O	53.098	50.23	27.048
H	52.205	50.209	27.393
H	53.178	51.093	26.643
O	49.169	46.606	46.367
H	49.747	47.369	46.374
H	48.793	46.599	45.487
O	51.243	45.305	23.135
H	51.73	44.585	23.534
H	50.339	44.992	23.097
O	58.197	57.41	35.548
H	57.507	56.976	35.046
H	58.71	56.691	35.92
O	53.796	60.954	38.082
H	52.986	61.278	38.478
H	53.701	60.002	38.088
O	55.622	56.817	38.928
H	56.138	56.873	38.124

H	54.714	56.892	38.636
O	43.497	55.577	41.409
H	42.642	55.172	41.265
H	43.592	55.604	42.361
O	39.27	53.601	36.73
H	39.316	52.756	37.179
H	40.095	53.661	36.249
O	50.419	50.499	27.707
H	49.931	49.895	28.267
H	49.979	50.448	26.859
O	47.779	52.154	26.702
H	47.786	52.265	27.653
H	47.472	51.258	26.567
O	53.345	47.169	44.538
H	54.012	47.606	45.069
H	53.832	46.789	43.807
O	49.333	51.066	42.08
H	49.146	51.979	41.864
H	48.961	50.567	41.353
O	56.543	50.162	46.801
H	55.924	50.43	47.48
H	56.207	49.321	46.489
O	51.475	51.369	47.446
H	51.036	52.069	46.963
H	52.406	51.584	47.384
O	55.372	43.743	36.985
H	55.438	43.275	36.152
H	55.549	43.077	37.649
O	49.762	47.998	38.738
H	49.332	48.149	39.579
H	49.052	47.752	38.146
O	50.395	56.283	40.077
H	50.113	55.592	40.675
H	51.224	55.966	39.718
O	52.685	57.978	32.977
H	52.192	57.419	32.378
H	52.537	57.594	33.841
O	53.978	46.548	30.4
H	54.787	46.665	30.897
H	54.054	47.162	29.669
O	55.938	45.052	49.218
H	56.516	44.626	49.851
H	55.114	44.569	49.283
O	49.578	55.894	22.333
H	49.939	55.039	22.096
H	50.24	56.283	22.905
O	47.23	58.499	14.516

H	47.788	58.875	13.836
H	47.292	59.116	15.245
O	51.558	55.022	13.191
H	52.166	55.524	13.734
H	51.471	55.539	12.39
O	46.092	61.619	19.584
H	45.74	62.439	19.237
H	46.821	61.889	20.142
O	49.865	52.817	21.111
H	48.935	53.027	21.023
H	49.913	52.269	21.895
O	60.488	53.653	16.726
H	60.194	54.215	16.009
H	60.583	52.787	16.329
O	54.215	56.393	13.175
H	53.827	57.267	13.126
H	54.049	56.008	12.314
O	54.99	48.913	17.816
H	54.044	48.799	17.724
H	55.104	49.266	18.698
O	55.06	59.097	19.452
H	54.45	58.665	18.854
H	54.509	59.669	19.986
O	56.863	49.394	32.762
H	56.514	48.503	32.747
H	56.592	49.772	31.926
O	54.422	47.877	27.869
H	54.904	47.583	27.095
H	53.96	48.663	27.578
O	57.694	57.012	21.959
H	57.054	57.104	22.665
H	57.172	57.034	21.157
O	57.517	60.014	21.918
H	56.888	60.723	22.057
H	56.998	59.214	22.002
O	53.79	52.342	13.174
H	53.902	52.824	13.994
H	53.231	52.905	12.639
O	60.342	57.876	22.118
H	59.422	57.621	22.18
H	60.545	58.252	22.975
O	52.266	54.464	22.913
H	52.456	54.218	22.008
H	53.021	54.149	23.41
O	46.704	55.335	27.2
H	46.966	54.853	26.416
H	45.754	55.223	27.245

O	48.19	56.135	17.538
H	47.686	56.014	18.343
H	47.574	55.926	16.836
O	46.123	55.968	19.266
H	45.756	55.678	18.431
H	45.51	55.64	19.924
O	53.834	60.47	16.942
H	53.392	60.769	16.147
H	54.2	59.618	16.707
O	55.951	47.463	25.694
H	55.944	47.166	24.784
H	56.817	47.217	26.019
O	56.65	53.035	19.354
H	56.377	53.788	19.879
H	57.52	53.272	19.031
O	57.655	51.197	21.175
H	57.257	51.868	20.62
H	57.976	51.676	21.938
O	55.487	55.655	19.681
H	54.82	56.284	19.958
H	55.031	55.075	19.071
O	59.529	53.288	29.771
H	60.049	53.884	30.309
H	58.728	53.146	30.275
O	54.012	54.18	15.243
H	53.725	54.531	16.086
H	54.172	54.954	14.703
O	50.95	48.27	24.848
H	50.822	47.563	25.48
H	50.074	48.452	24.509
O	57.909	50.022	24.958
H	57.405	50.036	25.773
H	57.943	50.938	24.683
O	51.761	50.447	18.433
H	52.097	49.991	17.661
H	51.21	51.144	18.078
O	53.545	46.608	14.264
H	53.138	47.174	13.609
H	54.476	46.614	14.04
O	53.077	56.454	20.655
H	52.922	55.564	20.337
H	52.709	57.019	19.975
O	52.169	60.237	25.364
H	52.977	60.589	24.991
H	52.463	59.587	26.003
O	56.155	59.311	24.393
H	56.979	59.798	24.377

H	55.731	59.585	25.207
O	50.704	49.63	9.644
H	49.847	49.287	9.391
H	50.968	50.183	8.908
O	58.72	59.475	9.408
H	59.099	59.497	10.287
H	57.96	60.055	9.461
O	55.9	62.592	21.045
H	55.919	63.531	21.228
H	55.944	62.533	20.091
O	63.1	45.14	16.156
H	63.486	44.726	16.927
H	62.818	44.408	15.607
O	51.282	56.887	28.795
H	51.183	56.228	28.108
H	50.398	57.231	28.926
O	52.23	49.419	15.943
H	52.449	49.598	15.028
H	51.863	48.536	15.934
O	56.147	50.732	26.758
H	55.375	50.167	26.804
H	55.858	51.563	27.136
O	48.621	61.668	20.874
H	48.819	61.654	19.938
H	49.467	61.528	21.299
O	50.979	60.455	22.228
H	50.586	59.736	21.732
H	50.805	60.236	23.144
O	57.152	60.099	31.95
H	56.245	60.353	32.123
H	57.551	60.031	32.818
O	42.51	59.369	9.171
H	43.355	58.963	8.981
H	42.04	59.345	8.337
O	58.164	63.4	24.294
H	58.858	63.589	23.661
H	57.409	63.895	23.976
O	55.126	48.604	22.907
H	54.597	48.107	23.531
H	55.989	48.663	23.318
O	47.681	48.346	15.923
H	47.683	49.303	15.955
H	46.912	48.092	16.435
O	52.305	61.402	14.816
H	51.803	60.587	14.791
H	51.714	62.058	14.446
O	55.435	49.486	20.277

H	56.132	50.115	20.463
H	55.248	49.078	21.123
O	50.777	54.642	19.227
H	50.283	55.431	19.448
H	50.672	54.072	19.989
O	52.079	45.664	10.712
H	52.445	45.306	11.521
H	52.114	46.613	10.834
O	55.164	59.819	11.254
H	55.877	59.654	11.87
H	55.597	60.158	10.471
O	56.293	52.536	5.079
H	56.895	51.898	5.461
H	56.228	52.283	4.158
O	46.982	60.671	32.894
H	46.368	60.014	33.221
H	47.319	61.097	33.682
O	53.664	58.967	23.368
H	53.503	59.236	22.464
H	54.591	59.16	23.514
O	42.331	53.051	28.591
H	42.186	53.841	28.07
H	41.495	52.585	28.557
O	54.747	58.152	15.838
H	54.705	58.512	14.952
H	55.681	58.006	15.992
O	54.583	56.164	31.268
H	53.7	55.816	31.393
H	54.464	56.915	30.687
O	60.412	58.217	7.831
H	59.723	58.703	8.285
H	59.99	57.404	7.554
O	52.634	53.096	27.848
H	52.348	53.901	27.417
H	51.924	52.883	28.454
O	55.745	53.528	26.927
H	55.354	53.907	27.714
H	55.014	53.435	26.317
O	62.94	53.583	29.403
H	63.754	53.264	29.793
H	63.221	54.073	28.63
O	62.236	54.81	25.491
H	62.099	53.892	25.254
H	62.059	55.295	24.685
O	58.562	53.637	9.197
H	58.282	52.803	8.82
H	59.449	53.47	9.516

O	56.132	46.606	32.443
H	56.761	45.972	32.098
H	55.374	46.078	32.696
O	53.503	54.892	18.071
H	52.895	55.355	17.494
H	52.963	54.234	18.509
O	56.1	51.866	16.173
H	55.372	51.541	16.702
H	56.087	52.814	16.305
O	49.201	61.827	18.302
H	50.133	61.638	18.416
H	49.182	62.629	17.78
O	50.108	61.403	26.628
H	49.524	60.666	26.446
H	50.959	61.123	26.292
O	47.513	52.774	17.969
H	47.313	53.709	17.924
H	46.768	52.348	17.545
O	49.588	58.269	17.049
H	49.149	57.45	17.278
H	48.879	58.854	16.781
O	49.413	54.063	11.116
H	48.686	54.565	11.483
H	50.122	54.7	11.022
O	50.007	45.561	14.219
H	49.511	44.753	14.356
H	50.541	45.385	13.444
O	53.338	52.76	20.976
H	54.265	52.637	20.772
H	53.065	51.928	21.364
O	52.689	43.787	26.994
H	53.509	44.146	26.653
H	52.741	43.93	27.939
O	58.602	55.272	23.992
H	57.958	55.964	23.839
H	59.447	55.692	23.834
O	48.229	46.306	28.015
H	49.082	46.329	27.581
H	48.412	46.572	28.916
O	62.332	55.861	22.547
H	62.471	55.156	21.914
H	62.6	56.655	22.083
O	54.883	54.728	10.228
H	55.748	54.621	10.624
H	55.005	55.408	9.566
O	59.707	43.815	16.17
H	59.101	44.33	16.702

H	59.556	42.91	16.443
O	52.089	42.198	14.437
H	51.591	41.468	14.068
H	52.944	41.822	14.649
O	53.322	41.322	11.301
H	52.689	40.669	11.004
H	53.234	42.042	10.676
O	49.195	50.855	32.463
H	50.15	50.793	32.456
H	48.912	50.28	31.752
O	55.633	45.383	0.964
H	55.958	44.483	0.934
H	54.718	45.298	1.233
O	44.018	63.473	-4.279
H	43.872	62.559	-4.035
H	44.188	63.919	-3.449
O	48.274	59.995	2.27
H	48.387	59.206	1.74
H	48.098	60.688	1.634
O	48.434	52.158	4.649
H	48.98	52.422	5.39
H	48.807	52.621	3.899
O	55.037	49.223	7.685
H	54.282	48.769	8.06
H	55.022	50.089	8.093
O	45.515	49.545	-1.104
H	45.57	50.312	-1.675
H	44.578	49.438	-0.938
O	61.626	50.176	-4.794
H	61.382	51.083	-4.609
H	61.396	50.049	-5.715
O	54.522	52.503	0.996
H	54.171	51.665	0.693
H	55.431	52.312	1.227
O	48.158	48.853	7.892
H	47.963	48.874	6.955
H	47.324	48.632	8.306
O	52.827	45.641	-1.287
H	52.936	44.732	-1.565
H	52.287	45.586	-0.498
O	54.056	57.371	-0.383
H	53.572	57.804	-1.086
H	53.741	57.79	0.418
O	57.637	48.959	-0.24
H	57.084	48.644	0.475
H	58.491	48.56	-0.075
O	59.324	55.701	7.693

H	59.846	55.347	6.973
H	59.008	54.928	8.162
O	47.904	52.318	-2.11
H	48.098	52.925	-2.825
H	48.436	51.545	-2.301
O	49.685	42.931	5.052
H	50.472	43.439	4.858
H	49.406	42.587	4.204
O	58.794	51.296	5.739
H	59.1	50.686	5.068
H	59.174	52.138	5.489
O	56.228	49.179	5.135
H	55.931	48.331	4.805
H	56.032	49.154	6.071
O	56.294	56.914	9.011
H	56.34	56.559	9.898
H	57.112	56.637	8.599
O	45.478	51.843	4.28
H	46.423	51.944	4.398
H	45.386	51.053	3.748
O	57.394	54.753	11.268
H	57.967	54.452	10.562
H	57.942	55.344	11.784
O	53.046	45.524	2.062
H	52.169	45.887	2.187
H	53.25	45.097	2.894
O	56.995	51.349	2.828
H	57.725	50.868	3.217
H	56.433	50.67	2.453
O	62.371	48.808	9.33
H	63.103	48.64	8.737
H	61.885	47.983	9.35
O	53.356	51.187	4
H	52.708	51.389	3.325
H	54.076	51.795	3.831
O	49.65	55.146	7.321
H	50.267	55.602	7.893
H	49.865	55.457	6.441
O	49.942	53.009	2.455
H	50.599	52.374	2.169
H	50.004	53.72	1.817
O	55.955	47.974	1.709
H	56.03	47.061	1.432
H	55.224	47.977	2.328
O	48.661	59.727	-4.73
H	48.612	60.654	-4.962
H	49.599	59.543	-4.674

O	54.105	53.899	5.31
H	55.012	53.594	5.331
H	53.591	53.141	5.588
O	56.465	52.778	12.922
H	55.514	52.676	12.96
H	56.605	53.492	12.301
O	43.297	55.684	13.353
H	43.119	56.597	13.126
H	43.726	55.323	12.577
O	50.121	52.173	7.502
H	50.67	52.912	7.763
H	49.321	52.276	8.018
O	50.618	63.411	10.805
H	51.027	64.276	10.839
H	51.334	62.816	10.58
O	59.304	56.573	11.533
H	59.346	57.524	11.432
H	60.187	56.27	11.321
O	46.78	53.789	8.159
H	47.556	54.197	7.774
H	47.118	53.025	8.626
O	48.047	57.422	4.673
H	47.802	57.19	3.777
H	48.827	57.967	4.575
O	53.512	45.306	6.797
H	54.421	45.027	6.903
H	53.555	46.262	6.779
O	61.339	46.806	2.42
H	60.535	46.378	2.712
H	62.02	46.453	2.993
O	60.766	60.127	16.055
H	61.352	59.557	15.557
H	61.082	60.066	16.957
O	51.638	59.227	-0.286
H	51.749	59.845	0.436
H	51.022	58.575	0.049
O	55.149	51.786	9.415
H	55.036	52.703	9.665
H	56.022	51.75	9.023
O	52.174	65.932	-2.657
H	52.87	66.141	-3.279
H	51.924	65.033	-2.871
O	44.743	59.711	5.747
H	44.964	60.42	5.143
H	43.841	59.894	6.012
O	43.047	54.867	3.302
H	42.459	54.127	3.149

H	43.914	54.536	3.068
O	53.579	39.454	3.74
H	52.914	38.94	3.283
H	53.572	40.303	3.298
O	46.935	46.751	10.284
H	47.875	46.668	10.445
H	46.766	46.164	9.547
O	55.573	41.453	12.587
H	55.302	41.745	13.457
H	54.81	41.616	12.032
O	44.046	40.497	3.132
H	43.945	41.442	3.014
H	44.875	40.402	3.601
O	55.964	47.894	11.051
H	55.531	48.745	11.117
H	56.174	47.661	11.955
O	49.974	47.045	16.747
H	50.014	46.379	16.06
H	49.319	47.67	16.435
O	57.167	42.018	56.331
H	56.539	41.394	55.966
H	57.165	41.837	57.271
O	55.581	39.884	55.589
H	54.66	40.011	55.361
H	55.881	39.195	54.995
O	51.098	41.972	61.625
H	52.04	41.823	61.538
H	50.756	41.866	60.737
O	42.582	29.364	48.227
H	42.355	28.438	48.311
H	42.999	29.431	47.368
O	46.118	40.467	55.862
H	45.982	39.973	56.671
H	46.301	39.8	55.201
O	63.633	49.852	57.519
H	63.179	50.204	58.285
H	64.155	50.584	57.193
O	60.557	39.045	57.166
H	60.671	39.886	56.725
H	60.483	39.269	58.094
O	60.119	32.218	58.653
H	59.645	31.771	57.951
H	59.498	32.247	59.381
O	51.512	33.131	49.466
H	52.121	32.394	49.417
H	51.53	33.396	50.386
O	49.418	37.74	65.323

H	50.336	37.963	65.479
H	49.301	37.855	64.38
O	53.342	32.665	56.553
H	53.791	32.861	55.731
H	54.031	32.337	57.131
O	54.764	33.189	54.341
H	54.605	32.585	53.616
H	55.718	33.231	54.412
O	50.36	42.25	55.499
H	50.061	42.348	54.595
H	49.574	42.389	56.028
O	50.598	32.564	56.522
H	51.546	32.444	56.474
H	50.48	33.51	56.609
O	56.858	40.072	52.014
H	57.414	40.28	52.765
H	55.991	40.393	52.262
O	56.435	29.892	41.291
H	56.983	29.964	42.073
H	57.049	29.681	40.588
O	52.359	42.969	57.667
H	52.858	42.221	57.997
H	52.004	42.669	56.83
O	51.547	49.344	57.41
H	52.028	48.942	56.686
H	51.614	50.285	57.249
O	60.262	40.078	59.532
H	60.725	39.67	60.264
H	60.013	40.943	59.858
O	47.41	35.463	53.466
H	47.075	35.746	54.317
H	47.03	34.594	53.336
O	48.683	41.1	66.041
H	48.958	41.753	65.397
H	49.499	40.803	66.444
O	49.211	39.964	52.86
H	49.458	39.216	53.404
H	48.824	39.573	52.076
O	52.444	42.094	51.143
H	51.502	42.25	51.067
H	52.564	41.197	50.833
O	47.335	24.919	57.704
H	47.988	24.72	57.033
H	46.502	24.931	57.232
O	62.569	32.852	54.997
H	63.26	32.331	54.588
H	62.533	33.654	54.475

O	53.891	36.043	58.891
H	53.262	36.281	58.21
H	54.615	35.635	58.417
O	52.837	29.636	56.032
H	53.725	29.339	55.834
H	52.91	30.589	56.09
O	58.732	36.625	53.763
H	59.145	36.889	52.941
H	59.44	36.653	54.407
O	53.55	26.921	56.908
H	52.785	27.408	56.602
H	53.647	27.179	57.824
O	39.261	34.68	43.635
H	38.852	34.705	44.501
H	38.985	35.495	43.216
O	55.693	30.228	53.841
H	55.858	29.6	53.137
H	55.827	29.726	54.645
O	56.08	37.701	53.84
H	56.974	37.365	53.791
H	55.954	38.169	53.014
O	41.084	39.811	50.844
H	41.054	39.813	51.801
H	41.494	38.976	50.62
O	54.876	32.017	47.559
H	54.161	31.941	46.927
H	55.652	32.183	47.025
O	51.462	37.243	51.013
H	51.719	36.768	50.222
H	50.525	37.069	51.103
O	44.438	25.294	53.732
H	45.378	25.136	53.81
H	44.251	25.175	52.801
O	63.113	36.919	51.505
H	62.629	36.836	50.683
H	63.871	37.46	51.284
O	53.084	30.842	52.807
H	52.896	29.955	52.5
H	53.996	30.807	53.096
O	50.221	45.444	59.012
H	50.312	45.39	58.061
H	50.139	46.38	59.192
O	58.646	40.61	54.048
H	58.451	41.037	54.883
H	59.379	41.11	53.689
O	57.797	43.828	51.374
H	58.636	44.142	51.714

H	57.321	43.531	52.15
O	43.029	42.034	50.358
H	42.829	42.592	49.606
H	42.449	41.279	50.256
O	58.991	38.155	49.114
H	58.054	38.029	48.966
H	59.058	38.384	50.042
O	47.09	35.393	49.56
H	47.755	35.643	50.202
H	47.525	34.745	49.005
O	50.216	45.645	56.244
H	49.947	45.513	55.335
H	51.171	45.705	56.205
O	53.288	39.759	45.219
H	52.67	40.457	45
H	54.127	40.066	44.875
O	55.089	36.85	45.189
H	54.22	36.549	44.922
H	55.247	36.411	46.025
O	57.011	44.193	43.268
H	57.799	44.723	43.143
H	56.758	44.352	44.178
O	45.629	41.136	52.628
H	44.852	41.288	53.165
H	46.286	40.81	53.245
O	51.117	43.554	47.461
H	50.188	43.561	47.692
H	51.149	43.113	46.611
O	58.115	28.257	45.698
H	58.804	27.934	46.278
H	57.319	28.221	46.228
O	60.975	42.78	53.796
H	61.584	42.758	53.059
H	60.561	43.642	53.74
O	58.235	35.031	47.171
H	57.433	34.871	47.668
H	58.766	34.248	47.312
O	48.662	49.787	56.519
H	48.618	49.811	55.563
H	49.265	49.07	56.714
O	49.373	42.702	52.918
H	49.346	42.793	51.966
H	49.096	41.801	53.082
O	55.38	47.551	46.762
H	55.047	47.493	47.657
H	55.967	46.8	46.675
O	55.918	34.63	50.075

H	55.373	35.254	50.555
H	55.62	34.699	49.168
O	61.14	38.218	44.895
H	61.585	38.89	44.379
H	61.263	38.492	45.804
O	64.931	41.712	51.173
H	65.457	42.189	51.816
H	64.036	42.015	51.325
O	50.364	38.572	46.128
H	50.825	37.941	45.576
H	49.638	38.88	45.585
O	48.415	30.724	47.192
H	48.235	30.477	46.285
H	48.937	30	47.538
O	52.569	39.647	49.929
H	52.741	39.341	49.038
H	52.093	38.927	50.341
O	57.681	32.172	46.241
H	58.465	32.589	45.882
H	57.152	31.956	45.473
O	64.226	44.212	53.668
H	64.925	43.68	53.289
H	64.346	44.126	54.614
O	46.762	40.645	48.034
H	46.549	39.719	47.921
H	47.702	40.697	47.86
O	46.934	42.866	61.435
H	47.353	42.231	62.016
H	47.613	43.52	61.265
O	62.562	39.95	61.504
H	63.272	39.764	60.89
H	62.268	39.088	61.799
O	47.81	39.309	50.473
H	47.988	38.673	49.78
H	46.856	39.382	50.492
O	46.664	38.354	54.536
H	47.562	38.167	54.263
H	46.15	38.286	53.731
O	45.744	33.444	42.041
H	45.848	34.34	42.362
H	45.648	32.915	42.833
O	45.311	26.25	47.046
H	44.37	26.227	46.87
H	45.455	27.096	47.47
O	47.834	31.409	54.709
H	47.454	31.908	55.432
H	47.079	31.043	54.248

O	49.844	45.279	53.685
H	49.574	44.388	53.465
H	50.452	45.525	52.987
O	51.919	44.728	63.814
H	51.217	45.216	64.244
H	52.665	44.808	64.407
O	58.269	35.902	61.62
H	57.718	36.682	61.552
H	58.38	35.768	62.561
O	51.859	52.463	58.061
H	51.306	53.21	57.83
H	52.751	52.81	58.042
O	49.55	28.079	47.41
H	50.442	27.784	47.227
H	48.997	27.337	47.163
O	42.791	35.797	53.067
H	42.449	35.021	53.51
H	43.24	35.454	52.294
O	55.595	49.949	54.977
H	55.26	49.578	55.793
H	54.882	49.833	54.35
O	50.142	25.102	52.99
H	49.76	24.925	52.13
H	51.079	25.198	52.82
O	49.223	37.496	57.301
H	49.569	38.171	57.885
H	48.331	37.343	57.614
O	53.013	50.957	55.4
H	53.166	50.125	54.952
H	52.435	51.443	54.811
O	46.888	42.195	50.618
H	46.575	41.769	49.82
H	46.771	41.536	51.302
O	60.092	40.122	33.35
H	60.278	40.621	34.146
H	59.997	39.218	33.651
O	52.47	40.163	35.234
H	53.013	40.951	35.194
H	53.074	39.446	35.041
O	52.897	47.977	40.968
H	53.45	47.433	41.528
H	52.696	47.42	40.216
O	50.67	35.757	27.486
H	50.673	36.111	28.376
H	50.033	36.296	27.016
O	40.484	42.661	40.566
H	40.462	41.79	40.963

H	40.975	43.196	41.19
O	59.203	46.866	40.33
H	58.799	46.012	40.176
H	59.588	47.105	39.487
O	57.854	43.228	34.551
H	58.7	43.262	34.103
H	57.399	42.49	34.146
O	44.721	29.893	33.847
H	44.745	28.975	33.574
H	45.27	30.347	33.209
O	58.245	29.077	39.507
H	59.065	28.897	39.047
H	57.855	28.214	39.647
O	56.912	39.431	36.368
H	57.409	39.135	35.606
H	57.448	39.174	37.118
O	58.418	37.402	45.534
H	58.358	36.48	45.786
H	59.075	37.418	44.838
O	50.698	38.612	36.796
H	50.988	39.16	36.066
H	51.471	38.527	37.354
O	48.841	30.312	42.939
H	49.339	31.072	42.637
H	49.506	29.647	43.12
O	57.416	42.355	31.02
H	57.04	42.248	30.146
H	57.488	43.302	31.135
O	45.336	33.406	45.965
H	44.64	33.931	45.569
H	46.099	33.983	45.969
O	47.118	29.857	44.87
H	46.327	29.451	44.517
H	47.661	30.031	44.102
O	46.792	49.182	42.518
H	46.285	49.562	41.8
H	46.156	49.064	43.223
O	50.844	41.821	33.094
H	51.185	41.837	33.988
H	50.567	40.914	32.96
O	58.77	31.323	37.252
H	59.335	31.769	36.622
H	59.297	30.589	37.569
O	62.271	30.999	42.03
H	61.555	31.114	42.654
H	62.614	30.125	42.216
O	57.075	34.919	34.877

H	57.35	34.155	34.37
H	56.391	35.326	34.344
O	58.25	39.074	38.649
H	58.875	38.805	39.322
H	57.806	39.835	39.026
O	47.417	42.298	40.594
H	48.136	42.028	40.023
H	46.844	42.817	40.03
O	61.506	34.462	37.379
H	61.694	33.772	38.015
H	60.556	34.432	37.266
O	58.178	42.94	37.189
H	59.087	43.152	36.98
H	57.714	43.023	36.356
O	52.197	37.941	41.829
H	52.973	37.577	41.404
H	52.24	38.879	41.643
O	53.869	35.998	40.694
H	53.724	35.103	40.387
H	54.818	36.064	40.802
O	56.129	38.994	49.501
H	55.604	38.371	50.004
H	56.547	39.545	50.163
O	54.805	32.482	38.096
H	54.298	33.222	37.763
H	54.303	31.71	37.834
O	48.165	45.063	36.806
H	48.998	44.637	36.609
H	47.518	44.568	36.304
O	49.2	39.775	32.858
H	48.714	39.415	32.116
H	48.705	39.496	33.628
O	50.758	46.322	27.203
H	51.463	46.878	27.535
H	51.19	45.5	26.971
O	52.427	40.383	40.901
H	53.182	40.962	41.01
H	52.193	40.467	39.977
O	53.72	30.458	41.203
H	54.661	30.285	41.206
H	53.351	29.772	40.648
O	53.529	38.489	37.995
H	53.929	38.435	38.863
H	54.171	38.087	37.41
O	52.681	34.485	32.306
H	52.313	33.84	31.702
H	51.931	34.789	32.817

O	61.849	32.378	39.581
H	62.523	32.039	38.993
H	62.013	31.937	40.414
O	48.021	38.833	35.332
H	48.508	38.332	35.986
H	47.977	39.718	35.692
O	56.156	31.889	43.909
H	55.315	31.503	43.662
H	56.806	31.241	43.637
O	59.946	30.678	30.994
H	59.448	30.713	31.811
H	59.727	29.826	30.617
O	41.038	27.549	41.016
H	40.241	27.094	40.743
H	41.605	26.857	41.356
O	59.909	31.696	43.36
H	59.823	32.341	44.062
H	59.718	32.185	42.56
O	50.69	32.89	43.94
H	51.129	33.394	44.625
H	50.037	32.369	44.409
O	44.813	37.056	26.369
H	45.229	36.206	26.513
H	43.885	36.901	26.543
O	64.019	31.126	37.975
H	64.192	30.98	37.044
H	64.665	31.782	38.238
O	53.417	34.505	37.301
H	53.963	35.288	37.38
H	53.539	34.219	36.396
O	40.31	39.388	42.397
H	40.901	38.937	43
H	39.554	39.626	42.935
O	59.069	40.377	30.755
H	58.306	40.95	30.83
H	59.33	40.206	31.66
O	57.542	34.388	31.274
H	58.455	34.1	31.269
H	57.177	34.041	30.46
O	49.925	30.916	39.725
H	50.165	31.214	38.848
H	49.31	31.577	40.043
O	55.799	38.811	40.52
H	56.557	38.443	40.067
H	55.893	38.515	41.425
O	49.419	22.084	28.588
H	48.978	21.235	28.628

H	48.817	22.687	29.024
O	46.937	37.165	45.191
H	46.208	37.029	44.587
H	47.286	38.025	44.955
O	48.343	46.9	34.61
H	48.249	47.851	34.679
H	49.21	46.718	34.97
O	51.292	34.301	39.58
H	51.732	34.364	38.732
H	51.384	33.382	39.831
O	53.403	50.262	52.284
H	52.574	49.844	52.05
H	53.846	50.399	51.447
O	53.995	33.181	40.854
H	53.831	32.242	40.763
H	54.657	33.374	40.19
O	59.267	48.769	38.198
H	59.426	48.676	37.259
H	58.337	48.569	38.305
O	51.269	31.183	37.546
H	51.387	31.565	36.676
H	52.055	30.655	37.684
O	56.589	34.674	43.661
H	56.064	35.22	44.247
H	56.096	33.856	43.592
O	56.963	41.45	44.978
H	56.88	40.604	45.417
H	57.852	41.74	45.183
O	47.173	38.569	41.361
H	47.647	39.143	40.759
H	46.846	39.155	42.043
O	51.774	48.664	31.423
H	50.972	48.479	30.935
H	52.371	47.956	31.18
O	49.653	47.731	30.267
H	48.871	48.078	30.697
H	49.906	46.979	30.802
O	55.315	50.4	49.377
H	55.407	49.448	49.338
H	55.913	50.67	50.075
O	57.482	38.369	32.784
H	57.027	38.137	31.975
H	57.979	37.583	33.013
O	58.413	46.363	21.256
H	57.74	46.017	21.842
H	59.067	46.745	21.841
O	41.422	31.328	44.444

H	42.129	30.934	44.954
H	40.691	30.716	44.535
O	51.209	48.917	49.33
H	51.303	49.734	48.84
H	51.505	48.239	48.722
O	53.247	43.693	49.132
H	52.489	43.491	48.583
H	53.096	43.202	49.94
O	54.029	45.214	33.465
H	53.146	45.383	33.791
H	53.961	44.372	33.015
O	52.437	44.811	39.689
H	52.359	45.729	39.432
H	51.797	44.703	40.394
O	52.047	41.065	38.229
H	52.339	41.803	37.694
H	52.588	40.33	37.94
O	52.481	43.547	37.192
H	53.257	43.771	36.679
H	52.496	44.159	37.928
O	59.32	38.478	41.313
H	60.238	38.702	41.163
H	59.338	37.561	41.587
O	54.926	46.626	42.456
H	55.375	47.327	41.984
H	55.502	45.867	42.362
O	58.846	34.337	37.201
H	58.254	34.834	36.637
H	58.266	33.851	37.787
O	51.039	37.717	32.033
H	50.45	38.329	32.474
H	51.143	36.996	32.653
O	50.822	39.392	29.583
H	49.903	39.127	29.609
H	51.22	38.954	30.335
O	58.537	54.622	36.331
H	58.18	53.734	36.335
H	58.936	54.715	35.466
O	42.513	43.777	42.097
H	42.407	44.636	41.688
H	42.563	43.962	43.034
O	47.014	38.043	47.862
H	47.072	37.775	46.945
H	46.796	37.238	48.333
O	55.785	49.23	29.923
H	55.596	48.827	29.076
H	56.735	49.343	29.928

O	50.044	39.992	42.262
H	50.85	40.282	41.835
H	49.723	39.279	41.71
O	53.186	42.275	23.525
H	52.712	41.448	23.443
H	53.201	42.631	22.636
O	52.991	38.349	53.463
H	52.395	38.29	52.716
H	53.276	37.448	53.614
O	54.605	38.651	34.633
H	54.93	38.214	33.846
H	55.393	38.977	35.068
O	51.455	34.868	45.687
H	50.513	34.819	45.525
H	51.718	35.708	45.311
O	59.014	36.273	33.396
H	58.691	35.474	33.814
H	59.882	36.037	33.069
O	48.722	34.9	44.618
H	48.676	35.013	43.669
H	48.356	35.71	44.974
O	60.347	45.453	32.382
H	60.761	44.971	31.667
H	61.066	45.666	32.977
O	54.009	33.798	45.713
H	53.098	33.941	45.97
H	54.034	34.032	44.785
O	43.736	30.745	45.828
H	44.301	30.353	45.163
H	44.105	31.617	45.971
O	52.438	37.391	44.582
H	52.508	37.454	43.63
H	52.809	38.212	44.905
O	57.44	32.662	51.394
H	56.93	33.344	50.956
H	56.783	32.06	51.745
O	47.799	36.226	34.226
H	47.256	37.001	34.365
H	47.393	35.779	33.483
O	51.796	44.876	44.067
H	52.029	45.776	44.293
H	52.435	44.338	44.534
O	58.115	31.168	48.923
H	57.981	31.583	48.07
H	58.77	31.717	49.354
O	51.274	32.521	30.685
H	51.443	32.592	29.745

H	50.73	31.739	30.771
O	52.135	52.147	40.917
H	51.876	51.381	40.405
H	51.313	52.487	41.272
O	50.582	27.319	28.17
H	50.375	26.427	28.449
H	51.539	27.343	28.136
O	59.112	48.155	33.579
H	58.315	48.595	33.285
H	59.72	48.247	32.845
O	48.383	34.855	36.519
H	48.284	33.962	36.187
H	48.114	35.413	35.79
O	44.607	42.064	46.874
H	45.416	41.647	47.171
H	43.921	41.429	47.08
O	49.807	42.4	39.394
H	50.602	42.052	38.991
H	50.12	43.076	39.996
O	52.358	47.146	38.125
H	51.414	47.292	38.067
H	52.741	47.839	37.586
O	43.352	47.136	31.377
H	43.607	46.568	30.651
H	42.743	47.764	30.988
O	50.425	44.479	41.526
H	50.941	44.644	42.314
H	49.521	44.652	41.791
O	50.479	35.907	41.66
H	51.129	36.598	41.786
H	50.816	35.393	40.926
O	47.335	37.895	38.55
H	47.927	38.555	38.912
H	47.67	37.063	38.885
O	47.065	28.057	29.099
H	47.385	27.392	29.708
H	47.204	27.675	28.233
O	44.794	35.432	28.88
H	44.426	34.564	29.046
H	44.035	35.981	28.685
O	48.562	26.441	42.324
H	48.053	27.182	41.994
H	47.907	25.775	42.533
O	48.155	32.516	35.141
H	48.427	32.774	34.26
H	48.137	31.559	35.115
O	50.726	41.789	44.928

H	50.523	41.172	44.225
H	50.212	42.568	44.719
O	54.658	41.979	43.431
H	55.556	42.118	43.733
H	54.748	41.767	42.502
O	53.075	30.753	44.05
H	53.164	29.993	43.476
H	52.394	31.285	43.64
O	54.15	22.449	49.271
H	53.294	22.631	48.883
H	54.741	22.369	48.523
O	46.346	44.433	49.152
H	47.021	44.453	48.474
H	46.531	43.637	49.651
O	44.427	49.418	43.858
H	44.649	49.291	44.78
H	43.658	49.987	43.873
O	58.903	45.713	35.436
H	58.526	44.883	35.142
H	59.131	46.172	34.628
O	49.147	39.724	39.359
H	49.545	40.558	39.608
H	49.531	39.52	38.507
O	53.562	27.201	40.905
H	53.763	26.926	41.799
H	52.607	27.267	40.883
O	54.116	48.05	34.681
H	54.566	47.82	35.494
H	54.23	47.284	34.119
O	55.475	36.61	37.237
H	55.864	36.411	36.386
H	56.224	36.718	37.823
O	49.821	40.627	47.84
H	50.604	41.162	47.705
H	50.039	39.781	47.449
O	54.644	52.836	32.632
H	54.001	53.474	32.942
H	54.314	51.993	32.942
O	48.261	30.407	30.525
H	48.733	30.711	29.749
H	47.704	29.698	30.204
O	53.051	34.292	43.192
H	52.118	34.253	42.982
H	53.491	34.078	42.37
O	64.276	42.706	43.979
H	63.86	42.366	44.771
H	63.796	42.294	43.261

O	52.063	33.187	52.195
H	51.15	33.091	52.466
H	52.501	32.413	52.55
O	63.985	43.451	38.892
H	64.206	44.004	38.142
H	63.398	43.991	39.422
O	54.398	42.863	31.793
H	54.46	41.911	31.711
H	53.931	43.141	31.005
O	56.998	42.932	20.923
H	56.19	42.445	21.084
H	57.67	42.448	21.404
O	48.808	34.875	20.265
H	49.12	35.774	20.163
H	49.537	34.414	20.68
O	54.705	40.972	21.155
H	54.988	40.095	21.416
H	54.34	40.855	20.278
O	47.08	40.78	15.42
H	46.243	40.536	15.026
H	46.942	40.672	16.361
O	46.646	30.826	17.855
H	46.318	31.697	17.632
H	46.577	30.781	18.809
O	56.078	41.98	28.68
H	56.485	41.415	28.023
H	55.507	42.56	28.176
O	51.732	39.775	21.285
H	51.644	40.169	22.153
H	51.255	40.367	20.704
O	45.13	33.843	22.711
H	44.673	34.604	22.353
H	44.521	33.478	23.352
O	63.718	37.571	24.886
H	63.167	37.053	25.473
H	64.502	37.764	25.401
O	56.847	35.858	10.842
H	57.144	36.122	11.713
H	55.951	36.189	10.784
O	55.036	38.902	23.386
H	54.438	38.843	24.131
H	55.867	39.187	23.767
O	50.419	33.389	21.971
H	49.556	33.208	22.345
H	51.037	33.051	22.619
O	53.108	34.081	22.663
H	53.647	34.822	22.386

H	53.676	33.318	22.555
O	57.263	37.107	23.798
H	56.66	37.39	24.486
H	57.041	36.188	23.649
O	46	37.457	23.495
H	45.291	37.879	23.978
H	46.172	36.649	23.979
O	49.617	29.157	19.548
H	50.508	29.47	19.393
H	49.339	28.798	18.704
O	58.459	46.262	26.191
H	58.945	46.966	25.762
H	58.73	45.468	25.731
O	44.797	41.493	17.229
H	45.601	41.199	17.657
H	44.454	42.176	17.805
O	59.326	25.132	21.233
H	58.856	24.34	21.493
H	60.246	24.869	21.209
O	58.906	33.139	13.117
H	58.83	32.221	13.377
H	59.841	33.265	12.954
O	57.5	38.795	14.387
H	57.841	39.685	14.468
H	58.12	38.352	13.808
O	47.88	37.646	14.876
H	47.785	37.637	15.829
H	48.824	37.578	14.729
O	54.145	44.833	19.086
H	53.872	45.097	18.207
H	55.037	45.169	19.17
O	58.625	38.389	21.455
H	58.306	38.031	22.283
H	58.889	37.621	20.948
O	60.3	50.331	34.84
H	59.814	51.002	34.362
H	59.954	49.502	34.509
O	55.581	43.402	24.078
H	56.27	42.76	23.905
H	54.765	42.924	23.931
O	60.125	37.584	24.17
H	60.452	37.149	24.957
H	59.275	37.176	24.005
O	53.08	38.162	24.921
H	52.693	37.46	24.397
H	52.416	38.361	25.581
O	52.408	36.552	17.231

H	52.455	37.412	16.814
H	52.488	36.735	18.168
O	42.97	42.32	21.509
H	43.502	42.336	22.305
H	42.16	42.768	21.752
O	53.534	34.029	17.574
H	53.151	34.853	17.274
H	52.964	33.747	18.289
O	58.406	41.341	14.829
H	58.341	42.27	14.608
H	59.335	41.134	14.727
O	50.573	41.053	23.692
H	50.112	40.215	23.675
H	50.359	41.427	24.546
O	44.687	32.665	29.278
H	45.634	32.799	29.257
H	44.5	32.411	30.182
O	54.631	31.884	21.36
H	54.845	31.037	21.75
H	55.383	32.089	20.804
O	61.111	28.571	15.981
H	60.185	28.365	16.108
H	61.155	29.525	16.041
O	61.926	35.98	26.105
H	61.003	35.737	26.18
H	62.225	36.069	27.01
O	54.393	39.637	18.537
H	54.888	39.272	17.804
H	54.431	40.584	18.405
O	56.904	34.527	28.459
H	56.764	34.516	27.512
H	56.024	34.48	28.832
O	61.772	32.946	12.183
H	62.287	32.232	12.561
H	62.379	33.391	11.592
O	46.909	35.285	26.881
H	46.655	34.99	27.756
H	47.56	34.645	26.593
O	56.951	28.92	31.608
H	57.416	29.526	32.186
H	56.163	28.682	32.095
O	47.566	28.278	17.561
H	46.844	27.701	17.313
H	47.171	29.149	17.607
O	50.088	34.746	16.956
H	50.741	35.165	17.516
H	50.097	35.263	16.15

O	55.351	44.201	26.812
H	56.074	44.557	27.328
H	55.73	44.04	25.948
O	51.105	31.442	23.731
H	51.318	30.691	24.284
H	50.463	31.105	23.106
O	52.742	34.187	13.839
H	53.555	33.77	13.552
H	52.284	33.505	14.331
O	54.111	35.288	10.019
H	53.462	35.977	9.878
H	53.593	34.511	10.231
O	54.489	38.338	11.438
H	54.729	37.692	12.103
H	54.41	39.161	11.922
O	40.868	41.345	18.906
H	41.514	40.869	18.384
H	40.774	40.824	19.704
O	54.132	34.418	29.316
H	53.846	35.296	29.568
H	53.483	34.129	28.675
O	47.567	28.509	23.566
H	46.783	28.09	23.211
H	47.821	27.955	24.304
O	48.259	37.696	26.648
H	47.77	38.363	27.131
H	47.738	36.899	26.746
O	46.312	44.208	19.374
H	45.573	43.701	19.036
H	46.606	44.729	18.627
O	55.481	25.801	19.054
H	55.079	24.936	18.975
H	56.406	25.655	18.856
O	58.531	37.896	28.829
H	58.885	38.552	29.429
H	57.692	37.646	29.215
O	59.18	36.194	15.691
H	59.613	36.514	14.9
H	59.019	36.981	16.211
O	61.053	37.38	8.02
H	61.561	38.115	8.365
H	60.73	37.688	7.174
O	51.026	42.143	19.551
H	50.117	42.436	19.616
H	51.544	42.91	19.795
O	50.443	30.602	28.548
H	51.242	30.079	28.615

H	50.069	30.361	27.701
O	63.759	43.97	27.011
H	64.635	43.69	27.275
H	63.743	43.845	26.062
O	58.287	41.801	17.484
H	57.955	41.046	17.97
H	58.378	41.486	16.585
O	46.5	36.819	17.8
H	46.645	37.558	18.391
H	46.626	36.045	18.349
O	58.035	40.592	11.995
H	57.713	39.785	11.593
H	57.245	41.046	12.288
O	54.824	42.458	34.587
H	55.435	41.765	34.338
H	54.718	42.981	33.792
O	45.086	28.124	10.523
H	45.7	27.729	9.905
H	44.395	28.492	9.972
O	53.618	44.994	16.252
H	52.774	44.545	16.199
H	53.578	45.66	15.565
O	48.93	30.386	21.926
H	49.285	30.008	21.122
H	48.723	29.63	22.476
O	49.017	42.495	28.881
H	49.524	42.708	29.665
H	49.674	42.374	28.196
O	55.84	46.348	36.267
H	55.58	45.43	36.348
H	56.585	46.333	35.667
O	62.134	46.981	17.98
H	62.343	46.335	17.305
H	61.388	46.605	18.449
O	48.241	43.24	20.848
H	48.033	42.332	20.628
H	47.603	43.758	20.357
O	57.193	44.142	18.262
H	57.36	43.233	18.012
H	56.931	44.093	19.182
O	55.661	29.488	16.485
H	55.197	29.995	17.152
H	55.27	29.768	15.657
O	56.704	34.496	22.712
H	56.86	33.832	22.04
H	56.065	35.089	22.318
O	58.223	50.049	16.935

H	58.325	49.885	17.872
H	57.338	50.404	16.849
O	54.337	30.424	14.151
H	54.531	31.206	13.634
H	53.416	30.237	13.965
O	60.496	37.876	17.863
H	59.76	38.444	18.091
H	61.125	38.002	18.574
O	60.436	34.628	7.859
H	60.133	34.436	8.746
H	60.694	35.55	7.888
O	48.717	49.996	21.234
H	49.665	50.079	21.341
H	48.559	49.052	21.233
O	51.87	38.907	15.947
H	51.738	38.146	15.382
H	52.644	39.34	15.588
O	53.359	39.486	28.253
H	53.76	39.985	27.542
H	52.418	39.546	28.089
O	55.469	38.07	15.895
H	55.474	37.122	16.027
H	56.288	38.252	15.435
O	45.969	35.193	20.095
H	46.768	35.083	20.611
H	45.701	34.3	19.876
O	57.876	39.402	18.899
H	57.113	38.826	18.942
H	58.26	39.358	19.774
O	55.023	31.547	28.96
H	55.918	31.748	28.689
H	54.673	32.381	29.271
O	62.14	43.866	9.902
H	61.698	43.068	10.191
H	61.793	44.552	10.472
O	46.705	41.561	30.813
H	46.971	40.642	30.823
H	47.356	41.993	30.259
O	55.739	37.145	18.988
H	55.134	37.852	18.767
H	55.896	36.694	18.159
O	48.822	33.438	25.716
H	49.697	33.145	25.459
H	48.234	33.007	25.096
O	50.755	36.109	14.587
H	50.778	36.509	13.718
H	51.426	35.427	14.555

O	53.381	32.491	25.067
H	52.972	32.478	24.201
H	53.408	31.572	25.333
O	57.738	32.785	20.679
H	58.437	32.142	20.798
H	58.11	33.434	20.082
O	52.914	44.045	29.626
H	52.952	44.936	29.973
H	52.473	43.541	30.31
O	61.534	39.204	29.332
H	60.752	39.632	29.681
H	61.336	38.268	29.379
O	52.128	27.873	10.024
H	52.752	28.046	10.73
H	52.53	27.167	9.517
O	54.397	52.815	24.211
H	53.959	52.112	23.731
H	55.064	53.139	23.606
O	59.036	35.46	25.856
H	58.263	34.944	25.625
H	58.783	35.929	26.651
O	58.564	30.447	6.969
H	57.94	30.966	6.461
H	59.302	31.038	7.118
O	57.457	41.493	24.378
H	58.251	41.151	23.967
H	57.582	41.331	25.313
O	56.82	33.249	10.864
H	56.922	34.201	10.86
H	57.544	32.933	11.404
O	62.836	45.082	13.023
H	62.008	45.341	13.427
H	63.078	45.828	12.474
O	46.98	45.188	16.72
H	47.476	45.954	16.428
H	46.181	45.206	16.193
O	45.861	48.491	20.721
H	45.86	49.169	21.397
H	46.718	48.569	20.304
O	60.287	45.526	19.319
H	60.197	44.575	19.259
H	59.451	45.823	19.68
O	50.263	45.283	18.754
H	50.924	44.739	18.325
H	50.014	45.925	18.09
O	38.859	42.227	17.185
H	39.671	42.08	17.671

H	39.082	42.017	16.278
O	46.541	30.455	20.49
H	47.454	30.545	20.763
H	46.097	30.088	21.254
O	46.59	39.88	27.556
H	45.773	39.801	28.049
H	46.316	40.156	26.681
O	54.847	36.15	21.552
H	54.908	36.982	22.022
H	54.995	36.382	20.635
O	59.223	34.44	18.334
H	59.454	33.674	17.81
H	58.852	35.059	17.705
O	54.66	36.374	13.42
H	54.029	35.66	13.515
H	55.515	35.946	13.474
O	47.724	30.847	25.206
H	47.455	30.29	24.474
H	48.412	30.348	25.646
O	54.105	27.162	24.527
H	54.957	27.137	24.962
H	54.314	27.199	23.594
O	54.851	40.263	30.913
H	55.51	40.683	30.36
H	54.051	40.283	30.388
O	54.454	42.229	17.497
H	54.828	42.917	16.947
H	53.534	42.189	17.237
O	50.053	29.473	26.085
H	50.586	29.182	25.345
H	49.917	28.682	26.607
O	46.245	25.868	33.491
H	45.375	26.264	33.445
H	46.846	26.585	33.288
O	46.046	53.171	24.652
H	46.711	53.857	24.599
H	46.448	52.489	25.191
O	50.899	39.342	26.41
H	50.274	39.19	25.702
H	50.454	39.022	27.195
O	56.332	45.618	22.928
H	55.528	45.732	22.421
H	56.199	44.8	23.406
O	56.972	46.533	16.99
H	57.074	45.637	17.312
H	56.329	46.928	17.579
O	61.622	36.034	32.651

H	61.855	35.258	33.161
H	62.238	36.032	31.918
O	48.79	44.257	23.301
H	48.625	43.6	23.977
H	48.575	43.815	22.479
O	52.358	33.141	20.011
H	53.139	32.727	20.379
H	51.824	33.364	20.774
O	58.68	30.398	14.255
H	58.201	29.607	14.007
H	59.585	30.22	13.999
O	53.039	52.729	7.569
H	53.549	53.527	7.429
H	53.3	52.427	8.439
O	58.952	31.956	16.507
H	59.876	32.194	16.43
H	58.813	31.31	15.815
O	58.26	27.489	13.8
H	58.234	27.157	14.698
H	59.182	27.429	13.55
O	62.205	44.385	30.746
H	61.799	44.313	29.882
H	63.042	44.82	30.582
O	53.612	33.862	34.803
H	53.664	34.335	33.972
H	53.95	32.989	34.604
O	52.458	48.295	12.265
H	51.734	48.864	12.528
H	53.136	48.898	11.958
O	52.474	44.389	13.009
H	52.7	45.036	13.677
H	52.285	43.591	13.503
O	65.058	40.253	10.357
H	65.166	41.196	10.238
H	65.598	39.861	9.67
O	54.509	41.165	-1.155
H	55.318	40.736	-0.875
H	54.162	40.595	-1.841
O	57.713	51.71	-4.126
H	56.982	51.093	-4.149
H	57.459	52.405	-4.733
O	45.118	32.184	4.739
H	44.399	31.556	4.812
H	45.016	32.755	5.501
O	59.48	42.719	0.75
H	59.548	43.409	0.09
H	59.207	43.175	1.546

O	54.535	36.812	-8.078
H	54.708	36.521	-7.183
H	53.606	37.042	-8.081
O	49.7	33.761	0.582
H	50.524	33.383	0.886
H	49.883	34.047	-0.313
O	62.826	33.06	2.015
H	63.664	32.663	1.777
H	62.609	33.625	1.274
O	55.803	31.321	0.516
H	54.893	31.04	0.609
H	55.873	32.095	1.075
O	53.202	35.421	-5.179
H	53.798	34.68	-5.288
H	52.336	35.063	-5.375
O	51.269	25.524	3.496
H	50.837	24.7	3.721
H	50.668	25.949	2.883
O	53.685	41.822	1.458
H	54.148	42.606	1.751
H	54.07	41.621	0.605
O	45.545	31.519	8.24
H	46.328	31.516	7.689
H	45.808	31.047	9.03
O	49.308	44.829	11.153
H	50.235	45.063	11.122
H	49.155	44.349	10.338
O	58.713	35.02	-0.615
H	58.637	35.974	-0.609
H	58.614	34.767	0.303
O	55.48	41.778	4.226
H	55.428	42.716	4.047
H	54.589	41.531	4.474
O	52.458	48.13	7.946
H	52.151	48.792	7.327
H	52.008	48.341	8.764
O	52.643	36.673	-2.612
H	52.708	37.552	-2.985
H	52.798	36.086	-3.353
O	58.66	43.225	10.063
H	59.2	42.447	10.199
H	59.201	43.951	10.373
O	60.831	38.292	5.27
H	60.311	39.089	5.17
H	60.702	37.817	4.448
O	55.554	43.226	14.761
H	55.11	43.846	15.34

H	56.156	43.765	14.249
O	41.924	42.159	13.355
H	42.506	42.555	14.004
H	42.424	42.183	12.539
O	46.564	44.958	8.4
H	46.386	44.898	7.462
H	47.354	44.433	8.528
O	53.071	27.782	3.045
H	52.542	26.987	2.984
H	52.438	28.497	2.969
O	52.366	33.006	10.942
H	52.629	32.95	11.861
H	51.752	33.739	10.912
O	62.285	30.285	-1.097
H	62.141	29.74	-0.324
H	61.669	31.011	-0.997
O	64.055	47.061	5.457
H	63.479	46.671	6.115
H	63.98	46.481	4.699
O	45.42	41.368	11.622
H	44.503	41.37	11.346
H	45.65	42.294	11.694
O	54.036	32.827	6.972
H	54.736	32.512	6.401
H	54.338	32.622	7.857
O	50.917	29.518	2.765
H	50.613	30.425	2.749
H	50.798	29.209	1.867
O	55.12	37.417	4.641
H	54.493	37.978	4.184
H	54.907	36.531	4.349
O	57.76	37.748	-1.92
H	57.161	37.247	-2.473
H	58.437	38.059	-2.521
O	52.033	32.713	1.319
H	52.24	31.877	0.901
H	52.319	32.604	2.226
O	48.475	45.595	4.161
H	48.792	45.08	3.419
H	49.24	46.093	4.45
O	49.863	39.278	0.071
H	49.564	40.135	-0.232
H	49.931	39.371	1.021
O	51.48	35.598	4.756
H	52.299	35.595	5.252
H	51.729	35.292	3.883
O	60.081	41.184	5.548

H	59.15	40.964	5.58
H	60.125	41.956	4.984
O	52.856	40.224	-3.681
H	52.835	39.602	-4.409
H	51.968	40.579	-3.645
O	50.919	40.432	10.313
H	50.453	39.619	10.116
H	50.232	41.096	10.36
O	51.575	36.426	8.277
H	51.942	35.63	7.892
H	51.951	37.138	7.758
O	58.473	46.928	12.808
H	58.593	47.802	12.438
H	57.837	47.051	13.512
O	56.711	42.885	8.23
H	57.104	43.051	9.087
H	57.176	42.117	7.898
O	45.539	23.4	7.862
H	46.46	23.536	8.085
H	45.123	24.244	8.037
O	57.445	40.361	7.605
H	57.37	40.112	6.684
H	56.915	39.714	8.072
O	56.016	47.425	14.443
H	55.895	48.371	14.359
H	56.27	47.296	15.357
O	53.44	35.384	6.541
H	53.727	34.473	6.598
H	54.166	35.888	6.909
O	51.714	51.217	1.306
H	51.07	51.431	0.631
H	52.361	50.672	0.857
O	54.272	50.324	11.706
H	54.429	50.714	10.846
H	54.187	51.072	12.296
O	49.372	33.486	5.744
H	50.059	34.065	5.415
H	49.441	33.55	6.697
O	54.184	40.401	15.222
H	54.561	39.523	15.279
H	54.917	40.989	15.404
O	55.822	30.021	8.704
H	55.4	30.761	9.141
H	56.281	29.559	9.406
O	56.002	36.246	7.815
H	55.522	35.836	8.534
H	56.047	37.172	8.054

O	51.774	30.09	13.375
H	51.599	30.189	12.439
H	50.928	29.847	13.752
O	56.368	32.053	5.367
H	56.896	31.838	4.598
H	56.542	32.98	5.526
O	55.018	34.759	3.529
H	55.505	34.532	2.737
H	55.606	34.525	4.247
O	59.803	32.841	10.268
H	60.127	32.653	11.148
H	59.458	32.005	9.956
O	50.043	40.492	13.546
H	49.682	41.024	12.837
H	49.372	40.513	14.228
O	51.416	31.451	7.82
H	51.915	31.881	7.125
H	50.692	32.05	8.001
O	56.301	45.055	6.779
H	56.241	45.722	7.462
H	56.393	44.23	7.256
O	46.836	40.362	4.172
H	46.64	39.585	4.696
H	47.765	40.277	3.957
O	51.337	40.748	7.766
H	51.465	40.471	8.673
H	51.775	41.598	7.712
O	52.758	35.478	2.167
H	52.82	35.043	1.316
H	53.602	35.305	2.585
O	56.98	38.169	2.911
H	56.325	37.954	2.247
H	56.517	38.07	3.744
O	51.713	38.04	2.675
H	50.85	37.679	2.876
H	52.216	37.294	2.35
O	45.876	21.332	3.712
H	46.421	21.056	4.449
H	45.093	21.703	4.118
O	40.202	34.97	5.788
H	40.012	35.13	6.713
H	40.763	34.194	5.79
O	51.15	44.554	8.469
H	51.641	44.556	7.648
H	51.743	44.954	9.105
O	51.242	48.081	2.758
H	50.867	48.488	1.977

H	50.546	48.131	3.413
O	56.409	23.298	13.502
H	56.136	22.928	14.342
H	55.65	23.178	12.931
O	59.637	34.706	5.224
H	60.112	33.963	4.852
H	59.983	34.792	6.112
O	51.405	49.817	6.013
H	52.163	50.135	5.523
H	51.082	50.587	6.481
O	45.773	46.153	2.732
H	46.404	46.533	3.344
H	46.069	46.446	1.87
O	60.37	47.684	0.026
H	60.85	47.18	0.684
H	60.658	48.587	0.159
O	51.547	56.464	10.769
H	51.2	57.355	10.818
H	52.087	56.46	9.979
O	60.84	28.652	5.824
H	60.363	29.381	6.22
H	61.2	28.169	6.567
O	58.829	56.155	14.976
H	58.275	56.565	15.64
H	58.356	56.287	14.155
O	52.563	38.596	6.56
H	52.125	39.314	7.017
H	53.294	39.013	6.104
O	57.703	28.169	52.347
H	57.837	28.359	51.419
H	56.908	27.636	52.369
O	54.519	20.694	53.828
H	55.306	21.103	54.188
H	54.722	19.759	53.807
O	56.125	28.028	55.903
H	56.79	27.462	55.513
H	55.461	27.424	56.236
O	42.154	16.923	48.884
H	42.358	16.167	48.335
H	42.998	17.189	49.25
O	43.792	25.141	59.792
H	44.327	25.888	59.522
H	43.896	25.104	60.743
O	60.546	28.483	52.18
H	59.685	28.216	52.499
H	60.883	29.067	52.859
O	58.332	24.393	57.415

H	58.848	23.619	57.19
H	58.273	24.372	58.37
O	58.53	24.883	60.442
H	59.146	25.604	60.312
H	57.985	25.162	61.178
O	54.053	16.264	51.466
H	53.114	16.085	51.523
H	54.461	15.565	51.977
O	49.948	14.453	53.518
H	50.569	14.701	54.203
H	49.088	14.555	53.926
O	57.198	18.799	62.071
H	56.534	19.487	62.126
H	57.02	18.233	62.821
O	52.922	18.914	49.938
H	52.292	18.373	49.461
H	52.507	19.075	50.785
O	44.718	22.282	58.736
H	44.1	22.547	59.417
H	45.028	23.106	58.36
O	51.307	16.318	51.487
H	50.637	16.297	50.804
H	50.911	15.855	52.225
O	53.036	15.738	57.92
H	53.233	16.6	57.553
H	53.26	15.816	58.847
O	47.436	12.353	56.787
H	48.141	12.97	56.59
H	47.575	11.628	56.178
O	46.686	23.313	54.032
H	47.239	22.55	53.864
H	47.185	23.838	54.657
O	55.976	31.901	57.162
H	56.046	31.514	58.034
H	56.828	31.734	56.757
O	60.337	17.109	53.296
H	61.266	17.337	53.329
H	60.186	16.605	54.096
O	52.036	18.762	52.41
H	52.404	18.61	53.28
H	52.105	17.916	51.969
O	49.928	15.165	48.32
H	49.111	14.818	48.678
H	50.003	14.76	47.456
O	50.048	32.477	53.757
H	49.254	32.099	54.135
H	50.728	32.303	54.408

O	48.372	32.899	51.399
H	48.757	32.612	50.571
H	48.791	32.35	52.062
O	59.849	16.466	62.299
H	59.942	17.414	62.397
H	59.295	16.359	61.525
O	60.264	9.81	55.406
H	61.062	10.145	54.997
H	60.572	9.337	56.179
O	55.335	10.27	54.416
H	54.567	10.836	54.329
H	55.79	10.353	53.579
O	49.925	26.393	57.974
H	48.982	26.321	57.826
H	50.292	26.563	57.106
O	55.698	18.486	50.491
H	55.276	17.627	50.53
H	55.008	19.103	50.736
O	50.728	13.309	62.466
H	51.61	12.937	62.439
H	50.783	14.094	61.921
O	52.257	23.273	46.814
H	51.574	22.69	46.482
H	53.046	23.011	46.34
O	60.355	16.702	58.195
H	61.247	16.879	58.492
H	59.81	17.304	58.703
O	52.366	13.249	57.283
H	52.569	12.82	58.114
H	52.623	14.161	57.416
O	56.226	26.27	61.874
H	55.953	26.744	62.659
H	55.941	26.824	61.148
O	55.555	24.745	56.234
H	55.289	25.068	57.095
H	56.434	24.393	56.372
O	57.58	16.354	53.23
H	57.008	16.997	52.81
H	58.459	16.723	53.144
O	54.067	7.496	54.835
H	54.65	7.059	54.213
H	54.155	8.427	54.633
O	52.282	25.194	50.944
H	51.782	24.717	50.282
H	52.69	24.51	51.475
O	58.509	13.056	48.395
H	57.65	12.691	48.605

H	59.01	12.969	49.206
O	51.039	27.314	55.332
H	51.339	27.232	54.426
H	50.368	27.995	55.301
O	54.028	24.943	53.982
H	53.691	24.047	53.983
H	54.564	24.998	54.774
O	58.505	26.621	55.443
H	58.71	26.005	56.146
H	58.577	26.103	54.642
O	47.609	18.684	46.86
H	48.177	18.045	46.429
H	47.177	18.188	47.555
O	50.187	21.669	55.975
H	51.038	21.85	55.577
H	50.377	21.038	56.669
O	48.863	6.421	60.326
H	49.251	7.001	60.981
H	49.162	6.774	59.488
O	49.609	29.288	54.133
H	48.961	28.642	53.851
H	49.107	30.093	54.257
O	53.682	26.41	48.366
H	53.221	25.619	48.645
H	53.27	27.116	48.864
O	51.539	19.591	46.195
H	51.942	19.715	45.335
H	52.173	19.956	46.812
O	58.459	24.178	53.822
H	58.785	23.999	52.941
H	58.165	23.327	54.147
O	50.574	22.655	62.825
H	50.59	21.935	62.195
H	50.848	22.258	63.651
O	48.798	25.429	50.281
H	49.261	26.221	50.555
H	49.05	25.31	49.365
O	52.062	13.113	51.557
H	52.757	13.201	52.21
H	51.263	13.357	52.024
O	52.278	22.672	54.611
H	52.961	22.045	54.374
H	51.633	22.6	53.908
O	50.608	25.227	47.752
H	49.696	25.032	47.537
H	51.085	24.431	47.517
O	58.045	29.351	60.335

H	58.447	29.473	61.195
H	57.418	30.07	60.26
O	46.376	26.465	51.626
H	46.734	27.151	51.061
H	46.866	26.549	52.444
O	55.186	26.929	52.606
H	54.779	26.124	52.925
H	54.495	27.366	52.108
O	52.192	30.227	49.456
H	53.057	30.352	49.844
H	52.37	30.006	48.541
O	51.26	17.48	48.032
H	50.832	16.625	47.99
H	51.01	17.913	47.216
O	49.172	20.919	46.778
H	48.348	20.432	46.774
H	49.846	20.251	46.65
O	58.902	23.505	47.11
H	59.552	22.806	47.183
H	59.119	24.11	47.819
O	52.257	20.837	43.665
H	51.481	21.312	43.366
H	52.902	21.521	43.842
O	49.007	14.162	45.585
H	48.783	14.87	44.982
H	49.488	13.533	45.047
O	57.992	10.535	42.719
H	57.953	11.203	42.035
H	57.303	10.783	43.336
O	49.98	30.725	50.774
H	50.767	30.739	50.23
H	50.086	29.952	51.329
O	52.098	27.129	45.94
H	52.928	26.706	46.16
H	51.541	26.416	45.627
O	50.251	35.1	57.686
H	51.109	35.28	57.302
H	49.701	35.827	57.393
O	47.85	27.077	53.831
H	48.438	26.322	53.823
H	47.392	27.016	54.67
O	48.939	15.742	62.005
H	49.212	15.749	62.922
H	48.039	16.065	62.02
O	45.048	8.244	51.875
H	45.92	7.983	52.17
H	45.037	8.03	50.942

O	57.043	22.292	51.269
H	56.688	22.376	50.383
H	57.963	22.542	51.183
O	60.106	14.569	46.401
H	59.401	14.327	45.799
H	59.657	14.957	47.152
O	49.68	14.064	56.745
H	50.612	13.846	56.734
H	49.626	14.861	57.273
O	60.527	32.303	66.241
H	61.066	32.352	65.452
H	60.476	33.206	66.553
O	59.202	20.38	51.998
H	59.801	20.414	51.253
H	58.357	20.142	51.616
O	62.978	19.58	55.965
H	63.487	19.154	56.655
H	62.256	20.004	56.428
O	42.185	24.781	57.665
H	41.959	25.697	57.507
H	42.98	24.818	58.197
O	42.744	20.935	43.643
H	42.968	20.57	44.499
H	42.246	20.242	43.21
O	56.506	10.796	51.88
H	56.597	11.086	50.972
H	57.389	10.533	52.137
O	49.06	35.763	51.366
H	49.057	34.824	51.18
H	48.587	35.844	52.194
O	45.177	11.336	53.43
H	45.206	10.857	52.602
H	45.992	11.099	53.872
O	50.215	5.931	47.83
H	49.471	6.529	47.901
H	50.129	5.351	48.587
O	57.221	32.759	39.313
H	56.342	32.58	38.981
H	57.773	32.095	38.9
O	44.794	21.479	53.199
H	45.118	20.703	53.655
H	45.425	22.165	53.416
O	61.232	28.13	44.339
H	60.987	27.671	45.143
H	60.582	27.849	43.695
O	54.284	25.039	34.319
H	53.973	24.302	34.845

H	53.548	25.651	34.306
O	49.93	28.278	39.983
H	49.713	29.201	39.848
H	50.384	28.26	40.825
O	55.609	25.347	31.195
H	56.146	25.101	31.949
H	56.24	25.643	30.538
O	47.389	22.81	40.715
H	46.727	23.253	41.246
H	47.383	23.28	39.882
O	60.489	28.788	37.961
H	61.356	28.409	38.109
H	60.47	28.981	37.023
O	51.01	23.37	38.705
H	51.558	24.026	38.275
H	50.122	23.721	38.641
O	51.705	13.893	36.92
H	52.044	14.723	36.587
H	52.306	13.233	36.575
O	59.661	14.941	37.698
H	58.955	15.307	37.165
H	59.234	14.275	38.237
O	45.223	18.774	31.665
H	45.925	19.293	31.273
H	44.426	19.09	31.24
O	41.946	17.309	39.637
H	41.48	17.47	38.817
H	42.809	16.998	39.366
O	50.599	19.382	33.029
H	50.331	20.081	33.625
H	50.899	18.679	33.606
O	52.127	6.164	41.543
H	51.869	5.768	40.711
H	53.071	6.013	41.598
O	53.783	20.436	40.176
H	53.599	19.816	40.881
H	54.474	20.018	39.663
O	51.24	20.821	38.93
H	52.187	20.722	39.032
H	51.099	21.767	38.903
O	63.662	9.646	36.904
H	63.004	10.116	36.392
H	63.493	8.722	36.72
O	55.387	24.626	41.138
H	54.86	25.18	41.714
H	54.745	24.145	40.616
O	48.946	26.506	30.696

H	48.771	27.064	31.453
H	49.782	26.085	30.896
O	62.568	16.326	31.468
H	62.987	15.503	31.718
H	61.732	16.063	31.083
O	58.027	16.511	36.175
H	57.903	17.459	36.119
H	58.235	16.243	35.28
O	59.467	14.075	32.27
H	58.921	13.939	33.044
H	59.011	13.61	31.569
O	50.741	16.049	41.45
H	51.044	16.698	40.815
H	49.828	16.282	41.614
O	52.09	27.126	34.913
H	52.018	28.063	34.728
H	51.242	26.765	34.655
O	54.115	22.389	45.17
H	54.715	21.681	45.405
H	54.592	22.9	44.516
O	59.046	25.112	44.835
H	58.778	24.325	45.31
H	59.648	25.558	45.431
O	47.111	20.19	39.394
H	48.025	19.985	39.199
H	47.147	21.023	39.865
O	63.209	21.932	40.856
H	64.121	22.17	40.685
H	62.774	22.027	40.009
O	52.786	25.585	37.569
H	52.401	26.371	37.182
H	53.608	25.887	37.955
O	46.166	18.298	37.708
H	46.315	18.976	38.367
H	45.238	18.082	37.793
O	47.786	25.252	47.344
H	47.766	24.81	46.495
H	46.865	25.404	47.557
O	48.541	24.347	37.818
H	47.767	24.064	37.331
H	48.354	25.254	38.058
O	54.026	30.928	34.544
H	53.115	30.701	34.358
H	54.428	31.03	33.681
O	43.977	23.553	43.789
H	43.174	23.989	43.502
H	43.762	22.62	43.77

O	46.88	20.139	43.501
H	46.743	19.192	43.474
H	46.49	20.413	44.331
O	56.614	17.751	41.532
H	56.959	18.358	42.187
H	55.693	17.996	41.439
O	60.945	8.026	34.185
H	60.67	7.52	34.95
H	61.588	8.647	34.528
O	57.984	19.912	43.097
H	58.487	20.418	42.459
H	58.594	19.241	43.406
O	52.858	22.976	34.885
H	52.483	22.805	34.021
H	52.137	23.356	35.387
O	55.762	16.637	44.348
H	55.151	16.283	43.703
H	56.626	16.511	43.955
O	63.404	13.049	31.725
H	62.643	12.493	31.891
H	63.957	12.531	31.141
O	46.211	24.814	42.763
H	45.467	24.226	42.893
H	46.708	24.755	43.579
O	56.61	18.097	46.855
H	56.612	17.635	46.017
H	56.641	17.402	47.512
O	45.108	12.402	38.771
H	44.272	12.863	38.845
H	45.571	12.855	38.067
O	43.701	10.282	32.815
H	43.454	9.453	33.226
H	43.127	10.931	33.221
O	62.221	23.997	45.894
H	62.997	23.497	46.15
H	61.563	23.332	45.693
O	60.848	14.787	29.846
H	60.847	14.231	30.625
H	60.824	14.173	29.113
O	57.553	12.989	41.759
H	57.113	13.602	41.17
H	57.619	13.459	42.59
O	62.33	10.847	34.708
H	62.306	10.751	33.756
H	61.635	11.476	34.904
O	50.65	19.5	36.737
H	50.144	18.731	36.999

H	51.015	19.837	37.555
O	49.227	23.392	45.238
H	49.121	22.947	44.397
H	48.793	22.819	45.869
O	64.583	26.046	33.543
H	65.266	25.724	32.956
H	63.875	26.319	32.96
O	47.103	12.615	32.225
H	47.026	11.712	31.916
H	47.929	12.926	31.855
O	56.372	22.507	47.278
H	57.286	22.774	47.374
H	56.381	21.872	46.562
O	50.668	18.637	40.403
H	49.926	18.393	39.849
H	50.839	19.553	40.183
O	59.872	15.67	26.575
H	60.23	16.546	26.433
H	60.509	15.082	26.17
O	53.773	26.354	43.391
H	53.092	25.738	43.662
H	54.533	26.121	43.924
O	55.814	15.474	37.593
H	56.317	15.31	38.39
H	56.44	15.885	36.996
O	56.354	23.864	37.641
H	55.514	23.689	38.065
H	56.31	23.381	36.816
O	52.715	28.069	51.337
H	52.396	27.172	51.231
H	52.192	28.583	50.722
O	57.441	19.336	36.28
H	56.905	19.29	37.072
H	58.222	19.82	36.549
O	61.114	21.622	46.981
H	61.901	21.163	46.688
H	60.608	20.957	47.447
O	56.669	29.269	35.33
H	56.972	29.555	36.191
H	56.63	28.314	35.395
O	49.399	16.01	31.351
H	50.157	16.229	31.894
H	48.845	16.79	31.389
O	50.102	23.798	35.197
H	49.922	24.239	36.027
H	49.999	24.482	34.535
O	58.495	30.51	33.331

H	57.991	30.104	34.036
H	58.687	31.392	33.651
O	49.661	13.312	31.211
H	49.328	14.139	31.558
H	49.459	13.345	30.276
O	46.823	21.018	31.795
H	46.878	21.632	32.527
H	46.674	21.572	31.029
O	45.706	10.878	50.608
H	45.474	9.951	50.55
H	45.09	11.316	50.021
O	42.493	25.489	41.791
H	42.518	24.677	41.285
H	43.313	25.933	41.573
O	56.061	25.143	47.636
H	55.135	25.335	47.781
H	56.083	24.208	47.432
O	58.109	19.836	29.187
H	58.34	18.986	29.561
H	57.226	20.01	29.513
O	54.85	28.375	33.286
H	55.485	28.623	33.958
H	54.029	28.776	33.572
O	55.927	19.697	34.077
H	56.585	19.324	33.49
H	56.244	19.488	34.956
O	55.575	22.075	35.797
H	55.532	21.39	35.129
H	54.663	22.33	35.937
O	59.493	18.517	44.719
H	59.586	19.156	45.426
H	60.388	18.23	44.537
O	55.294	35.237	32.921
H	54.567	35.168	32.302
H	55.956	34.634	32.583
O	47.657	11.195	29.476
H	47.023	10.568	29.824
H	47.261	11.511	28.664
O	55.265	21.736	32.121
H	55.979	22.365	32.013
H	55.595	21.107	32.762
O	46.398	17.451	27.403
H	45.886	17.773	28.145
H	46.039	16.582	27.223
O	49.775	33.172	32.872
H	49.017	33.529	32.41
H	50.447	33.082	32.196

O	44.494	33.312	34.108
H	44.366	32.498	34.596
H	44.042	33.976	34.628
O	40.304	36.413	48.514
H	39.956	37.305	48.55
H	39.965	35.993	49.305
O	57.119	23.707	32.74
H	57.874	23.118	32.743
H	56.724	23.594	33.604
O	48.649	18.284	50.636
H	48.157	18.118	51.44
H	49.56	18.351	50.923
O	52.171	22.107	32.318
H	53.054	21.743	32.383
H	52.204	22.681	31.553
O	57.824	28.567	49.34
H	57.896	29.514	49.216
H	57.405	28.252	48.539
O	58.239	17.298	29.772
H	59.059	16.828	29.618
H	57.595	16.84	29.232
O	53.368	18.12	34.595
H	53.829	18.952	34.698
H	53.784	17.708	33.838
O	58.875	27.164	35.362
H	59.38	27	36.159
H	58.056	26.686	35.496
O	45.916	20.588	45.976
H	44.969	20.602	46.118
H	46.227	19.859	46.513
O	55.101	18.96	30.646
H	54.158	19.103	30.731
H	55.494	19.599	31.241
O	52.816	13.827	48.945
H	51.981	14.27	48.796
H	52.758	13.502	49.843
O	53.183	16.114	36.601
H	54.053	15.722	36.672
H	53.21	16.611	35.783
O	57.456	22.632	41.229
H	56.596	23.013	41.406
H	58.059	23.375	41.258
O	57.855	21.065	38.855
H	57.394	21.531	39.552
H	58.307	21.752	38.365
O	55.942	16.918	28.031
H	55.331	16.245	28.333

H	55.604	17.182	27.175
O	52.795	29.815	46.8
H	52.696	28.904	46.523
H	53.087	30.274	46.012
O	53.714	19.886	47.367
H	53.445	19.612	48.243
H	54.595	19.527	47.263
O	56.532	15.018	31.35
H	57.467	14.872	31.21
H	56.131	14.84	30.5
O	51.614	24.729	44.32
H	51.405	24.801	43.388
H	50.877	24.245	44.693
O	58.364	12.663	30.264
H	58.677	11.76	30.215
H	58.248	12.927	29.351
O	58.462	26.456	30.914
H	58.973	26.4	31.722
H	57.813	27.138	31.088
O	46.499	23.239	33.737
H	46.431	24.097	33.318
H	47.431	23.14	33.929
O	48.038	32.928	40.679
H	47.278	33.149	41.218
H	48.208	33.719	40.168
O	49.089	26.474	35.23
H	48.174	26.38	34.963
H	49.043	26.829	36.118
O	51.735	29.694	33.912
H	50.927	30.161	34.128
H	51.615	29.414	33.005
O	45.897	16.567	33.554
H	45.86	17.09	32.752
H	46.363	17.121	34.179
O	44.775	20.88	41.221
H	45.663	21.122	41.484
H	44.524	20.188	41.834
O	48.747	17.487	38.742
H	47.8	17.43	38.614
H	49.064	16.597	38.584
O	54.004	16.901	39.228
H	54.338	16.126	38.776
H	53.261	17.186	38.696
O	45.649	15.213	26.364
H	44.854	14.8	26.703
H	46.237	14.481	26.179
O	53.149	12.222	28.86

H	53.799	11.871	28.252
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O	45.129	14.038	33.52
H	45.921	13.54	33.32
H	45.392	14.954	33.429
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H	55.16	27.775	47.769
H	55.388	29.271	47.785
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H	51.921	18.498	41.602
H	52.584	19.007	42.863
O	60.988	19.712	36.911
H	61.574	19.239	36.32
H	60.764	19.073	37.588
O	45.86	11.629	44.426
H	45.074	11.925	44.884
H	45.995	12.279	43.736
O	46.982	28.632	41.94
H	47.686	29.247	42.147
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O	57.302	26.434	40.13
H	58.097	26.323	40.653
H	56.709	25.754	40.45
O	51.363	32.428	35.001
H	50.556	32.586	34.51
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O	55.05	27.051	38.463
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H	55.93	26.761	38.702
O	51.446	13.383	40.947
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H	45.38	34.519	33.131
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H	54.819	17.371	31.504
O	52.376	19.329	30.995
H	51.845	19.328	31.792
H	51.749	19.178	30.289
O	44.074	22.497	33.448
H	43.574	23.199	33.864
H	44.98	22.657	33.715

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H	59.823	9.354	28.003
H	59.127	8.423	28.972
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H	48.886	15.882	34.561
H	48.722	17.378	34.4
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H	58.791	25.096	42.836
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O	53.929	15.844	42.423
H	53.741	15.17	41.771
H	53.406	16.597	42.148
O	53.291	26.82	31.531
H	53.646	27.255	32.306
H	53.959	26.179	31.288
O	47.976	34.22	31.157
H	48.303	33.843	30.34
H	47.599	35.061	30.899
O	55.574	21.611	20.852
H	55.224	22.167	20.156
H	55.818	22.222	21.547
O	51.296	16.114	23.916
H	50.634	16.749	23.641
H	51.125	15.977	24.848
O	52.807	28.423	21.711
H	53.708	28.201	21.476
H	52.592	29.171	21.155
O	45.753	16.861	20.062
H	46.569	16.499	20.407
H	45.139	16.809	20.794
O	48.303	22.355	22.888
H	48.438	22.816	23.715
H	48.696	22.927	22.228
O	59.161	19.759	5.774
H	58.547	19.03	5.686
H	58.637	20.538	5.588
O	54.655	18.635	20.956
H	55.044	18.352	21.784
H	54.892	19.559	20.883
O	43.205	17.387	15.096
H	43.87	17.256	15.772
H	42.603	18.028	15.473
O	59.495	20.62	12.541
H	59.055	20.912	11.743
H	59.816	21.426	12.946
O	50.22	27.224	21.293
H	50.192	27.963	20.685

H	51.106	27.246	21.655
O	54.052	15.312	23.581
H	54.523	15.786	22.895
H	53.142	15.596	23.486
O	57.056	20.022	26.686
H	57.554	20.113	27.498
H	57.572	19.414	26.156
O	52.239	22.641	22.728
H	52.225	21.723	22.996
H	53.121	22.942	22.948
O	58.056	23.038	22.362
H	57.963	23.732	23.014
H	57.821	22.237	22.83
O	55.38	15.389	20.935
H	55.914	16.175	20.816
H	56.014	14.674	20.985
O	48.47	12.657	21.981
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O	45.462	12.277	19.338
H	46.231	12.309	18.769
H	44.744	12.589	18.787
O	46.866	20.028	9.932
H	45.967	20.083	9.606
H	47.028	20.883	10.331
O	53.882	12.823	18.221
H	53.139	13.07	17.669
H	53.946	13.528	18.865
O	60.393	21.177	19.917
H	60.532	22.123	19.939
H	61.256	20.804	20.101
O	55.416	17.069	8.29
H	55.1	16.971	7.392
H	56.369	17.027	8.215
O	50.017	23.682	21.09
H	50.307	24.503	20.692
H	50.783	23.364	21.567
O	61.706	23.923	19.354
H	62.33	23.607	18.7
H	61.609	24.856	19.162
O	51.22	21.083	26.958
H	50.682	20.72	26.254
H	50.629	21.666	27.434
O	49.453	22.266	32.107
H	50.409	22.223	32.091
H	49.194	21.592	32.735
O	48.664	16.435	26.064

H	49.243	16.522	26.822
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O	58.968	27.814	21.409
H	58.948	28.096	22.323
H	59.007	26.858	21.455
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H	53.575	21.038	24.999
O	45.686	17.096	16.623
H	46.079	17.94	16.845
H	46.39	16.461	16.76
O	49.468	26.316	24.283
H	49.878	25.485	24.524
H	49.649	26.41	23.348
O	51.061	25.505	17.988
H	51.936	25.588	17.608
H	50.724	26.4	18.013
O	57.071	29.682	20.588
H	57.675	28.985	20.846
H	57.368	29.946	19.717
O	46.103	19.592	25.958
H	45.673	20.241	26.515
H	46.104	18.791	26.482
O	54.601	14.845	29.214
H	54.541	13.95	28.882
H	53.828	14.947	29.77
O	54.231	19.558	28.02
H	54.648	18.989	28.667
H	54.847	19.58	27.288
O	55.282	15.779	14.367
H	55.133	16.541	14.926
H	54.7	15.912	13.619
O	59.821	18.315	18.247
H	59.32	18.929	17.71
H	60.733	18.581	18.126
O	49.184	17.953	23.046
H	48.478	18.285	23.6
H	48.772	17.271	22.515
O	64.239	19.305	26.239
H	63.514	19.812	26.605
H	64.942	19.943	26.121
O	50.274	15.808	18.847
H	50.741	16.594	18.563
H	50.5	15.716	19.773
O	48.062	14.016	24.985
H	47.847	14.69	24.339
H	48.607	14.468	25.629

O	67.1	15.668	27.603
H	67.392	16.043	28.434
H	66.591	14.897	27.854
O	45.684	13.764	22.299
H	45.902	13.176	21.576
H	45.539	13.183	23.046
O	46.473	16.872	7.291
H	45.877	16.575	6.603
H	46.328	16.261	8.013
O	60.805	23.257	12.619
H	60.463	23.757	13.361
H	60.302	23.571	11.867
O	55.518	18.887	18.211
H	56.196	19.362	18.692
H	55.051	18.39	18.882
O	53.286	11.471	22.904
H	53.427	10.655	22.425
H	53.138	12.127	22.223
O	55.767	20.142	14.309
H	55.399	20.686	13.612
H	56.41	19.589	13.866
O	57.63	22.187	11.025
H	57.68	22.974	11.567
H	58.235	22.355	10.302
O	47.909	27.322	26.523
H	47.6	26.504	26.913
H	48.717	27.081	26.07
O	52.198	19.413	21.956
H	51.585	18.802	22.364
H	52.723	18.87	21.369
O	41.235	11.976	12.248
H	40.495	11.504	12.629
H	41.87	11.292	12.033
O	58.715	18.565	25.044
H	59.567	18.197	25.279
H	58.904	19.473	24.806
O	58.349	23.23	16.693
H	57.449	23.04	16.428
H	58.738	22.37	16.851
O	53.067	13.78	20.633
H	52.207	14.09	20.917
H	53.656	14.515	20.807
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H	49.318	19.087	31.984
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H	52.246	21.488	18.284

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H	62.914	23.908	14.425
H	63.732	24.605	13.359
O	54.095	19.652	23.953
H	53.679	19.523	23.101
H	54.254	18.766	24.279
O	51.667	23.208	29.808
H	52.411	22.724	29.45
H	50.912	22.886	29.315
O	53.71	27.618	27.542
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O	54.103	23.453	19.152
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H	53.714	23.388	18.28
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H	49.252	16.197	17.307
H	49.39	16.828	15.938
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H	61.623	25.054	15.913
H	60.578	25.03	14.819
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H	56.044	26.386	26.07
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H	44.083	7.588	18.4
H	43.576	8.932	17.921
O	43.606	24.41	17.88
H	43.371	25.337	17.837
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O	55.748	13.893	25.922
H	55.535	12.995	26.173
H	54.898	14.315	25.797
O	47.267	24.843	27.707
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H	46.55	24.297	27.384
O	59.765	20.993	25.17
H	60.527	20.95	24.592
H	60.117	21.292	26.008
O	57.083	28.512	11.506
H	57.791	28.999	11.085
H	57.491	28.11	12.272
O	49.733	19.124	15.656
H	50.146	19.986	15.604
H	50.155	18.614	14.965
O	47.855	31.206	10.618

H	48.501	30.54	10.855
H	48.254	32.033	10.89
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H	53.748	17.081	25.988
H	54.47	16.428	24.828
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H	56.858	21.006	24.88
H	55.911	20.604	23.77
O	53.204	31.074	17.08
H	53.496	31.985	17.091
H	53.047	30.884	16.155
O	53.157	11.504	14.669
H	53.892	11.414	15.275
H	52.66	12.25	15.005
O	49.098	23.864	18.152
H	49.132	23.476	19.026
H	49.91	24.366	18.081
O	47.214	19.972	16.437
H	48.025	19.596	16.096
H	47.193	19.705	17.356
O	55.796	22.276	16.074
H	55.117	22.309	16.748
H	55.622	21.465	15.597
O	41.695	22.573	12.243
H	41.773	22.577	13.197
H	42.018	21.711	11.98
O	50.74	29.132	31.48
H	49.971	29.595	31.148
H	51.2	28.836	30.694
O	50.648	30.484	10.801
H	51.246	31.024	10.285
H	50.733	29.607	10.426
O	51.703	18.854	28.33
H	51.301	19.596	27.878
H	52.63	19.086	28.394
O	52.356	17.79	18.057
H	53.018	17.789	17.366
H	52.139	18.714	18.179
O	57.914	18.335	32.753
H	58.716	17.884	33.015
H	57.738	18.018	31.868
O	58.705	24.492	14.274
H	58.716	24.246	15.198
H	57.887	24.125	13.938
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H	50.835	17.202	28.778
H	49.845	16.21	29.35
O	55.016	21.12	11.675
H	54.77	20.332	11.19
H	55.941	21.25	11.467
O	61.475	18.096	25.712
H	62.432	18.109	25.718
H	61.222	18.967	26.018
O	61.009	14.86	16.347
H	61.762	15.314	16.724
H	60.642	14.359	17.075
O	49.253	20.505	25.166
H	48.953	21.035	24.428
H	48.523	19.914	25.35
O	62.478	11.133	25.811
H	61.587	10.916	25.536
H	62.513	12.089	25.777
O	44.867	16.441	9.325
H	44.847	16.191	10.249
H	44.268	15.828	8.899
O	50.049	23.245	24.691
H	49.834	22.79	25.505
H	50.981	23.45	24.77
O	55.421	12.145	30.796
H	55.689	11.522	31.471
H	56.217	12.635	30.593
O	45.212	13.093	11.688
H	44.715	13.845	12.01
H	46.119	13.286	11.926
O	56.375	34.105	25.478
H	55.864	33.298	25.537
H	56.347	34.339	24.55
O	57.815	18.993	10.258
H	58.344	19.488	9.632
H	57.771	18.111	9.89
O	52.086	30.385	19.446
H	51.975	31.305	19.683
H	52.678	30.4	18.694
O	53.338	22.861	12.659
H	53.996	22.333	12.206
H	52.584	22.86	12.07
O	52.422	24.553	25.553
H	53.071	25.161	25.91

H	52.898	23.729	25.451
O	53.577	25.334	14.033
H	53.366	24.546	13.532
H	54.533	25.378	14.018
O	47.893	33.754	18.053
H	47.933	34.03	18.969
H	48.751	33.984	17.696
O	46.839	19.083	18.959
H	47.576	19.212	19.556
H	46.323	18.385	19.362
O	46.23	18.726	23.324
H	45.641	18.074	22.943
H	45.851	18.918	24.182
O	52.726	14.788	31.159
H	52.273	14.042	31.552
H	52.237	15.552	31.463
O	48.668	20.119	21.067
H	48.797	19.264	21.477
H	48.627	20.733	21.8
O	49.076	15.718	12.42
H	49.099	16.263	13.206
H	48.61	16.249	11.774
O	49.522	11.153	12.717
H	50.465	11.147	12.551
H	49.234	10.269	12.491
O	57.669	11.292	22.961
H	57.769	12.129	23.415
H	56.861	10.922	23.317
O	47.886	15.47	22.732
H	46.935	15.572	22.691
H	48.036	14.544	22.541
O	51.14	25.231	31.47
H	51.265	24.493	30.874
H	51.968	25.711	31.434
O	53.571	30.125	26.773
H	53.549	29.218	27.079
H	53.615	30.647	27.574
O	55.554	5.221	23.278
H	54.754	5.649	22.976
H	55.252	4.558	23.899
O	49.3	7.344	30.602
H	48.367	7.131	30.586
H	49.42	7.832	31.416
O	57.355	25.158	23.936
H	57.866	25.053	24.739
H	57.477	26.076	23.693
O	51.905	28.541	24.254

H	52.417	27.86	24.689
H	52.248	28.565	23.36
O	57.662	24.103	26.55
H	57.748	23.306	26.026
H	58.123	23.905	27.365
O	54.043	21.974	29.384
H	54.676	22.168	30.075
H	54.291	21.105	29.068
O	59.387	12.86	14.05
H	58.457	12.976	13.855
H	59.591	13.563	14.667
O	54.517	27.638	11.915
H	55.376	28.056	11.859
H	54.281	27.699	12.84
O	51.695	14.496	11.672
H	50.867	14.703	12.107
H	51.475	13.793	11.061
O	49.845	12.47	15.327
H	49.854	11.786	14.657
H	49.102	13.026	15.091
O	45.734	27.037	21.982
H	46.478	26.836	21.414
H	44.993	27.129	21.383
O	52.673	13.504	6.046
H	52.154	13.142	5.328
H	52.08	13.496	6.797
O	57.209	13.734	8.356
H	56.3	13.851	8.631
H	57.707	14.327	8.919
O	54.089	31.065	31.721
H	53.65	30.36	31.245
H	54.463	31.62	31.037
O	60.024	10.536	24.235
H	60.448	10.279	23.416
H	59.134	10.777	23.978
O	58.789	27.257	16.74
H	58.417	26.528	17.237
H	58.473	28.04	17.19
O	54.898	33.037	13.151
H	55.508	33.069	12.415
H	55.45	32.856	13.912
O	52.185	21.453	5.73
H	52.535	22.221	6.18
H	51.756	20.946	6.419
O	47.434	23.995	3.146
H	47.806	24.249	3.991
H	47.482	23.039	3.141

O	52.008	26.576	6.051
H	52.254	26.283	5.174
H	52.322	27.479	6.098
O	44.549	23.215	5.493
H	45.194	23.225	6.201
H	43.761	22.848	5.893
O	56.924	34.658	5.756
H	57.801	34.989	5.565
H	56.551	35.301	6.359
O	59.525	24.86	10.814
H	59.57	24.358	10
H	58.84	25.51	10.656
O	48.931	24.125	5.719
H	49.61	24.512	5.166
H	48.925	24.669	6.506
O	62.703	21.751	1.006
H	61.963	21.426	0.493
H	62.431	22.622	1.294
O	54.965	20.214	6.584
H	54.052	20.498	6.552
H	55.336	20.683	7.332
O	56.74	22.33	0.094
H	57.269	22.43	0.886
H	57.371	22.093	-0.587
O	56.943	21.629	-5.418
H	57.827	21.265	-5.467
H	56.815	22.06	-6.263
O	55.193	27.68	4.55
H	55.087	28.358	5.217
H	54.366	27.688	4.068
O	56.764	13.522	3.225
H	56.451	14.17	2.594
H	57.356	12.963	2.722
O	52.133	29.444	6.128
H	53.024	29.761	5.981
H	51.764	30.052	6.768
O	56.763	16.506	-0.716
H	56.665	16.469	-1.668
H	56.265	15.755	-0.395
O	55.416	20.633	3.622
H	54.912	21.375	3.288
H	54.994	20.41	4.452
O	60.372	20.669	0.134
H	59.788	21.129	0.737
H	59.97	19.807	0.023
O	48.306	7.039	5.639
H	47.481	7.101	5.158

H	48.954	6.805	4.974
O	43.169	29.416	8.968
H	43.245	29.688	8.053
H	42.256	29.588	9.194
O	54.289	15.789	6.153
H	55.063	15.379	5.766
H	53.635	15.091	6.177
O	51.061	25.891	15.236
H	50.881	26.779	15.544
H	51.984	25.908	14.983
O	53.746	31.716	3.278
H	53.555	30.893	3.728
H	54.053	32.302	3.97
O	46.3	27.476	-3.112
H	45.468	27.337	-2.659
H	46.715	28.195	-2.635
O	53.066	15.972	1.274
H	53.124	16.801	1.748
H	52.145	15.903	1.024
O	52.797	23.758	6.675
H	52.594	24.687	6.571
H	52.895	23.638	7.619
O	57.258	11.123	1.414
H	57.637	11.929	1.064
H	58.011	10.551	1.566
O	57.324	26.325	9.912
H	57.191	27.138	10.4
H	57.094	26.547	9.01
O	58.108	17.283	5.127
H	58.405	16.905	4.299
H	57.627	16.574	5.555
O	61.387	18.172	5.516
H	60.606	18.702	5.356
H	61.048	17.299	5.714
O	48.159	18.944	1.053
H	47.374	19.416	1.332
H	48.047	18.061	1.406
O	54.979	25.005	-0.409
H	55.711	24.39	-0.362
H	54.253	24.545	0.013
O	48.763	15.732	5.566
H	48.746	16.644	5.276
H	48.024	15.659	6.17
O	50.676	19.31	2.47
H	50.3	19.01	3.298
H	49.973	19.191	1.831
O	42.805	26.692	5.681

H	42.975	25.79	5.408
H	43.622	26.977	6.09
O	54.683	14.155	9.268
H	54.625	15.081	9.031
H	54.201	14.088	10.091
O	49.713	27.789	4.865
H	49.998	28.611	4.464
H	50.524	27.365	5.144
O	60.095	22.663	9.245
H	61.051	22.621	9.235
H	59.815	21.84	8.844
O	60.777	22.716	4.082
H	61.076	23.105	3.26
H	61.169	21.843	4.091
O	49.364	30.028	14.663
H	48.809	29.346	14.285
H	48.976	30.848	14.36
O	58.883	24.071	5.898
H	58.163	23.462	6.064
H	59.613	23.511	5.634
O	49.634	25.994	7.495
H	50.548	25.924	7.216
H	49.463	26.936	7.52
O	59.337	27.911	-1.008
H	58.97	28.607	-0.464
H	58.573	27.448	-1.353
O	48.173	13.752	8.568
H	47.417	13.378	8.116
H	47.911	13.785	9.487
O	49.59	29.144	8.221
H	48.995	29.751	7.783
H	50.329	29.688	8.495
O	61.064	29.954	9.658
H	61.652	29.289	10.015
H	61.471	30.215	8.832
O	57.992	16.222	9.48
H	58.937	16.075	9.534
H	57.667	16.015	10.356
O	52.479	23.549	0.452
H	52.564	23.776	-0.473
H	51.54	23.617	0.63
O	43.62	39.345	13.098
H	44.155	39.89	12.521
H	43.08	39.968	13.584
O	53.744	18.969	9.864
H	54.262	18.379	9.316
H	52.835	18.778	9.629

O	57.197	21.502	5.501
H	56.566	21.449	4.784
H	56.684	21.311	6.287
O	49.744	18.664	5.48
H	49.777	19.464	6.006
H	50.379	18.08	5.894
O	48.874	17.893	8.688
H	48.165	17.607	8.113
H	48.456	18.497	9.302
O	51.585	9.933	4.794
H	51.802	9.486	5.612
H	51.159	10.745	5.07
O	58.487	18.477	0.391
H	58.078	19.054	1.035
H	57.78	17.897	0.106
O	50.01	20.876	9.519
H	49.12	20.543	9.401
H	50.568	20.22	9.101
O	65.189	18.281	11.713
H	64.414	17.784	11.451
H	64.971	19.19	11.509
O	54.974	29.764	6.078
H	55.207	29.691	7.004
H	55.547	30.452	5.74
O	56.208	22.447	8.127
H	55.439	22.51	8.693
H	56.397	23.352	7.879
O	66.441	30.879	4.949
H	66.047	30.873	5.821
H	66.127	31.691	4.55
O	53.459	22.564	2.7
H	53.069	22.792	1.856
H	52.936	23.043	3.343
O	49.24	31.621	3.879
H	49.196	32.415	4.412
H	48.393	31.583	3.435
O	45.883	20.443	1.274
H	45.974	20.809	2.154
H	45.619	21.186	0.732
O	46.819	20.114	5.892
H	47.359	20.286	6.663
H	47.015	19.206	5.66
O	52.425	18.049	6.086
H	52.963	17.262	5.998
H	52.827	18.681	5.49
O	50.519	15.241	0.763
H	49.898	15.425	1.469

H	50.205	15.765	0.026
O	48.292	9.642	6.579
H	48.775	10.379	6.205
H	48.565	8.887	6.058
O	47.207	24.58	13.266
H	46.586	25.202	12.888
H	46.786	24.281	14.072
O	61.826	24.267	1.899
H	62.316	24.815	2.512
H	61.319	24.887	1.375
O	47.955	13.219	11.836
H	48.497	12.517	12.197
H	48.317	14.02	12.215
O	47.965	12.739	2.921
H	48.113	11.801	2.797
H	48.8	13.071	3.251
O	48.022	24.115	8.696
H	47.944	24.32	9.628
H	48.504	24.856	8.328
O	54.097	27.596	0.301
H	54.63	26.805	0.225
H	53.864	27.641	1.228
O	53.165	30.417	0.207
H	52.562	30.325	-0.53
H	53.395	29.517	0.442
O	58.173	27.731	7.419
H	57.775	27.683	6.549
H	58.429	28.648	7.515
O	58.119	10.65	-1.769
H	58.418	9.802	-2.097
H	58.517	11.289	-2.36
O	55.199	24.928	11.387
H	54.967	25.85	11.498
H	56.086	24.946	11.027
O	56.619	13.509	13.713
H	56.211	12.764	14.155
H	56.129	14.27	14.025
O	52.56	0.543	62.05
H	52.169	1.409	62.169
H	53.253	0.501	62.708
O	53.315	5.774	58.856
H	53.08	6.431	59.511
H	52.814	6.021	58.078
O	42.321	5.294	49.354
H	41.924	4.493	49.013
H	43.057	5.465	48.766
O	46.998	-0.93	51.826

H	47.169	-1.355	52.666
H	46.165	-0.476	51.952
O	55.634	20.165	57.901
H	55.855	20.81	58.573
H	56.469	19.756	57.677
O	52.145	10.622	50.638
H	52.026	11.567	50.731
H	51.703	10.403	49.818
O	54.323	5.249	48.851
H	54.742	4.411	49.049
H	53.801	5.077	48.068
O	48.866	-0.477	49.422
H	48.294	-0.764	50.134
H	49.74	-0.453	49.81
O	59.201	-4.609	49.351
H	59.581	-4.429	48.491
H	59.435	-3.847	49.881
O	55.933	4.806	60.411
H	55.457	4.038	60.096
H	55.999	5.377	59.645
O	47.829	7.983	48.019
H	47.693	7.442	47.241
H	47.353	8.793	47.833
O	51.902	3.024	52.496
H	52.177	3.91	52.263
H	51.702	2.607	51.659
O	37.483	5.182	46.395
H	37.593	4.575	45.663
H	36.953	4.699	47.029
O	46.707	4.558	60.073
H	46.712	3.603	60.006
H	47.629	4.807	60.012
O	42.839	7.86	53.462
H	42.5	7.237	52.82
H	43.756	7.982	53.217
O	50.421	8.021	50.37
H	50.991	7.927	51.134
H	50.479	7.177	49.922
O	57.659	6.92	46.802
H	57.151	7.155	47.578
H	57.672	5.963	46.805
O	61.113	7.101	46.922
H	60.173	7.143	47.1
H	61.355	6.198	47.13
O	55.654	7.833	48.722
H	55.276	6.973	48.904
H	55.627	8.289	49.563

O	49.895	10.7	52.817
H	50.621	10.304	52.335
H	50.318	11.227	53.495
O	57.376	8.478	55.079
H	56.718	9.174	55.058
H	58.161	8.902	55.425
O	54.643	9.399	41.013
H	54.119	9.043	41.731
H	54.776	10.318	41.247
O	50.886	9.834	43.258
H	51.798	9.67	43.5
H	50.777	9.385	42.42
O	57.005	0.198	52.644
H	57.237	-0.578	53.155
H	56.057	0.279	52.747
O	44.332	8.17	46.073
H	44.553	8.482	45.195
H	44.638	8.862	46.658
O	49.965	9.923	48.607
H	49.267	10.5	48.919
H	49.917	9.157	49.18
O	54.084	-0.108	52.312
H	53.896	-0.081	51.374
H	54.482	-0.967	52.452
O	61.343	11.625	47.983
H	62.07	11.098	47.653
H	60.736	11.684	47.245
O	54.458	13.92	52.959
H	55.29	13.449	53.003
H	54.277	14.171	53.865
O	53.251	-0.294	43.184
H	53.341	-1.247	43.175
H	52.337	-0.138	42.948
O	46.262	-2.607	44.86
H	46.743	-2.586	44.033
H	46.856	-2.204	45.494
O	55.203	11.517	57.687
H	55.188	11.262	56.765
H	56.025	11.16	58.022
O	40.124	8.54	52.33
H	40.55	8.759	53.159
H	40.506	7.699	52.08
O	51.871	16.082	44.556
H	52.435	15.9	43.804
H	52.438	15.951	45.317
O	56.457	11.555	45.693
H	56.025	12.074	46.371

H	56.031	10.699	45.739
O	62.944	1.419	48.254
H	63.457	0.619	48.375
H	62.438	1.503	49.062
O	50.624	-0.466	41.225
H	49.758	-0.678	40.875
H	51.204	-1.123	40.842
O	58.424	-1.9	46.733
H	57.853	-1.77	45.976
H	59.31	-1.821	46.38
O	58.758	9.614	48.324
H	58.795	9.76	47.379
H	59.672	9.631	48.605
O	44.924	-0.459	39.839
H	44.761	0.087	40.608
H	45.106	-1.328	40.195
O	46.282	7.058	58.332
H	45.722	7.608	58.88
H	46.74	6.49	58.952
O	61.317	13.784	54.297
H	61.57	14.172	53.459
H	60.833	14.478	54.745
O	53.42	0.937	46.293
H	54.166	0.337	46.319
H	52.766	0.482	45.762
O	48.918	16.934	55.218
H	48.445	16.178	55.566
H	48.307	17.337	54.601
O	52.788	11.569	54.894
H	52.514	12.145	55.608
H	52.567	10.688	55.199
O	52.212	9.325	56.587
H	52.248	8.38	56.732
H	51.919	9.685	57.424
O	51.257	1.246	50.433
H	51.085	1.62	49.569
H	51.779	0.463	50.256
O	49.686	4.374	50.136
H	49.276	3.524	50.292
H	49.039	5.011	50.441
O	54.06	13.161	44.742
H	54.086	12.596	45.515
H	54.206	14.042	45.085
O	56.62	-1.03	41.124
H	57.574	-1.07	41.052
H	56.303	-1.547	40.383
O	50.499	4.28	45.448

H	50.149	5.016	44.945
H	50.649	4.638	46.323
O	57.71	12.383	36.535
H	57.2	11.574	36.528
H	58.089	12.421	37.413
O	51.69	1.724	32.687
H	51.325	0.969	32.226
H	51.41	2.479	32.168
O	61.467	0.643	33.485
H	61.147	-0.259	33.47
H	61.487	0.875	34.413
O	66.943	1.516	37.116
H	66.047	1.602	37.441
H	67.37	2.334	37.369
O	57.506	6.943	35.76
H	58.086	6.445	36.336
H	56.633	6.596	35.94
O	52.826	8.584	39.219
H	53.546	8.682	39.842
H	52.978	7.732	38.81
O	58.466	12.578	39.062
H	58.775	11.69	38.879
H	58.141	12.538	39.961
O	60.386	1.419	36.108
H	59.461	1.256	35.923
H	60.595	2.207	35.607
O	59.767	1.752	31.414
H	60.121	1.416	32.238
H	58.858	1.454	31.405
O	54.62	11.94	38.524
H	55.119	11.167	38.26
H	54.469	12.417	37.708
O	56.583	9.72	36.806
H	56.851	9.095	37.479
H	56.076	9.199	36.184
O	50.769	12.383	44.167
H	50.717	11.543	43.71
H	51.526	12.294	44.746
O	60.534	4.45	40.735
H	60.444	3.497	40.748
H	60.067	4.746	41.516
O	60.428	7.084	39.471
H	60.537	6.237	39.905
H	61.215	7.576	39.706
O	58.273	13.412	44.515
H	57.604	12.87	44.933
H	58.88	12.785	44.123

O	58.134	0.629	34.596
H	57.655	1.147	35.243
H	57.953	-0.28	34.835
O	50.076	5.585	35.273
H	50.011	5.793	36.205
H	50.47	4.713	35.25
O	52.885	5.878	33.781
H	51.934	5.788	33.848
H	53.019	6.449	33.025
O	51.57	16.249	33.024
H	52.222	16.598	33.632
H	50.766	16.192	33.541
O	47.891	11.783	38.351
H	47.869	11.824	37.395
H	47.02	12.071	38.624
O	59.019	0.749	51.073
H	58.276	0.815	51.673
H	58.709	1.151	50.262
O	63.374	4.646	40.698
H	63.445	4.35	41.605
H	62.455	4.504	40.47
O	56.203	-2.902	24.289
H	55.792	-3.121	25.125
H	56.26	-1.946	24.294
O	55.294	-2.733	45.728
H	55.873	-3.495	45.722
H	55.791	-2.051	45.276
O	49.961	0.428	43.552
H	50.233	0.087	42.7
H	50.5	-0.047	44.184
O	52.508	1.703	40.761
H	52.066	2.111	41.505
H	51.995	0.915	40.58
O	54.408	0.201	34.319
H	54.745	-0.556	33.839
H	53.48	0.008	34.45
O	57.375	3.716	40.91
H	58.216	3.292	40.745
H	56.993	3.217	41.632
O	59.935	16.135	40.538
H	59.833	15.7	39.692
H	59.054	16.436	40.761
O	54.917	5.779	36.068
H	54.218	5.878	36.715
H	54.474	5.859	35.223
O	42.178	8.077	42.966
H	42.99	8.576	43.063

H	41.682	8.554	42.301
O	54.323	4.822	42.576
H	53.923	4.568	43.408
H	55.166	5.203	42.821
O	53.6	6.014	45.442
H	53.505	5.083	45.24
H	54.488	6.232	45.158
O	51.738	9.623	32.637
H	51.005	10.01	32.158
H	51.372	8.835	33.039
O	53.094	3.614	27.176
H	52.184	3.328	27.254
H	53.5	3.35	28.001
O	64.164	-0.137	34.91
H	64.674	0.493	34.401
H	63.906	0.343	35.696
O	57.222	7.851	42.147
H	57.412	8.76	42.381
H	56.851	7.903	41.266
O	47.209	9.181	33.386
H	46.65	8.621	33.924
H	46.662	9.415	32.636
O	52.191	7.135	52.679
H	52.567	6.29	52.433
H	52.629	7.362	53.5
O	54.309	15.257	46.11
H	54.699	15.9	45.519
H	54.699	15.449	46.963
O	56.846	5.644	33.154
H	57.602	5.091	32.963
H	57.151	6.238	33.84
O	51.498	-3.662	31.383
H	51.126	-4.544	31.407
H	51.407	-3.389	30.47
O	54.083	9.568	34.016
H	53.324	9.839	33.5
H	53.718	9.316	34.864
O	60.486	12.688	35.403
H	59.657	12.259	35.613
H	60.274	13.277	34.678
O	54.716	4.106	33.087
H	53.951	4.673	33.181
H	55.464	4.699	33.153
O	48.906	-4.12	29.281
H	48.276	-3.958	28.579
H	49.236	-5.001	29.108
O	53.884	12.341	36.033

H	53.88	11.499	35.578
H	54.205	12.964	35.381
O	49.71	5.175	28.854
H	49.484	5.909	29.425
H	50.132	4.541	29.434
O	49.818	17.836	44.938
H	50.242	18.658	45.184
H	50.5	17.173	45.048
O	56.358	11.19	33.513
H	55.519	10.744	33.636
H	57.013	10.502	33.628
O	52.916	3.327	44.359
H	52.139	3.549	44.873
H	52.714	2.474	43.976
O	53.309	-3.015	37.67
H	53.479	-3.821	37.183
H	52.698	-2.526	37.119
O	56.339	5.625	39.297
H	56.991	5.034	39.675
H	55.519	5.131	39.334
O	55.049	3.203	29.299
H	55.76	3.763	29.611
H	54.999	2.498	29.944
O	50.113	2.337	48.086
H	49.648	3.159	47.93
H	49.81	1.755	47.389
O	56.222	-1.56	27.86
H	56.829	-2.195	28.24
H	55.413	-2.054	27.724
O	53.925	-0.571	30.535
H	53.883	-0.662	31.487
H	53.787	0.363	30.378
O	54.028	3.993	40.049
H	53.689	3.1	39.995
H	54.053	4.184	40.987
O	55.28	9.185	45.884
H	55.254	9.228	46.84
H	55.695	8.344	45.694
O	49.476	9.424	45.608
H	49.977	9.526	44.799
H	50.139	9.396	46.298
O	59.298	4.404	45.949
H	59.509	4.967	45.205
H	59.45	3.515	45.627
O	52.98	9.086	36.541
H	52.038	9.133	36.378
H	53.063	9.178	37.49

O	54.445	1.7	31.805
H	53.732	1.433	32.385
H	54.71	2.56	32.132
O	57.744	14.129	34.503
H	57.667	13.571	35.277
H	56.875	14.103	34.102
O	62.164	6.741	32.194
H	61.493	6.916	32.854
H	62.812	7.434	32.321
O	50.463	9.803	36.923
H	49.62	10.21	36.722
H	50.861	10.384	37.571
O	50.466	3.477	30.833
H	49.725	3.704	31.395
H	50.142	2.762	30.285
O	52.375	3.145	35.113
H	52.95	2.685	35.723
H	52.534	2.722	34.269
O	42.862	14.085	39.626
H	42.784	14.369	40.537
H	41.996	14.243	39.251
O	52.827	6.033	38.425
H	52.009	5.563	38.264
H	53.343	5.437	38.968
O	49.535	7.754	33.593
H	49.59	7.125	34.312
H	48.865	8.378	33.871
O	50.678	6.647	43.625
H	50.685	7.569	43.879
H	51.422	6.556	43.029
O	64.769	18.065	36.645
H	65.663	18.114	36.307
H	64.731	17.225	37.101
O	60.489	6.451	36.746
H	60.473	5.506	36.594
H	60.292	6.547	37.678
O	48.01	11.064	35.658
H	47.072	10.997	35.481
H	48.428	10.726	34.866
O	48.177	4.542	32.377
H	47.27	4.45	32.669
H	48.611	5.01	33.091
O	58.776	20.246	47.085
H	58.444	19.434	47.469
H	58.048	20.576	46.558
O	55.056	13.617	33.791
H	55.56	12.807	33.721

H	54.802	13.82	32.891
O	51.084	10.583	28.111
H	50.673	10.795	28.95
H	51.932	11.027	28.142
O	56.615	9.153	21.001
H	56.588	8.534	20.271
H	56.526	10.012	20.589
O	51.134	-8.637	24.645
H	50.933	-9.562	24.787
H	51.836	-8.643	23.993
O	52.151	9.344	25.09
H	53.026	9.05	24.839
H	52.24	9.605	26.007
O	57.706	-0.8	19.493
H	58.167	-0.225	20.104
H	56.792	-0.523	19.546
O	62.592	14.327	25.996
H	63.311	14.405	25.37
H	62.984	14.549	26.841
O	59.77	13.002	18.046
H	58.892	13.234	17.745
H	59.675	12.878	18.991
O	53.347	1.587	20.803
H	54.016	2.172	21.159
H	52.629	1.632	21.434
O	59.627	9.045	18.095
H	59.037	8.908	17.354
H	59.725	9.995	18.151
O	56.409	7.534	18.896
H	55.488	7.275	18.873
H	56.558	7.966	18.054
O	49.734	4.804	23.213
H	49.8	5.322	24.015
H	48.803	4.598	23.136
O	63.007	-1.266	27.565
H	63.705	-1.093	28.198
H	62.198	-1.15	28.064
O	60.116	-2.127	19.425
H	60.378	-2.102	20.345
H	59.477	-1.42	19.338
O	54.54	3.275	24.846
H	54.166	3.803	25.551
H	54.879	2.495	25.286
O	57.726	4.749	29.752
H	57.049	5.425	29.8
H	57.892	4.642	28.816
O	45.919	-0.676	34.653

H	45.027	-1.022	34.689
H	46.224	-0.707	35.559
O	58.337	5.529	19.81
H	57.766	6.24	19.52
H	58.314	4.895	19.093
O	53.974	6.771	27.79
H	53.436	7.139	28.491
H	54.164	5.878	28.078
O	55.438	4.511	9.868
H	55.332	5.462	9.824
H	54.611	4.195	10.232
O	52.794	6.633	22.87
H	52.441	5.848	22.451
H	52.023	7.104	23.186
O	46.892	8.131	14.177
H	47.076	8.712	13.439
H	45.937	8.112	14.234
O	54.173	7.479	9.845
H	54.906	8.094	9.884
H	53.694	7.728	9.055
O	51.504	-4.165	26.506
H	51.001	-4.935	26.24
H	51.789	-3.769	25.683
O	54.125	8.953	22.403
H	55.047	8.845	22.169
H	53.782	8.06	22.444
O	48.614	4.17	26.412
H	49.191	3.423	26.252
H	48.976	4.589	27.193
O	59.733	5.424	6.534
H	60.524	5.789	6.931
H	60.057	4.797	5.888
O	58.572	6.414	22.409
H	58.344	6.086	21.539
H	59.389	5.966	22.628
O	57.355	0.481	12.905
H	57.252	1.348	13.297
H	58.3	0.329	12.907
O	46.875	7.575	28.631
H	46.562	7.632	27.729
H	47.776	7.896	28.593
O	43.847	3.806	12.398
H	43.569	2.903	12.552
H	43.03	4.292	12.283
O	63.848	0.588	32.085
H	63.457	1.215	31.475
H	63.167	0.435	32.74

O	53.088	7.201	13.073
H	53.667	7.962	13.119
H	52.355	7.423	13.648
O	53.172	-0.765	13.16
H	52.326	-0.514	13.531
H	53.262	-0.22	12.379
O	49.528	-0.928	21.024
H	49.513	-1.877	21.148
H	48.645	-0.712	20.724
O	58.794	-1.452	38.368
H	58.298	-1.38	37.553
H	59.058	-2.371	38.408
O	60.944	14.05	21.952
H	61.802	14.105	22.373
H	60.469	14.816	22.275
O	52.941	6.789	17.461
H	53.203	6.962	18.365
H	52.093	6.351	17.537
O	46.963	2.485	23.275
H	47.698	2.302	22.69
H	46.355	1.761	23.129
O	54.772	0.194	8.009
H	55.407	0.725	7.527
H	55.265	-0.58	8.281
O	56.69	7.462	24.316
H	56.154	6.699	24.103
H	57.49	7.343	23.804
O	47.378	9.753	16.31
H	48.049	9.245	16.766
H	47.113	9.196	15.578
O	51.754	14.04	27.398
H	52.352	13.502	27.917
H	52.042	13.913	26.493
O	49.781	10.723	30.899
H	48.947	10.851	30.447
H	50.072	11.607	31.12
O	53.985	3.225	13.311
H	53.658	3.44	12.438
H	53.233	2.841	13.762
O	55.792	2.62	18.159
H	56.434	2.14	17.636
H	54.949	2.242	17.91
O	54.194	9.782	12.893
H	53.936	10.438	13.541
H	53.476	9.777	12.259
O	50.911	17.444	14.06
H	50.899	17.299	13.114

H	51.786	17.169	14.333
O	52.69	5.408	11.347
H	52.942	5.959	12.089
H	52.968	5.902	10.576
O	52.341	-0.319	9.749
H	51.552	-0.5	9.237
H	53.047	-0.305	9.103
O	52.322	10.373	18.988
H	52.75	11.23	18.975
H	51.843	10.332	18.16
O	48.892	8.947	27.116
H	48.636	9.427	26.328
H	49.589	9.477	27.504
O	54.813	11.503	26.857
H	55.15	10.776	27.38
H	54.818	11.175	25.958
O	51.672	5.522	7.329
H	52.615	5.398	7.443
H	51.401	4.795	6.768
O	57.638	0.283	29.193
H	57.236	-0.362	28.611
H	57.105	0.254	29.988
O	50.471	12.778	9.896
H	50.301	11.837	9.871
H	49.686	13.174	9.517
O	58.175	12.889	27.18
H	57.314	12.94	26.765
H	58.471	13.798	27.232
O	60.017	3.243	15.823
H	60.023	2.295	15.956
H	59.43	3.577	16.502
O	48.44	11.058	24.706
H	48.725	11.972	24.706
H	47.484	11.105	24.73
O	64.033	-1.317	18.375
H	64.402	-0.597	17.863
H	63.245	-1.572	17.895
O	56.64	2.98	14.125
H	55.763	3.174	13.795
H	56.973	3.823	14.432
O	57.374	8.434	29.64
H	56.9	7.842	30.223
H	56.891	8.396	28.815
O	59.987	1.378	20.864
H	60.369	2.172	21.238
H	59.321	1.112	21.498
O	50.685	14.799	21.56

H	51.006	15.059	22.424
H	49.952	14.212	21.744
O	58.219	4.77	27.085
H	59.001	5.313	27.177
H	58.181	4.561	26.151
O	56.529	18.163	12.65
H	56.645	17.218	12.549
H	57.087	18.546	11.973
O	50.543	3.557	13.752
H	49.983	4.22	14.156
H	50.482	3.733	12.813
O	52.13	-1.096	19.139
H	51.226	-1.087	19.451
H	52.177	-0.368	18.519
O	49.612	6.895	25.24
H	50.079	6.403	25.915
H	49.37	7.717	25.666
O	49.305	8.14	17.538
H	49.227	8.375	18.462
H	49.258	7.184	17.529
O	45.729	3.613	26.94
H	46.672	3.639	26.776
H	45.597	4.208	27.677
O	48.342	0.084	26.124
H	48.111	-0.22	25.246
H	47.509	0.113	26.595
O	49.273	13.961	28.481
H	49.723	14.804	28.428
H	49.834	13.359	27.992
O	57.268	16.568	18.893
H	56.576	17.116	18.524
H	58.007	17.164	19.013
O	55.533	10.434	24.466
H	55.13	10.832	23.695
H	55.647	9.514	24.229
O	53.532	8.179	19.611
H	53.544	8.41	20.54
H	53.244	8.978	19.169
O	48.001	6.018	20.405
H	48.166	6.507	21.211
H	48.321	5.136	20.59
O	62.897	5.112	13.319
H	61.961	5.261	13.187
H	63.321	5.855	12.89
O	42.099	7.337	23.231
H	42.95	6.968	23.467
H	41.642	6.622	22.788

O	48.778	7.442	22.651
H	49.005	6.939	23.434
H	49.399	8.171	22.647
O	51.18	7.913	15.597
H	50.384	8.045	16.112
H	51.872	7.804	16.25
O	55.906	10.92	19.135
H	55.104	11.355	18.845
H	56.569	11.611	19.128
O	49.741	8.321	12.86
H	49.427	7.555	12.38
H	49.611	8.096	13.782
O	50.712	-1.293	4.243
H	51.117	-2.072	4.624
H	51.412	-0.642	4.228
O	52.913	3.837	-3.236
H	52.625	2.959	-2.985
H	53.344	3.714	-4.082
O	49.48	7.766	-1.16
H	50.351	7.608	-1.525
H	48.901	7.79	-1.922
O	39.991	3.109	2.111
H	39.732	2.271	1.726
H	40.024	3.713	1.37
O	56.604	8.365	0.655
H	56.62	9.322	0.676
H	56.409	8.15	-0.257
O	54.11	15.705	11.736
H	54.066	16.441	11.126
H	53.236	15.316	11.706
O	54.459	5.337	7.035
H	54.297	5.691	6.16
H	55.348	5.622	7.247
O	50.341	8.879	2.503
H	50.596	9.083	3.403
H	49.674	9.531	2.289
O	53.466	3.879	3.987
H	53.798	4.768	4.117
H	52.629	4	3.539
O	50.899	3.721	0.422
H	50.668	4.565	0.036
H	51.801	3.567	0.139
O	51.842	-2.807	7.834
H	51.325	-2.003	7.873
H	52.165	-2.842	6.934
O	53.371	-0.154	5.514
H	53.496	-1.075	5.743

H	53.507	0.318	6.336
O	51.306	8.495	8.883
H	50.999	7.599	9.016
H	51.814	8.457	8.073
O	50.103	1.792	4.899
H	50.014	1.121	4.222
H	49.289	1.737	5.399
O	45.833	-2.435	6.449
H	46.688	-2.529	6.027
H	45.382	-1.771	5.928
O	57.866	3.213	5.742
H	56.943	3.083	5.96
H	57.865	3.417	4.807
O	52.37	2.702	6.876
H	51.625	2.498	6.312
H	53.117	2.281	6.449
O	51.022	5.022	18.222
H	51.397	4.142	18.17
H	50.302	5.013	17.591
O	52.974	2.751	9.503
H	52.903	2.867	8.555
H	52.955	1.803	9.63
O	51.155	0.787	11.819
H	51.432	0.345	11.017
H	51.774	1.511	11.919
O	61.993	8.282	16.382
H	62.597	9.017	16.484
H	61.276	8.476	16.987
O	53.872	8.655	3.603
H	53.102	9.086	3.974
H	54.504	9.363	3.476
O	52.578	-3.399	5.199
H	51.827	-3.853	4.819
H	53.283	-4.047	5.183
O	50	-0.583	8.071
H	49.378	-0.676	8.794
H	49.466	-0.291	7.333
O	55.526	9.649	7.864
H	55.159	10.38	7.367
H	55.608	9.983	8.757
O	59.245	13.217	1.561
H	59.938	13.487	2.163
H	59.634	12.506	1.051
O	42.659	11.722	6.173
H	42.087	10.955	6.166
H	43.525	11.376	5.957
O	63.04	2.738	18.089

H	62.625	1.884	17.966
H	63.279	3.017	17.205
O	55.63	6.852	-1.846
H	55	6.292	-1.392
H	55.195	7.088	-2.665
O	51.687	13.753	17.204
H	50.991	13.531	16.586
H	51.354	14.516	17.676
O	55.23	5.488	15.076
H	54.699	5.017	14.433
H	54.623	6.109	15.479
O	51.813	9.51	11.663
H	51.072	9.038	12.043
H	51.795	9.277	10.735
O	56.844	6.55	11.607
H	56.493	7.065	12.333
H	56.772	7.128	10.847
O	58.091	4.131	11.571
H	57.71	3.756	10.778
H	57.593	4.935	11.72
O	55.067	2.761	5.798
H	54.583	2.993	5.005
H	54.979	3.527	6.365
O	49.248	6.302	8.245
H	48.905	6.826	7.521
H	49.927	5.757	7.847
O	54.621	11.998	7.135
H	54.038	12.58	6.648
H	54.593	12.329	8.033
O	48.271	10.411	1.543
H	48.607	10.919	0.804
H	47.33	10.348	1.383
O	49.435	12.596	0.143
H	48.533	12.91	0.196
H	49.968	13.391	0.176
O	50.768	10.394	-0.519
H	50.067	9.743	-0.493
H	50.328	11.227	-0.347
O	54.858	2.385	-8.919
H	54.648	1.952	-8.092
H	54.055	2.317	-9.436
O	60.652	12.041	9.692
H	61.549	12.057	9.36
H	60.683	12.569	10.49
O	49.427	10.177	9.616
H	50	9.509	9.239
H	48.651	10.172	9.055

O	53.237	24.844	9.546
H	52.702	24.25	10.073
H	54.008	25.015	10.087
O	43.724	12.234	-0.002
H	43.866	11.819	-0.853
H	42.839	11.97	0.248
O	52.67	7.636	1.389
H	53.162	7.585	2.208
H	51.859	8.087	1.624
O	54.469	6.335	4.656
H	54.073	7.154	4.359
H	55.405	6.529	4.713
O	59.469	13.502	4.586
H	58.582	13.234	4.345
H	59.562	13.228	5.499
O	40.062	55.257	56.876
H	39.272	55.794	56.809
H	40.14	55.062	57.81
O	42.307	60.491	60.502
H	41.373	60.479	60.297
H	42.711	60.93	59.754
O	25.937	62.582	53.726
H	26.107	61.64	53.727
H	25.543	62.755	54.581
O	26.641	50.28	55.157
H	26.816	49.348	55.027
H	27.05	50.707	54.404
O	31.134	64.33	52.668
H	32.005	64.247	52.278
H	30.541	64.383	51.919
O	42.554	49.656	57.416
H	41.928	49.2	57.979
H	42.03	49.967	56.678
O	43.991	58.165	48.049
H	44.441	57.87	48.84
H	43.279	57.536	47.93
O	37.285	50.329	55.436
H	37.14	49.529	55.941
H	37.78	50.041	54.669
O	30.923	53.263	57.371
H	30.943	52.861	56.502
H	31.253	52.582	57.957
O	38.142	57.26	56.761
H	37.773	58.051	57.153
H	37.573	57.075	56.014
O	38.809	47.616	55.08
H	39.755	47.544	54.952

H	38.668	47.336	55.984
O	45.557	51.337	56.195
H	45.363	51.904	55.448
H	46.367	51.692	56.561
O	33.972	55.381	49.88
H	33.219	54.826	50.082
H	34.596	54.794	49.453
O	41.284	54.809	54.279
H	41.047	55.092	55.162
H	40.584	54.209	54.023
O	41.777	57.447	50.601
H	41.388	56.573	50.631
H	42.561	57.342	50.063
O	48.667	58.476	57.195
H	49.181	57.733	56.879
H	48.789	59.152	56.529
O	37.067	57.054	53.667
H	36.832	57.358	52.79
H	36.706	57.717	54.255
O	41.764	65.501	51.923
H	41.896	65.396	50.981
H	41.737	64.606	52.262
O	53.749	38.346	47.299
H	53.566	38.884	46.529
H	54.667	38.525	47.503
O	30.983	58.422	57.503
H	31.341	58.354	58.389
H	30.757	59.347	57.406
O	22.743	49.635	56.537
H	22.311	49.229	57.288
H	23.548	50.007	56.896
O	37.217	49.108	59.958
H	36.797	49.254	59.11
H	37.184	48.159	60.081
O	38.751	45.311	52.751
H	38.111	44.748	52.317
H	38.241	46.06	53.061
O	33.416	59.747	59.069
H	33.056	60.614	59.256
H	32.851	59.143	59.551
O	30.008	59.961	52.409
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H	38.843	48.817	53.287
H	39.321	49.987	52.454
O	35.666	45.795	62.007

H	35.618	45.133	62.697
H	35.897	46.602	62.466
O	27.102	49.074	52.042
H	26.267	48.64	51.864
H	27.73	48.358	52.13
O	30.342	58.448	48.066
H	29.835	58.425	48.878
H	31.246	58.3	48.344
O	40.427	61.045	63.75
H	39.916	60.319	63.392
H	40.434	61.7	63.052
O	32.471	56.846	55.615
H	33.016	56.242	56.12
H	31.993	57.347	56.276
O	39.692	55.428	59.428
H	40.171	55.902	60.107
H	38.774	55.499	59.69
O	39.115	53.068	54.261
H	38.591	53.285	55.033
H	38.633	52.359	53.836
O	40.227	52.602	59.111
H	40.031	53.517	59.311
H	39.95	52.121	59.891
O	37.578	55.575	43.54
H	38.388	55.553	43.03
H	36.942	55.107	42.999
O	25.591	45.306	54.434
H	25.524	44.701	55.172
H	25.558	44.744	53.66
O	51.446	56.592	53.814
H	50.583	56.294	54.102
H	52.05	56.243	54.47
O	39.894	57.961	53.407
H	39.051	58.402	53.302
H	39.682	57.028	53.369
O	43.394	52.516	50.724
H	43.236	52.621	49.785
H	43.388	53.408	51.07
O	43.089	57.534	53.29
H	42.179	57.707	53.048
H	43.544	58.359	53.117
O	46.145	55.426	52.834
H	46.45	55.267	51.941
H	46.713	56.124	53.16
O	37.383	56.14	49.019
H	37.536	56.569	48.177
H	36.573	55.647	48.894

O	33.681	51.801	53.881
H	34.434	51.596	53.326
H	33.997	52.487	54.469
O	31.066	57.414	52.894
H	31.748	57.512	52.23
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H	50.214	58.203	51.888
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H	37.314	53.025	50.411
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O	33.571	49.172	59.728
H	34.139	49.426	60.456
H	34.173	48.992	59.006
O	28.948	54.295	45.321
H	29.793	54.202	44.881
H	28.339	54.534	44.622
O	41.433	63.215	53.607
H	41.385	62.261	53.669
H	42.183	63.453	54.151
O	33.84	59.215	54.171
H	33.661	58.312	53.908
H	33.679	59.225	55.115
O	31.819	49.682	47.147
H	32.486	50.367	47.112
H	31.432	49.769	48.018
O	36.634	61.614	59.67
H	37.15	61.502	58.871
H	36.003	62.3	59.453
O	43.411	60.486	49.392
H	43.511	61.32	48.932
H	43.605	59.823	48.73
O	38.971	53.687	40.791
H	38.156	53.997	40.394
H	38.744	52.839	41.173
O	41.76	58.01	55.788
H	42.511	57.945	55.2
H	41.24	57.228	55.601
O	47.667	46.458	43.888
H	47.623	45.566	43.543
H	47.813	47.005	43.116
O	42.077	51.793	53.523
H	42.768	52.404	53.266

H	41.704	52.174	54.318
O	52.849	62.459	48.154
H	53.096	61.985	47.36
H	51.893	62.414	48.172
O	28.649	58.579	50.022
H	27.705	58.539	49.872
H	28.746	59.138	50.793
O	47.159	60.129	46.919
H	46.302	59.869	46.583
H	47.467	60.794	46.303
O	43.37	54.921	52.199
H	42.739	55.133	52.887
H	44.155	55.415	52.433
O	40.08	55.149	49.609
H	39.903	54.449	50.237
H	39.241	55.297	49.173
O	31.78	51.275	59.344
H	31.701	51.683	60.206
H	32.411	50.566	59.472
O	40.73	58.418	58.363
H	39.853	58.081	58.182
H	41.094	58.616	57.5
O	23.593	51.145	52.561
H	23.432	51.699	53.325
H	23.737	51.762	51.844
O	33.603	51.851	47.483
H	33.668	52.652	46.963
H	33.545	52.158	48.388
O	40.849	51.69	56.06
H	40.561	52.092	56.88
H	40.358	52.152	55.381
O	29.53	55.708	57.837
H	30.175	56.222	57.352
H	29.909	54.83	57.883
O	53.837	54.619	58.335
H	54.116	55.511	58.544
H	53.777	54.182	59.184
O	49.112	47.987	41.747
H	49.727	48.046	42.478
H	48.366	48.523	42.018
O	48.714	51.888	52.859
H	48.345	52.048	51.99
H	48.103	51.277	53.27
O	38.927	46.713	57.884
H	38.55	46.408	58.71
H	39.542	47.4	58.141
O	44.542	50.492	52.418

H	44.242	49.748	51.897
H	43.994	51.223	52.13
O	50.753	51.532	50.686
H	50.854	51.548	49.734
H	50.268	50.726	50.862
O	32.188	53.899	51.818
H	32.72	54.57	52.246
H	31.301	54.054	52.141
O	44.949	53.545	54.566
H	44.136	53.923	54.902
H	45.371	54.264	54.096
O	31.023	52.442	54.869
H	31.701	52.267	54.216
H	30.369	52.961	54.401
O	53.674	45.849	53.34
H	53.045	45.413	52.765
H	53.88	45.197	54.01
O	33.819	49.397	55.462
H	33.664	50.171	54.92
H	33.989	48.695	54.834
O	36.236	54.356	52.7
H	36.881	54.771	53.274
H	35.591	55.042	52.53
O	43.387	55.151	33.561
H	44.25	55.177	33.975
H	43.447	55.783	32.844
O	43.586	65.836	40.304
H	43.239	65.65	41.177
H	44.525	65.959	40.441
O	37.046	60.518	36.393
H	36.668	60.121	35.608
H	36.298	60.896	36.854
O	30.135	53.908	28.102
H	30.17	53.668	27.176
H	31.011	54.244	28.295
O	26.128	58.145	42.8
H	26.343	57.264	43.107
H	25.789	58.592	43.576
O	31.526	50.62	43.409
H	30.704	50.379	43.837
H	31.604	50.006	42.679
O	36.788	57.63	41.762
H	36.85	57.277	42.65
H	36.177	57.045	41.314
O	29.363	52.214	32.526
H	28.952	52.675	33.257
H	28.702	52.227	31.833

O	45.752	53.46	31.86
H	45.882	52.78	32.521
H	46.028	54.269	32.292
O	29.393	47.606	36.109
H	30.163	47.759	35.563
H	28.698	48.116	35.693
O	30.532	63.752	39.54
H	29.825	63.574	38.92
H	30.93	64.563	39.223
O	45.89	55.153	47.044
H	46.368	55.663	47.698
H	45.868	55.716	46.27
O	31.878	40.361	43.187
H	31.446	41.107	43.604
H	31.357	39.603	43.455
O	44.41	52.605	43.169
H	44.87	52.735	42.339
H	44.388	53.474	43.569
O	30.67	45.147	47.323
H	31.503	45.382	47.732
H	30.794	45.345	46.395
O	42.6	47.589	42.997
H	43.197	48.337	43.019
H	42.353	47.454	43.912
O	42.919	42.213	34.415
H	43.492	42.222	33.648
H	42.423	43.03	34.353
O	43.069	52.823	48.037
H	42.315	52.518	47.532
H	43.82	52.668	47.464
O	42.212	54.207	35.832
H	42.941	54.005	36.42
H	42.627	54.602	35.065
O	41.512	62.534	27.625
H	41.858	62.148	26.82
H	41.884	63.416	27.646
O	47.962	59.206	40.287
H	47.989	58.871	39.39
H	47.314	58.657	40.729
O	43.933	58.216	31.804
H	43.671	58.855	32.467
H	43.665	58.609	30.973
O	42.332	47.66	45.991
H	41.9	47.262	46.747
H	42.834	48.388	46.358
O	35.485	50.334	34.167
H	35.979	50.744	34.876

H	35.175	49.507	34.537
O	37.18	56.994	46.316
H	37.265	56.268	45.698
H	37.712	57.695	45.937
O	41.209	62.292	30.851
H	41.888	62.927	31.078
H	41.349	62.116	29.92
O	40.404	55.055	42.632
H	40.441	54.392	43.322
H	40.073	54.586	41.867
O	44.116	44.92	29.778
H	44.604	44.759	28.97
H	43.761	44.063	30.017
O	32.011	54.816	32.608
H	32.733	54.277	32.283
H	31.92	54.566	33.527
O	37.331	57.429	32.758
H	38.094	57.097	32.285
H	36.718	56.694	32.768
O	45.498	52.33	47.067
H	45.784	53.234	47.196
H	46.23	51.8	47.382
O	31.389	54.249	38.606
H	30.704	54.91	38.507
H	32.19	54.753	38.747
O	38.01	49.909	46.491
H	37.099	50.127	46.296
H	38.02	49.739	47.433
O	43.254	44.338	47.838
H	43.957	43.716	47.65
H	42.454	43.814	47.802
O	43.951	49.863	46.781
H	43.132	50.269	46.496
H	44.559	50.595	46.883
O	38.404	48.092	35.974
H	37.607	48.576	36.192
H	38.387	48.019	35.02
O	43.549	55.958	38.718
H	43.494	55.044	38.439
H	43.588	55.915	39.674
O	33.852	53.232	40.585
H	34.428	52.471	40.667
H	33.865	53.443	39.652
O	42.293	52.826	32.176
H	42.553	53.52	31.57
H	42.546	53.154	33.039
O	47.892	53.772	37.99

H	47.298	53.193	37.513
H	47.528	54.648	37.86
O	43.165	50.828	33.99
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O	33.547	49.719	38.086
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H	33.046	50.332	38.625
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H	41.951	49.787	48.304
H	40.782	50.737	48.461
O	31.574	61.64	40.577
H	30.772	61.141	40.729
H	31.272	62.472	40.211
O	27.145	53.603	37.274
H	27.826	54.029	37.794
H	27.148	52.694	37.573
O	50.177	50.566	36.493
H	50.477	50.08	37.261
H	50.322	51.485	36.72
O	38.292	50.623	40.604
H	38.52	50.666	41.532
H	38.822	49.903	40.26
O	29.551	56.222	34.51
H	30.251	56.596	33.976
H	29.493	55.31	34.225
O	36.684	47.903	29.022
H	35.782	48.123	29.255
H	36.744	48.098	28.087
O	41.722	53.337	40.383
H	41.786	52.937	39.515
H	40.783	53.355	40.569
O	34.848	61.496	25.888
H	34.97	61.452	24.939
H	33.995	61.089	26.038
O	47.962	44.372	47.049
H	48.357	45.181	46.724
H	47.083	44.366	46.669
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H	42.959	51.959	44.289
H	41.656	52.369	44.941
O	28.379	53.751	34.887
H	27.973	53.639	35.746
H	27.654	53.985	34.308
O	40.591	45.453	49.885
H	40.195	45.664	50.731
H	41.138	44.688	50.061

O	47.936	63.492	42.435
H	47.777	64.374	42.772
H	47.238	62.961	42.819
O	37.392	51.873	38.43
H	37.532	51.432	39.267
H	37.113	52.757	38.669
O	41.263	57.717	46.311
H	41.416	56.998	46.924
H	41.599	57.394	45.475
O	47.538	49.405	26.698
H	46.911	48.776	27.056
H	48.122	48.877	26.153
O	36.72	54.87	39.199
H	36.149	55.353	39.797
H	36.529	55.237	38.336
O	35.886	53.968	48.013
H	36.088	53.775	47.098
H	36.163	53.185	48.49
O	42.21	55.572	48.032
H	41.392	55.345	48.474
H	42.713	54.758	48.027
O	42.103	55.738	27.541
H	41.429	56.395	27.367
H	42.928	56.221	27.491
O	50.962	58.634	45.934
H	51.569	58.076	46.42
H	50.099	58.413	46.285
O	26.867	48.528	35.15
H	26.628	48.973	35.963
H	26.457	49.051	34.461
O	36.813	60.169	40.9
H	36.913	59.298	41.283
H	35.889	60.384	41.031
O	35.46	47.395	31.954
H	34.986	47.473	32.782
H	35.126	48.115	31.418
O	36.334	57.53	51.141
H	35.57	56.981	50.967
H	36.936	57.337	50.421
O	39.733	61.894	33.022
H	39.212	61.175	32.664
H	40.291	62.17	32.295
O	45.558	52.551	40.726
H	45.064	53.137	40.152
H	45.709	51.768	40.196
O	39.251	53.616	32.874
H	39.935	54.196	33.207

H	38.738	54.165	32.28
O	40.456	51.036	31.015
H	39.634	50.892	31.483
H	40.828	51.82	31.419
O	35.49	60.759	45.683
H	36.248	60.317	46.064
H	35	61.087	46.437
O	32.961	46.325	36.864
H	33.049	46.617	37.771
H	32.024	46.162	36.754
O	38.099	46.954	33.478
H	37.889	46.079	33.151
H	38.279	47.468	32.691
O	53.772	43.479	45.526
H	52.93	43.056	45.697
H	54.215	42.893	44.913
O	32.939	57.154	38.717
H	32.411	57.888	38.401
H	33.432	56.866	37.949
O	37.265	60.271	32.622
H	36.986	59.363	32.506
H	36.6	60.656	33.193
O	38.68	51.341	34.195
H	37.824	51.39	34.622
H	38.852	52.236	33.9
O	32.647	60.644	52.132
H	33.141	60.219	52.834
H	31.739	60.383	52.287
O	48.345	61.566	45.054
H	48.766	62.369	44.749
H	48.783	60.866	44.569
O	33.693	53.787	45.408
H	33.162	53.359	44.737
H	33.752	54.698	45.122
O	40.851	58.592	32.792
H	39.903	58.684	32.689
H	41.078	57.832	32.257
O	35.63	50.663	45.89
H	35.025	50.981	46.56
H	35.064	50.352	45.184
O	39.9	57.506	27.376
H	39.093	57.625	26.875
H	40.016	58.334	27.843
O	44.896	57.787	37.168
H	45.204	58.29	37.922
H	44.35	57.098	37.547
O	55.113	56.838	52.822

H	54.73	56.52	53.64
H	56.031	56.569	52.868
O	35.193	47.544	45.852
H	34.971	48.023	45.054
H	35.004	46.629	45.643
O	46.892	54.779	50.425
H	46.748	53.832	50.42
H	47.786	54.886	50.1
O	43.124	59.379	29.421
H	42.232	59.41	29.074
H	43.351	60.295	29.579
O	47.376	54.529	41.693
H	47.434	54.519	42.648
H	46.92	53.717	41.471
O	41.805	59.411	41.19
H	42.753	59.524	41.262
H	41.675	59.027	40.323
O	34.222	49.312	30.151
H	33.404	49.635	30.53
H	33.959	48.901	29.328
O	37.904	46.46	45.722
H	38.608	46.409	46.367
H	37.325	47.147	46.054
O	42.44	51	41.75
H	42.212	51.787	41.256
H	43.33	51.162	42.063
O	41.055	48.558	29.869
H	40.959	49.484	30.093
H	40.201	48.174	30.07
O	36.738	50.882	31.617
H	36.847	49.987	31.296
H	36.433	50.778	32.519
O	34.015	50.188	27.055
H	33.151	49.79	27.16
H	34.537	49.516	26.615
O	41.915	61.871	37.65
H	41.394	61.113	37.385
H	41.303	62.606	37.617
O	35.436	55.338	32.685
H	35.519	54.805	33.476
H	35.856	54.818	32
O	48.683	56.854	31.686
H	47.768	56.588	31.766
H	48.945	56.555	30.815
O	37.049	51.833	27.97
H	36.746	51.484	27.132
H	37.961	51.549	28.032

O	50.621	59.14	31.141
H	50.752	58.729	30.287
H	49.8	58.767	31.463
O	34.172	60.744	41.249
H	33.33	61.019	40.888
H	33.945	60.225	42.021
O	49.215	61.58	39.882
H	49.259	62.1	40.684
H	48.673	60.827	40.113
O	29.446	53.638	51.886
H	29.051	54.505	51.976
H	29.367	53.433	50.954
O	43.131	48.375	51.101
H	42.704	48.291	50.248
H	43.356	47.478	51.345
O	35.881	53.891	42.451
H	35.997	53.03	42.854
H	35.128	53.785	41.871
O	51.925	58.129	35.786
H	51.395	58.925	35.745
H	51.35	57.441	35.453
O	45.711	57.233	49.802
H	45.759	56.303	50.025
H	46.367	57.648	50.362
O	33.119	54.911	28.958
H	32.891	54.756	29.875
H	33.181	55.863	28.885
O	40.99	50.023	35.435
H	40.973	49.123	35.109
H	40.341	50.482	34.902
O	30.968	50.115	39.092
H	30.239	49.521	38.91
H	30.679	50.961	38.751
O	45.981	55.045	34.351
H	46.492	55.609	34.932
H	46.325	54.166	34.507
O	48.128	50.771	39.509
H	47.727	50.211	38.843
H	48.02	51.66	39.17
O	47.026	43.911	27.515
H	47.64	43.508	28.129
H	47.24	44.843	27.54
O	53.412	50.342	33.083
H	53.893	49.578	33.401
H	52.709	49.977	32.547
O	29.136	53.422	42.72
H	28.655	52.621	42.927

H	29.276	53.381	41.774
O	47.627	50.517	48.067
H	47.394	50.084	47.246
H	47.983	49.816	48.614
O	47.221	47.781	37.45
H	46.4	47.551	37.885
H	47.48	46.983	36.99
O	30.133	48.959	45.178
H	30.394	48.088	44.877
H	30.704	49.135	45.925
O	40.17	48.833	45.045
H	39.632	49.269	45.707
H	40.814	48.336	45.55
O	45.91	56.744	40.879
H	45.06	56.329	41.024
H	46.548	56.086	41.156
O	34.084	49.724	44.086
H	33.163	49.98	44.139
H	34.072	48.873	43.65
O	36.589	52.482	35.982
H	37.065	52.219	36.769
H	36.672	53.436	35.959
O	45.909	50.127	33.125
H	45.018	50.137	33.472
H	46.461	49.94	33.885
O	34.702	56.28	40.615
H	34.276	56.892	40.015
H	33.982	55.784	41.004
O	41.187	44.633	34.548
H	40.527	44.935	35.172
H	40.722	44.585	33.713
O	46.329	46.408	31.255
H	45.51	46.054	30.909
H	46.251	47.354	31.137
O	36.14	45.265	30.118
H	35.485	44.699	29.709
H	35.645	45.782	30.754
O	34.682	53.402	38.113
H	34.848	54.053	37.431
H	34.81	52.56	37.676
O	38.416	49.084	49.005
H	37.486	48.917	49.158
H	38.563	49.962	49.359
O	36.809	45.264	49.013
H	35.869	45.106	49.096
H	37.204	44.731	49.703
O	43.473	53.714	15.25

H	42.953	52.928	15.086
H	42.972	54.422	14.845
O	44.149	61.894	29.89
H	44.939	62.123	30.379
H	44.253	62.336	29.047
O	30.54	50.75	18.129
H	30.67	49.991	17.561
H	29.786	51.204	17.753
O	31.671	44.477	17.783
H	31.318	44.938	17.022
H	32.115	43.712	17.415
O	28.503	67.087	12.322
H	27.931	67.854	12.355
H	28.029	66.458	11.778
O	29.31	49.502	23.128
H	29.144	49.935	22.291
H	28.786	48.702	23.093
O	37.791	57.828	24.974
H	37.124	57.594	25.619
H	37.656	57.211	24.255
O	32.081	51.588	14.562
H	32.365	52.431	14.913
H	32.826	51.004	14.707
O	43.883	50.093	13.873
H	43.066	50.471	14.197
H	43.795	50.113	12.92
O	31.378	54.463	20.376
H	31.841	53.696	20.714
H	31.791	54.637	19.529
O	36.737	51.034	25.297
H	35.897	51.039	24.839
H	37.261	51.695	24.845
O	47.113	52.611	20.893
H	47.247	52.73	19.952
H	47.136	51.663	21.02
O	34.115	45.845	21.242
H	34.391	45.485	20.399
H	33.366	46.401	21.031
O	41.837	51.444	10.286
H	41.844	51.232	9.353
H	42.689	51.147	10.606
O	33.24	48.2	17.696
H	32.983	48.202	16.774
H	34.027	47.657	17.725
O	47.418	49.01	31.012
H	47.076	49.475	30.249
H	46.821	49.244	31.723

O	36.434	42.126	20.406
H	35.688	41.899	20.96
H	36.104	42.816	19.831
O	43.737	62.077	25.065
H	44.045	61.254	24.687
H	44.478	62.395	25.582
O	39.47	58.846	19.556
H	39.777	59.711	19.824
H	38.785	58.628	20.188
O	46.896	52.239	11.614
H	46.571	52.889	12.238
H	47.834	52.182	11.794
O	50.212	52.82	29.098
H	50.182	52.288	28.303
H	49.605	52.389	29.699
O	39.896	63.976	16.983
H	39.852	63.972	17.939
H	38.988	64.09	16.702
O	48.023	58.545	23.769
H	48.934	58.306	23.599
H	47.601	58.507	22.911
O	37.381	56.028	23.049
H	36.778	55.435	22.601
H	38.2	55.952	22.559
O	25.806	53.585	25.653
H	25.756	53.583	26.609
H	26.345	52.823	25.44
O	48.545	51.204	14.291
H	47.656	51.038	14.607
H	48.71	52.121	14.51
O	28.637	62.746	17.906
H	29.167	63.298	18.48
H	29.271	62.186	17.458
O	42.334	45.71	13.363
H	41.507	45.237	13.457
H	42.233	46.21	12.553
O	30.436	50.095	20.806
H	30.328	50.109	19.856
H	30.872	50.923	21.01
O	32.339	64.742	27.831
H	33.072	64.411	27.312
H	31.626	64.847	27.201
O	39.539	56.671	38.169
H	39.177	55.874	38.556
H	40.003	56.369	37.388
O	32.51	51.97	21.199
H	33.438	51.971	20.961

H	32.427	51.261	21.836
O	42.051	45.877	22.074
H	42.889	45.447	22.244
H	41.92	45.781	21.131
O	46.72	58.112	21.19
H	46.607	57.744	20.314
H	45.897	57.918	21.639
O	38.441	53.074	24.093
H	38.781	53.744	24.686
H	38.427	53.498	23.235
O	40.662	49.656	26.357
H	41.148	49.248	27.073
H	41.319	49.814	25.679
O	31.771	48.002	22.215
H	31.259	47.255	22.526
H	31.316	48.767	22.567
O	40.399	61.568	20.248
H	40.818	61.613	19.388
H	40.846	62.236	20.767
O	41.019	60.663	11.183
H	41.796	60.384	10.7
H	40.291	60.232	10.735
O	37.842	48.611	26.455
H	38.57	49.201	26.651
H	37.324	49.079	25.8
O	44.886	54.126	17.614
H	44.424	54.117	16.775
H	44.197	54.007	18.267
O	30.799	50.11	28.72
H	31.06	50.973	28.398
H	30.668	50.235	29.66
O	31.982	59.756	27.885
H	31.961	60.132	27.005
H	31.735	60.48	28.461
O	23.748	50.267	20.386
H	23.266	49.766	21.043
H	24.423	50.728	20.884
O	27.583	60.022	9.701
H	27.363	59.877	8.78
H	27.597	60.975	9.796
O	39.67	54.685	26.106
H	40.432	55.224	26.321
H	39.148	54.679	26.908
O	41.141	53.704	21.611
H	40.655	54.526	21.667
H	40.585	53.132	21.082
O	34.678	50.577	23.619

H	33.736	50.72	23.719
H	34.753	49.666	23.336
O	32.501	46.419	14.232
H	31.629	46.663	14.542
H	32.455	45.471	14.109
O	40.226	52.411	17.02
H	40.904	53.087	17.001
H	39.406	52.897	17.11
O	42.29	61.224	14.713
H	42.935	61.689	15.246
H	42.678	60.362	14.564
O	41.983	51.449	37.779
H	41.541	51.285	36.945
H	42.149	50.577	38.137
O	42.671	54.866	19.779
H	43.36	54.955	20.438
H	41.944	54.456	20.248
O	27.181	51.649	24.796
H	26.65	50.862	24.921
H	27.766	51.43	24.07
O	34.658	57.75	23.029
H	33.769	57.397	23.059
H	35.207	56.997	22.813
O	44.564	57.157	22.222
H	44.707	56.224	22.062
H	43.625	57.229	22.396
O	35.332	52.657	14.177
H	36.206	52.482	14.526
H	35.265	53.611	14.167
O	35.783	64.252	23.483
H	36.359	64.566	22.786
H	34.933	64.648	23.289
O	40.178	54.337	13.148
H	40.398	55.184	13.535
H	40.876	54.174	12.514
O	36.666	60.947	18.598
H	36.77	60.735	19.526
H	36.436	61.876	18.589
O	35.136	54.33	22.592
H	34.218	54.596	22.656
H	35.114	53.512	22.096
O	34.185	52.937	31.278
H	34.753	52.313	30.826
H	33.794	52.431	31.991
O	41.314	54.974	17.2
H	41.896	54.975	17.96
H	41.576	55.744	16.696

O	38.345	63.408	25.343
H	37.879	62.834	25.951
H	38.83	62.811	24.773
O	28.557	56.348	11.877
H	28.292	55.621	12.44
H	28.556	55.98	10.994
O	38.738	55.058	16.517
H	39.61	55.088	16.911
H	38.294	55.834	16.86
O	24.584	48.684	18.332
H	24.321	49.037	19.182
H	24.331	47.762	18.367
O	27.293	51.696	30.492
H	27.687	51.332	29.7
H	26.485	51.196	30.61
O	33.29	62.369	9.905
H	32.886	62.961	10.54
H	34.2	62.659	9.853
O	39.844	51.679	19.772
H	39.871	51.776	18.82
H	40.269	50.837	19.939
O	50.387	52.712	17.464
H	49.489	52.451	17.664
H	50.616	53.333	18.155
O	30.929	59.504	22.716
H	30.132	59.924	22.393
H	30.642	58.639	23.01
O	29.66	61.874	24.791
H	28.918	62.045	24.21
H	29.271	61.806	25.663
O	44.966	45.453	14.953
H	44.144	45.568	14.476
H	45.59	46.013	14.493
O	34.916	53.285	18.964
H	34.68	52.587	18.352
H	35.269	52.825	19.726
O	44.005	52.723	22.785
H	43.095	52.974	22.943
H	44.444	52.872	23.623
O	42.496	57.149	15.972
H	43.291	57.449	15.531
H	41.971	57.941	16.085
O	37.981	52.835	21.324
H	37.124	52.421	21.418
H	38.464	52.255	20.735
O	38.562	52.629	10.685
H	38.396	52.702	9.745

H	39.137	53.367	10.884
O	31.943	60.551	25.261
H	31.931	60.026	24.46
H	31.228	61.176	25.147
O	29.699	56.427	18.715
H	29.712	57.374	18.855
H	29.907	56.055	19.572
O	27.947	56.666	25.448
H	28.176	57.47	25.915
H	27.042	56.49	25.705
O	40.943	57.667	10.602
H	41.467	58.305	10.117
H	41.31	56.818	10.355
O	27.609	50.219	28.027
H	27.836	49.394	27.599
H	27.99	50.893	27.464
O	31.791	54.959	9.158
H	32.361	54.624	9.85
H	31.812	55.909	9.27
O	36.037	61.374	23.562
H	36.041	62.308	23.352
H	36.803	61.024	23.108
O	46.554	59.854	30.091
H	46.539	60.52	30.778
H	46.352	59.036	30.546
O	35.522	46.809	23.314
H	36.11	47.325	22.763
H	34.839	46.505	22.716
O	39.861	44.515	26.548
H	40.175	44.085	27.343
H	38.913	44.574	26.665
O	36.015	56.861	27.081
H	35.204	57.318	26.859
H	35.758	55.943	27.161
O	43.113	50.866	30.079
H	42.889	51.467	29.368
H	42.356	50.894	30.663
O	42.829	58.525	19.175
H	42.791	57.573	19.09
H	41.912	58.799	19.216
O	40.343	50.765	12.38
H	39.535	51.255	12.225
H	40.856	50.893	11.582
O	37.426	54.473	30.631
H	36.829	54.631	29.899
H	37.194	53.598	30.943
O	35.698	54.417	28.459

H	34.841	54.276	28.861
H	35.987	53.543	28.199
O	40.176	46.281	16.776
H	40.522	47.102	16.427
H	39.507	46.016	16.145
O	33.962	48.404	15.097
H	34.898	48.321	14.915
H	33.578	47.596	14.754
O	35.622	49.807	19.263
H	35.033	50.295	18.688
H	36.003	49.134	18.699
O	41.375	61.96	17.912
H	41.193	62.77	17.435
H	42.273	61.735	17.667
O	31.958	50.758	23.995
H	31.348	50.044	24.178
H	31.623	51.496	24.505
O	48.276	58.62	10.133
H	47.728	59.399	10.034
H	47.653	57.905	10.264
O	41.575	48.05	15.186
H	41.111	48.74	14.71
H	42.164	47.666	14.536
O	40.791	59.356	15.802
H	40.133	59.718	16.395
H	41.26	60.12	15.468
O	29.895	63.88	20.111
H	30.841	63.88	19.964
H	29.793	64.19	21.011
O	45.775	56.55	31.098
H	45.106	57.109	31.493
H	45.28	55.899	30.6
O	30.977	48.865	26.312
H	30.13	48.428	26.219
H	30.888	49.395	27.104
O	44.256	46.243	25.317
H	43.605	46.943	25.255
H	44.862	46.415	24.596
O	28.472	46.373	13.138
H	28.341	45.725	12.446
H	27.8	47.036	12.975
O	45.989	51.14	15.136
H	45.203	50.858	14.667
H	45.75	51.08	16.061
O	49.971	53.203	25.383
H	49.09	52.921	25.629
H	50.323	52.472	24.875

O	33.542	43.597	15.584
H	33.013	43.549	14.788
H	34.388	43.934	15.29
O	31.222	44.138	13.733
H	30.606	43.932	14.435
H	30.673	44.465	13.02
O	44.259	55.332	25.396
H	43.496	54.761	25.305
H	44.917	54.945	24.818
O	28.838	47.744	20.244
H	28.869	47.442	21.151
H	28.747	48.695	20.311
O	55.84	54.176	22.297
H	56.313	54.86	22.77
H	55.411	54.636	21.576
O	33.234	59.363	21.263
H	32.521	59.638	21.84
H	33.987	59.26	21.845
O	50.584	46.959	5.661
H	50.313	46.847	6.572
H	50.889	47.865	5.612
O	45.983	54.038	13.974
H	45.035	53.971	14.088
H	46.341	53.354	14.541
O	47.118	56.236	36.319
H	47.773	56.9	36.533
H	46.279	56.664	36.49
O	45.312	50.647	18.044
H	44.843	51.091	18.751
H	45.309	49.724	18.297
O	42.956	43.861	24.807
H	43.426	44.689	24.902
H	43.622	43.239	24.514
O	45.991	50.456	22.77
H	45.205	50.351	23.306
H	46.112	51.403	22.703
O	44.363	43.064	27.403
H	45.27	43.247	27.157
H	43.891	43.031	26.57
O	37.881	58.45	21.679
H	38.123	59.257	22.134
H	37.084	58.156	22.12
O	51.835	49.599	20.864
H	51.605	48.673	20.788
H	51.687	49.955	19.988
O	20.96	47.138	22.361
H	20.747	46.395	21.797

H	20.222	47.197	22.969
O	42.212	57.755	23.797
H	41.855	58.571	24.148
H	42.694	57.371	24.529
O	40.056	56.422	22.155
H	40.772	57.037	22.314
H	39.319	56.975	21.895
O	36.594	47.801	15.073
H	36.957	48.648	15.329
H	37.3	47.374	14.588
O	33.293	50.871	18.16
H	32.4	51.073	18.438
H	33.333	49.915	18.159
O	31.833	47.294	19.626
H	31.501	47.817	20.355
H	32.213	47.934	19.025
O	40.496	50.972	23.435
H	40.093	50.144	23.172
H	39.789	51.458	23.859
O	50.878	46.994	21.059
H	51.335	46.424	21.677
H	50.825	46.481	20.253
O	43.017	56.942	5.237
H	43.868	56.829	5.659
H	43.042	56.352	4.484
O	44.943	56.626	-3.53
H	44.514	56.032	-2.914
H	44.363	56.639	-4.292
O	28.895	52.561	7.143
H	28.486	51.708	7.286
H	28.377	52.961	6.445
O	30.553	49.674	13.584
H	30.53	49.017	14.28
H	31.166	50.338	13.901
O	29.91	50.434	10.093
H	29.215	50.581	9.452
H	30.231	51.311	10.305
O	37.342	54.294	-2.138
H	36.809	55.072	-1.974
H	37.647	54.026	-1.271
O	36.821	44.026	-0.672
H	37.658	43.601	-0.862
H	37.001	44.58	0.087
O	27.267	45.093	2.574
H	27.664	44.857	3.412
H	28.011	45.248	1.992
O	50.23	55.132	4.445

H	50.018	54.492	3.766
H	49.524	55.777	4.394
O	39.168	46.005	8.302
H	39.797	45.288	8.378
H	38.351	45.645	8.647
O	47.909	50.129	0.618
H	47.722	51.051	0.793
H	47.407	49.928	-0.171
O	38.823	56.617	3.845
H	39.65	56.29	3.49
H	38.172	55.972	3.569
O	47.355	49.608	5.037
H	47.917	50.359	4.846
H	47.51	49.002	4.313
O	29.741	49.517	-0.239
H	29.465	49.413	0.671
H	30.475	50.13	-0.199
O	43.287	58.02	-0.225
H	42.415	58.273	-0.527
H	43.293	58.245	0.706
O	47.863	60.44	6.471
H	47.314	59.68	6.276
H	47.241	61.137	6.678
O	41.886	54.408	6.873
H	42.062	54.257	5.944
H	42.432	53.767	7.328
O	38.419	59.227	3.676
H	38.385	59.468	2.75
H	38.372	58.271	3.678
O	29.447	49.609	2.583
H	28.773	49.227	3.145
H	30.051	50.038	3.19
O	35.084	55.742	14.689
H	35.547	55.846	13.858
H	34.838	56.633	14.939
O	29.329	53.728	1.153
H	30.233	53.91	0.894
H	28.941	54.592	1.289
O	42.45	55.633	9.282
H	42.362	55.187	8.44
H	42.962	56.418	9.085
O	36.855	62.073	3.194
H	37.151	61.172	3.327
H	36.726	62.145	2.248
O	34.444	51.064	9.432
H	34.929	51.859	9.211
H	34.361	51.091	10.385

O	43.655	54.63	-2.142
H	42.732	54.854	-2.024
H	43.839	53.999	-1.446
O	36.795	50.698	11.774
H	35.934	51.113	11.826
H	37.31	51.283	11.219
O	34.467	52.198	4.446
H	35.079	51.668	4.956
H	34.415	53.028	4.92
O	31.515	56.517	13.745
H	30.77	57.116	13.782
H	32.056	56.851	13.03
O	30.168	52.109	4.065
H	30.184	51.372	4.675
H	29.404	52.621	4.329
O	37.187	47.508	12.071
H	38.041	47.667	12.473
H	36.759	48.364	12.071
O	28.726	47.989	5.598
H	27.927	47.924	6.121
H	29.126	47.122	5.662
O	35.378	49.899	5.806
H	34.626	50.211	6.309
H	35.236	48.957	5.721
O	42.729	51.045	7.628
H	43.264	51.742	7.248
H	42.661	50.389	6.934
O	38.05	51.508	5.139
H	37.294	51.398	5.715
H	38.637	50.79	5.375
O	44.462	52.927	6.617
H	45.262	53.208	7.063
H	44.771	52.494	5.822
O	44.435	50.694	11.172
H	44.69	50.03	10.531
H	45.18	51.293	11.206
O	34.34	54.076	6.357
H	34.83	54.028	7.178
H	33.478	53.72	6.572
O	33.59	57.83	11.794
H	33.621	58.492	11.103
H	33.903	58.285	12.575
O	43.441	58.299	11.951
H	42.486	58.3	11.888
H	43.737	57.979	11.098
O	37.619	56.961	18.207
H	36.931	56.435	18.614

H	38.215	57.172	18.926
O	35.216	52.897	1.112
H	36.142	52.66	1.152
H	34.763	52.17	1.541
O	34.071	61.701	13.577
H	33.756	61.573	14.472
H	33.498	61.153	13.04
O	34.574	58.415	16.881
H	35.441	58.361	17.281
H	33.988	58.014	17.524
O	45.928	66.458	4.133
H	45.595	66.01	3.356
H	45.143	66.771	4.584
O	31.201	40.447	5.124
H	31.068	40.783	4.238
H	30.982	39.517	5.063
O	41.103	56.461	2.256
H	41.7	57.148	1.96
H	41.634	55.914	2.833
O	32.188	52.408	2.447
H	32.95	52.502	3.018
H	31.441	52.623	3.006
O	51.207	50.484	13.202
H	50.322	50.583	13.555
H	51.673	51.263	13.506
O	45.545	54.002	2.535
H	45.596	53.35	3.235
H	45.792	53.523	1.744
O	24.798	52.738	6.691
H	24.63	53.68	6.665
H	25.74	52.668	6.846
O	35.793	53.495	8.693
H	36.413	52.812	8.437
H	36.322	54.292	8.743
O	31.567	53.349	11.897
H	30.878	53.696	12.464
H	32.193	54.069	11.814
O	29.581	58.139	7.812
H	30.167	57.937	7.083
H	29.051	58.872	7.497
O	42.008	53.896	11.189
H	42.077	54.627	10.575
H	41.728	53.156	10.649
O	44.748	48.48	9.497
H	45.55	47.988	9.672
H	44.833	48.76	8.586
O	33.85	51.367	12.061

H	34.132	51.785	12.874
H	33.049	51.832	11.818
O	36.996	44.555	9.17
H	36.713	44.598	10.084
H	36.46	43.86	8.786
O	33.685	55.41	-5.751
H	33.269	55.89	-5.035
H	34.365	54.887	-5.325
O	39.641	50.417	7.104
H	39.404	50.091	7.972
H	40.59	50.54	7.144
O	31.656	63.619	3.706
H	31.159	64.026	4.416
H	31.798	64.327	3.077
O	35.727	55.917	19.597
H	34.917	56.423	19.532
H	35.454	55.01	19.453
O	47.053	46.676	13.739
H	47.732	46.67	13.064
H	47.332	47.354	14.354
O	31.363	58.184	1.112
H	31.955	58.462	1.811
H	31.292	57.236	1.222
O	32.7	55.793	4.056
H	33.225	55.29	4.679
H	32.854	55.366	3.214
O	39.08	54.328	8.586
H	39.901	54.493	8.121
H	38.568	55.127	8.459
O	32.627	55.181	1.438
H	33.241	55.374	0.729
H	32.576	54.226	1.459
O	49.543	53.804	14.997
H	49.814	53.564	15.883
H	50.319	54.209	14.61
O	50.736	56.433	1.568
H	51.209	56.91	2.25
H	49.861	56.822	1.568
O	47.888	51.605	8.817
H	47.419	51.772	9.635
H	47.792	50.664	8.673
O	32.087	47.545	3.626
H	32.194	48.48	3.803
H	32.015	47.489	2.673
O	44.013	43.358	2.429
H	44.892	43.736	2.409
H	43.471	43.984	1.948

O	47.741	55.494	12.604
H	48.361	55.842	13.246
H	47.049	55.096	13.131
O	27.692	50.21	8.271
H	27.322	49.465	7.797
H	26.956	50.568	8.767
O	36.031	48.671	9.059
H	35.669	47.955	9.581
H	35.486	49.426	9.278
O	51.764	52.44	10.715
H	51.05	53.032	10.95
H	51.371	51.567	10.747
O	41.297	47.539	7.389
H	41.582	46.74	7.832
H	40.364	47.402	7.225
O	44.58	57.506	8.867
H	44.933	57.341	7.993
H	45.291	57.266	9.462
O	45.089	50.101	2.115
H	45.751	49.692	1.558
H	44.455	49.404	2.285
O	34.519	47.47	5.546
H	34.553	46.732	6.155
H	33.976	47.157	4.822
O	41.894	52.013	3.815
H	42.786	51.696	3.671
H	41.346	51.441	3.278
O	53.941	48.202	3.534
H	53.81	49.057	3.944
H	53.138	48.049	3.037
O	43.476	46.3	4.844
H	44.348	46.05	4.538
H	43.435	45.974	5.743
O	40.385	38.987	15.746
H	39.83	38.608	16.428
H	41.098	39.409	16.225
O	39.572	41.425	14.59
H	40.395	41.628	14.146
H	39.67	40.516	14.872
O	38.139	35.301	53.943
H	38.673	36.089	54.041
H	37.56	35.494	53.206
O	43.694	39.758	59.785
H	43.821	39.665	60.73
H	44.13	40.58	59.565
O	32.787	42.396	59.072
H	31.872	42.125	59.001

H	32.781	43.089	59.732
O	38.497	41.447	53.711
H	38.15	41.448	54.603
H	38.453	40.53	53.438
O	34.287	40.143	55.585
H	33.399	39.935	55.293
H	34.209	41.006	55.993
O	31.597	37.421	54.224
H	31.199	36.988	54.979
H	30.896	37.965	53.863
O	28.408	37.912	62.166
H	27.914	38.537	62.698
H	29.061	37.551	62.765
O	41.549	41.845	62.704
H	42.093	41.074	62.542
H	41.665	42.388	61.924
O	40.939	39.176	58.977
H	41.179	38.286	59.236
H	41.679	39.715	59.256
O	41.694	33.384	52.049
H	41.571	33.127	52.963
H	41.681	32.559	51.564
O	33.379	33.662	49.793
H	33.465	32.709	49.813
H	33.171	33.902	50.696
O	39.926	35.369	58.396
H	39.702	36.158	57.902
H	40.57	35.665	59.04
O	26.928	31.138	61.798
H	27.849	30.882	61.845
H	26.749	31.217	60.861
O	33.177	41.665	48.565
H	33.282	42.261	47.824
H	32.308	41.866	48.913
O	51.209	45.648	51.463
H	50.529	45.499	50.805
H	51.914	46.085	50.984
O	48.374	31.685	58.154
H	48.969	31.601	57.409
H	48.806	32.309	58.736
O	24.305	40.584	46.214
H	24.231	41.524	46.383
H	24.065	40.488	45.292
O	48.158	42.348	57.049
H	47.54	41.633	56.899
H	47.605	43.12	57.175
O	44.282	31.471	60.684

H	44.363	30.967	59.874
H	44.13	32.37	60.392
O	36.74	29.59	64.861
H	37.551	29.188	64.548
H	36.106	28.872	64.871
O	41.476	47.838	48.885
H	41.505	46.907	49.103
H	40.55	48.018	48.724
O	49.482	37.893	54.601
H	49.6	37.915	55.55
H	49.635	36.979	54.362
O	43.74	41.257	41.699
H	43.459	42.172	41.675
H	43.388	40.878	40.894
O	39.04	31.944	52.423
H	38.472	31.431	52.998
H	39.63	32.407	53.018
O	40.676	40.905	56.596
H	40.856	40.228	57.249
H	41.541	41.201	56.314
O	36.997	38.89	54.768
H	36.336	38.499	54.197
H	36.666	39.769	54.95
O	39.1	42.93	58.035
H	39.871	42.415	57.796
H	38.933	43.479	57.269
O	37.653	31.772	46.31
H	38.298	32.231	45.772
H	38.177	31.273	46.937
O	36.075	35.052	52.285
H	35.754	35.916	52.545
H	35.283	34.547	52.105
O	50.365	35.12	54.446
H	50.257	34.22	54.137
H	49.485	35.391	54.707
O	30.387	38.506	50.736
H	29.819	37.948	50.205
H	29.784	39.074	51.216
O	33.575	39.506	59.305
H	34.405	39.163	58.974
H	33.594	40.437	59.084
O	30.079	47.632	57.193
H	30.067	48.146	58.001
H	30.464	48.217	56.542
O	40.408	38.302	45.385
H	40.895	39.116	45.513
H	40.202	38.003	46.271

O	43.549	41.729	56.165
H	44.262	41.092	56.213
H	43.468	41.928	55.232
O	34.633	43.425	52.38
H	34.456	43.895	53.195
H	34.054	42.663	52.412
O	43.935	48.765	54.725
H	44.073	49.263	55.53
H	43.923	49.426	54.033
O	22.975	26.677	51.638
H	23.754	27.219	51.765
H	22.425	26.867	52.398
O	42.832	29.995	55.098
H	43.594	29.546	54.733
H	43.128	30.894	55.241
O	31.502	38.358	58.302
H	30.843	39.032	58.135
H	32.143	38.785	58.87
O	35.143	32.545	60.15
H	35.907	32.81	60.662
H	34.88	33.339	59.684
O	36.932	32.81	54.606
H	36.339	33.112	55.294
H	37.424	33.592	54.354
O	41.072	39.722	53.597
H	41.795	39.318	54.077
H	40.99	40.596	53.978
O	34.354	36.505	55.843
H	34.624	35.628	56.116
H	33.398	36.483	55.879
O	35.473	34.051	56.601
H	34.791	33.392	56.73
H	36.146	33.827	57.244
O	34.795	36.358	61.977
H	35.354	35.923	62.621
H	35.039	35.961	61.141
O	35.12	37.422	53.313
H	34.784	37.113	54.154
H	34.338	37.558	52.778
O	40.511	29.02	51.246
H	40.771	28.128	51.015
H	40.64	29.07	52.193
O	45.804	27.517	66.538
H	46.449	27.618	67.238
H	46.248	27.842	65.755
O	38.12	38.221	43.843
H	38.244	37.612	43.115

H	38.931	38.158	44.348
O	27.599	31.113	52.477
H	27.416	30.177	52.569
H	27.015	31.534	53.108
O	33.9	40.534	51.14
H	33.485	40.488	50.278
H	33.509	39.814	51.633
O	46.07	44.574	52.248
H	46.476	43.707	52.246
H	46.249	44.925	51.375
O	43.389	32.609	55.497
H	43.167	33.407	55.977
H	44.241	32.796	55.102
O	40.218	36.034	51.623
H	40.226	36.504	52.457
H	40.57	35.169	51.833
O	37.873	39.295	58.508
H	37.068	38.889	58.187
H	38.519	38.589	58.497
O	36.83	38.873	51.572
H	36.56	39.629	52.093
H	36.274	38.158	51.883
O	43.769	35.412	45.103
H	42.965	35.153	44.653
H	43.532	35.418	46.031
O	54.416	41.28	52.985
H	53.706	41.071	53.592
H	53.981	41.405	52.142
O	43.196	42.198	53.524
H	43.312	42.29	52.578
H	42.278	42.422	53.676
O	38.367	44.183	55.674
H	38.669	44.931	55.159
H	37.473	44.028	55.371
O	35.697	38.676	45.368
H	35.913	38.711	46.3
H	36.524	38.46	44.939
O	32.014	42.718	53.119
H	32.009	41.878	53.579
H	31.249	42.681	52.545
O	32.918	34.702	52.515
H	32.09	35.011	52.883
H	33.006	33.807	52.842
O	37.164	43.1	51.71
H	37.608	42.31	52.02
H	36.285	43.042	52.083
O	49.76	41.97	50.355

H	49.834	41.119	49.924
H	48.875	42.268	50.146
O	36.092	51.815	49.651
H	35.16	52.025	49.702
H	36.13	51.016	49.126
O	47.312	48.113	49.481
H	46.778	47.724	50.174
H	46.866	47.869	48.67
O	43.152	39.862	47.861
H	42.34	39.966	47.365
H	43.035	39.043	48.343
O	30.56	42.405	48.732
H	30.644	43.283	48.359
H	29.966	41.948	48.137
O	39.307	37.687	53.973
H	38.596	38.186	54.375
H	39.957	38.347	53.733
O	40.971	42.444	48.496
H	40.111	42.368	48.908
H	40.913	41.893	47.716
O	32.685	38.276	51.916
H	32.252	38.233	52.768
H	31.972	38.206	51.281
O	45.547	27.052	58.704
H	46.3	26.463	58.763
H	45.883	27.9	58.995
O	34.596	48.375	52.83
H	34.769	47.944	51.993
H	35.088	49.195	52.783
O	33.521	32.655	53.927
H	33.802	31.938	53.36
H	33.328	32.235	54.766
O	42.991	37.619	62.877
H	43.313	38.394	63.337
H	42.159	37.415	63.304
O	32.623	47.093	47.87
H	32.875	47.153	48.791
H	32.459	47.999	47.607
O	37.122	35.446	48.066
H	37.504	34.865	48.723
H	36.518	36.001	48.56
O	46.533	47.176	52.034
H	46.299	46.254	52.139
H	46.233	47.593	52.842
O	37.374	48.013	63.019
H	38.153	48.254	62.517
H	37.701	47.852	63.904

O	32.263	35.509	57.939
H	32.041	36.425	58.104
H	31.473	35.139	57.544
O	34.396	44.443	50.079
H	33.893	43.834	49.539
H	34.448	44.017	50.935
O	41.405	47.653	54.538
H	42.184	48.154	54.781
H	41.722	47.01	53.905
O	35.789	38.194	48.063
H	35.798	39.076	48.435
H	35.618	37.621	48.81
O	40.714	45.456	46.882
H	40.465	44.585	46.574
H	41.115	45.301	47.738
O	38.115	34.371	50.473
H	38.835	34.859	50.874
H	37.406	34.419	51.114
O	39.981	45.766	43.535
H	39.129	45.516	43.894
H	40.131	46.651	43.869
O	34.431	42.857	46.527
H	34.531	42.133	45.909
H	35.319	43.195	46.646
O	47.538	29.097	50.928
H	46.593	29.233	50.995
H	47.894	29.967	50.749
O	39.143	35.025	46.382
H	38.329	35.206	46.852
H	39.834	35.238	47.008
O	44.632	29.522	50.975
H	44.069	30.075	50.433
H	44.082	29.279	51.72
O	37.644	46.12	60.137
H	38.29	45.438	60.32
H	37.028	46.069	60.868
O	39.825	51.512	49.989
H	39.229	52.128	50.415
H	40.311	51.111	50.71
O	34.808	47.157	50.273
H	33.947	47.573	50.23
H	34.635	46.231	50.103
O	32.362	44.929	55.035
H	31.627	44.437	54.67
H	32.691	45.448	54.301
O	52.137	35.633	48.642
H	52.052	35.803	47.704

H	51.726	34.777	48.768
O	61.111	41.708	56.276
H	61.352	42.503	56.752
H	60.92	42.01	55.388
O	27.188	29.119	55.137
H	27.091	28.554	55.903
H	27.348	29.99	55.5
O	56.279	36.882	59.984
H	56.912	37.024	59.279
H	55.438	36.794	59.536
O	45.497	37.844	52.08
H	45.096	38.344	51.37
H	45.203	36.945	51.936
O	41.85	34.071	43.799
H	41.749	33.177	44.127
H	40.965	34.435	43.822
O	44.455	35.539	50.551
H	45.349	35.551	50.21
H	44.067	34.747	50.18
O	26.997	39.931	45.473
H	27.187	39.002	45.344
H	26.041	39.985	45.452
O	43.293	38.133	54.104
H	42.913	37.309	53.8
H	44.229	38.047	53.922
O	34.705	36.553	49.831
H	34.128	35.888	49.455
H	34.199	36.93	50.551
O	33.069	30.668	50.154
H	34.011	30.654	50.328
H	33	30.928	49.236
O	40.5	33.654	54.439
H	40.835	33.238	55.234
H	39.63	33.969	54.683
O	23.765	36.516	59.927
H	22.89	36.602	60.304
H	24.326	37.041	60.499
O	46.902	36.088	56.304
H	46.179	35.875	56.894
H	46.682	36.953	55.957
O	45.621	31.97	48.328
H	45.484	32.549	47.578
H	46.569	31.839	48.359
O	44.738	39.884	50.186
H	44.383	40.165	49.343
H	44.631	40.646	50.757
O	41.113	48.061	59.019

H	40.813	48.193	59.919
H	41.992	47.695	59.111
O	45.847	46.773	55.089
H	45.141	47.407	55.215
H	45.401	45.962	54.847
O	35.494	40.695	53.255
H	34.882	40.862	52.537
H	34.933	40.531	54.013
O	35.456	46.069	57.209
H	35.986	45.398	57.64
H	35.327	45.737	56.32
O	31.461	29.192	51.955
H	31.772	29.926	51.424
H	31.614	29.469	52.858
O	42.968	35	56.649
H	43.235	35.565	57.374
H	42.345	35.529	56.15
O	44.929	28.093	53.751
H	45.614	27.944	54.403
H	45.115	27.458	53.06
O	41.366	45.434	56.602
H	41.387	46.039	55.861
H	40.604	45.707	57.113
O	33.733	31.205	47.512
H	33.451	31.206	46.598
H	34.613	31.581	47.492
O	37.894	30.402	54.444
H	37.437	29.728	54.948
H	37.392	31.201	54.601
O	44.857	24.517	56.431
H	44.281	23.762	56.554
H	44.455	25.01	55.716
O	43.337	33.29	49.34
H	42.842	32.595	49.776
H	44.085	32.84	48.947
O	35.302	48.598	57.75
H	34.776	48.976	57.045
H	35.39	47.675	57.515
O	35.473	33.212	46.867
H	35.673	34.021	47.337
H	36.326	32.798	46.729
O	37.204	26.326	49.694
H	36.543	25.763	50.099
H	37.292	27.064	50.297
O	52.498	47.907	54.676
H	52.814	47.155	54.175
H	51.648	48.113	54.289

O	31.169	40.828	54.768
H	30.581	40.092	54.939
H	31.092	41.382	55.546
O	38.65	40.759	49.978
H	38.354	39.977	50.444
H	39.592	40.794	50.142
O	40.781	36.208	32.392
H	40.282	36.984	32.138
H	40.33	35.877	33.169
O	46.356	42.686	35.344
H	46.392	43.245	34.568
H	45.589	42.13	35.203
O	31.263	42.734	39.186
H	31.289	43.068	40.083
H	31.92	42.038	39.17
O	36.281	48.062	40.071
H	36.978	48.627	39.738
H	36.737	47.282	40.389
O	43.515	35.366	35.824
H	43.383	36.314	35.825
H	44.17	35.215	36.504
O	46.381	40.762	42.485
H	46.72	41.198	41.703
H	45.435	40.725	42.347
O	48.089	29.675	35.603
H	48.887	29.529	36.111
H	47.39	29.308	36.145
O	30.37	45.139	38.131
H	29.436	44.934	38.177
H	30.804	44.358	38.473
O	45.291	47.099	39.644
H	45.852	46.325	39.68
H	44.533	46.871	40.183
O	44.888	29.346	40.288
H	45.635	29.903	40.068
H	44.142	29.946	40.315
O	37.991	51.15	43.651
H	38.644	50.454	43.586
H	37.47	50.919	44.421
O	49.069	43.526	31.976
H	49.599	42.909	32.48
H	48.183	43.419	32.322
O	45.745	44.122	45.047
H	45.304	43.316	45.317
H	45.038	44.693	44.748
O	47.64	35.813	41.848
H	47.311	36.712	41.831

H	48.577	35.899	41.67
O	43.596	46.087	34.205
H	43.266	46.76	33.61
H	42.959	45.376	34.14
O	48.914	33.242	48.345
H	48.61	32.433	47.934
H	49.844	33.091	48.514
O	44.439	49.962	36.445
H	44.156	50.274	35.585
H	43.73	49.39	36.738
O	32.406	40.32	40.421
H	31.866	39.75	39.874
H	31.958	40.335	41.266
O	38.979	46.582	30.564
H	38.819	45.793	31.082
H	38.233	46.63	29.965
O	32.414	53.49	43.044
H	31.762	52.803	43.184
H	32.789	53.293	42.185
O	45.246	29.039	30.934
H	45.533	28.48	30.212
H	44.919	29.831	30.509
O	42.393	45.349	52.874
H	42.786	45.081	52.043
H	41.671	44.734	53.006
O	30.172	39.183	39.092
H	29.556	39.823	39.449
H	29.641	38.403	38.934
O	55.209	44.247	39.924
H	54.276	44.463	39.938
H	55.291	43.502	40.519
O	42.94	44.814	44.761
H	43.352	44.596	45.596
H	42.389	45.572	44.956
O	47.167	52.115	29.877
H	46.745	52.688	30.517
H	46.576	51.366	29.8
O	34.686	47.429	42.831
H	34.121	46.662	42.747
H	35.54	47.134	42.514
O	47.91	42.62	25.481
H	48.806	42.472	25.784
H	47.474	43.043	26.22
O	45.788	47.525	27.423
H	45.291	47.014	26.784
H	46.514	46.954	27.675
O	43.119	31.199	42.103

H	42.377	31.567	42.584
H	43.089	31.632	41.25
O	31.585	40.729	46.127
H	32.109	39.937	46.245
H	30.828	40.603	46.7
O	45.465	35.302	37.777
H	45.398	35.906	38.517
H	46.405	35.149	37.678
O	48.48	26.994	37.832
H	47.55	27.214	37.87
H	48.868	27.462	38.572
O	42.608	37.765	49.876
H	42.033	37.128	50.3
H	43.453	37.32	49.814
O	42.594	38.48	30.761
H	42.143	39.324	30.758
H	42.001	37.89	30.295
O	33.974	44.756	44.515
H	33.935	44.052	45.162
H	34.433	44.371	43.768
O	38.414	31.573	49.659
H	39.017	31.624	50.401
H	38.139	32.477	49.511
O	42.785	40.154	44.042
H	43.051	40.693	43.296
H	43.524	39.564	44.186
O	40.696	34.671	36.746
H	40.79	33.756	37.01
H	41.535	34.89	36.341
O	39.189	29.698	47.708
H	39.466	28.811	47.935
H	38.944	30.094	48.545
O	29.385	38.667	43.087
H	28.78	38.3	42.444
H	29.491	37.975	43.74
O	46.159	44.662	38.802
H	46.957	44.545	38.286
H	45.53	45.039	38.187
O	35.892	40.677	48.842
H	34.987	40.962	48.719
H	36.191	41.155	49.615
O	37.592	41.298	46.87
H	37.07	40.931	47.584
H	37.346	42.223	46.845
O	40.284	46.864	41.12
H	40.32	46.345	41.924
H	40.224	47.77	41.423

O	43.927	40.343	28.401
H	44.309	41.209	28.259
H	43.949	40.225	29.351
O	42.549	32.597	39.944
H	42.274	31.867	39.389
H	41.806	33.2	39.934
O	50.494	43.544	35.402
H	51.161	43.287	36.039
H	50.824	44.359	35.025
O	43.996	42.4	38.283
H	44.388	43.053	38.863
H	44.436	41.581	38.513
O	35.948	43.758	39.501
H	35.352	43.138	39.922
H	35.616	43.841	38.607
O	36.172	42.653	42.784
H	35.962	42.134	42.008
H	35.729	42.2	43.502
O	43.086	50.22	24.315
H	42.354	50.719	23.954
H	42.872	49.307	24.125
O	40.551	43.265	45.17
H	41.145	43.693	44.554
H	39.809	42.985	44.634
O	38.229	44.222	32.353
H	37.954	43.556	32.984
H	37.862	43.927	31.519
O	37.014	43.901	46.58
H	37.337	44.432	45.852
H	37.071	44.479	47.341
O	43.933	45.827	50.353
H	43.705	45.336	49.563
H	44.884	45.743	50.42
O	35.101	40.044	34.238
H	35.157	40.477	33.386
H	35.133	39.109	34.034
O	42.797	36.413	38.766
H	43.214	35.89	38.081
H	43.398	36.358	39.509
O	46.664	36.366	30.52
H	46.259	36.3	31.385
H	46.055	35.913	29.936
O	37.089	42.563	30.604
H	37.679	41.912	30.225
H	36.814	43.099	29.859
O	34.703	44.126	37.039
H	35.076	44.248	36.166

H	33.938	44.702	37.055
O	45.567	38.942	34.101
H	46.346	38.857	34.65
H	44.935	38.334	34.485
O	41.454	40.119	35.85
H	41.831	40.616	35.124
H	41.414	40.745	36.573
O	44.219	37.387	43.443
H	44.03	36.828	44.197
H	43.889	36.895	42.691
O	36.368	49.362	37.151
H	36.522	49.813	37.981
H	35.468	49.043	37.215
O	41.037	50.075	51.786
H	41.36	50.655	52.476
H	41.668	49.356	51.762
O	37.734	45.883	27.338
H	37.217	46.017	28.132
H	37.789	46.751	26.938
O	40.716	42.903	54.082
H	39.947	42.486	53.694
H	40.439	43.143	54.966
O	42.906	46.499	40.689
H	41.989	46.593	40.433
H	42.917	46.707	41.624
O	46.59	44.678	33.46
H	46.316	45.138	32.667
H	47.104	45.323	33.945
O	26.29	37.218	41.705
H	26.723	37.024	40.874
H	25.682	36.49	41.834
O	36.699	45.443	41.558
H	36.645	44.839	42.298
H	36.397	44.931	40.808
O	43.097	35.331	47.521
H	42.342	35.756	47.927
H	43.267	34.567	48.073
O	38.698	38.466	47.969
H	38.49	39.33	48.326
H	37.845	38.067	47.798
O	49.445	45.662	49.442
H	49.393	46.477	48.942
H	48.938	45.033	48.929
O	34.772	41.554	40.125
H	33.89	41.335	40.427
H	35.259	40.733	40.191
O	38.677	41.649	43.971

H	37.958	41.734	43.345
H	38.309	41.135	44.69
O	39.766	34.179	40.135
H	39.086	33.517	40.261
H	39.473	34.924	40.66
O	35.214	50.821	41.245
H	35.459	50.08	40.691
H	35.203	50.464	42.133
O	39.026	37.16	41.363
H	39.496	37.979	41.523
H	39.26	36.922	40.466
O	39.771	30.675	41.647
H	39.991	30.044	42.333
H	40.499	30.619	41.028
O	38.985	48.338	39.231
H	39.514	47.601	39.538
H	39.146	48.372	38.288
O	45.458	49.9	28.895
H	44.745	50.35	29.349
H	45.029	49.443	28.17
O	31.356	49.19	34.056
H	31.497	49.386	33.13
H	31.94	48.453	34.237
O	33.773	47.325	39.342
H	34.727	47.242	39.339
H	33.541	47.391	40.268
O	47.147	48.942	46.044
H	47.476	48.494	45.265
H	46.59	48.294	46.475
O	51.479	45.951	34.551
H	51.564	46.801	34.983
H	50.931	46.125	33.786
O	44.674	41.249	32.51
H	44.901	40.424	32.937
H	45.421	41.439	31.943
O	47.694	43.746	42.824
H	47.449	43.104	42.158
H	47.123	43.549	43.567
O	45.103	36.878	40.412
H	44.861	36.19	41.032
H	45.853	37.314	40.817
O	48.813	36.088	23.18
H	48.333	35.264	23.264
H	48.494	36.469	22.362
O	42.947	42.368	30.479
H	42.27	41.715	30.657
H	43.486	42.375	31.269

O	48.144	39.644	44.256
H	48.66	39.27	43.542
H	47.508	40.211	43.82
O	46.754	30.844	39.253
H	47.185	31.495	39.806
H	46.626	31.288	38.415
O	41.286	42.003	38.081
H	42.223	42.196	38.042
H	40.994	42.399	38.902
O	42.593	39.108	40.222
H	42.593	38.234	39.833
H	41.964	39.05	40.941
O	52.424	33.58	27.407
H	52.587	33.281	26.512
H	51.7	34.201	27.323
O	45.049	39.589	39.099
H	44.256	39.269	39.527
H	45.595	38.81	38.992
O	43.419	38.257	36.164
H	42.864	39.032	36.076
H	43.89	38.392	36.987
O	43.492	36.073	31.188
H	43.349	37.004	31.02
H	42.691	35.783	31.624
O	48.995	35.626	39.029
H	48.962	35.426	38.093
H	49.908	35.478	39.274
O	41.984	47.21	36.159
H	41.206	46.657	36.229
H	42.515	46.793	35.481
O	34.647	40.846	44.118
H	34.978	40.153	44.689
H	33.792	40.528	43.827
O	42.697	48.737	38.445
H	42.254	48.249	37.75
H	43.046	48.061	39.027
O	33.504	32.944	39.79
H	34.448	33.096	39.747
H	33.332	32.766	40.714
O	36.156	33.9	39.835
H	36.778	33.574	40.485
H	36.7	34.336	39.18
O	47.595	49.587	35.46
H	47.319	49.18	36.281
H	48.446	49.977	35.66
O	29.127	40.52	47.203
H	29.25	39.582	47.349

H	28.313	40.58	46.704
O	41.777	29.804	39.71
H	42.435	29.427	39.126
H	41.608	29.117	40.355
O	51.012	28.007	42.769
H	51.695	27.557	43.266
H	50.246	27.438	42.844
O	45.397	47.272	47.621
H	44.569	47.697	47.847
H	45.214	46.336	47.7
O	30.685	42.785	44.587
H	29.812	43.042	44.883
H	31.019	42.222	45.286
O	36.097	45.167	34.951
H	36.762	45.758	34.599
H	36.378	44.296	34.67
O	38.874	44.996	38.861
H	38.583	45.298	39.722
H	38.556	44.095	38.803
O	37.745	35.164	38.12
H	38.58	35.603	38.284
H	37.941	34.523	37.436
O	48.533	41.3	35.848
H	47.773	41.86	35.689
H	49.263	41.91	35.95
O	43.967	31.241	36.016
H	44.759	31.705	36.289
H	44.27	30.62	35.353
O	31.838	54.06	35.348
H	31.295	53.273	35.305
H	31.701	54.396	36.234
O	41.628	32.206	37.075
H	41.275	31.318	37.017
H	42.446	32.171	36.579
O	50.965	35.878	34.423
H	50.011	35.943	34.401
H	51.225	36.422	35.167
O	38.916	52.665	47.511
H	39.191	51.851	47.089
H	39.069	52.515	48.444
O	44.641	45.55	36.942
H	44.571	45.92	36.061
H	43.904	44.942	37.005
O	40.009	51.661	28.29
H	40.149	51.159	29.093
H	40.314	51.084	27.59
O	39.45	26.972	47.949

H	39.028	26.942	48.807
H	38.807	26.589	47.352
O	43.319	34.974	41.662
H	43.493	34.195	41.135
H	42.906	34.637	42.458
O	45.541	33.156	16.876
H	46.367	33.53	17.182
H	45.588	33.221	15.922
O	40.665	43.676	22.967
H	40.223	43.495	22.138
H	40.933	44.593	22.901
O	43.332	47.913	19.515
H	43.458	48.44	18.725
H	44.176	47.951	19.965
O	31.449	40.456	13.709
H	31.987	40.396	14.498
H	31.412	41.393	13.516
O	38.052	40.866	22.899
H	38.816	40.746	23.464
H	38.393	41.326	22.131
O	47.721	38.724	21.862
H	47.124	38.116	22.298
H	47.227	39.541	21.799
O	35.786	44.878	14.973
H	36.05	44.796	14.056
H	35.647	45.817	15.098
O	43.03	34.194	19.661
H	43.327	33.285	19.619
H	43.405	34.604	18.882
O	28.726	41.767	12.795
H	29.223	42.182	13.5
H	27.813	41.98	12.989
O	45.873	40.744	20.894
H	45.452	39.89	20.99
H	45.418	41.307	21.52
O	42.85	35.491	22.108
H	41.997	35.922	22.158
H	42.831	35.018	21.276
O	41.295	49.462	20.593
H	41.734	48.705	20.205
H	40.75	49.094	21.288
O	47.286	35.547	12.729
H	47.286	36.17	13.457
H	47.143	36.087	11.952
O	39.593	46.584	24.405
H	39.409	45.666	24.604
H	39.403	47.049	25.22

O	52.847	37.468	19.686
H	52.593	37.479	20.609
H	53.093	38.373	19.494
O	39.549	35.015	15.668
H	39.28	35.633	16.348
H	40.493	35.148	15.584
O	36.789	38.625	22.531
H	36.868	38.35	23.445
H	37.136	39.517	22.518
O	49.285	38.497	24.414
H	49.296	37.778	23.782
H	48.841	38.135	25.181
O	42.793	41.928	10.734
H	43.273	42.278	9.984
H	42.101	41.391	10.346
O	43.56	43.345	18.927
H	42.851	43.889	18.585
H	43.22	42.999	19.752
O	48.413	32.732	14.189
H	47.526	33.084	14.113
H	48.964	33.367	13.732
O	49.951	46.148	32.471
H	49.602	45.272	32.308
H	49.228	46.622	32.882
O	51.337	41.983	30.438
H	51.15	41.095	30.132
H	51.21	41.942	31.385
O	44.921	54.723	21.404
H	44.521	54.032	21.932
H	45.827	54.44	21.284
O	48.524	48.757	23.989
H	47.803	49.341	23.754
H	48.395	47.984	23.438
O	36.855	48.267	21.103
H	37.161	47.461	20.688
H	36.321	48.694	20.433
O	44.138	48.616	16.474
H	44.143	49.106	15.652
H	43.389	48.026	16.397
O	38.901	43.063	20.991
H	39.272	43.094	20.109
H	38.049	42.642	20.877
O	46.127	32.01	31.383
H	46.903	31.471	31.226
H	46.475	32.878	31.587
O	34.629	36.161	18.472
H	34.162	35.582	17.869

H	34.2	36.023	19.316
O	36.649	38.097	15.168
H	36.156	37.296	14.989
H	37.055	37.943	16.021
O	28.227	46.479	8.707
H	28.645	45.687	8.37
H	28.84	46.813	9.363
O	40.609	37.466	20.215
H	41.163	38.128	20.63
H	39.999	37.198	20.902
O	37.239	36.154	20.952
H	37.998	35.929	21.49
H	36.62	36.55	21.565
O	41.454	51.292	14.733
H	40.868	51.375	15.485
H	40.878	51.056	14.005
O	49.296	38.25	9.923
H	48.444	38.683	9.982
H	49.247	37.736	9.116
O	45.354	41.937	23.83
H	46.276	42.145	23.984
H	45.186	41.171	24.379
O	51.168	37.395	12.231
H	50.676	37.863	11.556
H	51.833	38.021	12.519
O	38.172	46.23	19.209
H	38	45.367	18.831
H	39.126	46.303	19.217
O	36.417	40.873	16.36
H	36.383	39.982	16.708
H	37.335	41.131	16.449
O	29.73	35.441	12.516
H	29.48	35.877	11.701
H	28.899	35.193	12.92
O	37.081	41.59	13.567
H	36.48	41.226	14.218
H	37.88	41.779	14.058
O	46.156	43.949	12.074
H	46.862	44.351	12.579
H	45.693	44.687	11.679
O	38.233	42.151	25.485
H	37.743	42.974	25.494
H	37.941	41.708	24.688
O	29.899	44.295	11.32
H	28.951	44.164	11.345
H	30.11	44.341	10.388
O	45.476	46.6	22.937

H	46.315	46.22	22.678
H	45.301	47.268	22.274
O	40.156	44.243	12.952
H	40.375	44.342	12.025
H	40.311	43.316	13.136
O	34.694	38.695	11.389
H	35.616	38.445	11.449
H	34.298	38.021	10.837
O	43.829	42.708	15.038
H	43.942	42.238	15.864
H	44.423	43.455	15.104
O	36.655	37.949	18.177
H	35.917	37.375	18.379
H	36.574	38.672	18.8
O	42.02	35.705	14.651
H	42.454	35.026	14.134
H	42.738	36.225	15.013
O	32.196	39.342	7.981
H	31.421	39.7	7.549
H	32.928	39.624	7.432
O	44.054	51.371	20.289
H	44.355	51.827	21.074
H	43.286	50.878	20.578
O	35.328	51.682	21.277
H	35.541	50.942	20.709
H	35.141	51.285	22.128
O	28.883	38.939	16.546
H	29.494	38.315	16.938
H	29.148	38.988	15.628
O	39.152	40.836	4.399
H	40.087	41.041	4.378
H	38.975	40.439	3.547
O	39.427	40.686	27.41
H	38.962	41.285	26.826
H	39.062	40.864	28.276
O	44.936	38.257	20.406
H	44.794	37.643	21.127
H	44.27	38.026	19.759
O	39.757	43.507	9.429
H	38.8	43.51	9.405
H	40.012	42.881	8.751
O	37.524	36.961	9.825
H	36.665	36.544	9.889
H	37.704	37.276	10.711
O	40.179	37.546	13.515
H	40.207	38.014	14.349
H	40.678	36.745	13.672

O	41.488	42.909	28.084
H	42.399	43.126	27.888
H	41.511	42.557	28.974
O	38.78	34.414	13.338
H	38.075	35.061	13.301
H	39.105	34.464	14.236
O	40.932	35.044	11.264
H	41.098	35.954	11.019
H	40.275	35.099	11.958
O	34.945	35.904	14.854
H	34.042	35.613	14.981
H	35.477	35.217	15.254
O	36.613	44.634	24.813
H	36.625	45.155	25.616
H	36.415	45.265	24.121
O	34.859	30.94	14.649
H	33.982	31.168	14.34
H	34.773	30.888	15.6
O	37.753	50.32	14.357
H	37.088	50.458	13.682
H	38.066	51.199	14.568
O	37.287	44.305	17.179
H	37.811	43.504	17.158
H	36.879	44.347	16.314
O	33.326	40.678	15.773
H	33.428	41.629	15.734
H	33.935	40.345	15.114
O	47.107	40.478	18.392
H	46.812	40.474	19.302
H	47.898	39.939	18.394
O	54.468	32.281	9.511
H	55.195	32.81	9.839
H	53.759	32.434	10.135
O	45.385	33.958	14.235
H	45.98	34.065	13.493
H	44.512	34.065	13.859
O	41.481	39.715	21.271
H	40.977	39.981	22.04
H	42.221	40.322	21.248
O	44.501	39.677	25.423
H	44.732	38.877	25.895
H	43.554	39.755	25.533
O	44.433	37.191	15.345
H	45.377	37.15	15.501
H	44.317	37.956	14.78
O	39.177	37.403	17.943
H	39.574	37.509	18.808

H	38.246	37.573	18.085
O	47.831	38.951	30.306
H	47.28	38.194	30.506
H	47.568	39.211	29.423
O	37.355	34.721	18.655
H	37.235	35.349	19.367
H	36.614	34.879	18.07
O	47.763	33.124	22.815
H	47.896	32.314	22.322
H	46.83	33.313	22.718
O	42.915	37.556	18.732
H	43.175	36.803	18.202
H	42.118	37.272	19.179
O	51.179	32.731	15.491
H	50.393	32.325	15.125
H	50.846	33.411	16.076
O	49.505	37.405	20.392
H	48.817	37.931	20.8
H	50.033	38.038	19.904
O	50.917	35.169	10.607
H	51.05	35.921	11.184
H	51.068	35.513	9.727
O	48.326	47.818	19.229
H	48.462	46.924	19.542
H	49.146	48.046	18.79
O	50.348	41.931	26.532
H	51.025	42.608	26.551
H	50.824	41.113	26.673
O	48.352	46.647	22.148
H	48.49	45.779	22.526
H	49.142	46.812	21.633
O	34.792	43.32	22.691
H	35.184	43.401	23.561
H	34.332	44.149	22.558
O	38.738	46.267	14.561
H	38.827	45.432	14.102
H	39.383	46.839	14.146
O	43.655	35.177	17.241
H	43.854	35.922	16.672
H	44.345	34.541	17.051
O	44.41	30.333	22.323
H	44.513	29.86	23.149
H	44.005	31.164	22.572
O	35.36	44.39	19.28
H	36.217	44.401	18.854
H	34.754	44.111	18.593
O	42.608	47.971	27.69

H	42.006	48.123	28.419
H	43.386	47.59	28.098
O	51.209	43.728	16.317
H	50.276	43.617	16.501
H	51.397	43.081	15.637
O	37.918	53.375	14.536
H	38.206	53.859	15.31
H	38.457	53.72	13.824
O	39.391	48.686	22.523
H	38.533	48.813	22.119
H	39.289	47.9	23.06
O	42.098	47.788	24.12
H	41.863	47.547	23.224
H	41.399	47.418	24.659
O	38.705	43.45	1.891
H	38.29	42.772	1.358
H	38.824	43.041	2.749
O	37.396	40.954	-2.97
H	37.363	41.523	-2.201
H	38.093	40.328	-2.776
O	30.796	37.384	4.32
H	31.034	36.548	3.92
H	30.579	37.163	5.226
O	42.672	43.502	-1.277
H	42.201	43.959	-1.973
H	43.166	42.818	-1.73
O	32.761	44.373	2.031
H	33.633	44.559	2.379
H	32.309	45.217	2.056
O	37.682	33.93	-0.877
H	37.11	34.548	-0.422
H	38.548	34.338	-0.846
O	39.576	50.788	1.817
H	39.825	50.061	2.388
H	38.883	50.43	1.262
O	40.937	40.88	8.944
H	40.076	40.461	8.917
H	41.234	40.875	8.034
O	27.028	34.573	12.846
H	26.817	33.657	13.025
H	26.25	34.916	12.405
O	44.342	30.438	-1.178
H	43.436	30.373	-1.479
H	44.734	29.597	-1.414
O	35.094	31.892	6.674
H	35.651	32.541	7.104
H	35.432	31.049	6.976

O	35.709	43.715	-3.631
H	36.03	43.731	-2.729
H	34.889	43.222	-3.585
O	49.332	36.795	3.333
H	48.674	36.21	2.958
H	49.85	36.234	3.91
O	37.307	27.566	0.818
H	37.559	26.714	1.175
H	38.005	28.158	1.097
O	31.322	34.835	3.862
H	30.917	34.362	3.135
H	32.254	34.625	3.794
O	50.693	28.358	0.405
H	50.688	29.071	-0.233
H	50.53	27.57	-0.114
O	37.472	25.577	5.182
H	37.867	24.905	4.626
H	37.087	25.089	5.91
O	38.757	49.063	9.48
H	39.013	48.569	10.259
H	37.882	48.738	9.267
O	42.763	45.737	0.412
H	43.039	45.053	-0.198
H	42.504	45.264	1.202
O	46.764	32.051	2.529
H	46.278	32.065	3.353
H	46.115	31.797	1.873
O	33.461	38.296	4.187
H	32.543	38.042	4.089
H	33.944	37.647	3.675
O	37.66	54.261	5.716
H	38.234	53.563	5.399
H	37.674	54.168	6.668
O	44.324	38.797	6.65
H	43.881	38.369	7.383
H	44.729	38.08	6.163
O	49.153	39.573	3.073
H	49.134	38.644	2.844
H	50.083	39.796	3.098
O	43.536	36.944	-0.857
H	42.844	36.951	-0.195
H	44.056	37.725	-0.669
O	35.511	37.611	6.064
H	34.951	37.74	5.299
H	35.03	36.988	6.61
O	41.862	45.235	2.963
H	40.951	45.274	3.255

H	42.375	45.346	3.763
O	33.376	30.911	9.543
H	32.488	31.262	9.488
H	33.304	30.167	10.14
O	48.759	43.275	8.893
H	48.542	42.562	8.292
H	49.549	43.669	8.522
O	33.78	42.45	12.768
H	33.903	41.523	12.977
H	34.654	42.759	12.53
O	34.317	31.85	-1.645
H	34.72	31.849	-0.777
H	34.061	30.939	-1.791
O	41.835	37.626	8.417
H	40.915	37.368	8.361
H	41.882	38.181	9.195
O	48.883	41.946	11.736
H	49.009	42.889	11.634
H	47.962	41.802	11.519
O	31.406	42.966	6.889
H	31.617	42.089	6.567
H	32.252	43.341	7.136
O	46.505	36.904	10.297
H	46.598	37.849	10.419
H	46.694	36.762	9.37
O	44.57	43.025	8.637
H	45.262	43.681	8.547
H	44.99	42.2	8.394
O	48.682	33.648	11.604
H	49.482	33.942	11.168
H	48.408	34.397	12.133
O	24.833	43.516	4.366
H	25.169	44.098	5.048
H	25.366	43.715	3.597
O	35.11	35.297	-0.025
H	34.252	35.119	-0.408
H	35.322	36.184	-0.315
O	34.898	43.78	4.414
H	35.433	42.989	4.35
H	34.878	43.98	5.35
O	41.993	37.844	11.238
H	41.413	37.889	11.999
H	42.83	38.185	11.554
O	46.879	39.576	10.197
H	46.545	40.121	10.909
H	46.525	39.975	9.403
O	32.736	31.542	5.289

H	33.45	31.953	5.776
H	33.137	31.26	4.467
O	29.684	41.164	10.186
H	30.266	41.923	10.174
H	29.124	41.304	10.95
O	22.37	38.598	10.965
H	21.897	37.823	11.267
H	21.697	39.273	10.881
O	35.258	35.218	10.008
H	34.765	34.413	10.169
H	34.617	35.819	9.628
O	22.905	33.693	2.897
H	22.598	32.786	2.876
H	23.741	33.674	2.431
O	39.403	36.095	8.159
H	38.85	36.269	8.92
H	39.048	36.657	7.471
O	35.987	34.638	4.582
H	36.379	33.83	4.25
H	36.379	34.757	5.446
O	37.062	32.28	3.428
H	36.814	31.853	4.248
H	38.019	32.257	3.426
O	39.404	35.452	3.156
H	39.828	35.314	4.003
H	38.467	35.458	3.355
O	49.086	33.349	8.549
H	48.363	32.802	8.858
H	48.964	34.184	9
O	44.263	36.199	7.96
H	44.609	35.884	8.796
H	43.325	36.308	8.114
O	38.46	42.303	6.939
H	38.484	41.472	6.466
H	37.564	42.618	6.824
O	35.007	26.26	3.971
H	34.452	25.559	4.315
H	35.884	26.05	4.292
O	38.038	37.131	-2.596
H	37.586	37.869	-3.005
H	38.099	36.474	-3.289
O	32.183	43.068	10.399
H	32.771	42.559	10.958
H	31.694	43.621	11.008
O	35.992	44.913	12.323
H	35.175	45.014	11.834
H	36.471	45.725	12.16

O	28.85	36.835	10.292
H	28.446	37.423	10.931
H	29.613	37.318	9.972
O	32.569	37.371	15.757
H	33.071	38.071	16.175
H	32.998	36.565	16.045
O	38.246	39.397	8.582
H	38.006	39.975	9.306
H	37.904	38.54	8.837
O	49.841	39.98	18.091
H	50.429	40.63	18.478
H	50.291	39.694	17.296
O	45.486	49.438	6.793
H	44.647	49.457	6.333
H	46.139	49.566	6.104
O	40.136	48.461	3.807
H	40.472	48.926	4.573
H	40.112	47.543	4.076
O	43.24	47.879	2.295
H	43.816	47.203	1.939
H	42.515	47.393	2.689
O	42.355	45.33	9.201
H	41.65	44.688	9.283
H	43.13	44.878	9.535
O	30.365	28.624	12.671
H	30.244	29.573	12.711
H	31.253	28.51	12.332
O	35.474	42.092	8.872
H	34.91	41.352	8.645
H	36.152	41.714	9.431
O	41.435	45.608	19.125
H	42.17	46.174	19.361
H	41.085	45.992	18.322
O	46.16	40.773	7.698
H	46.907	40.938	7.122
H	45.636	40.123	7.229
O	46.311	38.901	-1.136
H	46.092	39.693	-0.645
H	46.78	38.351	-0.507
O	41.755	32.686	5.914
H	42.156	31.817	5.909
H	42.381	33.236	6.385
O	50.049	41.999	-0.304
H	50.85	42.312	-0.724
H	49.351	42.23	-0.918
O	44.745	44.307	-4.622
H	44.096	43.646	-4.863

H	45.279	44.417	-5.409
O	27.457	53.316	5.012
H	27.457	54.252	4.815
H	27.02	52.913	4.261
O	35.35	44.978	6.969
H	34.543	44.876	7.472
H	36.014	45.197	7.623
O	48.511	43.164	15.478
H	48.133	42.388	15.066
H	47.795	43.535	15.993
O	42.253	47.62	11.119
H	42.968	48.196	10.849
H	41.926	47.243	10.302
O	33.452	37.195	9.34
H	32.826	36.502	9.131
H	33.089	37.979	8.929
O	36.586	36.02	12.598
H	36.135	35.661	11.834
H	35.911	36.062	13.276
O	38.053	37.792	6.552
H	38.249	38.639	6.954
H	37.111	37.82	6.383
O	32.326	37.419	12.425
H	33.135	37.896	12.242
H	31.704	37.744	11.774
O	41.347	42.467	0.785
H	40.644	43.114	0.843
H	41.949	42.826	0.133
O	42.234	40.757	6.366
H	42.97	40.145	6.378
H	42.342	41.245	5.55
O	33.284	34.9	12.291
H	32.985	35.805	12.206
H	33.059	34.657	13.189
O	38.369	30.335	8.043
H	37.789	29.79	7.511
H	37.84	31.1	8.267
O	46.288	45.273	5.756
H	47.14	45.323	5.322
H	45.837	44.553	5.317
O	40.543	44.194	6.144
H	41.38	43.754	5.997
H	40.037	43.575	6.67
O	40.588	37.777	4.958
H	39.869	38.37	5.175
H	40.236	36.903	5.126
O	35.008	39.587	13.799

H	34.942	39.161	12.944
H	35.676	39.085	14.266
O	29.369	37.299	6.589
H	29.642	38.018	7.159
H	28.644	36.885	7.056
O	42.525	39.986	17.71
H	43.373	40.399	17.548
H	42.741	39.148	18.12
O	37.229	40.933	10.851
H	37.129	41.517	11.603
H	37.347	40.065	11.237
O	36.593	41.51	4.569
H	37.45	41.097	4.464
H	36.033	41.065	3.934
O	31.601	42.133	3.044
H	32.253	42.109	3.745
H	31.749	42.972	2.608
O	45.998	43.908	-2.163
H	46.4	44.774	-2.092
H	45.432	43.969	-2.933
O	28.046	36.976	-1.811
H	27.517	37.402	-2.485
H	28.225	37.668	-1.174
O	57.031	40.056	-0.509
H	57.866	40.226	-0.073
H	57.247	39.447	-1.215
O	47.283	36.652	7.876
H	46.562	36.781	7.259
H	48.07	36.854	7.37
O	34.853	40.255	2.889
H	34.392	39.584	3.393
H	34.201	40.578	2.267
O	47.187	28.667	5.169
H	48.058	28.27	5.185
H	46.894	28.564	4.263
O	45.672	30.56	11.967
H	45.635	29.689	11.572
H	46.489	30.936	11.64
O	47.646	34.85	1.727
H	48.455	34.53	1.328
H	47.257	34.076	2.133
O	47.65	37.199	0.549
H	48.604	37.169	0.466
H	47.416	36.35	0.923
O	27.922	33.043	4.69
H	28.771	32.609	4.775
H	27.533	32.656	3.906

O	45.913	41.668	-0.231
H	45.801	42.349	-0.894
H	46.481	42.066	0.428
O	42.424	30.133	6.297
H	41.612	29.641	6.42
H	42.53	30.189	5.348
O	31.6	29.524	7.559
H	32.504	29.508	7.871
H	31.57	30.262	6.949
O	39.548	45.731	3.996
H	39.726	45.048	4.643
H	38.758	45.434	3.545
O	43.015	48.999	5.725
H	42.589	48.572	6.468
H	43.244	48.281	5.135
O	45.334	34.123	6.653
H	44.815	34.708	7.205
H	45.894	33.648	7.268
O	37.856	38.379	12.007
H	37.633	37.471	12.213
H	38.736	38.496	12.365
O	50.207	48.124	0.026
H	50.799	48.557	-0.589
H	49.397	48.631	-0.024
O	37.247	31.875	13.396
H	36.37	31.886	13.779
H	37.64	32.703	13.673
O	33.097	50.784	6.834
H	33.573	50.814	7.664
H	32.773	51.677	6.712
O	43.194	33.135	8.703
H	43.927	32.551	8.507
H	43.555	33.774	9.318
O	45.925	36.778	5.33
H	46.81	36.558	5.039
H	45.449	35.948	5.3
O	47.498	46.33	-2.023
H	48.276	46.208	-2.568
H	46.892	46.82	-2.578
O	37.181	51.334	8.017
H	36.92	50.486	8.377
H	38.016	51.162	7.582
O	30.524	50.164	5.862
H	30.203	49.303	6.129
H	31.475	50.103	5.949
O	43.348	43.83	6.296
H	43.57	43.543	7.182

H	44.106	43.582	5.767
O	40.487	32.964	9.615
H	41.255	33.08	9.056
H	40.465	33.751	10.159
O	47.261	28.366	2.447
H	47.971	28.929	2.139
H	47.494	27.493	2.132
O	46.075	32.576	-2.63
H	45.192	32.57	-2.26
H	46.653	32.493	-1.872
O	48.889	24.248	-3.699
H	49.392	23.526	-3.322
H	49.204	24.315	-4.6
O	39.967	48.095	12.716
H	40.724	47.695	12.287
H	40.103	49.036	12.612
O	33.181	29.613	11.934
H	33.409	30.524	12.12
H	33.964	29.117	12.171
O	42.968	33.602	12.858
H	42.211	33.964	12.398
H	43.001	32.686	12.58
O	45.369	42.938	4.746
H	44.964	43.098	3.893
H	46.062	42.303	4.567
O	36.504	21.86	53.376
H	36.472	22.09	54.305
H	35.76	22.321	52.99
O	42.018	23.758	53.365
H	42.122	22.852	53.075
H	42.914	24.08	53.468
O	31.929	24.559	63.512
H	32.786	24.172	63.33
H	31.622	24.871	62.66
O	42.704	20.333	51.682
H	42.628	21.035	51.036
H	43.431	20.602	52.243
O	41.031	26.446	51.47
H	40.533	25.632	51.398
H	41.946	26.174	51.388
O	30.126	15.218	61.017
H	30.922	15.568	61.417
H	30.109	15.603	60.141
O	30.165	21.797	63.879
H	29.736	22.516	64.344
H	29.981	21.967	62.955
O	30.712	23.528	54.097

H	30.607	24.017	53.281
H	30.406	22.645	53.888
O	36.6	23.359	58.818
H	37.001	22.793	59.478
H	37.323	23.596	58.236
O	42.553	20.872	58.229
H	43.153	21.401	58.754
H	42.585	21.267	57.358
O	38.168	8.302	55.525
H	39.046	8.25	55.902
H	38.01	7.431	55.162
O	41.316	11.141	59.583
H	41.04	11.752	60.267
H	40.868	11.447	58.794
O	35.438	20.998	67.35
H	35.486	20.851	68.295
H	35.352	20.122	66.975
O	29.641	21.051	53.501
H	30.343	20.548	53.089
H	28.947	20.41	53.658
O	41.534	18.549	54.824
H	40.858	19.015	55.317
H	41.21	17.65	54.763
O	41.559	18.625	60.871
H	40.947	18.831	60.165
H	41.15	17.898	61.34
O	27.964	28.239	52.096
H	28.663	27.603	52.249
H	27.964	28.371	51.148
O	50.56	29.919	57.319
H	50.36	30.768	56.925
H	51.297	29.585	56.807
O	52.929	11.713	59.532
H	52.187	11.107	59.547
H	53.576	11.285	58.972
O	36.571	17.965	57.196
H	36.316	17.046	57.12
H	36.272	18.366	56.38
O	36.272	29.196	56.317
H	36.425	28.269	56.5
H	36.609	29.651	57.089
O	47.162	17.709	52.789
H	46.599	16.936	52.753
H	46.588	18.408	53.104
O	41.031	18.056	51.281
H	41.4	17.776	50.444
H	41.492	18.869	51.487

O	34.163	16.879	53.408
H	34.023	16.392	54.22
H	34.447	16.217	52.778
O	38.727	20.079	49.277
H	38.917	19.822	48.375
H	37.775	20.177	49.304
O	29.759	20.276	57.77
H	28.84	20.44	57.561
H	30.145	19.99	56.942
O	36.32	26.832	57.48
H	36.855	27.064	58.239
H	35.469	26.596	57.849
O	38.499	21.532	45.411
H	38.791	22.28	45.933
H	37.662	21.81	45.04
O	40.448	29.271	54.148
H	41.298	29.56	54.479
H	39.831	29.93	54.465
O	41.748	15.373	52.226
H	41.565	16.06	51.585
H	41.767	15.829	53.067
O	35.405	18.723	54.844
H	35.767	19.216	54.107
H	34.791	18.109	54.443
O	30.115	17.857	62.582
H	30.966	17.422	62.636
H	30.221	18.503	61.884
O	34.796	28.536	61.297
H	34.688	27.844	61.95
H	35.702	28.449	61.003
O	47.212	23.249	50.625
H	47.798	23.992	50.479
H	46.333	23.624	50.58
O	31.871	29.903	54.752
H	31.054	30.096	55.212
H	32.482	29.651	55.444
O	49.709	22.606	49.411
H	49.617	21.818	48.876
H	48.845	22.732	49.803
O	37.696	28.544	51.663
H	37.737	28.123	52.522
H	38.104	29.4	51.795
O	35.132	16.219	62.349
H	35.511	16.171	61.471
H	35.181	17.147	62.58
O	36.426	12.351	56.035
H	35.744	12.095	55.415

H	36.206	11.883	56.84
O	36.022	16.86	59.902
H	35.841	15.988	59.551
H	36.834	17.127	59.472
O	39.79	22.623	54.419
H	40.436	23.162	53.962
H	39.428	22.055	53.74
O	41.814	15.773	55.026
H	42.294	14.97	54.826
H	42.279	16.151	55.773
O	39.007	15.214	56.829
H	38.661	15.926	57.368
H	38.371	15.119	56.121
O	31.965	17.512	59.307
H	32.189	16.602	59.111
H	32.739	18.01	59.044
O	33.193	15.379	51.259
H	32.37	14.961	51.513
H	33.143	16.256	51.64
O	39.299	20.341	55.92
H	38.526	20.482	56.466
H	39.477	21.198	55.532
O	40.825	8.651	58.862
H	40.922	9.548	59.183
H	40.714	8.747	57.916
O	35.327	13.848	59.056
H	35.938	13.131	58.889
H	34.949	13.647	59.912
O	34.122	22.123	51.042
H	33.502	21.547	50.595
H	33.912	22.027	51.971
O	40.37	16.298	61.506
H	39.83	15.852	62.159
H	40.942	15.613	61.16
O	35.974	24.055	47.506
H	36.07	23.634	46.652
H	36.428	24.893	47.413
O	23.364	26.568	58.404
H	23.84	25.745	58.516
H	23.555	27.065	59.2
O	31.577	25.211	49.046
H	31.62	24.654	48.269
H	31.589	24.599	49.781
O	42.119	27.501	57.388
H	41.608	28.235	57.729
H	42.621	27.874	56.664
O	29.088	11.313	52.199

H	29.15	10.431	51.833
H	28.42	11.243	52.881
O	46.81	16.703	49.096
H	47.56	17.174	49.459
H	47.07	15.782	49.121
O	32.602	23.287	60.44
H	31.879	23.132	59.832
H	32.36	22.802	61.228
O	36.649	19.303	52.337
H	36.727	20.207	52.643
H	36.105	19.361	51.553
O	44.471	29.153	43.408
H	44.024	28.47	42.908
H	44.149	29.973	43.033
O	47.403	14.404	54.574
H	47.308	13.49	54.841
H	47.021	14.906	55.294
O	44.495	19.941	48.641
H	43.892	19.534	49.263
H	45.279	20.13	49.157
O	32.458	21.514	62.326
H	32.188	20.633	62.584
H	32.076	22.086	62.992
O	32.118	18.324	47.789
H	32.669	18.728	47.119
H	31.506	17.776	47.297
O	39.322	24.451	50.597
H	38.493	24.716	50.201
H	39.088	23.734	51.187
O	23.368	6.366	54.272
H	22.72	6.263	54.969
H	23.449	5.492	53.89
O	40.368	25.634	63.062
H	40.985	26.356	62.946
H	40.15	25.653	63.994
O	44.073	23.927	49.099
H	44.231	24.166	48.186
H	43.586	23.104	49.05
O	43.198	20.122	46.144
H	42.297	19.827	46.273
H	43.542	20.236	47.031
O	35.413	24.39	50.217
H	34.708	23.818	50.52
H	35.814	23.912	49.491
O	31.31	23.086	46.993
H	30.37	23.233	47.097
H	31.385	22.572	46.189

O	40.981	14.783	58.56
H	40.225	14.927	57.99
H	40.607	14.436	59.37
O	39.405	24.227	45.694
H	38.827	24.961	45.903
H	40.096	24.612	45.156
O	33.553	14.399	54.83
H	33.656	13.461	54.667
H	34.312	14.634	55.365
O	39.639	13.361	60.834
H	39.454	12.656	61.455
H	38.783	13.747	60.648
O	30.565	32.501	58.531
H	30.173	32.309	57.679
H	31.036	31.701	58.763
O	39.981	16.543	45.699
H	39.077	16.468	46.004
H	40.41	15.752	46.027
O	45.566	15.669	56.416
H	44.98	16.425	56.379
H	44.987	14.925	56.582
O	35.833	19.874	49.836
H	35.267	20.645	49.792
H	35.256	19.141	49.624
O	33.934	17.684	49.486
H	33.991	16.749	49.292
H	33.182	17.99	48.979
O	45.754	31.262	52.795
H	45.411	30.632	52.162
H	46.404	31.765	52.305
O	33.613	29.428	56.928
H	33.764	28.835	57.664
H	34.264	29.171	56.276
O	31.044	24.077	56.694
H	31.108	25.025	56.807
H	31.076	23.946	55.746
O	41.593	23.8	47.158
H	40.803	23.959	46.64
H	41.315	23.184	47.835
O	41.383	22.012	49.853
H	40.708	22.565	50.245
H	40.914	21.228	49.567
O	38.888	21.713	51.516
H	37.954	21.674	51.724
H	38.996	21.108	50.783
O	38.12	15.498	51.107
H	38.869	14.905	51.159

H	38.161	16.007	51.917
O	31.806	15.583	44.608
H	32.33	15.278	45.349
H	32.214	16.41	44.35
O	42.836	13.292	54.629
H	42.974	13.243	55.574
H	43.549	12.773	54.255
O	36.316	17.909	44.681
H	36.823	17.396	44.052
H	35.405	17.782	44.416
O	35.589	15.727	46.397
H	35.653	16.407	45.727
H	36.329	15.894	46.98
O	31.95	26.468	55.268
H	32.441	27.028	54.667
H	32.339	25.6	55.159
O	37.018	25.599	54.77
H	36.885	26.105	55.572
H	37.73	26.05	54.318
O	33.229	22.178	53.845
H	33.268	21.607	54.612
H	32.378	22.612	53.913
O	45.52	28.77	47.774
H	44.977	29.558	47.749
H	46.356	29.043	47.395
O	38.54	19.069	46.542
H	37.847	18.443	46.332
H	38.29	19.868	46.077
O	25.877	18.23	55.269
H	25.865	18.405	56.21
H	24.954	18.193	55.02
O	42.821	22.799	56.032
H	42.256	23.521	56.305
H	42.589	22.646	55.116
O	46.399	20.459	50.251
H	47.271	20.076	50.341
H	46.513	21.376	50.497
O	48.245	11.338	50.264
H	48.589	11.35	51.157
H	47.296	11.273	50.373
O	47.491	10.281	54.642
H	47.524	9.395	55.004
H	48.06	10.247	53.873
O	31.05	18.862	52.74
H	31.893	19.311	52.671
H	30.827	18.629	51.839
O	38.266	21.331	59.877

H	38.146	20.664	60.553
H	39.183	21.591	59.957
O	37.062	16.598	48.8
H	36.828	16.102	49.585
H	37.677	17.262	49.111
O	35.855	22.605	55.907
H	34.953	22.646	56.224
H	36.375	22.419	56.689
O	44.69	24.874	62.434
H	45.48	24.467	62.076
H	44.486	24.356	63.213
O	27.584	9.514	58.575
H	28.258	9.654	59.239
H	27.168	10.369	58.471
O	44.385	11.383	56.917
H	45.312	11.423	57.152
H	44.383	11.147	55.989
O	51.652	17.548	54.941
H	51.837	17.395	55.867
H	50.697	17.56	54.886
O	52.205	10.557	47.403
H	52.388	9.642	47.191
H	51.323	10.545	47.774
O	47.432	29.265	57.777
H	47.625	30.147	58.096
H	48.254	28.966	57.389
O	39.267	26.6	53.674
H	39.797	27.352	53.937
H	39.824	26.117	53.062
O	37.429	30.653	58.283
H	37.633	30.154	59.074
H	37.552	31.567	58.538
O	39.617	31.726	56.454
H	39.176	31.34	55.697
H	38.914	31.894	57.081
O	41.288	8.127	55.734
H	41.348	9.083	55.733
H	41.992	7.843	55.15
O	45.89	18.723	58.082
H	46.479	18.746	58.836
H	45.436	19.565	58.106
O	35.416	15.293	56.693
H	35.547	14.731	57.457
H	36.149	15.085	56.114
O	33.076	26.34	51.987
H	33.685	27.078	51.969
H	33.598	25.607	52.315

O	38.833	12.838	54.645
H	39.355	13.612	54.857
H	37.947	13.062	54.927
O	33.088	20.338	56.378
H	33.501	19.528	56.677
H	33.288	20.976	57.064
O	37.224	11.292	58.636
H	38.142	11.152	58.406
H	36.873	10.41	58.767
O	47.64	13.947	49.682
H	47.849	13.119	50.115
H	47.305	13.691	48.823
O	27.993	27.469	49.192
H	27.718	26.553	49.161
H	27.24	27.956	48.856
O	35.817	14.353	52.774
H	36.148	14.335	51.876
H	34.917	14.037	52.704
O	29.766	5.879	50.407
H	29.808	4.927	50.317
H	30.511	6.201	49.899
O	49.864	27.966	50.35
H	49.162	28.431	50.805
H	49.739	28.188	49.427
O	35.743	30.236	50.608
H	36.196	29.459	50.937
H	36.445	30.822	50.327
O	42.976	24.131	35.2
H	42.24	24.626	34.84
H	42.57	23.475	35.767
O	40.259	15.354	40.356
H	39.626	15.204	39.654
H	40.515	16.271	40.255
O	42.715	14.608	42.353
H	42.187	15.283	42.779
H	43.439	14.453	42.96
O	32.862	14.371	46.945
H	33.744	14.734	46.872
H	32.94	13.684	47.607
O	40.672	17.694	36.949
H	40.759	18.621	37.173
H	39.794	17.62	36.576
O	42.58	8.391	38.674
H	43.045	7.897	39.349
H	41.704	8.007	38.656
O	53.299	23.088	40.15
H	52.498	23.037	39.627

H	53.507	22.178	40.359
O	46.061	14.439	37.033
H	46.908	14.716	36.684
H	45.429	14.702	36.364
O	42.318	13.658	33.969
H	42.314	14.082	34.827
H	43.208	13.79	33.641
O	42.184	24.455	38.435
H	42.156	23.685	37.867
H	42.462	24.114	39.286
O	42.807	28.997	37.255
H	43.356	29.685	36.877
H	41.947	29.131	36.855
O	46.29	23.127	45.308
H	45.39	23.212	44.991
H	46.296	22.302	45.794
O	37.668	32.824	41.75
H	37.857	31.891	41.651
H	38.323	33.136	42.374
O	45.062	12.013	24.446
H	44.4	12.582	24.839
H	44.66	11.144	24.446
O	40.972	26.16	44.336
H	41.76	26.171	43.792
H	40.773	27.084	44.487
O	41.357	19.237	42.017
H	41.44	19.978	41.417
H	40.555	19.414	42.508
O	36.988	27.95	39.504
H	37.498	27.354	40.052
H	36.1	27.9	39.858
O	46.669	10.13	46.572
H	46.303	10.584	45.814
H	47.617	10.181	46.447
O	33.512	12.721	35.83
H	32.868	12.523	36.509
H	33.52	13.677	35.779
O	43.324	11.785	45.942
H	43.41	11.777	46.895
H	43.522	12.688	45.691
O	44.038	14.257	45.445
H	44.937	14.437	45.722
H	43.698	15.108	45.167
O	40.148	12.409	48.764
H	40.769	12.723	49.421
H	39.365	12.942	48.9
O	40.294	9.027	36.038

H	40.005	8.728	36.9
H	39.483	9.17	35.549
O	38.741	15.326	37.697
H	37.932	15.022	38.11
H	38.469	16.063	37.15
O	39.032	19.81	32.156
H	39.065	19.723	31.203
H	38.5	20.591	32.307
O	36.856	20.875	35.4
H	36.919	21.239	34.517
H	36.62	19.958	35.264
O	30.625	14.663	51.805
H	29.775	14.322	51.524
H	30.651	14.494	52.747
O	37.749	13.711	48.848
H	37.862	14.643	49.037
H	36.969	13.459	49.344
O	37.815	10.813	39.36
H	38.561	11.126	38.849
H	37.908	11.246	40.209
O	44.83	16.135	39.301
H	45.554	15.858	38.74
H	44.268	15.363	39.365
O	42.725	11.139	40.669
H	42.624	11.234	41.616
H	43.468	11.701	40.45
O	44.061	26.438	36.54
H	43.372	27.067	36.755
H	43.589	25.642	36.292
O	50.933	25.049	41.684
H	50.112	25.503	41.494
H	50.956	24.324	41.059
O	43.92	27.028	33.076
H	43.078	26.915	33.516
H	43.712	27.531	32.288
O	43.618	17.249	45.578
H	42.966	17.112	44.89
H	43.417	18.117	45.929
O	43.724	15.807	35.704
H	43.305	16.607	36.022
H	44.15	16.068	34.888
O	41.122	14.386	37.312
H	41.719	15.103	37.099
H	40.268	14.807	37.411
O	41.134	18.874	46.979
H	41.328	18.085	47.485
H	40.26	18.72	46.621

O	44.887	26.655	40.974
H	45.044	27.594	40.874
H	45.558	26.364	41.592
O	43.672	25.635	50.955
H	43.536	25.081	50.186
H	44.377	26.23	50.699
O	38.114	30.425	39.227
H	37.675	29.581	39.325
H	38.688	30.487	39.99
O	48.761	33.412	28.7
H	48.191	32.665	28.518
H	49.423	33.383	28.009
O	42.167	26.476	48.158
H	42.216	25.633	48.609
H	41.263	26.531	47.849
O	44.079	18.227	53.322
H	43.17	18.433	53.538
H	44.569	18.444	54.115
O	24.093	10.477	46.846
H	24.376	9.733	46.313
H	23.746	10.08	47.645
O	32.948	11.508	44.481
H	32.984	11.2	45.386
H	33.612	12.196	44.435
O	38.586	17.424	52.968
H	37.973	17.964	52.469
H	39.451	17.701	52.666
O	39.352	19.493	43.79
H	39.547	18.992	44.582
H	38.923	20.287	44.109
O	40.995	11.465	31.507
H	40.886	11.994	32.297
H	40.868	10.563	31.803
O	38.799	14.62	32.857
H	38.248	14.187	32.204
H	38.776	14.036	33.615
O	44.971	23.908	39.738
H	44.333	23.544	40.352
H	44.621	24.769	39.512
O	46.006	25.042	23.693
H	45.881	25.443	24.554
H	45.849	25.753	23.073
O	46.119	24.262	36.729
H	45.577	25.035	36.887
H	45.955	24.039	35.813
O	47.467	18.467	35.207
H	47.771	19.374	35.24

H	47.119	18.3	36.083
O	39.617	29.268	44.815
H	38.797	29.587	44.439
H	39.484	29.322	45.762
O	48.134	23.777	30.214
H	48.341	23.387	31.064
H	48.308	24.711	30.33
O	48.973	21.31	35.033
H	49.376	20.85	35.769
H	49.442	22.144	34.986
O	41.684	16.941	43.549
H	41.508	17.466	42.768
H	40.819	16.755	43.913
O	44.381	14.96	49.026
H	44.461	15.494	49.816
H	45.269	14.927	48.669
O	45.213	21.496	37.473
H	45.305	22.323	36.999
H	46.103	21.146	37.519
O	44.425	19.678	34.25
H	44.272	20.623	34.216
H	44.393	19.398	33.335
O	29.246	10.999	46.509
H	29.013	10.1	46.738
H	28.437	11.496	46.631
O	43.546	18.611	36.572
H	42.752	19.137	36.672
H	43.975	18.971	35.796
O	46.952	13.27	47.144
H	47.756	13.507	46.681
H	46.713	12.415	46.788
O	45.373	13.611	29.92
H	45.995	13.653	30.646
H	45.787	13.029	29.282
O	46.514	16.356	30.105
H	45.834	15.682	30.1
H	47.297	15.909	29.783
O	47.714	28.143	32.951
H	46.988	28.687	32.647
H	48.07	28.616	33.703
O	33.599	12.445	48.59
H	33.016	12.371	49.346
H	33.417	11.663	48.07
O	40.986	10.998	54.892
H	40.192	11.327	54.471
H	41.702	11.377	54.382
O	44.087	17.544	50.773

H	44.924	17.971	50.591
H	43.948	17.678	51.71
O	45.931	28.123	37.549
H	45.498	28.767	38.11
H	45.214	27.616	37.169
O	24.541	12.586	43.627
H	24.815	11.799	43.156
H	23.619	12.432	43.833
O	36.582	15.048	39.267
H	36.006	14.432	39.721
H	36.644	15.798	39.858
O	39.675	13.194	51.872
H	39.359	13.054	52.765
H	40.594	13.442	51.979
O	40.128	29.635	37.006
H	39.307	30.036	36.719
H	40.145	29.778	37.952
O	39.369	14.26	42.738
H	39.619	14.495	41.845
H	40.027	13.619	43.01
O	45.809	17.353	43.926
H	45.254	17.365	44.705
H	45.232	17.637	43.217
O	43.977	17.981	41.565
H	44.456	17.432	40.944
H	43.222	18.3	41.069
O	51.767	11.21	38.734
H	51.593	11.907	39.366
H	52.715	11.234	38.605
O	45.054	11.568	35.495
H	44.682	12.343	35.074
H	44.37	11.269	36.094
O	37.077	11.888	33.253
H	37.243	12.419	32.474
H	36.128	11.926	33.372
O	46.231	32.707	37.235
H	46.879	32.964	36.578
H	46.029	33.517	37.702
O	35.469	12.392	44.739
H	35.98	12.89	44.1
H	35.938	12.51	45.565
O	39.972	6.075	44.844
H	39.331	6.449	44.239
H	39.462	5.852	45.623
O	41.944	31.079	50.292
H	41.335	30.583	50.839
H	42.121	30.503	49.548

O	42.058	18.95	19.483
H	41.115	18.81	19.399
H	42.347	18.274	20.097
O	41.201	14.172	19.749
H	41.965	13.608	19.63
H	40.473	13.565	19.884
O	37.538	15.386	10.576
H	37.371	14.968	11.421
H	37.04	14.864	9.947
O	38.38	20.142	13.366
H	38.646	19.241	13.182
H	39.104	20.677	13.04
O	41.038	21.255	28.921
H	41.426	21.097	29.781
H	40.237	20.731	28.919
O	36.494	12.369	28.217
H	36.214	11.457	28.145
H	37.391	12.372	27.885
O	45.316	26.616	12.705
H	45.278	27.222	11.965
H	44.756	27.015	13.371
O	45.833	22.446	24.239
H	45.825	23.384	24.046
H	46.326	22.057	23.516
O	38.295	13.155	21.468
H	37.792	13.709	20.871
H	37.706	13.002	22.207
O	44.397	23.913	11.598
H	44.413	24.514	10.852
H	43.546	24.063	12.008
O	39.101	24.07	15.268
H	38.825	24.339	16.144
H	39.682	23.325	15.418
O	40.035	22.066	20.255
H	39.217	22.114	19.76
H	40.703	22.379	19.645
O	48.093	19.697	28.663
H	48.574	19.386	29.43
H	47.694	18.909	28.294
O	41.692	25.704	16.215
H	41.662	26.629	16.46
H	41.209	25.256	16.91
O	49.653	23.254	15.48
H	49.216	23.517	16.29
H	50.234	23.985	15.273
O	44.988	14.55	14.314
H	44.039	14.655	14.245

H	45.344	15.159	13.667
O	47.3	31.074	27.843
H	46.887	30.236	28.05
H	47.25	31.138	26.89
O	43.499	27.959	14.397
H	43.062	28.116	15.235
H	43.182	28.66	13.828
O	43.367	20.548	31.039
H	43.237	21.177	31.749
H	44.204	20.797	30.648
O	40.752	7.417	18.811
H	41.699	7.549	18.779
H	40.623	6.778	19.512
O	40.052	16.014	17.193
H	40.981	15.792	17.136
H	39.643	15.235	17.572
O	37.983	21.963	18.502
H	37.917	21.1	18.094
H	38.325	22.529	17.81
O	42.739	22.994	14.868
H	43.246	23.364	15.59
H	43.234	22.221	14.598
O	44.39	9.462	23.721
H	43.664	8.877	23.505
H	44.905	9.51	22.916
O	34.073	11.577	21.282
H	34.895	11.097	21.378
H	34.266	12.255	20.635
O	39.214	16.897	21.288
H	40.161	16.861	21.153
H	38.943	17.715	20.871
O	40.225	18.183	15.779
H	40.158	17.948	14.853
H	40.065	17.363	16.246
O	42.738	12.799	29.362
H	42.3	12.313	30.061
H	43.621	12.955	29.695
O	28.731	14.263	17.984
H	28.356	13.95	18.807
H	29.299	14.99	18.241
O	39.742	7.92	13.649
H	39.85	8.863	13.774
H	39.332	7.616	14.459
O	41.631	22.32	18.135
H	42.212	23.073	18.022
H	42.008	21.64	17.578
O	41.088	26.34	13.611

H	41.068	25.63	14.252
H	41.809	26.901	13.898
O	46.831	20.051	13.163
H	47.227	20.768	12.669
H	46.593	20.442	14.004
O	45.346	22.78	26.776
H	44.67	23.456	26.73
H	45.498	22.531	25.865
O	45.57	30.581	14.732
H	46.523	30.591	14.818
H	45.413	30.663	13.791
O	38.536	20.533	16.021
H	39.077	19.743	16.043
H	38.39	20.698	15.09
O	34.117	7.457	16.474
H	33.897	7.683	15.57
H	33.954	6.515	16.531
O	40.097	24.815	6.454
H	39.189	24.516	6.412
H	40.151	25.303	7.276
O	46.256	24.444	18.988
H	47.108	24.434	18.551
H	46.427	24.857	19.834
O	36.938	19.16	18.062
H	37.282	19.447	17.216
H	36.762	18.227	17.945
O	42.571	26.022	10.835
H	42.719	26.326	11.73
H	41.719	26.387	10.596
O	39.111	19.234	19.784
H	39.13	20.164	20.007
H	38.486	19.174	19.061
O	44.157	10.39	16.767
H	44.055	11.341	16.816
H	44.86	10.257	16.132
O	35.562	15.037	15.538
H	35.026	14.273	15.751
H	36.314	14.678	15.068
O	44.823	20.887	15.714
H	45.615	20.457	16.034
H	44.121	20.533	16.26
O	47.703	26.886	20.285
H	47.709	27.731	19.836
H	48.581	26.806	20.658
O	40.694	30.32	9.354
H	39.939	29.986	8.868
H	40.628	31.271	9.274

O	45.273	26.612	16.645
H	45.501	25.729	16.356
H	44.692	26.946	15.962
O	51.594	21.532	14.729
H	50.913	22.156	14.979
H	52.24	22.058	14.256
O	39.395	17.354	10.386
H	39.063	17.83	9.625
H	38.752	16.661	10.534
O	41.985	16.318	10.433
H	41.065	16.461	10.209
H	42.398	17.172	10.304
O	24.893	15.299	11.539
H	25.456	14.944	12.227
H	25.499	15.72	10.928
O	38.709	25.161	12.814
H	38.842	24.725	13.656
H	39.358	25.866	12.804
O	54.404	18.308	15.805
H	54.647	18.867	15.068
H	54.986	18.58	16.515
O	53.594	26.809	17.416
H	54.24	26.702	18.114
H	54.097	27.139	16.671
O	44.32	27.38	19.521
H	44.984	27.349	18.833
H	43.707	28.056	19.232
O	53.808	21.953	8.881
H	54.137	21.196	9.366
H	53.006	22.202	9.342
O	40.117	23.732	9.24
H	40.965	23.29	9.277
H	39.576	23.266	9.877
O	49.907	24.6	12.842
H	49.009	24.583	13.174
H	50.409	25.033	13.532
O	42.132	19.46	16.825
H	41.267	19.229	16.486
H	42.097	19.222	17.751
O	29.065	9.224	18.684
H	28.626	8.378	18.77
H	29.259	9.299	17.75
O	45.785	21.43	20.328
H	46.091	22.269	19.985
H	46.503	20.822	20.151
O	40.311	17.308	13.087
H	40.963	16.609	13.115

H	39.995	17.305	12.184
O	42.857	12.807	17.183
H	42.9	13.683	17.566
H	42.543	12.951	16.291
O	41.183	11.659	24.456
H	41.3	11.252	25.314
H	41.289	12.596	24.618
O	41.272	14.671	12.579
H	41.504	14.951	11.694
H	41.265	13.715	12.535
O	45.843	12.94	7.375
H	45.059	13.217	7.85
H	45.762	11.988	7.313
O	48.454	28.075	12.72
H	47.567	27.799	12.491
H	49.018	27.389	12.364
O	32.176	11.268	25.78
H	32.09	10.316	25.721
H	31.717	11.5	26.587
O	43.796	31.449	19.368
H	44.572	31.396	19.925
H	43.379	30.592	19.455
O	50.027	10.71	20.46
H	50.816	10.415	20.005
H	50.238	10.618	21.389
O	35.99	12.972	23.269
H	35.993	13.689	23.903
H	35.605	12.235	23.743
O	45.29	10.377	21.312
H	45.549	9.916	20.514
H	44.928	11.207	21.002
O	41.608	19.693	12.099
H	42.198	19.278	11.469
H	41.19	18.962	12.553
O	24.813	9.78	21.566
H	25.033	9.348	20.74
H	24.117	10.395	21.336
O	33.478	16.269	17.678
H	33.205	15.361	17.809
H	33.037	16.538	16.872
O	40.427	11.406	16.801
H	39.736	11.383	17.463
H	41.205	11.697	17.276
O	43.221	16.189	18.087
H	44.165	16.338	18.033
H	42.948	16.664	18.872
O	33.454	15.843	12.269

H	33.527	14.915	12.046
H	32.919	16.217	11.57
O	44.568	18.363	12.644
H	45.362	18.856	12.85
H	44.115	18.279	13.483
O	46.175	23.272	15.71
H	46.986	22.831	15.962
H	45.557	22.56	15.542
O	40.087	13.749	29.131
H	41.01	13.594	29.332
H	40.099	14.232	28.305
O	45.613	3.911	33.019
H	45.448	2.974	33.121
H	44.793	4.329	33.283
O	50.342	19.594	-1.238
H	49.774	19.378	-0.498
H	51.226	19.397	-0.928
O	34.506	20.248	1.814
H	33.825	20.898	1.991
H	34.443	19.631	2.543
O	37.958	25.166	1.773
H	38.335	24.954	2.627
H	37.645	24.328	1.434
O	42.946	30.381	3.704
H	43.131	30.85	2.89
H	43.459	29.576	3.638
O	34.424	25.088	-0.418
H	35.347	24.924	-0.229
H	33.951	24.483	0.153
O	22.371	27.19	2.405
H	23.104	26.607	2.602
H	22.758	28.066	2.394
O	41.225	36.746	1.333
H	40.549	36.273	1.818
H	41.859	37.009	2
O	41.947	27.942	2.119
H	42.827	28.049	2.478
H	42.082	27.86	1.175
O	32.492	15.407	3.286
H	33.359	15.812	3.319
H	32.362	15.048	4.163
O	34.35	23.425	4.759
H	35.117	22.857	4.689
H	34.399	23.785	5.645
O	28.847	25.551	4.498
H	29.463	25.973	3.898
H	29.401	25.044	5.091

O	37.179	20.472	-1.826
H	37.574	20.705	-0.986
H	37.061	19.524	-1.781
O	46.601	17.062	2.509
H	46.42	16.564	1.711
H	45.753	17.429	2.759
O	34.714	-2.104	8.64
H	35.059	-1.223	8.782
H	33.771	-2.018	8.781
O	37.645	23.587	7.237
H	37.897	23.511	8.157
H	37.007	22.886	7.105
O	45.848	19.411	-4.075
H	46.048	18.918	-3.279
H	46.546	20.063	-4.134
O	29.352	14.273	9.134
H	29.439	14.76	9.954
H	28.46	13.927	9.155
O	39.471	28.906	2.501
H	40.315	28.482	2.351
H	39.183	28.572	3.351
O	37.704	33.049	9.076
H	37.329	32.563	9.81
H	38.625	33.165	9.311
O	53.159	21.143	-2.332
H	53.104	22.052	-2.036
H	53.978	20.818	-1.956
O	36.021	16.821	8.639
H	36.907	17.123	8.837
H	36.146	16.085	8.04
O	40.843	33.263	1.936
H	41.529	33.759	2.384
H	40.039	33.748	2.119
O	43.176	31.296	11.582
H	42.702	30.84	10.886
H	44.087	31.022	11.47
O	38.586	17.558	7.62
H	39.007	18.398	7.438
H	39.104	16.92	7.129
O	40.325	26.457	9.305
H	40.46	25.541	9.545
H	39.497	26.695	9.724
O	30.214	19.395	1.061
H	29.941	20.085	0.457
H	30.689	18.77	0.512
O	40.014	23.649	-0.068
H	39.511	23.759	-0.875

H	40.918	23.838	-0.322
O	34.081	19.01	-0.637
H	34.931	18.691	-0.938
H	34.293	19.661	0.033
O	47.522	27.671	9.251
H	47.912	27.005	9.818
H	48.27	28.115	8.853
O	36.734	21.195	11.47
H	37.494	21.662	11.124
H	37.051	20.784	12.275
O	35.342	27.863	12.21
H	35.593	27.289	12.933
H	36.144	27.967	11.697
O	41.778	29.618	13.263
H	42.026	30.328	12.671
H	40.824	29.675	13.319
O	34.478	25.065	6.902
H	34.886	25.427	7.688
H	33.693	25.597	6.772
O	47.814	25.988	1.364
H	47.983	25.595	0.508
H	47.652	25.242	1.942
O	40.326	30.72	0.826
H	40.582	31.514	1.295
H	40.185	30.07	1.515
O	53.168	18.206	2.843
H	54.01	18.609	2.63
H	52.527	18.9	2.693
O	31.885	26.023	6.535
H	31.82	25.284	5.93
H	32.106	26.77	5.979
O	33.451	11.454	-1.961
H	32.966	11.004	-1.27
H	32.778	11.739	-2.579
O	43.928	15.726	0.942
H	43.173	15.607	0.366
H	44.015	16.675	1.03
O	44.656	15.825	5.607
H	44.802	14.985	5.172
H	43.847	16.158	5.218
O	40.533	15.818	6.653
H	40.822	15.31	7.411
H	40.378	15.164	5.971
O	38.582	14.859	4.114
H	39.1	14.111	4.413
H	37.718	14.492	3.928
O	31.947	15.776	10.003

H	31.454	16.009	9.216
H	31.974	14.819	9.994
O	36.477	15.238	6.404
H	37.161	15.748	5.971
H	36.118	14.683	5.712
O	29.477	18.666	8.755
H	29.332	18.052	8.035
H	29.473	19.528	8.338
O	36.056	13.843	3.802
H	35.644	13.215	3.208
H	35.605	14.669	3.627
O	29.15	10.551	7.64
H	29.287	10.1	8.473
H	29.743	11.302	7.674
O	28.05	8.645	-6.362
H	27.714	8.263	-5.551
H	27.713	8.075	-7.053
O	31.415	16.07	7.13
H	31.975	16.771	7.465
H	30.524	16.394	7.258
O	43.016	11.256	2.847
H	42.864	12.119	2.461
H	42.656	11.321	3.731
O	35.135	26.291	9.339
H	35.737	26.936	9.71
H	35.335	25.479	9.805
O	40.425	19.783	7.287
H	41.128	19.282	6.873
H	40.586	20.688	7.02
O	34.917	18.57	6.875
H	34.983	18.024	7.659
H	33.976	18.642	6.712
O	44.515	27.989	3.039
H	44.763	27.259	3.607
H	45.324	28.225	2.585
O	46.889	22.31	11.571
H	47.382	23.084	11.843
H	45.982	22.61	11.514
O	34.63	18.543	4.174
H	33.697	18.661	4.352
H	34.985	18.187	4.989
O	32.274	18.498	7.946
H	32.312	18.614	8.895
H	31.823	19.28	7.627
O	41.552	22.275	6.933
H	41.007	23.06	6.88
H	42.048	22.382	7.745

O	43.323	22.586	9.142
H	43.584	22.593	10.063
H	44.112	22.849	8.668
O	43.401	17.229	-2.44
H	42.937	18.013	-2.732
H	43.935	17.527	-1.704
O	37.459	20.624	5.1
H	37.318	20.104	5.891
H	37.198	20.045	4.384
O	39.45	31.218	4.349
H	39.723	31.456	5.235
H	40.263	31.208	3.842
O	44.441	25.626	8.832
H	44.738	26.42	8.386
H	43.628	25.885	9.265
O	35.548	8.845	8.952
H	36.372	9.332	8.989
H	35.102	9.189	8.178
O	28.47	27.344	11.114
H	29.212	27.726	11.582
H	28.44	27.819	10.284
O	36.961	34.498	7.007
H	37.255	35.373	7.259
H	37.33	33.92	7.675
O	32.802	12.313	3.968
H	32.932	12.963	4.659
H	32.516	11.525	4.43
O	28.896	11.832	3.564
H	29.037	12.743	3.823
H	28.364	11.463	4.269
O	43.481	14.081	2.857
H	43.731	14.845	2.338
H	44.313	13.705	3.145
O	43.013	21.778	1.473
H	42.938	21.431	2.362
H	42.171	21.575	1.065
O	48.507	21.134	-5.569
H	49.215	21.205	-6.209
H	48.95	20.945	-4.741
O	33.157	30.774	2.35
H	33.63	31.594	2.211
H	33.809	30.091	2.191
O	37.596	28.437	10.59
H	37.073	29.157	10.236
H	38.295	28.868	11.082
O	45.214	34.454	10.32
H	45.853	35.105	10.607

H	44.955	34.002	11.123
O	33.012	22.073	7.568
H	33.72	21.495	7.853
H	33.41	22.628	6.898
O	38.79	29.639	12.856
H	38.326	30.454	12.664
H	38.311	29.257	13.591
O	49.751	26.497	10.851
H	50.338	27.078	10.368
H	50.328	26.001	11.432
O	42.384	19.013	9.644
H	41.947	19.429	8.902
H	43.316	19.052	9.426
O	33.28	14.634	5.896
H	34.019	14.699	6.501
H	32.531	14.957	6.398
O	50.54	14.443	7.097
H	49.966	14.275	7.845
H	49.984	14.902	6.468
O	38.962	22.789	11.744
H	38.836	23.723	11.907
H	39.9	22.647	11.873
O	33.678	13.177	11.289
H	33.228	12.336	11.371
H	34.608	12.955	11.313
O	51.437	18.389	8.492
H	50.543	18.05	8.536
H	51.802	18	7.698
O	30.917	36.654	1.234
H	30.117	36.927	1.682
H	31.025	37.29	0.527
O	32.444	6.485	8.862
H	31.645	6.822	8.456
H	33.059	6.386	8.135
O	47.37	17.66	11.396
H	46.607	17.429	10.867
H	47.188	18.547	11.705
O	36.528	33.94	16.228
H	37.197	33.76	16.888
H	35.884	33.241	16.342
O	25.227	28.846	0.122
H	25.685	29.686	0.162
H	24.512	28.933	0.753
O	29.024	34.007	8.127
H	28.573	33.223	8.441
H	29.365	33.759	7.268
O	47.671	30.877	6.624

H	48.298	31.285	6.027
H	47.192	30.254	6.078
O	22.361	16.208	10.265
H	23.035	15.77	10.785
H	21.697	16.468	10.904
O	52.932	23.74	-2.28
H	53.219	24.636	-2.458
H	52.573	23.434	-3.112
O	41.947	21.4	4.081
H	41.379	21.959	3.55
H	41.571	21.441	4.96
O	40.116	23	2.806
H	39.955	23.113	1.869
H	40.516	23.824	3.081
O	43.453	18.815	5.757
H	43.063	18.066	5.308
H	43.538	19.485	5.078
O	29.429	15.782	11.819
H	29.326	16.706	12.045
H	29.668	15.359	12.644
O	41.115	13.785	4.79
H	41.618	13.726	3.978
H	41.513	13.131	5.365
O	53.315	12.623	2.885
H	53.178	12.34	1.982
H	54.091	12.142	3.172
O	49.233	16.721	-1.157
H	48.28	16.708	-1.071
H	49.402	17.359	-1.85
O	32.245	6.444	1.899
H	32.671	7.283	1.728
H	31.31	6.625	1.798
O	53.488	18.253	-2.031
H	54.313	18.694	-1.83
H	52.987	18.897	-2.531
O	49.482	21.118	6.802
H	49.141	21.882	6.338
H	49.634	21.428	7.695
O	29.979	9.409	1.127
H	29.946	8.456	1.045
H	29.615	9.587	1.994
O	38.794	28.072	5.031
H	39.442	28.272	5.707
H	38.541	27.165	5.203
O	39.973	19.445	-0.862
H	40.582	20.143	-1.102
H	39.705	19.063	-1.697

O	38.367	12.744	6.584
H	38.467	11.856	6.243
H	39.169	12.901	7.083
O	51.233	23.062	10.84
H	50.781	22.232	10.689
H	50.593	23.603	11.301
O	30.086	6.967	7.218
H	30.366	7.716	6.693
H	29.292	7.268	7.66
O	34.123	28.412	7.57
H	34.071	27.681	8.186
H	33.75	28.068	6.758
O	44.732	19.245	8.452
H	44.948	18.329	8.63
H	44.481	19.256	7.528
O	37.172	19.337	2.75
H	36.496	19.962	2.49
H	36.979	18.55	2.24
O	43.812	33.487	-0.36
H	43.567	33.928	-1.173
H	42.987	33.15	-0.012
O	34.233	21.995	-1.014
H	33.785	22.626	-0.451
H	35.156	22.072	-0.774
O	41.53	29.988	-1.447
H	41.412	30.522	-2.233
H	40.961	30.394	-0.794
O	40.923	28.034	6.934
H	41.13	27.812	7.842
H	41.317	27.329	6.42
O	40.789	6.424	8.902
H	40.204	6.632	9.631
H	41.648	6.733	9.188
O	39.638	11.196	3.139
H	40.209	10.445	2.981
H	38.854	10.821	3.539
O	46.738	13.306	-0.07
H	46.091	12.607	0.031
H	47.044	13.219	-0.973
O	38.947	16.894	-0.03
H	39.085	17.837	-0.126
H	39.485	16.649	0.722
O	37.058	27.103	14.212
H	37.787	26.507	14.042
H	37.36	27.65	14.937
O	23.036	9.734	9.705
H	23.039	10.037	10.613

H	22.11	9.721	9.461
O	43.661	7.644	5.417
H	43.659	7.786	6.364
H	42.869	7.132	5.25
O	50.121	28.118	16.791
H	50.162	28.916	16.265
H	49.185	27.942	16.886
O	42.993	1.282	56.052
H	43.762	0.719	55.972
H	42.339	0.877	55.481
O	44.697	8.29	49.26
H	44.614	7.387	48.952
H	43.809	8.643	49.207
O	30.998	11.22	55.135
H	30.33	10.742	55.625
H	30.562	11.476	54.322
O	29.713	4.961	58.034
H	30.441	4.511	58.463
H	30.133	5.567	57.423
O	39.242	5.214	63.319
H	39.046	4.508	62.704
H	40.199	5.254	63.341
O	27.184	7.191	50.828
H	26.728	6.469	50.395
H	28.073	6.865	50.966
O	34.359	0.808	56.673
H	33.903	0.658	57.502
H	33.92	1.569	56.293
O	34.83	-4.675	58.636
H	34.777	-5.472	59.164
H	35.572	-4.194	59.003
O	38.802	5.327	49.955
H	38.209	5.707	50.603
H	39.171	6.082	49.497
O	29.951	6.893	44.176
H	30.385	6.397	43.481
H	29.108	7.145	43.799
O	35.397	9.344	56.737
H	36.324	9.319	56.498
H	35.129	10.246	56.564
O	44.208	18.448	60.905
H	43.275	18.661	60.892
H	44.645	19.272	60.692
O	47.401	7.944	56.127
H	46.773	7.632	56.779
H	47.479	7.221	55.504
O	37.252	3.234	50.661

H	37.805	4.006	50.544
H	37.293	3.049	51.599
O	45.629	10.795	61.299
H	45.981	11.652	61.541
H	44.68	10.894	61.381
O	35.537	9.24	52.716
H	35.941	9.123	51.856
H	36.193	8.917	53.334
O	33.51	7.734	63.434
H	33.384	6.79	63.34
H	33.236	8.098	62.592
O	44.451	6.199	47.738
H	44.945	5.483	47.338
H	44.399	6.866	47.053
O	38.345	5.829	58.686
H	39.288	5.817	58.524
H	37.954	5.594	57.844
O	32.623	5.52	55.396
H	31.715	5.824	55.415
H	33.121	6.228	55.802
O	31.96	2.583	59.2
H	31.417	2.288	58.469
H	31.333	2.81	59.887
O	31.087	11.914	49.977
H	30.586	12.19	50.744
H	30.655	11.112	49.684
O	37.484	15.621	54.62
H	38.075	16.272	54.242
H	36.934	15.342	53.888
O	32.029	7.246	58.159
H	32.883	7.304	57.732
H	32.228	6.991	59.06
O	38.062	5.811	54.179
H	37.301	5.411	54.6
H	37.79	5.944	53.271
O	43.546	2.474	58.474
H	43.741	1.943	57.702
H	43.597	3.378	58.162
O	40.372	3.071	56.59
H	40.953	2.398	56.944
H	40.455	2.983	55.64
O	36.252	0.947	49.601
H	36.64	1.716	50.019
H	36.964	0.57	49.084
O	42.046	-2.297	43.785
H	41.366	-2.813	43.351
H	42.458	-1.801	43.077

O	34.333	3.887	51.727
H	33.768	3.66	50.989
H	34.828	3.087	51.904
O	37.897	2.005	57.467
H	37.463	2.03	56.614
H	38.774	2.35	57.3
O	39.186	10.012	50.217
H	39.546	10.896	50.288
H	39.502	9.562	51.001
O	44.204	0.517	52.024
H	44.608	1.343	52.291
H	43.787	0.714	51.185
O	41.654	0.954	53.777
H	41.539	1.168	52.851
H	41.314	0.063	53.861
O	49.262	3.738	53.256
H	49.087	3.172	52.504
H	50.195	3.62	53.432
O	35.613	4.352	56.671
H	35.057	5.104	56.465
H	35.14	3.887	57.361
O	39.489	7.772	48.626
H	39.838	7.731	47.736
H	39.597	8.688	48.883
O	26.359	0.321	53.848
H	27.13	0.165	54.394
H	25.951	-0.539	53.757
O	36.897	2.578	55.069
H	36.4	2.306	54.298
H	36.279	3.102	55.579
O	40.083	6.912	65.197
H	39.502	6.452	64.592
H	40.07	6.38	65.993
O	42.312	13.742	50.199
H	42.131	14.167	51.037
H	43.049	14.234	49.836
O	33.55	17.541	43.911
H	33.603	17.826	42.998
H	33.052	18.231	44.349
O	48.237	-1.782	46.718
H	48.53	-1.902	47.621
H	47.908	-0.883	46.691
O	37.103	11.431	47.259
H	37.275	12.308	47.602
H	37.839	10.904	47.57
O	33.254	6.408	46.882
H	33.672	5.697	46.397

H	33.164	7.114	46.243
O	38.596	7.444	42.953
H	39.296	8.083	42.821
H	38.588	6.927	42.148
O	39.889	11.766	57.394
H	40.015	11.478	56.49
H	39.373	12.569	57.319
O	44.142	3.231	48.285
H	44.164	3.447	47.352
H	44.93	3.639	48.644
O	26.918	4.899	38.737
H	26.951	5.767	39.139
H	26.418	5.027	37.931
O	34.564	4.952	44.782
H	35.407	5.385	44.919
H	34.646	4.118	45.244
O	42.354	6.344	59.17
H	41.717	6.02	58.534
H	42.166	7.28	59.242
O	31.988	10.976	59.567
H	31.979	11.728	60.159
H	31.093	10.638	59.597
O	27.81	11.134	49.282
H	28.56	10.539	49.255
H	27.05	10.557	49.362
O	32.264	7.287	41.61
H	32.892	6.799	41.076
H	32.801	7.725	42.271
O	47.864	5.627	54.607
H	47.084	5.129	54.849
H	48.473	4.97	54.271
O	36.861	6.013	51.694
H	36.79	6.928	51.419
H	35.963	5.684	51.661
O	41.137	0.798	50.969
H	41.358	-0.119	51.131
H	41.626	1.026	50.178
O	32.061	6.765	49.267
H	32.581	7.326	49.842
H	32.656	6.535	48.554
O	37.974	0.265	52.252
H	37.469	-0.176	51.569
H	38.587	0.824	51.774
O	43.242	11.663	48.642
H	42.676	12.143	49.245
H	42.88	10.777	48.625
O	39.735	10.264	47.159

H	40.578	9.875	46.926
H	39.958	11.123	47.516
O	28.981	8.167	47.533
H	28.048	7.959	47.486
H	29.42	7.373	47.229
O	36.597	8.41	50.412
H	36.28	8.015	49.599
H	37.323	8.97	50.138
O	34.574	11.691	54.018
H	34.831	11.373	53.153
H	34.031	10.991	54.379
O	48.737	2.133	50.897
H	49.616	1.776	50.771
H	48.196	1.669	50.258
O	28.342	-3.179	51.774
H	28.761	-2.556	51.18
H	27.739	-2.646	52.292
O	53.393	5.046	51.45
H	53.656	5.336	50.576
H	54.216	4.967	51.933
O	48.019	9.141	39.188
H	48.017	10.078	38.996
H	48.78	9.014	39.755
O	36.564	-0.304	55.327
H	35.756	0.11	55.631
H	37.078	0.415	54.96
O	44.335	8.701	60.027
H	44.365	9.325	59.301
H	44.814	9.133	60.734
O	44.376	5.002	57.788
H	45.247	5.381	57.907
H	43.798	5.563	58.305
O	33.668	13.229	60.985
H	33.294	12.928	61.813
H	33.314	14.11	60.867
O	37.409	10.3	63.541
H	36.573	10.658	63.243
H	37.257	9.357	63.605
O	33.615	2.734	54.639
H	34.104	2.905	53.833
H	33.473	3.6	55.021
O	33.136	9.631	54.596
H	32.235	9.929	54.722
H	33.051	8.812	54.108
O	55.857	13.736	55.622
H	55.303	13.187	56.177
H	56.752	13.498	55.866

O	29.331	9.297	56.354
H	29.433	8.39	56.642
H	28.879	9.729	57.079
O	40.527	5.992	57.08
H	40.475	5.152	56.625
H	40.817	6.61	56.41
O	32.778	-2.319	35.767
H	32.035	-1.745	35.955
H	33.09	-2.033	34.908
O	39.717	8.609	38.847
H	38.918	9.128	38.757
H	39.611	8.148	39.679
O	36.919	8.97	37.487
H	37.218	9.298	36.639
H	37.05	9.704	38.087
O	49.274	14.746	38.27
H	49.179	14.237	39.074
H	50.09	14.429	37.881
O	31.496	14.178	41.964
H	32.286	13.773	41.606
H	31.807	14.69	42.711
O	22.874	3.585	34.912
H	22.204	3.505	35.591
H	22.384	3.567	34.089
O	42.052	7.029	35
H	42.347	6.541	35.769
H	41.507	7.731	35.356
O	31.563	0.726	35.967
H	32.016	1.569	35.988
H	31.117	0.715	35.121
O	42.347	11.379	43.246
H	42.714	11.355	44.13
H	41.402	11.445	43.381
O	40.204	4.889	38.643
H	39.755	5.047	37.813
H	41.067	5.285	38.528
O	32.078	8.284	45.111
H	31.371	7.925	44.574
H	32.465	8.971	44.568
O	28.912	5.61	25.443
H	29.034	5.357	24.528
H	29.714	6.08	25.67
O	50.856	3.447	42.384
H	51.126	4.346	42.568
H	49.903	3.458	42.479
O	39.468	11.861	44.615
H	39.438	11.138	45.241

H	39.055	12.592	45.073
O	46.689	6.69	35.157
H	47.229	7.266	35.697
H	46.681	5.857	35.628
O	44.315	2.891	39.521
H	43.72	2.475	38.897
H	43.765	3.094	40.278
O	38.457	1.458	38.786
H	37.863	1.383	39.534
H	37.883	1.437	38.021
O	51.948	7.965	46.494
H	51.484	7.274	46.967
H	52.575	7.498	45.942
O	49.657	4.76	38.926
H	49.359	3.851	38.961
H	48.899	5.271	39.211
O	29.52	3.426	37.016
H	28.909	3.157	37.702
H	28.961	3.67	36.279
O	29.96	9.451	49.691
H	29.585	8.992	48.939
H	30.794	9.01	49.849
O	41.497	8.245	46.147
H	42.352	8.298	45.72
H	41.02	7.583	45.647
O	24.902	8.709	50.671
H	24.941	9.287	51.433
H	25.687	8.166	50.741
O	37.279	-1.509	37.113
H	37.348	-0.568	36.949
H	38.166	-1.775	37.355
O	35.933	7.085	48.028
H	35.244	6.469	47.778
H	36.741	6.68	47.712
O	46.211	4.989	39.189
H	46.387	5.585	39.916
H	45.685	4.289	39.575
O	30.251	13.738	46.554
H	31.116	14.071	46.791
H	30.309	12.794	46.702
O	30.285	-0.466	38.172
H	29.985	-0.197	39.04
H	30.365	0.352	37.681
O	56.405	15.358	40.394
H	55.496	15.072	40.303
H	56.353	16.159	40.915
O	39.175	5.466	36.028

H	39.565	4.676	35.655
H	38.933	5.995	35.268
O	30.229	15.517	36.578
H	31.086	15.626	36.99
H	29.705	16.242	36.92
O	54.604	11.901	42.589
H	54.558	12.421	43.392
H	54.611	12.55	41.885
O	35.813	9.37	46.279
H	35.937	8.66	46.908
H	35.991	10.167	46.778
O	39.338	8.197	28.824
H	38.453	8.095	29.175
H	39.503	9.139	28.859
O	31.987	3.304	33.871
H	31.682	4.015	33.308
H	32.78	3.647	34.282
O	36.874	9.241	21.873
H	37.276	9.81	21.216
H	36.183	8.779	21.399
O	37.891	16.41	42.994
H	38.608	15.777	43.015
H	37.705	16.532	42.063
O	32.316	3.244	36.809
H	32.181	2.604	37.507
H	31.533	3.794	36.832
O	42.522	3.282	41.968
H	42.273	4.123	42.351
H	41.799	3.063	41.38
O	33.832	0.332	43.709
H	34.133	-0.576	43.731
H	34.491	0.815	44.207
O	38.423	5.538	40.942
H	37.934	4.723	41.062
H	39.084	5.326	40.283
O	33.235	1.999	31.115
H	33.068	2.246	30.206
H	33.425	2.826	31.558
O	27.613	4.133	44.453
H	27.355	4.026	45.369
H	28.532	4.396	44.493
O	32.896	6.817	34.296
H	33.448	6.172	34.738
H	32.297	6.295	33.763
O	40.25	3.42	48.61
H	39.849	2.628	48.968
H	39.73	4.137	48.973

O	29.411	-2.858	37.18
H	29.362	-3.006	36.235
H	29.79	-1.984	37.267
O	50.414	0.754	35.539
H	50.654	1.551	35.066
H	49.472	0.664	35.393
O	42.517	5.31	44.306
H	41.573	5.314	44.465
H	42.722	6.212	44.06
O	39.841	2.62	35.57
H	39.955	2.544	34.623
H	39.158	1.983	35.781
O	42.077	5.808	27.284
H	42.893	6.016	26.83
H	41.399	6.254	26.777
O	38.949	-0.239	45.669
H	39.01	0.196	44.818
H	39.82	-0.61	45.812
O	40.272	2.399	41.007
H	39.742	2.318	40.214
H	40.663	1.533	41.123
O	41.266	2.651	45.906
H	40.563	2.384	45.315
H	40.838	2.758	46.755
O	43.921	1.877	33.122
H	43.384	1.235	33.587
H	43.318	2.289	32.502
O	48.676	7.835	37.015
H	49.446	8.396	36.923
H	48.269	8.12	37.833
O	45.445	11.509	27.647
H	45.155	11.658	26.747
H	44.677	11.147	28.089
O	36.36	7.478	39.965
H	36.331	7.612	39.018
H	37.176	7	40.114
O	42.794	5.438	37.779
H	43.219	6.041	38.389
H	43.13	4.575	38.023
O	38.649	5.539	31.155
H	39.113	5.128	30.425
H	39.329	6.014	31.634
O	35.256	2.021	38.234
H	35.19	1.636	39.108
H	34.885	2.898	38.33
O	50.601	9.022	40.747
H	51.129	8.238	40.597

H	50.97	9.676	40.154
O	46.458	4.649	36.582
H	46.465	4.826	37.522
H	45.68	4.109	36.444
O	42.816	10.721	37.236
H	42.511	9.825	37.381
H	42.946	11.075	38.115
O	44.889	9.185	43.482
H	45.282	10.027	43.712
H	45.185	9.018	42.587
O	49.026	1.992	29.211
H	48.863	1.891	28.273
H	49.231	1.107	29.514
O	28.921	9.454	42.297
H	29.519	9.477	41.549
H	29.184	10.2	42.836
O	32.594	4.8	42.864
H	32.668	5.491	42.206
H	33.313	4.971	43.473
O	41.308	6.791	29.881
H	40.492	7.189	29.579
H	41.736	6.485	29.082
O	44.299	6.259	33.613
H	43.569	6.52	34.175
H	45.069	6.318	34.179
O	50.129	9.758	23.23
H	49.388	10.209	23.636
H	50.747	9.618	23.948
O	34.445	11.233	33.362
H	34.169	10.317	33.326
H	33.927	11.612	34.072
O	44.422	2.53	35.8
H	44.485	2.203	34.903
H	43.483	2.632	35.953
O	31.776	6.802	30.124
H	31.099	7.433	29.879
H	32.059	6.419	29.293
O	30.92	7.264	25.545
H	31.348	7.829	26.189
H	31.329	7.498	24.712
O	42.644	5.051	31.748
H	43.443	5.485	32.048
H	42.235	5.684	31.158
O	30.147	11.662	43.983
H	29.777	11.435	44.837
H	31.085	11.493	44.076
O	31.073	7.501	37.045

H	31.938	7.812	36.777
H	30.862	8.019	37.822
O	35.158	14.266	49.896
H	34.489	14.708	50.42
H	34.664	13.677	49.326
O	36.791	7.888	29.798
H	36.71	8.318	30.65
H	36.796	6.953	30.001
O	38.645	0.72	48.125
H	38.435	0.72	47.191
H	39.386	0.119	48.204
O	36.39	9.199	43.566
H	37.243	8.798	43.399
H	36.23	9.04	44.497
O	45.897	9.721	30.911
H	45.159	10.117	31.375
H	45.576	8.861	30.641
O	30.518	2.343	54.339
H	30.132	3.213	54.241
H	31.452	2.475	54.177
O	39.409	-3.205	31.68
H	38.824	-3.62	31.046
H	40.283	-3.312	31.305
O	35.815	3.908	41.639
H	35.129	4.428	41.22
H	35.735	3.041	41.242
O	41.662	-3.333	30.171
H	41.682	-3.239	29.218
H	42.436	-3.857	30.376
O	53.522	9.572	43.604
H	54.107	10.297	43.381
H	53.936	9.155	44.36
O	31.346	1.288	46.834
H	30.925	0.54	47.257
H	31.288	1.097	45.897
O	34.492	4.652	26.37
H	34.595	3.719	26.558
H	35.066	4.81	25.62
O	38.848	3.963	28.694
H	38.888	3.034	28.92
H	39.501	4.07	28.002
O	47.489	5.728	45.625
H	46.655	5.433	45.257
H	47.472	5.421	46.532
O	44.906	-0.026	45.485
H	44.46	-0.36	46.263
H	44.237	0.48	45.024

O	40.115	9.331	41.566
H	40.27	9.421	40.626
H	39.655	10.133	41.811
O	40.255	-10.175	42.396
H	40.347	-10.304	43.34
H	40.969	-9.579	42.165
O	39.886	-6.224	44.602
H	39.273	-5.708	45.125
H	39.482	-7.09	44.544
O	20.431	14.633	54.189
H	19.938	14.345	53.421
H	21.339	14.4	53.993
O	33.027	10.206	47.079
H	33.818	9.681	46.962
H	32.329	9.677	46.692
O	40.847	9.153	32.709
H	40.956	9.369	33.635
H	40.743	8.201	32.696
O	31.991	8.65	27.402
H	32.899	8.903	27.57
H	31.487	9.096	28.082
O	33.951	10.284	40.282
H	34.753	10.746	40.04
H	33.954	10.283	41.239
O	35.849	3.814	48.012
H	36.254	3.46	48.804
H	34.962	3.455	48.016
O	38.229	11.486	41.934
H	37.405	11.102	42.234
H	38.538	12.002	42.679
O	47.59	6.08	50.134
H	47.814	6.764	49.503
H	47.614	6.521	50.983
O	47.878	2.275	35.58
H	47.456	1.76	36.268
H	47.842	3.177	35.899
O	46.801	3.461	30.362
H	47.027	3.672	31.268
H	47.476	2.841	30.085
O	29.181	2.611	33.358
H	28.766	3.32	33.85
H	30.117	2.806	33.401
O	46.378	6.864	41.107
H	46.424	7.707	40.658
H	47.002	6.943	41.829
O	41.051	14.344	46.597
H	40.991	14.181	47.539

H	41.712	13.723	46.289
O	40.633	-0.225	38.056
H	40.218	-1.055	38.293
H	40.02	0.444	38.36
O	61.631	2.246	38.511
H	61.581	1.489	39.094
H	61.215	1.953	37.701
O	40.009	11.748	37.893
H	40.341	12.64	37.995
H	40.785	11.224	37.696
O	44.738	4.687	45.385
H	43.791	4.765	45.276
H	45.003	4.042	44.729
O	46.465	1.639	49.351
H	45.547	1.441	49.539
H	46.723	0.983	48.704
O	36.342	8.097	33.446
H	35.42	8.145	33.195
H	36.477	7.182	33.691
O	37.007	3.306	44.046
H	36.281	2.762	44.352
H	36.696	3.679	43.221
O	33.903	8.631	37.763
H	34.83	8.847	37.663
H	33.668	8.978	38.624
O	42.334	8.794	48.663
H	42.138	8.577	47.751
H	41.731	8.253	49.173
O	33.79	9.288	43.28
H	34.736	9.152	43.225
H	33.696	10.186	43.599
O	48.27	14.018	34.954
H	47.558	13.407	34.765
H	48.932	13.487	35.396
O	29.257	5.064	41.846
H	29.912	4.883	41.171
H	29.588	4.62	42.626
O	33.305	13.518	39.893
H	32.641	13.524	39.203
H	33.915	12.828	39.631
O	45.085	9.622	40.722
H	44.253	10.088	40.809
H	45.526	10.053	39.99
O	31.352	12.911	32.165
H	30.804	13.569	32.592
H	31.405	12.196	32.799
O	35.352	12.054	38.779

H	35.212	12.302	37.865
H	36.293	11.895	38.843
O	46.117	13.829	42.5
H	46.943	13.721	42.028
H	46.255	14.599	43.052
O	37.707	9.883	35.192
H	37.674	10.66	34.633
H	37.454	9.162	34.616
O	48.011	7.616	52.606
H	48.417	6.989	53.204
H	48.747	8.095	52.225
O	37.894	1.152	29.546
H	37.817	1.561	30.408
H	37.276	0.422	29.571
O	44.468	5.741	23.35
H	44.084	4.926	23.024
H	45.307	5.477	23.726
O	31.726	4.444	15.604
H	31.528	3.515	15.481
H	32.678	4.498	15.526
O	42.095	11.987	21.688
H	41.547	11.373	21.199
H	41.683	12.041	22.55
O	33.807	1.681	16.326
H	34.19	0.828	16.122
H	33.525	1.606	17.237
O	33.634	5.785	21.391
H	33.243	5.342	20.638
H	32.894	5.982	21.964
O	38.721	7.568	16.269
H	39.41	7.777	16.901
H	37.946	7.404	16.806
O	44.79	4.843	15.477
H	44.574	4.493	14.612
H	43.961	5.182	15.812
O	36.561	5.933	15.152
H	37.12	5.344	14.645
H	36.86	6.811	14.915
O	33.41	8.559	24.394
H	33.977	8.01	24.936
H	33.976	9.274	24.103
O	37.861	1.538	26.733
H	37.087	1.454	26.176
H	37.595	1.162	27.572
O	31.461	10.799	18.62
H	31.541	10.338	19.455
H	30.527	10.756	18.411

O	40.831	0.537	28.493
H	40.037	0.692	29.005
H	41	1.371	28.054
O	37.819	15.095	19.664
H	38.251	15.576	20.369
H	37.089	15.657	19.403
O	48.4	5.313	14.232
H	48.047	4.747	13.545
H	47.998	6.166	14.07
O	45.588	6.606	19.152
H	46.219	6.245	19.774
H	45.968	7.443	18.883
O	43.533	1.282	20.542
H	43.318	0.648	19.858
H	44.391	1.624	20.29
O	51.91	7.975	29.351
H	51.035	7.731	29.653
H	51.774	8.781	28.853
O	50.943	-0.356	14.901
H	50.249	-0.027	14.33
H	50.483	-0.675	15.678
O	44.156	8.26	13.699
H	43.709	7.629	14.264
H	43.569	9.015	13.673
O	32.888	4.545	18.693
H	32.804	3.607	18.861
H	32.94	4.614	17.739
O	41.723	9.597	27.011
H	42.237	9.52	27.815
H	40.873	9.928	27.301
O	35.546	10.167	24.124
H	35.956	9.909	24.95
H	36.193	9.943	23.455
O	52.57	-2.829	15.887
H	53.284	-2.199	15.979
H	51.897	-2.358	15.395
O	31.978	3.989	23.01
H	31.058	3.926	22.755
H	32.13	3.216	23.554
O	42.34	6.151	15.937
H	42.394	6.679	16.734
H	41.448	5.805	15.94
O	34.5	8.798	28.752
H	34.675	8.358	27.921
H	35.277	8.624	29.284
O	29.013	-6.109	19.429
H	28.952	-5.986	18.482

H	29.862	-5.735	19.665
O	56.005	6.664	30.955
H	55.118	6.576	31.306
H	56.573	6.362	31.663
O	35.013	7.499	26.192
H	35.902	7.168	26.067
H	34.465	6.715	26.204
O	31.418	7.608	22.556
H	30.89	8.208	22.028
H	32.104	8.159	22.931
O	54.861	0.774	27.059
H	55.335	1.557	27.337
H	55.36	0.047	27.432
O	43.497	13.501	26.586
H	43.213	13.324	27.483
H	42.72	13.855	26.154
O	46.857	12.426	17.066
H	47.03	13.268	16.645
H	47.623	11.891	16.857
O	34.755	12.349	15.925
H	35.458	11.896	15.46
H	33.968	11.844	15.721
O	36.84	2.216	12.026
H	37.403	2.053	12.783
H	35.979	1.897	12.296
O	42.163	16.536	20.842
H	41.957	15.675	20.479
H	42.43	16.359	21.744
O	38.423	13.706	17.549
H	38.26	14.162	18.375
H	38.486	12.783	17.794
O	48.751	5.058	16.809
H	47.923	4.857	17.245
H	48.519	5.148	15.884
O	40.792	4.737	22.986
H	41.536	4.141	22.896
H	40.442	4.552	23.858
O	44.248	2.022	16.891
H	44.534	1.219	17.327
H	44.894	2.679	17.15
O	33.258	-1.937	19.183
H	32.572	-2.602	19.128
H	33.37	-1.785	20.122
O	32.894	12.69	23.672
H	33.35	12.006	23.182
H	32.658	12.274	24.501
O	35.064	7.857	20.544

H	34.388	8.244	19.987
H	34.589	7.247	21.108
O	40.375	7.535	25.324
H	40.765	8.188	25.905
H	40.849	7.635	24.499
O	34.365	4.894	16.032
H	34.686	4.02	16.251
H	35.088	5.302	15.554
O	35.991	6.197	8.95
H	36.111	7.141	9.052
H	35.075	6.099	8.689
O	34.542	4.493	33.71
H	35.421	4.124	33.627
H	34.268	4.663	32.809
O	33.083	2.766	6.992
H	32.984	2.652	7.937
H	33.86	2.252	6.769
O	43.474	8.965	8.115
H	43.252	8.313	8.78
H	43.425	9.803	8.575
O	27.07	8.136	24.37
H	26.619	7.625	25.043
H	27.164	7.533	23.633
O	35.912	-1.102	29.25
H	36.257	-1.553	28.479
H	35.07	-1.527	29.418
O	55.965	8.525	27.198
H	56.362	8.279	26.363
H	55.066	8.203	27.141
O	47.88	3.707	12.22
H	47.144	3.714	11.609
H	48.248	2.826	12.142
O	44.596	-2.4	27.834
H	44.257	-1.553	28.125
H	45.444	-2.481	28.269
O	45.83	7.45	11.061
H	46.567	6.952	11.415
H	45.849	8.279	11.54
O	36.53	7.064	11.834
H	35.907	7.791	11.788
H	36.084	6.399	12.358
O	36.046	11.811	11.387
H	36.745	11.384	10.891
H	35.377	11.134	11.49
O	33.593	-4.489	11.202
H	33.916	-3.674	11.586
H	34.335	-4.827	10.701

O	38.466	-1.313	6.596
H	38.665	-0.433	6.278
H	38.727	-1.892	5.88
O	39.028	12.112	26.7
H	39.216	11.716	25.85
H	39.432	12.978	26.655
O	37.69	6.588	25.728
H	37.846	5.659	25.561
H	38.524	7.011	25.523
O	44.131	-0.246	14.291
H	44.094	-0.687	13.442
H	45.016	0.115	14.336
O	44.887	7.229	31.166
H	44.741	6.851	32.034
H	45.16	6.488	30.626
O	26.424	10.102	19.094
H	26.18	11.014	18.937
H	27.377	10.122	19.187
O	47.461	0.684	16.594
H	46.644	0.45	17.034
H	47.896	1.284	17.2
O	25.399	10.881	26.016
H	26.057	10.57	25.394
H	24.578	10.863	25.524
O	35.831	5.27	29.16
H	36.617	4.751	29.329
H	35.752	5.282	28.206
O	36.579	13.765	8.709
H	36.683	12.825	8.566
H	36.61	14.146	7.831
O	30.714	1.227	17.307
H	30.739	0.277	17.197
H	30.797	1.573	16.418
O	47.498	14.335	15.242
H	47.765	15.236	15.423
H	46.592	14.41	14.941
O	31.853	13.415	17.653
H	32.193	13.07	16.827
H	31.457	12.657	18.083
O	45.928	-3.002	16.053
H	45.272	-3.648	15.789
H	46.089	-2.487	15.262
O	37.208	-3.306	8.191
H	36.409	-2.978	8.604
H	37.571	-2.547	7.735
O	30.264	-12.18	15.272
H	29.854	-12.055	16.128

H	29.574	-12.56	14.729
O	39.913	5.408	20.545
H	38.995	5.153	20.449
H	40.083	5.34	21.484
O	29.118	1.824	21.558
H	28.337	2.24	21.924
H	29.429	2.44	20.895
O	33.295	8.294	13.653
H	33.726	8.746	12.928
H	32.439	8.045	13.305
O	33.296	10.894	30.512
H	33.557	10.066	30.11
H	33.727	10.892	31.367
O	32.714	10.348	15.419
H	31.772	10.187	15.468
H	33.1	9.479	15.308
O	41.726	11.039	34.727
H	41.646	11.988	34.637
H	42.055	10.909	35.617
O	45.368	5.353	28.945
H	45.789	4.748	29.555
H	45.901	6.146	28.988
O	43.488	10.395	11.136
H	43.885	11.251	10.976
H	44.188	9.878	11.536
O	36.611	5.801	37.271
H	37.424	5.312	37.144
H	36.872	6.72	37.21
O	40.394	-1.23	13.547
H	40.729	-0.53	12.987
H	40.484	-0.888	14.437
O	44.357	7.138	25.949
H	44.532	6.629	25.157
H	44.064	7.99	25.626
O	37.504	-0.289	13.856
H	38.055	-0.853	14.398
H	37.819	-0.433	12.963
O	39.818	10.675	28.932
H	40.283	10.992	29.706
H	39.578	11.47	28.455
O	36.658	7.232	18.076
H	36.285	7.68	18.834
H	35.91	7.068	17.502
O	34.954	-0.665	14.347
H	35.842	-0.437	14.073
H	35.017	-0.781	15.295
O	37.718	10.174	9.413

H	38.077	10.094	8.529
H	38.329	9.687	9.965
O	40.519	5.451	33.211
H	41.287	5.155	32.723
H	40.848	6.154	33.771
O	42.981	-0.351	34.439
H	42.856	-0.83	35.258
H	42.113	-0.331	34.038
O	44.839	0.654	23.129
H	44.504	0.052	23.794
H	44.48	0.325	22.305
O	41.714	-5.182	24.05
H	41.353	-5.528	23.234
H	40.947	-4.951	24.573
O	46.846	4.951	24.168
H	47.259	4.99	25.031
H	46.881	4.025	23.927
O	34.712	14.155	25.585
H	34.955	15.077	25.5
H	33.908	14.071	25.072
O	36.876	9.554	26.708
H	36.176	8.9	26.71
H	37.614	9.115	27.131
O	42.181	9.961	14.655
H	41.358	10.284	15.021
H	42.818	10.076	15.361
O	36.998	11.979	13.896
H	37.35	12.862	14.003
H	36.743	11.933	12.975
O	39.353	0.448	24.71
H	39.104	0.864	25.535
H	38.773	-0.311	24.64
O	39.365	10.803	14.027
H	39.629	11.052	14.913
H	38.445	11.064	13.969
O	27.077	10.647	22.954
H	26.56	10.335	22.211
H	27.282	9.856	23.452
O	52.608	13.061	24.926
H	53.081	13.543	24.248
H	52.486	12.186	24.557
O	43.313	14.227	8.899
H	42.708	13.553	8.589
H	42.772	14.806	9.435
O	46.29	-2.82	10.775
H	46.465	-3.713	10.479
H	46.766	-2.744	11.603

O	32.845	-5.369	15.38
H	33.653	-4.86	15.322
H	32.155	-4.753	15.133
O	51.502	4.756	21.164
H	51.232	4.996	20.277
H	50.682	4.692	21.655
O	48.115	9.025	20.069
H	48.55	9.791	20.444
H	47.65	8.629	20.806
O	46.334	4.205	17.593
H	45.997	4.407	16.72
H	46.023	4.925	18.142
O	45.27	-0.472	17.547
H	45.643	-1.284	17.206
H	44.615	-0.758	18.184
O	37.049	2.892	15.494
H	36.517	2.508	16.192
H	37.514	2.148	15.112
O	43.938	-6.149	37.584
H	43.377	-6.891	37.806
H	44.646	-6.531	37.064
O	38.544	1.58	22.208
H	39.227	1.469	22.869
H	39.013	1.569	21.374
O	44.307	15.805	11.897
H	43.471	15.945	11.453
H	44.599	16.683	12.141
O	30.046	9.442	21.181
H	29.516	9.39	20.386
H	30.193	10.379	21.31
O	38.694	11.073	18.919
H	37.739	11.006	18.926
H	38.972	10.605	19.706
O	52.132	16.553	26.656
H	51.836	17.208	27.288
H	52.013	15.716	27.105
O	33.702	13.288	28.268
H	33.716	13.455	27.325
H	34.568	12.929	28.46
O	50.982	10.446	16.734
H	50.45	11.168	16.401
H	50.642	9.671	16.286
O	30.189	9.589	29.003
H	30.056	10.465	28.641
H	30.143	9.712	29.951
O	36.268	16.43	17.888
H	36.345	15.949	17.065

H	35.354	16.315	18.149
O	40.785	9.749	20.427
H	40.698	9.08	19.748
H	41.227	9.302	21.148
O	23.907	8.393	23.815
H	24.259	8.412	24.705
H	24.647	8.64	23.26
O	34.987	13.491	19.403
H	35.227	14.314	19.829
H	34.622	13.757	18.559
O	37.864	13.215	30.59
H	38.731	13.32	30.199
H	37.305	12.939	29.863
O	40.951	12.773	7.986
H	40.698	12.024	8.525
H	41.547	12.407	7.332
O	29.876	10.359	15.762
H	29.398	9.625	15.378
H	29.2	11.003	15.972
O	41.686	5.863	12.452
H	41.278	6.584	12.932
H	41.112	5.114	12.612
O	43.097	8.893	29.438
H	43.683	8.526	30.1
H	42.276	8.414	29.553
O	41.355	9.405	5.457
H	42.039	8.825	5.124
H	40.57	8.858	5.487
O	41.86	5.983	3.331
H	41.624	6.69	2.73
H	42.228	5.302	2.767
O	31.477	-1.431	5.577
H	32.01	-2.138	5.213
H	31.857	-0.632	5.212
O	44.677	5.8	2.123
H	44.335	6.46	1.52
H	45.288	5.286	1.594
O	38.87	0.457	9.157
H	38.875	-0.459	8.879
H	38.818	0.954	8.341
O	27.589	2.354	-1.037
H	26.726	1.941	-1.016
H	27.409	3.29	-0.949
O	49.926	11.902	5.909
H	49.782	12.458	5.144
H	50.146	12.514	6.612
O	43.207	14.211	-1.978

H	42.427	14.637	-1.621
H	43.294	13.405	-1.469
O	34.185	5.209	6.802
H	34.852	5.153	6.118
H	33.826	4.324	6.861
O	35.268	11.027	2.788
H	34.587	11.588	2.417
H	35.405	10.348	2.127
O	39.469	0.677	1.165
H	39.803	-0.22	1.153
H	38.796	0.692	0.485
O	41.101	8.929	2.439
H	41.949	9.366	2.35
H	40.99	8.452	1.617
O	46.399	2.241	3.609
H	46.636	1.983	2.718
H	46.9	1.651	4.171
O	50.989	4.333	3.054
H	50.125	4.098	3.392
H	50.971	4.059	2.137
O	38.294	6.852	1.994
H	38.527	6.314	1.237
H	38.518	6.31	2.751
O	35.502	11.905	6.88
H	35.948	12.168	6.075
H	35.183	11.021	6.7
O	53.142	8.541	6.676
H	53.807	9.204	6.862
H	53.621	7.84	6.234
O	34.354	9.522	11.182
H	34.654	9.402	10.281
H	33.446	9.812	11.096
O	34.372	3.618	-0.272
H	33.587	3.126	-0.033
H	34.255	4.473	0.143
O	40.553	10.406	9.351
H	40.446	10.242	10.288
H	40.367	9.563	8.938
O	48.556	6.466	11.122
H	48.808	5.543	11.147
H	48.591	6.698	10.195
O	29.596	8.548	4.581
H	29.343	7.648	4.374
H	28.773	8.983	4.803
O	46.132	3.115	6.83
H	46.429	3.757	7.476
H	45.472	3.58	6.316

O	33.404	13.102	8.308
H	34.222	12.768	7.939
H	33.575	13.171	9.247
O	29.828	9.012	9.605
H	29.124	8.383	9.448
H	29.754	9.227	10.535
O	38.627	1.902	6.755
H	38.686	2.652	7.348
H	39.411	1.967	6.209
O	36.367	-4.138	3.49
H	36.161	-4.927	2.991
H	36.534	-4.453	4.379
O	35.5	1.838	5.914
H	36.088	1.81	6.669
H	35.908	2.465	5.316
O	35.805	6.435	-0.027
H	35.889	7.32	0.328
H	36.705	6.111	-0.078
O	36.884	-3.568	0.971
H	36.776	-2.641	0.756
H	36.79	-3.605	1.923
O	47.272	-2.052	-4.96
H	46.711	-2.451	-4.295
H	47.53	-1.211	-4.582
O	41.913	3.056	6.867
H	41.996	3.072	5.913
H	42.782	2.803	7.179
O	37.76	-6.626	2.548
H	38.086	-7.397	2.084
H	38.104	-6.719	3.437
O	27.936	-3.202	4.796
H	28.738	-2.807	4.455
H	27.264	-2.532	4.664
O	33.318	0.245	9.736
H	33.138	1.139	10.027
H	34.063	0.332	9.142
O	40.583	3.263	13.073
H	40.481	2.737	12.28
H	41.114	2.719	13.655
O	43.08	-1.1	2.466
H	42.798	-0.952	3.368
H	42.984	-0.247	2.042
O	46.087	1.607	0.193
H	45.198	1.925	0.033
H	46.321	1.136	-0.606
O	39.037	8.049	10.916
H	38.145	7.712	10.999

H	39.497	7.7	11.68
O	35.342	-0.518	4.548
H	35.372	0.209	5.17
H	35.484	-1.298	5.083
O	42.16	16.726	4.689
H	41.768	16.192	3.998
H	41.614	16.561	5.458
O	27.499	10.385	5.531
H	26.734	10.057	6.005
H	28.198	10.399	6.185
O	42.343	14.653	15.075
H	42.714	15.498	15.331
H	41.812	14.848	14.304
O	46.24	-2.766	2.293
H	45.749	-3.54	2.57
H	45.58	-2.189	1.909
O	36.617	9.137	1.309
H	37.08	8.371	1.649
H	37.295	9.806	1.219
O	32.048	10.264	5.659
H	31.362	9.753	5.228
H	31.59	10.742	6.351
O	29.927	2.988	11.558
H	30.646	3.488	11.171
H	29.224	3.041	10.911
O	46.613	5.309	8.345
H	47.537	5.37	8.588
H	46.206	6.07	8.759
O	46.198	10.101	12.207
H	45.879	10.503	13.015
H	46.441	10.84	11.65
O	29.015	-0.49	11.8
H	28.567	-0.25	10.989
H	29.062	-1.445	11.775
O	43.112	7.277	10.237
H	44.068	7.323	10.26
H	42.867	6.951	11.102
O	48.909	-0.069	12.703
H	49.691	0.335	12.327
H	48.572	-0.633	12.007
O	35.877	0.957	8.959
H	36.679	0.55	9.288
H	36.008	1.894	9.101
O	38.126	-1.007	11.379
H	38.826	-1.638	11.213
H	38.384	-0.227	10.889
O	41.768	-0.327	6.333

H	42.143	-1.05	5.83
H	41.244	0.16	5.698
O	39.632	4.252	7.615
H	40.473	3.836	7.426
H	39.854	5.003	8.166
O	35.847	5.022	4.466
H	35.992	4.287	3.87
H	36.669	5.105	4.948
O	43.954	3.453	4.341
H	44.613	3.178	3.704
H	43.749	4.357	4.099
O	38.703	9.239	7.151
H	37.926	9.269	6.594
H	39.216	8.507	6.808
O	29.87	11.038	12.089
H	30.482	11.498	12.665
H	29.139	11.647	11.982
O	26.034	9.779	2.627
H	26.349	10.061	1.768
H	25.74	10.585	3.05
O	24.044	12.07	3.17
H	23.447	11.523	2.66
H	24.661	12.417	2.526
O	48.682	-1.763	0.478
H	48.737	-1.444	-0.423
H	48.077	-2.503	0.433
O	36.778	-0.633	1.434
H	36.269	-0.755	2.236
H	36.532	0.239	1.125
O	55.413	10.814	3.587
H	55.804	10.933	4.453
H	56.119	11.019	2.975
O	35.899	3.656	9.876
H	35.988	4.576	9.628
H	36.14	3.633	10.802
O	27.387	3.802	2.142
H	27.173	4.439	1.46
H	26.713	3.127	2.058
O	47.102	1.4	9.619
H	46.378	2.012	9.756
H	47.745	1.899	9.115
O	45.632	3.46	10.373
H	45.378	4.015	9.636
H	45.011	3.684	11.066
O	34.672	9.366	6.335
H	33.923	9.599	5.785
H	34.979	8.532	5.979

O	37.451	5.428	6.652
H	38.366	5.218	6.839
H	37.04	5.492	7.514
O	45.771	13.54	4.358
H	46.614	13.39	3.93
H	45.909	13.262	5.263
O	26.368	7.056	-4.72
H	25.472	6.754	-4.869
H	26.913	6.292	-4.905
O	45.297	10.274	6.539
H	46.019	9.714	6.254
H	44.76	9.708	7.093
O	25.906	6.987	-1.57
H	25.972	6.869	-2.518
H	25.911	7.936	-1.445
O	46.751	16.099	-0.21
H	46.468	15.191	-0.107
H	46.225	16.433	-0.936
O	34.49	6.896	-2.598
H	34.604	7.834	-2.749
H	35.038	6.707	-1.837
O	31.986	12.136	13.623
H	32.284	13.009	13.877
H	32.389	11.549	14.263
O	45.498	11.558	14.443
H	45.11	12.161	13.808
H	46.017	12.119	15.019
O	18.27	57.542	55.506
H	18.309	56.596	55.645
H	18.564	57.919	56.335
O	19.598	56.643	63.378
H	18.968	56.435	62.688
H	19.227	56.251	64.168
O	21.655	61.457	58.928
H	21.967	61.209	59.798
H	21.494	62.399	58.991
O	13.129	49.376	57.053
H	12.792	50.206	57.389
H	12.495	49.112	56.386
O	16.381	54.76	54.047
H	16.718	54.295	53.281
H	17.098	54.73	54.68
O	16.285	53.227	61.75
H	16.401	53.085	60.811
H	16.578	52.41	62.154
O	16.776	60.351	59.394
H	16.182	60.547	60.119

H	16.292	59.732	58.848
O	18.412	51.176	55.735
H	19.183	51.335	55.19
H	17.682	51.152	55.116
O	11.489	49.514	59.797
H	11.412	48.689	59.317
H	11.591	49.25	60.711
O	24.672	50.02	58.501
H	24.971	50.857	58.857
H	25.477	49.524	58.348
O	32.773	57.705	50.614
H	32.931	58.276	49.862
H	33.323	56.938	50.452
O	36.02	50.657	52.26
H	36.827	50.232	52.549
H	36.293	51.226	51.54
O	16.302	48.703	61.405
H	15.455	49.122	61.255
H	16.862	49.405	61.736
O	18.853	58.569	58.135
H	18.927	59.327	58.715
H	18.287	57.959	58.608
O	25.761	56.977	56.086
H	25.872	57.317	56.974
H	26.565	56.485	55.916
O	29.96	55.593	47.591
H	29.366	55.217	46.942
H	30.102	56.492	47.295
O	17.905	52.657	58.958
H	17.662	51.731	58.956
H	17.457	53.024	58.196
O	20.601	54.594	57.494
H	20.882	53.699	57.685
H	21.354	55.137	57.727
O	29.924	53.379	49.1
H	30.133	54.242	48.741
H	29.214	53.056	48.546
O	16.885	53.715	47.037
H	16.15	53.909	47.619
H	17.347	54.549	46.948
O	11.954	55.17	57.372
H	12.213	54.892	58.251
H	12.711	54.966	56.824
O	10.394	44.323	55.331
H	9.872	44.625	56.074
H	10.639	45.126	54.87
O	21.658	54.108	49.678

H	22.33	53.877	50.319
H	22.022	53.828	48.838
O	21.641	49.042	59.159
H	21.85	49.245	60.071
H	20.905	49.616	58.948
O	12.599	54.499	49.012
H	13.509	54.365	49.276
H	12.088	54.013	49.659
O	19.212	55.043	49.974
H	20.091	54.712	49.789
H	19.358	55.873	50.426
O	27.232	47.392	54.927
H	26.605	46.79	54.527
H	27.064	47.323	55.867
O	11.306	52.098	58.423
H	11.145	51.224	58.777
H	10.496	52.578	58.593
O	14.149	55.053	55.555
H	15.014	55.014	55.148
H	13.582	55.423	54.878
O	23.312	53.555	58.058
H	23.018	52.815	58.588
H	24.261	53.58	58.186
O	18.236	55.038	56.383
H	18.852	55.064	57.115
H	17.574	54.401	56.65
O	9.15	55.46	47.753
H	8.991	54.573	48.074
H	9.485	55.337	46.865
O	10.554	57.824	55.716
H	9.607	57.69	55.678
H	10.71	58.188	56.587
O	27.41	46.534	58.608
H	27.154	47.453	58.694
H	28.18	46.447	59.17
O	14.623	60.493	50.34
H	15.564	60.335	50.417
H	14.23	59.932	51.008
O	6.848	53.268	57.811
H	5.903	53.143	57.894
H	6.985	53.446	56.88
O	22.979	56.908	50.676
H	22.026	56.927	50.587
H	23.13	56.788	51.614
O	17.559	56.792	59.635
H	17.522	56.393	60.504
H	16.869	56.351	59.139

O	18.307	49.994	51.538
H	19.194	50.267	51.773
H	18.423	49.437	50.769
O	23.438	52.995	55.011
H	24.112	53.531	54.594
H	23.689	52.969	55.934
O	24.387	52.931	50.675
H	24.712	52.545	49.861
H	24.79	53.798	50.707
O	3.481	54.376	56.164
H	4.171	53.895	55.707
H	3.67	55.297	55.981
O	20.675	60.388	49.455
H	19.895	60.335	50.008
H	20.433	59.922	48.655
O	15.595	47.626	57.059
H	14.907	48.271	56.892
H	15.166	46.78	56.936
O	10.866	53.294	55.581
H	10.729	52.353	55.686
H	11.067	53.607	56.463
O	28.006	51.497	53.003
H	27.704	50.857	52.358
H	28.816	51.847	52.632
O	15.698	55.963	57.93
H	15.088	55.252	58.127
H	15.59	56.118	56.992
O	24.135	47.314	59.483
H	23.912	48.23	59.314
H	23.64	46.823	58.828
O	26.07	47.983	45.398
H	26.618	48.768	45.386
H	26.423	47.457	46.116
O	28.447	56.063	55.235
H	28.381	55.124	55.063
H	28.692	56.121	56.158
O	8.731	56.196	52.125
H	8.653	57.031	51.664
H	9.334	56.376	52.846
O	18.551	59.894	50.921
H	18.063	60.491	51.488
H	17.889	59.295	50.577
O	15.303	57.474	47.789
H	15.19	57.972	46.979
H	14.411	57.296	48.087
O	21.058	56.916	59.152
H	20.146	56.984	58.87

H	21.106	57.455	59.941
O	23.085	56.383	47.883
H	23.948	56.634	48.213
H	22.519	56.4	48.654
O	20.557	44.577	55.285
H	19.758	44.86	54.84
H	21.246	45.127	54.912
O	17.727	51.814	45.713
H	18.632	52.097	45.844
H	17.206	52.431	46.226
O	22.722	49.082	53.911
H	22.892	49.493	54.758
H	22.909	49.767	53.27
O	28.369	58.827	55.398
H	29.32	58.718	55.431
H	28.035	57.951	55.206
O	9.039	53.743	50.824
H	8.084	53.767	50.886
H	9.331	54.506	51.322
O	29.761	62.899	49.659
H	28.868	62.668	49.912
H	29.749	62.893	48.702
O	26.097	46.394	49.155
H	25.95	47.312	49.385
H	25.447	45.912	49.666
O	29.201	49.055	48.929
H	28.945	48.459	48.226
H	28.958	48.596	49.733
O	5.187	57.743	53.38
H	5.993	58.233	53.543
H	5.467	56.828	53.339
O	31.109	50.882	50.02
H	30.278	50.516	49.717
H	30.991	51.83	49.957
O	17.719	49.54	47.088
H	17.788	50.337	46.563
H	16.934	49.103	46.757
O	10.363	52.048	48.868
H	9.871	52.2	48.061
H	9.799	52.392	49.561
O	24.494	48.354	50.638
H	24.221	49.009	49.996
H	23.681	48.084	51.065
O	21.83	43.628	63.325
H	21.224	44.158	62.807
H	22.672	44.078	63.241
O	29.575	47.835	53.658

H	28.783	47.807	54.195
H	30.259	48.14	54.254
O	28.988	46.297	44.378
H	28.767	46.635	45.246
H	28.912	45.346	44.466
O	33.576	52.278	50.361
H	33.189	52.887	50.99
H	32.941	51.566	50.295
O	16.832	50.889	63.321
H	16.734	50.054	63.779
H	16.501	51.541	63.939
O	19.311	48.058	61.093
H	19.617	48.919	61.378
H	18.89	48.22	60.249
O	27.732	51.702	61.413
H	28.061	52.482	60.966
H	28.496	51.13	61.491
O	10.88	55.553	53.819
H	10.803	56.238	54.484
H	10.941	54.74	54.32
O	18.486	48.959	58.695
H	18.55	48.332	57.975
H	17.949	49.671	58.345
O	25.672	54.112	53.72
H	25.983	53.829	52.86
H	26.432	54.016	54.294
O	23.873	45.812	45.183
H	24.519	46.443	44.866
H	23.36	46.297	45.829
O	16.114	44.218	45.355
H	15.301	44.708	45.475
H	15.83	43.35	45.066
O	16.166	51.012	54.193
H	15.596	50.309	53.884
H	15.765	51.813	53.855
O	23.194	60.138	34.602
H	22.546	60.737	34.973
H	22.916	60.018	33.694
O	23.39	59.545	41.617
H	22.625	59.528	41.043
H	23.732	58.651	41.587
O	24.948	53.874	46.048
H	24.789	54.806	45.895
H	25.187	53.527	45.189
O	10.666	57.355	43.251
H	10.417	58.277	43.315
H	10.158	56.922	43.938

O	18.663	58.393	40.197
H	18.338	58.681	41.05
H	18.519	59.144	39.621
O	21.614	54.929	44.751
H	22.182	55.68	44.926
H	21.693	54.783	43.808
O	30.632	51.636	35.116
H	30.177	51.936	34.33
H	30.83	50.716	34.942
O	19.406	57.93	29.379
H	19.794	58.647	28.878
H	20.005	57.195	29.247
O	28.289	55.747	39.579
H	28.8	56.42	40.029
H	28.112	56.119	38.715
O	5.283	54.36	40.353
H	4.853	53.62	39.924
H	5.165	55.09	39.744
O	16.189	63.035	38.862
H	16.064	63.918	38.513
H	15.48	62.926	39.496
O	39.393	61.463	44.069
H	38.49	61.768	43.986
H	39.684	61.33	43.166
O	16.425	54.814	35.961
H	17.284	55.228	36.041
H	15.841	55.375	36.472
O	30.554	56.865	40.844
H	30.933	56.402	41.591
H	31.264	56.906	40.203
O	20.539	52.356	39.573
H	20.316	51.457	39.815
H	21.133	52.649	40.264
O	27.992	58.486	46.693
H	28.698	58.468	47.339
H	28.412	58.23	45.872
O	26.079	49.68	38.309
H	25.463	50.323	38.658
H	26.658	49.479	39.045
O	24.038	60.58	50.301
H	23.833	60.398	51.218
H	23.186	60.717	49.888
O	20.612	58.196	36.028
H	21.413	58.467	36.476
H	20.054	58.974	36.044
O	18.344	48.866	28.203
H	17.425	48.745	27.964

H	18.552	48.108	28.749
O	23.143	55.715	41.46
H	22.891	54.856	41.8
H	23.918	55.543	40.926
O	26.551	60.706	28.853
H	25.796	60.488	28.307
H	26.235	61.401	29.431
O	20.305	58.368	47.377
H	21.137	58.01	47.688
H	20.395	58.387	46.424
O	22.103	52.82	36.967
H	21.699	52.444	37.749
H	21.585	52.474	36.24
O	22.472	53.27	41.913
H	23.128	52.826	42.45
H	21.638	53.069	42.338
O	25.399	51.766	35.611
H	25.749	52.498	36.118
H	25.238	52.132	34.741
O	23.902	51.605	39.308
H	24.018	52.253	38.613
H	23.074	51.174	39.099
O	15.288	56.816	37.614
H	14.35	56.722	37.783
H	15.684	56.866	38.484
O	18.379	60.059	38.133
H	18.384	60.956	37.799
H	18.162	59.521	37.372
O	25.339	44.687	39.701
H	24.873	45.497	39.498
H	26.002	44.946	40.341
O	17.302	50.674	38.525
H	17.63	51.273	37.855
H	17.825	49.88	38.415
O	21.89	43.388	41.153
H	22.727	42.972	40.944
H	21.606	43.783	40.329
O	27.669	50.271	45.383
H	28.503	49.823	45.525
H	27.769	50.699	44.533
O	16.568	58.161	49.998
H	16.244	57.978	49.117
H	15.891	57.814	50.579
O	26.82	56.099	33.951
H	27.715	56.259	34.25
H	26.857	56.231	33.004
O	14.094	50.144	43.247

H	14.707	50.11	42.512
H	13.664	50.994	43.162
O	19.593	55.17	38.582
H	19.855	54.252	38.655
H	20.386	55.663	38.793
O	24.521	58.803	30.42
H	25.205	59.053	31.041
H	24.632	57.859	30.307
O	20.56	57.71	44.751
H	20.456	56.799	45.027
H	19.698	57.959	44.418
O	24.954	58.397	38.648
H	24.944	57.525	39.043
H	25.187	58.983	39.367
O	15.457	48.033	49.606
H	14.918	48.574	50.183
H	15.894	48.66	49.029
O	20.074	57.408	50.982
H	20.335	57.375	51.903
H	19.644	58.258	50.885
O	11.54	43.975	39.363
H	12.182	44.678	39.468
H	11.91	43.238	39.849
O	10.222	52.05	31.695
H	10.538	51.578	30.925
H	11.001	52.172	32.238
O	22.476	65.628	38.571
H	22.595	65.974	37.686
H	23.123	64.927	38.643
O	21.002	57.78	33.171
H	20.938	57.751	34.126
H	20.276	57.236	32.866
O	11.405	47.991	36.122
H	11.063	47.229	35.654
H	12.277	47.722	36.412
O	16.396	59.099	36.303
H	15.517	59.421	36.104
H	16.251	58.292	36.795
O	27.578	48.875	40.385
H	28.33	48.343	40.123
H	27.049	48.29	40.928
O	22.865	54.052	33.29
H	21.986	53.975	33.66
H	23.258	54.788	33.758
O	26.509	45.135	41.866
H	26.5	46	42.277
H	25.895	44.617	42.386

O	22.302	62.638	42.207
H	22.153	61.741	41.907
H	21.826	62.695	43.036
O	11.872	47.67	43.167
H	11.85	47.899	44.097
H	12.064	48.496	42.722
O	15.404	54.618	49.489
H	16.007	55.357	49.408
H	15.914	53.938	49.929
O	22.24	56.995	38.731
H	22.91	56.448	39.141
H	22.434	56.951	37.795
O	23.116	48.907	33.387
H	23.981	49.209	33.109
H	22.749	48.486	32.609
O	15.651	60.501	46.542
H	14.991	59.96	46.109
H	16.278	60.713	45.852
O	27.183	58.088	28.907
H	27.035	59.015	29.092
H	27.9	58.081	28.273
O	17.33	56.05	39.696
H	18.112	55.594	39.386
H	17.628	56.943	39.872
O	8.827	52.152	46.835
H	7.975	52.588	46.839
H	8.638	51.259	46.549
O	17.276	54.346	43.106
H	16.438	54.36	43.568
H	17.139	54.911	42.345
O	31.966	58.891	31.577
H	32.284	59.765	31.349
H	31.28	59.047	32.226
O	25.818	58.588	50.061
H	25.711	58.065	50.855
H	25.125	59.246	50.112
O	10.699	50.185	34.531
H	11.081	49.485	35.06
H	9.861	50.374	34.954
O	25.618	58.688	33.227
H	26.36	58.583	33.822
H	25.244	57.81	33.153
O	18.45	56.312	32.229
H	17.966	56.917	32.791
H	18.503	56.76	31.385
O	10.698	53.797	45.299
H	10.167	54.531	44.99

H	10.066	53.183	45.672
O	17.593	58.497	33.649
H	18.266	59.176	33.591
H	17.431	58.4	34.587
O	19.442	49.343	37.764
H	19.617	48.437	37.509
H	20.281	49.668	38.089
O	23.897	58.088	36.17
H	24.338	58.442	36.943
H	23.771	58.846	35.599
O	18.076	62.69	36.858
H	17.32	62.452	36.322
H	17.699	63.082	37.645
O	22.991	49.567	46.643
H	22.096	49.87	46.492
H	22.94	48.615	46.557
O	27.006	60.839	36.883
H	27.589	61.08	37.604
H	26.396	61.574	36.813
O	10.312	47.666	31.859
H	10.431	48.135	32.685
H	10.733	48.222	31.204
O	34.548	57.38	44.905
H	35.351	57.211	45.398
H	33.948	57.758	45.548
O	28.114	61.851	39.376
H	28.27	61.715	40.311
H	27.423	62.513	39.343
O	12.394	59.131	38.766
H	12.555	58.215	38.996
H	13.26	59.537	38.779
O	19.636	49.75	31.96
H	18.855	49.786	31.408
H	20.29	49.305	31.421
O	11.885	64.244	44.526
H	11.546	64.785	43.812
H	12.294	64.868	45.125
O	27.329	61.329	50.868
H	27.375	61.08	51.791
H	26.407	61.222	50.637
O	16.473	57.362	45.197
H	16.557	57.106	46.115
H	16.31	56.541	44.732
O	16.069	62.729	34.464
H	16.132	62.827	33.514
H	15.135	62.601	34.631
O	12.429	50.85	46.504

H	11.78	50.783	47.204
H	13.23	50.49	46.884
O	17.265	59.941	30.012
H	17.695	60.795	29.982
H	17.889	59.344	29.598
O	27.74	53.172	55.022
H	28.046	52.475	54.442
H	27.732	52.774	55.892
O	30.458	63.327	43.957
H	30.404	62.382	43.813
H	31.322	63.571	43.625
O	12.941	48.999	40.393
H	12.231	49.403	40.892
H	13.427	49.738	40.027
O	15.322	51.302	47.787
H	15.57	51.103	46.884
H	16.121	51.648	48.184
O	12.513	57.404	48.436
H	12.555	56.485	48.698
H	12.023	57.397	47.613
O	22.525	53.684	47.268
H	23.3	53.444	46.76
H	22.536	54.641	47.282
O	22.512	59.546	44.177
H	22.701	59.32	43.266
H	21.814	58.944	44.433
O	10.991	55.26	33.936
H	11.664	55.863	33.621
H	10.655	54.841	33.144
O	20.26	52.623	45.897
H	20.636	52.74	46.769
H	20.597	53.362	45.39
O	25.525	55.955	39.879
H	26.466	55.882	40.036
H	25.348	55.322	39.183
O	31.504	50.87	31.483
H	30.642	51.095	31.834
H	32.12	51.353	32.033
O	12.933	42.597	23.932
H	12.06	42.989	23.92
H	13.526	43.329	23.765
O	22.839	48.651	30.404
H	22.37	47.961	30.874
H	23.194	48.214	29.63
O	29.28	54.563	30.954
H	29.389	54.014	30.177
H	30.058	54.385	31.484

O	15.03	54.833	44.674
H	14.386	55.091	44.015
H	14.507	54.491	45.399
O	34.777	60.447	33.8
H	34	60.988	33.937
H	34.433	59.599	33.521
O	35.772	55.77	36.428
H	36.342	56.49	36.698
H	35.13	56.176	35.846
O	33.201	51.642	33.586
H	33.998	51.13	33.722
H	32.85	51.777	34.466
O	10.987	53.567	37.681
H	10.259	53.504	37.063
H	11.77	53.47	37.138
O	26.18	56.675	48.245
H	26.583	57.173	47.534
H	25.947	57.336	48.898
O	12.225	56.066	45.933
H	12.817	55.38	46.24
H	11.686	55.637	45.268
O	32.064	48.744	41.387
H	31.657	49.178	40.637
H	31.526	47.967	41.535
O	16.574	54.053	27.557
H	15.742	53.689	27.859
H	16.937	54.493	28.325
O	24.433	55.611	35.273
H	25.308	55.559	34.889
H	24.409	56.467	35.7
O	43.117	61.354	44.114
H	42.794	61.898	43.396
H	42.791	61.783	44.905
O	25.058	48.641	27.363
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H	25.061	49.382	27.969
O	6.291	46.594	34.308
H	6.544	45.692	34.502
H	6.443	47.067	35.127
O	30.089	52.293	37.637
H	30.412	52.038	36.773
H	30.71	52.956	37.939
O	13.361	53.773	46.485
H	12.923	52.927	46.389
H	13.08	54.092	47.343
O	25.044	52.803	43.626
H	25.232	52.683	42.695

H	24.725	51.949	43.918
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H	32.824	55.215	43.131
H	33.334	56.605	43.445
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H	26.946	48.936	29.575
H	26.516	47.706	30.346
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O	23.692	50.208	49.098
H	23.925	51.135	49.046
H	23.45	49.972	48.203
O	19.706	53.14	42.407
H	19.404	52.236	42.496
H	19.108	53.647	42.955
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H	5.866	47.021	48.173
O	24.203	49.861	43.901
H	24.232	49.477	44.778
H	23.356	50.305	43.862
O	22.63	47.559	40.363
H	22.823	47.171	41.216
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O	19.341	49.232	41.267
H	18.569	48.707	41.055
H	20.076	48.628	41.17
O	27.034	55.381	42.76
H	27.781	54.851	42.481
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H	16.458	52.389	32.57
H	15.966	52.078	33.967
O	23.342	49.568	36.074
H	23.252	49.283	35.165
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O	23.74	46.681	35.357
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O	19.049	52.443	30.028

H	18.359	52.798	30.588
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H	17.119	52.462	42.64
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H	22.381	48.021	52.384
H	22.371	46.561	52.782
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H	17.847	65.046	18.199
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O	16.12	52.438	21.007
H	16.032	53.258	20.521
H	17.043	52.204	20.918
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H	16.669	59.27	14.408
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O	16.299	55.124	10.519
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H	16.569	48.205	16.919
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H	16.708	53.452	16.05
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H	18.463	51.731	24.251
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H	23.724	55.422	31.185
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H	20.22	55.649	17.799
H	19.18	56.736	17.635
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H	10.582	44.632	24.114
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H	19.713	57.828	12.777
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H	21.401	48.356	16.666
O	21.17	44.066	26.228
H	20.855	44.944	26.014
H	21.315	44.088	27.174
O	28.215	44.193	18.033
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H	19.003	47.288	15.571
H	18.378	47.2	14.195
O	9.686	51.787	15.362
H	8.736	51.685	15.411
H	9.964	51.889	16.272
O	17.911	53.283	34.36
H	18.495	52.785	34.933
H	17.201	53.571	34.933
O	24.392	44.467	30.447
H	24.276	44.715	31.364
H	23.538	44.627	30.046
O	26.147	48.525	6.448
H	26.33	48.882	5.579
H	25.221	48.719	6.597
O	21.951	59.436	5.098
H	21.704	60.027	4.387
H	22.558	59.946	5.634
O	17.466	55.635	2.826
H	16.981	54.877	2.5
H	17.618	55.441	3.751
O	12.807	53.273	6.851

H	11.989	53.672	6.554
H	12.759	53.314	7.807
O	10.422	54.854	6.91
H	9.494	55.079	6.849
H	10.79	55.509	7.502
O	22.506	45.397	6.169
H	22.09	44.535	6.202
H	23.438	45.208	6.056
O	13.393	59.057	-6.367
H	12.529	58.647	-6.321
H	13.213	59.997	-6.351
O	17.091	50.485	11.398
H	16.682	49.64	11.586
H	18.031	50.311	11.444
O	31.699	53.242	7.106
H	30.772	53.032	6.992
H	31.707	53.945	7.755
O	18.676	59.014	7.721
H	18.168	59.012	6.91
H	18.966	58.108	7.825
O	27.964	52.692	-1.658
H	27.773	53.389	-1.031
H	28.726	52.243	-1.293
O	15.175	48.783	8.899
H	14.441	48.171	8.946
H	14.909	49.52	9.45
O	26.016	49.58	3.965
H	26.184	48.96	3.255
H	26.15	50.441	3.568
O	16.81	44.279	4.811
H	16.849	45.166	4.454
H	17.113	43.719	4.097
O	25.734	63.524	8.188
H	24.895	63.542	8.648
H	25.578	64.026	7.387
O	33.395	58.397	2.917
H	33.179	57.52	3.231
H	34.131	58.673	3.465
O	26.363	54.321	10.226
H	25.982	53.473	9.999
H	27.308	54.177	10.187
O	17.528	50.004	8.485
H	16.723	49.489	8.426
H	17.637	50.173	9.421
O	13.321	48.794	5.8
H	12.367	48.882	5.802
H	13.49	48	6.306

O	21.074	54.312	11.946
H	20.907	55.254	11.956
H	20.764	54.004	12.798
O	13.397	47.802	2.181
H	13.803	47.127	2.725
H	12.737	48.201	2.749
O	28.759	56.252	15.601
H	27.822	56.057	15.605
H	29.01	56.244	16.524
O	19.666	50.788	2.971
H	18.886	50.8	3.526
H	20.393	50.934	3.575
O	20.385	52.694	5.391
H	20.959	52.262	6.024
H	20.895	53.441	5.077
O	23.729	56.599	8.921
H	24.24	56.376	9.699
H	23.697	55.787	8.415
O	21.686	50.672	13.583
H	21.784	49.721	13.524
H	22.55	50.986	13.85
O	11.851	53.916	10.92
H	11.552	53.328	11.613
H	11.782	53.397	10.119
O	17.622	61.614	11.101
H	18.2	61.037	10.602
H	17.969	62.492	10.946
O	21.52	47.61	13.154
H	21.335	47.693	14.089
H	21.087	46.796	12.896
O	26.052	52.342	15.081
H	25.569	52.839	15.741
H	25.468	51.618	14.853
O	3.652	46.577	-6.302
H	3.835	47.025	-5.477
H	4.076	45.723	-6.21
O	20.712	58.326	2.247
H	20.479	57.866	3.053
H	20.298	59.185	2.333
O	25.487	51.625	9.571
H	25.858	51.342	10.407
H	24.817	50.971	9.373
O	11.382	57.922	1.745
H	12.056	58.59	1.868
H	10.772	58.06	2.471
O	22.744	53.024	2.12
H	22.424	53.62	2.797

H	21.959	52.765	1.638
O	27.138	44.212	11.744
H	27.016	43.467	12.332
H	26.276	44.352	11.352
O	20.194	56.072	7.611
H	20.89	56.079	6.953
H	20.613	56.402	8.406
O	17.282	62.089	8.027
H	17.622	61.302	8.454
H	16.785	61.759	7.278
O	32.29	60.536	4.812
H	32.601	61.323	5.259
H	32.607	60.63	3.913
O	22.04	52.499	9.96
H	21.316	53.125	9.987
H	22.438	52.556	10.828
O	17.534	62.892	3.032
H	18.122	63.388	3.602
H	17.397	63.462	2.275
O	16.202	58.564	9.849
H	17.121	58.628	9.591
H	16.227	58.225	10.744
O	16.504	57.295	12.083
H	17.453	57.217	12.18
H	16.236	56.474	11.671
O	21.899	57.118	12.715
H	22.731	57.589	12.706
H	21.858	56.72	13.585
O	7.36	49.199	11.07
H	6.756	49.059	11.8
H	7.125	48.526	10.432
O	28.064	59.572	1.455
H	28.461	60.389	1.154
H	28.791	58.95	1.489
O	11.758	51.562	9.529
H	12.585	51.08	9.539
H	11.274	51.223	10.283
O	26.612	54.825	1.461
H	25.987	55.496	1.735
H	26.067	54.083	1.199
O	21.495	57.393	9.89
H	21.486	57.348	10.846
H	22.383	57.129	9.647
O	11.256	52.568	13.056
H	10.545	52.588	13.697
H	11.667	51.713	13.183
O	18.402	64.206	13.272

H	17.445	64.18	13.244
H	18.662	64.392	12.37
O	18.243	54.425	8.624
H	18.804	55.088	8.222
H	18.344	53.655	8.064
O	18.434	46.164	12.511
H	17.927	45.403	12.229
H	19.343	45.929	12.325
O	19.865	60.212	9.854
H	19.756	59.912	8.952
H	20.74	60.599	9.874
O	24.405	58.528	12.528
H	24.367	59.299	11.963
H	24.799	57.848	11.981
O	15.994	38.231	8.109
H	15.48	38.307	8.912
H	15.367	37.93	7.451
O	14.617	51.383	9.822
H	14.245	52.088	10.352
H	15.514	51.29	10.144
O	18.007	52.321	6.588
H	18.077	51.657	7.274
H	18.82	52.238	6.089
O	22.163	51.688	7.09
H	23.044	51.994	6.874
H	22.074	51.859	8.028
O	23.221	56.974	4.803
H	24.04	57.313	4.441
H	22.633	57.729	4.813
O	19.83	53.05	14.363
H	19.042	53.571	14.517
H	19.635	52.199	14.756
O	20.72	45.749	1.241
H	21.16	45.908	0.406
H	20.454	46.618	1.542
O	29.361	61.245	5.436
H	29.418	62.189	5.286
H	30.272	60.95	5.451
O	14.457	57.99	5.164
H	13.758	58.328	5.724
H	14.315	57.043	5.149
O	29.043	54.452	9.573
H	29.936	54.79	9.506
H	28.922	53.935	8.778
O	23.732	53.167	12.54
H	22.977	53.706	12.302
H	23.604	52.974	13.468

O	24.558	50.188	14.06
H	25.086	49.638	14.639
H	24.308	49.608	13.341
O	34.843	54.012	-3.584
H	34.543	53.892	-2.683
H	35.798	53.984	-3.524
O	26.703	58.475	-1.165
H	27.096	58.47	-0.293
H	27.306	58.996	-1.696
O	14.133	52.255	-0.578
H	13.245	52.475	-0.859
H	14.014	51.788	0.249
O	27.346	49.68	-1.285
H	27.377	49.864	-2.224
H	28.262	49.698	-1.007
O	29.015	51.855	13.61
H	29.549	51.067	13.507
H	29.641	52.538	13.849
O	19.442	41.876	0.452
H	19.178	42.759	0.713
H	19.73	41.462	1.265
O	24.653	55.316	6.475
H	24.457	56.06	5.905
H	25.467	55.56	6.916
O	26.662	50.977	12.203
H	27.549	51.302	12.358
H	26.26	50.953	13.071
O	15.334	52.383	5.939
H	16.081	52.843	6.322
H	14.578	52.708	6.427
O	27.257	48.4	11.676
H	28.212	48.431	11.733
H	26.975	49.284	11.912
O	25.447	52.267	0.716
H	24.698	52.147	1.299
H	26.149	51.756	1.119
O	22.27	49.625	2.948
H	21.959	48.889	3.474
H	23.22	49.619	3.065
O	20.456	52.301	0.59
H	19.64	52.678	0.261
H	20.182	51.718	1.298
O	32.007	46.868	0.958
H	32.118	46.478	0.092
H	32.392	47.741	0.879
O	25.413	41.022	-3.267
H	24.623	41.348	-3.698

H	25.688	41.739	-2.696
O	18.154	43.259	11.649
H	19.077	43.278	11.394
H	17.684	43.095	10.831
O	30.521	48.117	11.463
H	30.62	48.546	12.313
H	30.464	48.838	10.836
O	22.842	42.163	54.723
H	22.033	42.608	54.975
H	22.617	41.691	53.921
O	24.963	35.41	51.308
H	24.315	35.279	50.616
H	24.485	35.237	52.119
O	8.256	39.404	60.724
H	8.28	38.449	60.789
H	7.455	39.655	61.184
O	31.937	45.575	57.745
H	32.313	45.313	56.904
H	31.252	46.203	57.516
O	16.552	46.612	59.738
H	16.735	47.444	60.176
H	16.892	46.728	58.851
O	13.024	35.572	55.114
H	12.18	35.371	54.71
H	12.809	35.797	56.019
O	11.896	42.07	56.458
H	11.377	42.792	56.103
H	12.323	42.44	57.23
O	31.113	49.429	55.536
H	30.971	50.369	55.649
H	32.063	49.322	55.591
O	19.615	40.454	54.846
H	18.905	40.338	54.215
H	19.181	40.446	55.699
O	20.785	38.66	51.107
H	20.246	38.502	50.332
H	20.238	38.379	51.841
O	10.282	31.707	54.68
H	9.49	31.613	55.208
H	10.298	30.923	54.131
O	32.924	34.159	46.875
H	32.92	33.481	47.55
H	33.734	34.008	46.388
O	5.021	34.767	59.043
H	4.739	34.072	58.449
H	5.904	34.511	59.31
O	15.718	37.565	56.129

H	16.089	38.295	55.633
H	14.774	37.721	56.115
O	22.091	37.248	46.474
H	23.01	37.353	46.228
H	22.096	37.264	47.431
O	27.539	41.339	54.038
H	26.952	41.305	54.794
H	27.828	42.251	54.001
O	4.173	43.444	60.261
H	4.954	43.654	59.749
H	3.448	43.543	59.645
O	27.427	35.393	52.472
H	26.605	35.15	52.046
H	27.195	36.127	53.04
O	28.355	38.749	59.7
H	28.255	38.57	60.635
H	27.911	39.587	59.568
O	17.882	30.181	51.892
H	17.714	29.518	52.561
H	17.167	30.075	51.264
O	25.991	47.702	61.412
H	26.297	46.797	61.356
H	25.384	47.795	60.678
O	22.824	40.683	52.213
H	22.217	41.424	52.199
H	22.275	39.921	52.029
O	26.277	37.897	50.25
H	26.717	37.292	49.653
H	25.663	37.349	50.737
O	27.553	35.756	48.8
H	26.919	35.047	48.691
H	28.196	35.41	49.419
O	27.579	42.044	49.551
H	27.951	41.251	49.164
H	26.715	41.775	49.862
O	17.042	52.8	50.835
H	17.812	53.365	50.895
H	17.323	51.972	51.225
O	23.999	42.346	58.543
H	24.503	43.149	58.416
H	23.165	42.515	58.103
O	25.364	43.499	52.391
H	24.714	44.054	51.96
H	25.302	42.66	51.934
O	22.998	40.259	48.825
H	23.308	40.187	47.923
H	22.403	41.009	48.815

O	28.363	31.488	46.847
H	27.522	31.907	47.028
H	28.166	30.834	46.176
O	18.509	40.662	49.802
H	18.391	41.581	49.562
H	19.221	40.358	49.24
O	9.881	35.602	56.054
H	9.099	35.75	55.522
H	10.398	34.974	55.55
O	15.243	45.255	55.802
H	15.433	44.361	55.519
H	15.768	45.807	55.222
O	22.601	46.322	54.774
H	23.527	46.082	54.737
H	22.601	47.234	55.063
O	22.505	41.591	43.973
H	21.667	42.04	43.856
H	22.358	40.714	43.62
O	22.534	46.569	42.921
H	21.818	47.033	43.353
H	22.975	46.097	43.628
O	33.236	42.743	56.255
H	32.922	43.537	55.82
H	33.079	42.902	57.186
O	16.249	30.727	58.204
H	15.874	31.599	58.086
H	15.502	30.133	58.137
O	25.068	28.938	47.178
H	24.981	29.751	46.681
H	24.462	29.04	47.912
O	14.707	33.366	62.852
H	15.624	33.09	62.877
H	14.505	33.443	61.92
O	12.61	37.133	58.065
H	12.81	37.656	58.841
H	12.816	37.709	57.328
O	23.832	34.522	53.703
H	24.05	33.655	54.046
H	23.721	35.067	54.481
O	22.541	36.238	55.879
H	22.121	37.061	55.63
H	22.247	36.082	56.777
O	13.855	27.723	54.402
H	14.709	28.033	54.101
H	14.049	27.217	55.191
O	15.741	39.806	50.523
H	16.597	39.71	50.106

H	15.352	38.932	50.475
O	24.846	35.86	67.802
H	24.247	35.114	67.835
H	25.57	35.611	68.375
O	13.42	38.207	60.772
H	13.968	38.938	60.486
H	12.573	38.605	60.969
O	15.021	32.936	57.256
H	15.237	33.833	57.511
H	14.07	32.884	57.345
O	16.07	35.478	48.783
H	16.876	35.054	49.077
H	16.341	36.016	48.038
O	23.596	31.919	54.987
H	22.65	31.865	54.853
H	23.836	31.065	55.348
O	20.463	38.257	44.316
H	21.066	37.631	44.717
H	20.029	37.76	43.623
O	11.683	29.946	57.269
H	10.905	30.18	57.775
H	11.351	29.401	56.556
O	6.352	37.256	57.997
H	5.958	36.499	58.43
H	5.974	38.012	58.446
O	26.424	43.482	56.587
H	27.282	43.871	56.414
H	26.32	43.544	57.536
O	21.915	31.015	45.254
H	22.782	31.083	44.854
H	22.058	31.229	46.176
O	21.35	33.785	46.857
H	20.537	34.291	46.861
H	21.582	33.711	45.932
O	19.543	44.704	46.685
H	19.905	45.588	46.743
H	18.984	44.724	45.909
O	17.12	38.364	43.901
H	17.957	37.979	43.64
H	17.003	39.105	43.308
O	22.838	31.605	48.088
H	23.634	31.777	47.585
H	22.35	32.428	48.054
O	22.15	46.906	46.869
H	21.25	47.178	47.048
H	22.391	46.366	47.622
O	21.692	38.916	55.345

H	20.917	39.471	55.436
H	22.345	39.319	55.916
O	18.566	44.892	50.363
H	18.436	44.071	49.887
H	17.699	45.112	50.704
O	17.32	45.539	53.467
H	16.641	45.419	52.803
H	17.44	46.488	53.517
O	26.823	37.255	54.282
H	26.263	37.871	53.811
H	26.314	37.012	55.056
O	16.626	29.681	49.307
H	16.421	28.871	49.775
H	15.79	29.96	48.933
O	24.939	41.445	50.563
H	24.321	41.208	51.255
H	24.624	40.977	49.79
O	28.164	44.083	51.749
H	28.258	43.31	51.192
H	27.255	44.053	52.047
O	19.879	48.019	47.287
H	19.103	48.58	47.28
H	20.118	47.952	48.212
O	27.959	43.767	44.683
H	27.337	43.871	45.404
H	27.514	43.186	44.066
O	20.791	42.172	47.303
H	20.467	42.992	46.932
H	20.784	41.557	46.569
O	13.68	44.034	50.317
H	13.878	43.186	49.919
H	13.147	43.82	51.083
O	26.445	32.152	55.068
H	25.488	32.162	55.053
H	26.679	32.715	55.806
O	20.728	54.659	54.346
H	20.916	53.75	54.112
H	20.349	54.607	55.223
O	12.364	34.378	58.947
H	12.225	33.791	58.204
H	12.249	35.256	58.583
O	24.977	39.078	53.503
H	24.84	40.025	53.513
H	24.151	38.72	53.178
O	18.257	46.985	56.84
H	17.331	47.114	56.634
H	18.719	47.25	56.045

O	22.841	37.423	49.421
H	23.306	38.228	49.193
H	22.201	37.694	50.079
O	35.441	38.435	57.401
H	35.231	39.18	56.837
H	35.114	37.673	56.923
O	16.6	37.879	52.684
H	17.17	37.11	52.699
H	15.784	37.564	52.294
O	19.158	32.345	52.627
H	18.656	31.594	52.312
H	18.564	33.089	52.528
O	35.06	49.612	61.874
H	34.997	49.831	62.804
H	35.905	49.172	61.788
O	12.685	40.262	65.317
H	12.386	39.854	66.129
H	13.532	39.851	65.14
O	20.519	51.115	52.472
H	21.337	51.301	52.011
H	20.796	50.78	53.325
O	20.701	42.438	52.534
H	20.205	43.134	52.104
H	20.068	41.728	52.647
O	28.787	44.694	56.379
H	29.316	45.485	56.48
H	28.976	44.392	55.49
O	26.096	47.995	42.58
H	26.243	47.741	43.491
H	25.45	48.701	42.629
O	17.229	40.356	41.964
H	17.775	40.575	41.209
H	16.497	40.971	41.917
O	23.833	45.113	50.768
H	23.363	44.77	50.008
H	23.332	45.885	51.032
O	18.106	32.687	44.295
H	17.623	32.783	45.115
H	18.054	33.55	43.883
O	19.008	29.121	55.031
H	18.855	28.353	55.581
H	19.699	28.85	54.426
O	17.1	40.447	46.576
H	17.508	39.655	46.226
H	17.809	40.901	47.031
O	17.275	33.035	46.993
H	17.662	33.787	47.441

H	17.932	32.345	47.072
O	23.105	55.856	53.369
H	23.563	55.055	53.114
H	22.422	55.56	53.971
O	4.478	36.092	48.231
H	5.082	35.36	48.354
H	3.638	35.768	48.555
O	14.492	57.131	51.248
H	14.096	57.738	51.873
H	14.252	56.263	51.572
O	21.302	35.915	52.516
H	20.81	36.584	52.993
H	22.055	35.728	53.076
O	26.783	43.624	47.458
H	26.896	44.518	47.781
H	27.223	43.078	48.109
O	27.116	37.021	44.533
H	27.963	36.575	44.521
H	26.762	36.887	43.654
O	13.275	38.783	55.802
H	12.701	38.897	55.045
H	13.677	39.642	55.93
O	29.404	43.705	53.952
H	30.23	43.225	53.885
H	29.196	43.95	53.05
O	32.954	38.381	45.545
H	33.183	38.409	46.474
H	33.796	38.348	45.091
O	31.357	36.008	48.831
H	31.973	35.312	48.604
H	30.833	35.641	49.544
O	27.801	39.807	51.439
H	27.259	40.39	51.971
H	27.2	39.123	51.145
O	12.519	33.687	51.92
H	13.018	32.87	51.955
H	12.039	33.639	51.093
O	24.918	37.195	46.337
H	25.091	38.128	46.212
H	25.479	36.759	45.695
O	14.757	37.26	50.418
H	14.947	36.44	49.963
H	13.897	37.12	50.816
O	9.844	32.818	43.803
H	9.157	32.215	43.518
H	9.468	33.27	44.558
O	32.475	38.624	48.247

H	32.422	37.678	48.38
H	31.893	38.993	48.911
O	19.245	33.836	56.374
H	19.386	33.936	57.316
H	18.82	32.982	56.285
O	29.264	33.827	53.901
H	29.299	32.905	53.647
H	28.565	34.197	53.362
O	29.518	30.502	48.874
H	28.763	30.938	49.269
H	29.423	30.662	47.935
O	31.701	46.55	52.636
H	32.262	47.318	52.524
H	30.947	46.875	53.129
O	34.285	40.342	65.503
H	34.947	40.979	65.235
H	34.461	39.572	64.962
O	21.191	42.431	57.476
H	20.548	42.192	58.144
H	20.699	42.957	56.847
O	18.084	44.291	60.115
H	18.907	44.768	60.224
H	17.406	44.929	60.337
O	19.833	37.627	53.832
H	19.268	37.541	54.6
H	20.586	38.129	54.143
O	29.164	38.859	54.425
H	28.476	38.236	54.193
H	28.832	39.705	54.126
O	22.085	30.88	51.524
H	23.041	30.919	51.544
H	21.814	31.763	51.27
O	12.543	55.266	59.884
H	11.916	55.93	60.17
H	12.771	54.792	60.683
O	21.08	30.117	49.28
H	21.35	30.127	50.198
H	21.636	30.774	48.86
O	18.063	34.823	52.047
H	18.87	35.118	52.468
H	17.385	34.953	52.711
O	23.909	27.382	54.719
H	24.049	27.922	55.496
H	24.386	27.834	54.023
O	26.447	31.121	48.978
H	25.976	30.91	48.172
H	26.406	32.075	49.036

O	14.239	49.686	51.374
H	13.434	49.285	51.703
H	13.95	50.507	50.974
O	14.545	25.778	48.838
H	14.912	25.828	49.72
H	15.293	25.924	48.259
O	10.851	34.259	53.891
H	10.663	33.37	54.19
H	11.521	34.149	53.216
O	32.232	48.143	50.463
H	32.01	49.067	50.579
H	31.552	47.672	50.944
O	19.899	47.541	50.051
H	20.477	47.115	50.683
H	19.07	47.068	50.128
O	16.661	36.708	46.259
H	16.729	37.223	45.455
H	15.965	36.076	46.08
O	22.271	40.852	37.903
H	22.577	41.758	37.857
H	23.06	40.342	38.085
O	9.962	37.052	37.563
H	9.702	37.041	38.484
H	9.554	37.842	37.208
O	21.92	49.742	38.675
H	22.145	49.071	39.32
H	22.416	49.499	37.894
O	8.859	53.688	35.873
H	9.075	54.393	35.262
H	8.869	52.895	35.336
O	22.587	37.681	39.541
H	23.054	38.517	39.539
H	21.749	37.875	39.12
O	10.328	35.371	41.505
H	9.742	34.649	41.277
H	9.845	36.159	41.257
O	29.661	47.742	39.026
H	29.456	47.172	38.285
H	30.115	47.173	39.648
O	27.74	44.054	38.092
H	27.009	44.137	38.704
H	27.494	44.604	37.349
O	11.797	34.253	47.81
H	11.631	33.766	48.617
H	10.955	34.652	47.593
O	22.31	34.394	38.233
H	21.966	33.512	38.096

H	21.992	34.894	37.481
O	17.969	38.284	37.097
H	18.625	37.796	37.595
H	18.3	38.283	36.199
O	16.859	34.202	39.85
H	16.097	33.993	39.311
H	17.418	33.428	39.785
O	16.057	34.33	42.383
H	16.815	34.669	42.859
H	16.332	34.325	41.467
O	15.006	37.342	39.11
H	15.423	36.777	39.76
H	15.266	38.228	39.361
O	17.911	45.186	43.39
H	17.95	46.141	43.436
H	17.314	44.937	44.095
O	10.498	40.024	33.675
H	11.102	39.453	34.15
H	10.673	39.841	32.752
O	27.963	41.607	36.479
H	28.162	42.185	37.215
H	27.766	40.763	36.884
O	24.625	47.056	38.458
H	24.346	46.767	37.589
H	25.369	47.634	38.291
O	24.219	42.441	40.688
H	24.606	42.51	41.56
H	24.552	43.204	40.216
O	14.345	38.028	43.932
H	14.089	38.851	43.515
H	15.271	38.145	44.143
O	13.914	42.542	38.296
H	14.285	43.112	38.97
H	14.675	42.19	37.834
O	19.846	42.34	38.609
H	19.164	41.683	38.751
H	20.574	41.85	38.226
O	28.574	40.836	40.309
H	28.6	41.752	40.033
H	28.731	40.866	41.253
O	18.075	45.813	40.678
H	17.388	46.418	40.955
H	18.314	45.34	41.475
O	10.837	35.694	45.055
H	11.39	36.472	45.125
H	10.515	35.548	45.945
O	24.098	45.412	32.736

H	25.006	45.123	32.831
H	23.617	44.909	33.394
O	20.065	42.747	42.909
H	20.636	43.031	42.195
H	19.423	43.451	42.996
O	13.231	29.74	43.601
H	13.053	29.802	42.663
H	13.653	30.571	43.82
O	29.072	37.851	47.581
H	28.497	37.129	47.835
H	29.957	37.509	47.705
O	8.442	37.798	43.522
H	8.065	38.575	43.934
H	7.989	37.064	43.936
O	21.114	40.463	34.959
H	21.817	40.493	34.31
H	21.339	41.149	35.588
O	27.806	41.581	43.07
H	26.927	41.236	43.227
H	28.39	40.94	43.475
O	24.083	43.447	46.484
H	24.132	44.149	45.835
H	24.919	43.491	46.948
O	17.203	53.872	31.519
H	17.218	54.643	30.951
H	17.422	54.21	32.387
O	25.623	49.857	32.918
H	25.555	50.811	32.872
H	26.178	49.62	32.176
O	13.094	39.004	48.996
H	13.674	38.429	49.496
H	13.068	38.616	48.122
O	17.093	28.98	46.212
H	17.702	29.458	46.775
H	16.227	29.283	46.485
O	22.465	44.38	48.518
H	21.653	43.893	48.659
H	22.878	43.947	47.771
O	18.933	38.707	34.432
H	19.172	37.872	34.029
H	19.757	39.189	34.494
O	9.125	36.063	34.259
H	9.015	35.226	33.807
H	9.755	35.877	34.956
O	18.54	34.483	49.333
H	19.391	34.064	49.468
H	18.241	34.706	50.214

O	11.851	32.506	38.946
H	11.586	31.66	38.585
H	11.33	33.146	38.462
O	5.262	38.026	27.265
H	5.026	38.59	28.001
H	5.319	37.149	27.644
O	18.067	33.988	35.217
H	17.861	33.257	35.8
H	17.223	34.406	35.048
O	21.7	41.306	27.813
H	21.283	42.168	27.813
H	21.671	41.026	28.728
O	20.03	39.605	40.616
H	19.522	39.22	41.33
H	20.053	40.541	40.816
O	20.192	35.215	36.576
H	19.495	34.769	36.095
H	19.829	35.351	37.452
O	22.907	43.719	37.641
H	22.202	44.176	38.1
H	23.678	43.852	38.194
O	24.574	39.833	38.994
H	25.503	39.756	38.778
H	24.56	40.289	39.836
O	21.288	45.314	39.208
H	21.49	45.944	39.899
H	20.502	45.663	38.787
O	19.129	43.272	34
H	18.297	43.689	33.777
H	19.588	43.922	34.531
O	19.326	46.786	29.607
H	18.716	46.158	29.994
H	20.192	46.416	29.777
O	12.85	33.094	44.987
H	13.32	33.764	45.483
H	12.464	32.528	45.655
O	15.732	45.713	36.595
H	16.263	44.963	36.864
H	15.585	45.578	35.658
O	27.255	39.096	38.317
H	27.531	38.203	38.522
H	27.624	39.628	39.021
O	24.464	43.41	34.826
H	25.417	43.413	34.738
H	24.309	43.579	35.755
O	20.785	45.012	35.216
H	21.568	45.097	35.761

H	20.257	45.78	35.434
O	11.03	39.632	43.467
H	10.091	39.466	43.544
H	11.389	38.82	43.109
O	17.709	43.845	37.086
H	17.876	43.014	36.641
H	18.112	43.741	37.948
O	30.502	46.514	41.921
H	29.941	46.58	42.695
H	30.637	45.574	41.803
O	10.702	32.106	35.407
H	9.757	32.125	35.558
H	10.893	32.94	34.977
O	27.852	51.08	42.767
H	26.973	51.186	42.403
H	28.265	50.424	42.206
O	25.475	39.627	42.59
H	25.834	38.74	42.615
H	24.547	39.505	42.391
O	6.345	45.807	31.658
H	5.61	46.348	31.371
H	6.455	46.024	32.584
O	15.122	31.333	47.332
H	15.687	31.993	46.931
H	14.692	30.904	46.592
O	17.634	47.993	44.285
H	16.776	47.838	43.888
H	17.66	48.938	44.436
O	14.529	39.79	40.215
H	13.861	40.279	39.736
H	14.791	40.375	40.926
O	18.961	39.455	30.11
H	18.243	38.86	29.894
H	18.717	39.828	30.957
O	19.778	37.533	38.802
H	19.826	38.398	39.209
H	19.616	36.934	39.531
O	19.949	54.042	32.649
H	19.319	53.642	33.248
H	19.576	54.9	32.447
O	19.279	36.271	33.362
H	18.57	36.301	32.719
H	19.454	35.338	33.482
O	19.388	47.64	33.85
H	19.361	48.562	33.596
H	18.548	47.286	33.558
O	16.706	39.752	25.366

H	15.837	40.147	25.295
H	17.012	39.683	24.462
O	7.633	35.722	26.771
H	7.352	35.447	25.898
H	7.227	35.089	27.364
O	26.193	45.6	36.226
H	26.872	46.275	36.221
H	25.371	46.088	36.17
O	14.904	44.567	40.369
H	14.435	45.167	40.948
H	15.728	45.015	40.177
O	10.982	43.163	31.577
H	10.922	42.997	30.636
H	10.226	43.717	31.772
O	12.705	37.178	46.043
H	13.162	37.599	45.314
H	13.26	36.433	46.274
O	17.143	44.225	24.016
H	18.034	43.921	24.19
H	16.848	44.591	24.85
O	23.266	34.685	48.563
H	23.121	35.596	48.816
H	22.494	34.455	48.045
O	29.219	46.78	50.87
H	28.869	45.89	50.84
H	29.736	46.808	51.675
O	12.5	41.863	45.383
H	12.065	41.796	46.233
H	12.031	41.245	44.824
O	24.209	41.605	31.181
H	24.496	42.498	30.992
H	23.488	41.451	30.57
O	25.808	33.702	48.327
H	24.943	34.091	48.457
H	25.65	32.956	47.748
O	12.635	42.741	52.649
H	13.591	42.693	52.642
H	12.361	41.98	53.161
O	15.78	41.284	37.152
H	15.407	41.09	36.292
H	16.725	41.2	37.028
O	13.537	35.742	43.059
H	13.831	36.52	43.533
H	14.32	35.197	42.983
O	18.942	35.197	46.062
H	18.833	34.997	45.132
H	18.337	35.92	46.224

O	29.567	35.056	50.832
H	28.867	35.266	51.451
H	29.543	34.101	50.761
O	15.048	31.712	42.329
H	15.488	32.561	42.277
H	15.683	31.14	42.76
O	22.672	38.944	42.586
H	22.182	38.385	43.189
H	22.21	38.859	41.752
O	18.044	44.003	30.583
H	17.317	43.495	30.222
H	17.702	44.362	31.402
O	16.015	53.605	39.429
H	16.415	54.475	39.43
H	16.757	53.001	39.395
O	17.19	36.044	31.351
H	17.042	35.127	31.12
H	16.595	36.533	30.782
O	28.044	51.385	47.933
H	27.84	51.288	47.002
H	28.461	50.559	48.174
O	19.352	51.14	35.596
H	19.334	50.276	36.01
H	20.103	51.106	35.004
O	21.535	46.971	32.03
H	20.648	46.945	32.388
H	21.948	46.171	32.355
O	11.485	41.961	41.44
H	11.62	41.617	42.323
H	10.943	42.739	41.567
O	16.185	49.734	41.375
H	16.743	50.344	41.857
H	15.853	50.245	40.637
O	9.134	43.66	41.802
H	9.282	44.152	42.61
H	8.694	44.28	41.22
O	31.843	46.707	45.166
H	32.239	46.975	45.995
H	32.461	46.076	44.798
O	12.349	38.496	35.138
H	13.15	38.108	35.49
H	12.246	39.314	35.625
O	24.521	43.522	43.47
H	23.873	42.821	43.546
H	24.138	44.254	43.954
O	19.705	40.801	44.952
H	19.87	40.11	44.31

H	19.225	41.47	44.465
O	9.41	38.912	46.347
H	9.069	38.537	45.535
H	10.189	38.391	46.543
O	12.61	36.475	33.257
H	12.256	37.052	33.933
H	13.41	36.912	32.964
O	18.172	36.376	27.874
H	18.379	35.482	28.147
H	18.863	36.912	28.262
O	10.195	32.863	28.98
H	10.668	33.045	29.792
H	10.546	32.024	28.681
O	5.628	26.685	41.244
H	5.245	26.662	40.367
H	5.576	25.78	41.551
O	7.94	27.359	31.139
H	8.239	27.634	32.006
H	7.573	26.486	31.278
O	15.233	42.114	42.017
H	15.17	43.054	41.846
H	14.86	42.004	42.891
O	18.866	46.355	38.192
H	18.59	45.518	37.818
H	18.664	46.278	39.125
O	24.989	28.827	43.877
H	24.676	28.953	42.982
H	24.918	29.692	44.28
O	30.02	43.056	41.868
H	29.064	43.101	41.85
H	30.228	42.713	42.737
O	14.684	25.159	45.12
H	15.038	25.251	46.004
H	15.391	25.453	44.546
O	15.83	47.151	42.205
H	14.92	46.879	42.324
H	15.772	47.979	41.726
O	28.288	46.742	47.507
H	27.482	46.688	48.021
H	28.786	45.964	47.761
O	25.235	52.134	48.295
H	26.005	51.565	48.287
H	25.127	52.403	47.383
O	25.918	52.277	41.103
H	26.742	52.303	40.615
H	25.274	51.966	40.467
O	20.479	48.409	44.627

H	20.275	48.136	45.521
H	19.743	48.09	44.105
O	16.736	44.813	32.927
H	15.836	44.625	32.658
H	16.738	45.751	33.118
O	13.308	31.158	34.778
H	12.628	31.672	35.214
H	12.932	30.936	33.926
O	14.955	48.744	34.671
H	14.161	48.232	34.822
H	15.109	49.198	35.499
O	21.707	50.882	44.305
H	21.353	49.999	44.41
H	21.12	51.437	44.818
O	19.903	31.222	43.069
H	20.305	31.018	43.914
H	19.191	31.825	43.283
O	12.672	56.401	38.465
H	12.181	55.862	37.845
H	12.215	56.284	39.298
O	16.895	47.521	32.904
H	16.277	48.016	33.442
H	17.189	48.145	32.241
O	35.834	49.011	48.512
H	35.438	48.407	49.141
H	35.686	48.6	47.66
O	19.018	31.931	21.645
H	18.106	32.064	21.904
H	19.183	31.004	21.816
O	23.097	40.886	18.485
H	23.213	40.236	19.179
H	22.262	40.654	18.078
O	16.727	43.338	21.431
H	16.114	42.604	21.479
H	16.84	43.615	22.34
O	9.304	39.749	17.324
H	9.364	39.117	18.041
H	8.578	39.432	16.786
O	14.927	37.763	26.193
H	15.64	38.307	25.858
H	14.335	37.66	25.447
O	26.025	42.277	13.445
H	25.264	41.867	13.033
H	25.78	42.365	14.366
O	19.731	49.783	21.525
H	19.432	50.255	22.302
H	20.073	48.955	21.864

O	14.952	28.44	29.678
H	14.134	28.433	30.174
H	15.237	29.354	29.7
O	20.137	30.765	18.03
H	20.579	31.049	17.23
H	20.255	31.493	18.64
O	12.693	38.806	13.701
H	13.549	38.397	13.58
H	12.729	39.182	14.58
O	17.747	32.944	19.017
H	18.221	32.813	19.838
H	18.394	33.325	18.424
O	18.938	38.589	17.421
H	18.541	38.464	18.283
H	18.815	37.75	16.977
O	16.193	32.876	25.437
H	16.283	33.681	25.948
H	15.579	32.34	25.94
O	17.843	43.72	18.918
H	17.453	43.648	19.79
H	18.697	43.297	19.002
O	10.903	40.092	11.102
H	10.294	40.81	10.931
H	11.474	40.421	11.796
O	22.474	34.06	13.71
H	22.546	33.109	13.786
H	21.947	34.322	14.465
O	14.092	40.693	25.391
H	13.636	40.737	26.231
H	13.822	41.488	24.93
O	15.69	35.122	27.477
H	15.587	35.88	26.901
H	16.615	35.135	27.725
O	20.691	34.154	22.267
H	20.358	33.273	22.094
H	21.572	34.154	21.893
O	24.786	45.246	26.015
H	24.604	45.509	25.113
H	24.814	44.29	25.986
O	15.618	37.962	29.956
H	14.725	37.685	29.748
H	15.759	38.74	29.418
O	20.71	45.165	12.24
H	20.63	44.546	11.514
H	21.635	45.132	12.482
O	21.621	40.261	30.277
H	20.728	40.031	30.017

H	21.781	39.744	31.067
O	29.42	31.126	13.787
H	29.83	30.555	14.436
H	30.074	31.803	13.616
O	8.258	46.507	13.073
H	8.151	46.25	12.158
H	7.464	46.193	13.505
O	7.64	43.213	23.887
H	7.194	43.816	24.482
H	7.098	43.21	23.099
O	6.606	36.692	22.626
H	7.113	37.352	23.099
H	6.406	36.027	23.285
O	22.883	46.615	28.269
H	23.418	45.943	27.847
H	22.164	46.768	27.656
O	24.083	40.804	12.392
H	23.961	40.477	11.501
H	23.225	40.703	12.804
O	24.91	42.438	15.844
H	23.985	42.565	16.055
H	25.346	42.391	16.695
O	24.771	44.748	10.493
H	24.882	45.625	10.126
H	24.035	44.833	11.099
O	28.137	41.467	17.155
H	28.485	40.618	16.882
H	27.362	41.253	17.674
O	21.249	45.068	18.917
H	21.302	45.958	19.266
H	20.808	44.567	19.603
O	16.698	29.448	20.711
H	17.31	29.111	21.366
H	17.225	29.543	19.918
O	20.356	28.691	13.414
H	20.913	28.786	14.186
H	19.604	29.257	13.59
O	18.245	36.139	15.733
H	17.392	35.71	15.8
H	18.853	35.432	15.518
O	14.052	35.654	29.843
H	13.342	36.295	29.796
H	14.403	35.62	28.953
O	10.781	29.317	16.554
H	10.967	30.237	16.368
H	10.068	29.342	17.193
O	8.806	34.734	12.371

H	8.133	34.902	11.712
H	9.228	35.582	12.505
O	12.309	37.028	18.998
H	11.482	36.856	19.447
H	12.916	37.271	19.697
O	18.455	41.839	14.236
H	19.277	41.349	14.218
H	18.533	42.466	13.517
O	14.497	33.006	15.014
H	14.415	33.941	15.201
H	14.851	32.631	15.82
O	15.964	33.643	30.569
H	15.402	33.289	31.257
H	15.368	34.125	29.996
O	12.041	39.748	21.648
H	11.341	39.436	21.074
H	12.587	40.296	21.084
O	18.816	37.934	25.491
H	18.325	38.75	25.588
H	18.549	37.404	26.242
O	25.83	41.561	18.68
H	24.996	41.091	18.656
H	25.627	42.386	19.122
O	26.745	31.68	13.41
H	27.676	31.459	13.43
H	26.322	30.984	13.912
O	20.414	40.844	23.867
H	19.726	40.429	24.388
H	21.182	40.842	24.438
O	9.527	42.541	17.74
H	9.994	42.678	18.564
H	9.589	41.598	17.584
O	18.394	40.158	20.318
H	18.441	41.104	20.456
H	17.621	40.035	19.767
O	10.124	28.118	29.43
H	9.408	27.836	29.999
H	10.201	27.42	28.779
O	13.094	41.224	27.913
H	12.263	41.099	28.371
H	13.225	42.172	27.909
O	22.202	39.01	26.477
H	22.659	39.467	25.771
H	22.048	39.684	27.139
O	29.747	38.368	13.734
H	29.099	38.487	13.04
H	30.385	39.067	13.59

O	21.312	39.331	20.144
H	21.676	40.084	20.611
H	20.424	39.6	19.91
O	15.198	35.506	15.37
H	15.172	36.134	16.092
H	14.695	35.923	14.671
O	23.478	44.522	13.063
H	23.836	43.637	13.126
H	23.872	44.993	13.797
O	22.763	41.615	24.949
H	22.257	42.427	24.982
H	23.553	41.805	25.455
O	9.028	33.773	16.062
H	8.085	33.936	16.05
H	9.418	34.601	15.783
O	23.653	43.672	22.047
H	24.361	43.89	21.44
H	23.77	44.278	22.779
O	24.669	38.709	2.73
H	25.449	38.748	3.284
H	24.653	39.553	2.279
O	19.753	50.177	11.337
H	20.441	50.671	10.892
H	20.118	49.984	12.201
O	12.518	28.764	30.888
H	12.029	29.54	31.161
H	11.902	28.271	30.346
O	11.067	47.643	27.716
H	11.086	48.351	27.073
H	11.291	48.066	28.545
O	23.041	41.476	33.488
H	23.716	42.071	33.815
H	23.347	41.224	32.616
O	16.887	45.104	16.78
H	17.17	44.586	17.534
H	16.799	45.994	17.12
O	14.818	44.257	12.281
H	15.554	44.066	12.862
H	15.144	44.052	11.405
O	25.898	44.132	19.345
H	26.705	44.508	18.993
H	25.395	44.887	19.65
O	21.349	47.656	5.222
H	21.666	46.81	5.54
H	20.528	47.796	5.694
O	19.681	45.651	16.598
H	19.975	45.201	17.389

H	18.73	45.54	16.598
O	16.956	44.441	14.286
H	17.048	44.896	15.123
H	17.294	43.562	14.453
O	16.855	41.138	16.349
H	17.29	41.69	15.699
H	17.565	40.64	16.755
O	25.579	47.735	22.177
H	26.27	47.618	22.83
H	25.531	48.682	22.046
O	10.686	40.354	25.172
H	10.043	40.198	24.48
H	11.379	40.858	24.747
O	12.673	40.916	31.432
H	13.59	40.785	31.674
H	12.387	41.655	31.969
O	18.736	47.856	6.263
H	18.81	48.588	6.876
H	17.793	47.739	6.145
O	25.081	42.086	26.355
H	25.503	41.29	26.032
H	25.441	42.21	27.233
O	21.316	42.98	31.604
H	20.499	43.179	32.061
H	21.634	42.179	32.02
O	23.655	46.011	15.73
H	22.761	46.296	15.919
H	23.783	45.243	16.287
O	15.426	40.403	28.68
H	14.565	40.777	28.495
H	15.978	40.702	27.958
O	18.553	39.112	9.509
H	17.918	39.147	8.794
H	18.443	38.238	9.884
O	23.182	43.856	17.492
H	23.4	43.135	18.083
H	22.532	44.37	17.97
O	24.661	40.658	5.847
H	24.345	41.438	5.393
H	23.959	40.435	6.458
O	15.503	43.802	29.813
H	14.975	44.596	29.891
H	15.275	43.446	28.954
O	16.972	39.624	22.759
H	16.205	40.157	22.551
H	17.461	39.578	21.938
O	19.785	43.439	24.141

H	20.135	43.66	25.004
H	20.058	42.534	23.995
O	18.393	36.519	10.098
H	18.709	35.786	9.57
H	17.601	36.186	10.52
O	18.53	36.848	6.681
H	18.113	36.616	5.852
H	17.895	36.59	7.35
O	19.841	44.732	21.345
H	19.005	44.512	20.933
H	19.778	44.362	22.226
O	29.542	28.057	8.34
H	29.948	27.2	8.466
H	30.209	28.575	7.89
O	16.193	39.06	19.084
H	16.241	38.2	19.502
H	15.782	38.892	18.236
O	20.181	43.625	28.842
H	19.308	43.861	29.155
H	20.678	43.435	29.638
O	21.372	31.936	15.695
H	21.914	31.691	14.945
H	21.256	32.882	15.607
O	20.178	47.9	10.154
H	19.989	48.779	10.481
H	19.318	47.496	10.041
O	20.405	39.886	13.726
H	20.493	40.108	12.799
H	20.053	38.996	13.727
O	10.086	36.483	20.808
H	10.473	35.829	21.39
H	9.251	36.1	20.539
O	14.112	40.896	16.677
H	15.057	40.858	16.526
H	13.98	41.71	17.164
O	20.329	42.42	18.97
H	20.654	42.007	18.17
H	20.957	42.163	19.645
O	26.741	39.334	4.666
H	27.059	38.747	5.351
H	26.041	39.836	5.085
O	0.813	42.617	19.286
H	0.678	41.914	18.651
H	0.753	42.186	20.138
O	26.533	38.524	8.681
H	26.457	37.894	7.964
H	26.104	38.095	9.422

O	10.34	37.94	28.593
H	10.297	37.065	28.208
H	9.631	38.424	28.169
O	15.42	33.003	17.538
H	15.928	33.037	18.348
H	14.8	33.728	17.612
O	14.324	33.152	12.33
H	13.399	33.095	12.091
H	14.33	33.084	13.284
O	16.5	37.203	13.235
H	16.442	38.08	13.615
H	17.216	36.782	13.71
O	18.648	23.019	12.993
H	19.41	23.143	12.428
H	17.915	23.37	12.488
O	11.334	32.528	15.954
H	11.794	33.106	16.562
H	10.413	32.775	16.038
O	29.104	42.92	15.135
H	29.152	42.352	15.904
H	28.442	43.573	15.362
O	12.363	34.781	25.75
H	13.073	34.747	26.391
H	11.618	35.133	26.236
O	15.213	40.387	34.542
H	14.903	39.595	34.981
H	15.027	40.236	33.616
O	16.006	50.453	24.867
H	16.445	51.28	25.067
H	15.209	50.712	24.404
O	14.24	23.951	26.201
H	14.601	24.797	26.463
H	13.957	23.547	27.022
O	13.704	46.773	30.325
H	13.164	46.596	31.095
H	13.258	47.495	29.881
O	21.676	41.9	21.447
H	21.511	41.478	22.29
H	22.441	42.455	21.602
O	20.584	46.94	26.461
H	20.618	47.596	25.765
H	19.75	47.102	26.902
O	26.657	45.928	30.133
H	27.438	45.454	30.419
H	25.926	45.409	30.467
O	10.173	42.717	20.42
H	9.886	43.523	20.848

H	9.857	42.017	20.991
O	9.476	31.75	18.971
H	9.436	30.942	19.484
H	8.963	32.38	19.476
O	11.361	49.746	17.257
H	11.542	48.882	16.889
H	12.035	49.867	17.926
O	18.832	33.308	8.215
H	18.052	33.863	8.2
H	19.226	33.47	9.072
O	18.188	26.558	19.416
H	18.847	27.251	19.391
H	18.638	25.787	19.071
O	26.098	53.171	28.482
H	26.73	53.322	29.184
H	25.434	52.605	28.875
O	36.273	47.55	18.006
H	36.08	47.012	17.238
H	36.87	47.015	18.53
O	13.716	38.752	23.521
H	13.682	39.312	24.296
H	13.113	39.164	22.902
O	16.078	42.701	9.744
H	15.403	42.131	9.374
H	16.158	43.417	9.114
O	32.68	27.901	4.721
H	32.057	28.503	4.314
H	33.346	27.756	4.05
O	13.846	28.869	-0.611
H	13.402	28.706	0.222
H	13.155	29.19	-1.191
O	9.915	36.924	-0.668
H	9.642	36.59	-1.523
H	10.791	37.278	-0.819
O	30.083	42.06	0.485
H	29.129	42.097	0.552
H	30.385	42.021	1.393
O	16.117	48.264	5.9
H	15.46	47.974	5.268
H	15.608	48.618	6.63
O	12.735	32.146	0.914
H	11.957	31.68	0.61
H	12.544	33.068	0.744
O	15.156	42.174	-7.048
H	15.21	41.467	-7.69
H	15.905	42.03	-6.47
O	24.646	41.304	1.94

H	24.476	41.901	2.669
H	24.305	41.762	1.171
O	19.16	31.739	4.677
H	19.03	30.808	4.494
H	20.096	31.82	4.857
O	17.855	30.629	1.627
H	17.231	30.066	2.087
H	17.648	30.509	0.701
O	15.826	35.315	-1.129
H	15.726	35.58	-0.215
H	16.244	36.066	-1.552
O	18.421	34.171	13.328
H	17.464	34.16	13.354
H	18.688	33.908	14.208
O	22.8	33.462	7.375
H	22.722	33.327	8.32
H	22.191	34.175	7.184
O	21.123	25.253	9.317
H	20.873	25.746	10.098
H	21.26	25.921	8.645
O	16.641	42.76	-3.105
H	17.488	42.8	-3.549
H	16.852	42.863	-2.177
O	25.261	34.194	-0.31
H	24.739	34.996	-0.324
H	25.839	34.299	0.446
O	15.727	26.934	4.595
H	15.633	27.866	4.398
H	16.594	26.86	4.994
O	15.796	36.547	1.234
H	15.026	36.777	1.754
H	16.521	36.998	1.668
O	29.603	44.972	0.43
H	29.669	44.049	0.184
H	30.503	45.296	0.387
O	26.935	34.717	9.699
H	27.543	34.343	9.062
H	27.386	35.49	10.037
O	20.19	30.844	7.671
H	20.144	31.757	7.955
H	20.734	30.866	6.883
O	31.607	48.788	8.428
H	31.029	49.35	8.944
H	31.939	49.359	7.734
O	27.468	34.791	1.073
H	27.494	35.603	0.566
H	28.369	34.668	1.373

O	30.563	32.944	5.77
H	30.787	33.664	5.18
H	31.345	32.391	5.78
O	31.59	35.418	8.552
H	31.151	35.283	7.712
H	31.198	34.767	9.134
O	21.711	37.354	2.022
H	21.711	37.124	2.951
H	21.686	38.311	2.012
O	17.119	40.615	6.757
H	16.552	39.876	6.537
H	17.963	40.393	6.366
O	17.407	36.024	3.991
H	16.947	35.208	3.791
H	17.882	36.233	3.187
O	31.141	45.494	5.129
H	31.311	46.228	4.539
H	31.98	45.336	5.563
O	20.825	42.948	6.487
H	20.954	42.964	5.539
H	21.252	42.14	6.773
O	17.441	46.535	3.183
H	18.342	46.631	2.873
H	16.937	47.147	2.646
O	19.426	44.973	7.839
H	19.194	45.664	7.218
H	19.694	44.237	7.29
O	28.941	39.862	7.976
H	28.155	39.452	8.337
H	29.204	40.501	8.639
O	11.525	44.352	-0.504
H	12.162	45.067	-0.502
H	11.853	43.736	0.152
O	27.641	38.666	12.174
H	26.887	38.255	11.752
H	27.367	39.571	12.327
O	25.669	47.187	14.523
H	25.009	46.779	15.083
H	25.207	47.376	13.707
O	4.192	45.536	3.243
H	4.916	45.789	2.669
H	3.841	44.739	2.846
O	17.028	24.711	-2.015
H	17.262	24.375	-1.15
H	17.857	24.745	-2.492
O	21.433	35.823	4.36
H	21.95	35.156	3.908

H	20.925	35.334	5.008
O	23.488	27.465	12.648
H	24.372	27.216	12.92
H	23.319	28.288	13.107
O	20.467	43.554	10.039
H	20.181	44.102	9.308
H	21.273	43.142	9.728
O	22.462	39.352	4.139
H	22.537	38.928	4.994
H	23.274	39.125	3.686
O	22.198	39.934	7.515
H	22.162	39.927	8.472
H	22.626	39.109	7.285
O	21.288	35.366	-0.853
H	21.615	34.479	-0.997
H	21.987	35.804	-0.368
O	17.858	32.621	15.928
H	18.602	32.75	16.515
H	17.09	32.783	16.476
O	18.289	27.305	2.067
H	17.516	27.528	1.549
H	18.177	27.788	2.885
O	21.857	31.364	5.368
H	22.228	30.534	5.668
H	22.355	32.032	5.838
O	20.395	40.542	10.916
H	19.675	40.137	10.434
H	20.466	41.422	10.546
O	10.283	31.548	0.241
H	9.582	31.578	-0.411
H	9.941	30.983	0.934
O	26.324	31.615	-0.026
H	27.166	31.817	-0.436
H	25.756	32.344	-0.276
O	36.044	30.927	10.212
H	35.623	31.224	11.018
H	35.323	30.82	9.591
O	7.93	38.914	11.453
H	7.469	39.676	11.101
H	8.816	39.231	11.63
O	25.256	36.907	-2.619
H	25.034	37.216	-1.741
H	24.447	37.008	-3.12
O	11.224	39.656	2.134
H	11.025	39.981	3.012
H	10.476	39.93	1.602
O	38.982	40.165	1.711

H	39.789	40.133	1.198
H	38.286	39.994	1.076
O	16.858	40.541	11.725
H	17.103	41.398	11.377
H	17.558	39.956	11.437
O	16.185	35.141	-4.987
H	15.331	35.525	-4.789
H	16.115	34.234	-4.687
O	15.952	35.251	11.137
H	15.36	34.537	11.371
H	16.059	35.749	11.948
O	20.023	33.523	10.906
H	20.131	32.578	11.009
H	19.667	33.816	11.745
O	24.029	46.095	23.541
H	24.648	46.801	23.351
H	23.168	46.487	23.397
O	28.546	41.879	5.964
H	29.441	41.641	5.72
H	28.289	41.22	6.608
O	21.965	45.793	-1.562
H	21.379	46.487	-1.862
H	21.659	45.008	-2.017
O	31.775	46.452	9.671
H	31.175	46.848	10.304
H	31.903	47.128	9.006
O	21.099	41.072	2.721
H	21.518	40.298	3.097
H	21.569	41.811	3.107
O	25.841	47.086	9.551
H	26.568	46.768	9.016
H	26.261	47.557	10.27
O	9.173	27.48	7.795
H	9.374	28.035	7.041
H	9.946	26.924	7.896
O	14.37	36.752	6.001
H	14.74	35.87	6.022
H	13.49	36.636	5.644
O	22.773	42.309	9.381
H	23.223	43.127	9.589
H	23.477	41.666	9.285
O	20.497	30.637	10.918
H	20.588	29.799	11.373
H	19.917	30.447	10.181
O	22.445	37.565	6.164
H	22.506	36.84	6.785
H	22.086	37.171	5.369

O	30.368	32.817	11.638
H	30.034	33.693	11.444
H	29.709	32.224	11.275
O	25.71	44.493	-0.336
H	26.405	45.129	-0.502
H	25.174	44.897	0.347
O	27.204	41.375	0.353
H	26.782	42.054	0.88
H	26.534	41.111	-0.278
O	13.554	50.905	4.279
H	13.864	51.62	4.834
H	13.683	50.118	4.809
O	14.163	43.641	17.65
H	14.604	43.882	16.835
H	14.467	44.286	18.287
O	26.072	43.071	8.281
H	25.921	43.674	9.009
H	25.878	43.587	7.499
O	22.427	46.527	9.625
H	21.675	47.057	9.891
H	22.341	46.448	8.675
O	16.66	34.803	8.41
H	15.881	34.756	7.855
H	16.318	34.982	9.286
O	26.313	35.417	3.824
H	26.944	34.712	3.969
H	26.476	35.702	2.925
O	33.427	44.584	8.488
H	32.778	45.27	8.644
H	33.308	43.972	9.215
O	14.451	40.814	8.241
H	15.296	40.373	8.153
H	14.523	41.585	7.678
O	14.574	38.694	10.639
H	15.21	38.595	11.347
H	14.166	39.545	10.8
O	25.648	45.502	6.47
H	26.548	45.591	6.156
H	25.343	46.403	6.581
O	20.946	40.737	16.776
H	21.271	40.758	15.876
H	20.383	39.964	16.809
O	14.972	24.515	7.325
H	14.418	25.033	7.909
H	15.855	24.856	7.468
O	26.128	36.931	6.129
H	25.295	36.719	6.55

H	26.108	36.451	5.302
O	14.775	40.594	1.187
H	14.836	40.677	2.138
H	15.502	41.119	0.853
O	24.983	40.5	9.138
H	25.624	39.809	9.304
H	25.501	41.232	8.804
O	30.295	42.127	-2.385
H	29.789	42.937	-2.452
H	30.082	41.783	-1.517
O	23.397	44.813	1.898
H	23.4	45.745	2.115
H	22.578	44.681	1.421
O	25.251	37.859	11.174
H	24.416	38.249	10.917
H	25.011	37.159	11.781
O	25.254	32.606	6.335
H	25.869	33.338	6.298
H	24.474	32.97	6.754
O	24.145	49.113	9.536
H	24.796	48.429	9.378
H	23.527	49.027	8.81
O	19.303	37.561	-0.913
H	19.985	36.898	-0.806
H	18.848	37.309	-1.716
O	10.749	47.5	-1.261
H	10.012	48.072	-1.475
H	10.398	46.892	-0.61
O	23.385	48.922	6.78
H	23.077	49.809	6.599
H	22.687	48.354	6.454
O	8.99	34.461	0.289
H	9.318	35.318	0.017
H	9.63	33.839	-0.058
O	29.999	41.657	-7.552
H	29.307	41.088	-7.215
H	29.934	41.576	-8.504
O	27.505	33.696	-2.201
H	28.368	33.948	-1.872
H	27.017	34.517	-2.248
O	18.705	40.22	-1.878
H	19.202	39.457	-1.584
H	18.629	40.77	-1.098
O	24.284	35.111	12.065
H	24.292	34.416	11.407
H	23.722	34.774	12.763
O	11.017	30.666	4.53

H	11.53	30.273	3.824
H	11.258	31.593	4.513
O	33.013	32.126	12.743
H	32.212	32.084	12.222
H	33.355	33.006	12.586
O	23.76	39.36	-1.954
H	24.469	39.83	-2.393
H	23.475	39.954	-1.259
O	21.249	35.996	11.703
H	21.809	35.576	12.356
H	20.828	35.268	11.245
O	22.208	36.266	9.082
H	22.106	35.895	9.959
H	22.832	36.982	9.195
O	30.066	35.727	-3.372
H	29.882	35.353	-4.234
H	29.205	35.939	-3.013
O	24.507	22.994	0.595
H	23.635	23.388	0.615
H	24.743	22.887	1.517
O	19.638	27.386	-1.643
H	20.237	27.057	-2.314
H	19.244	26.6	-1.267
O	19.684	37.433	13.68
H	20.049	36.688	13.202
H	19.515	37.094	14.559
O	19.619	39.493	6.287
H	20.489	39.623	6.664
H	19.426	38.568	6.443
O	18.246	28.722	7.712
H	18.829	29.47	7.838
H	17.827	28.598	8.564
O	17.726	27.12	9.956
H	17.601	26.26	9.556
H	18.417	26.985	10.604
O	38.113	47.627	6.456
H	37.599	48.078	7.126
H	38.665	47.018	6.948
O	20.359	34.659	6.425
H	19.673	34.099	6.791
H	20.214	35.513	6.833
O	15.272	42.603	6.551
H	16.095	42.142	6.713
H	15.525	43.523	6.471
O	18.894	37.013	1.829
H	19.787	36.7	1.974
H	18.911	37.384	0.947

O	30.997	38.633	10.347
H	30.511	39.415	10.607
H	31.505	38.908	9.583
O	22.038	54.625	4.435
H	21.26	55.091	4.131
H	22.694	55.311	4.562
O	12.34	43.619	7.757
H	12.362	43.581	8.713
H	13.119	43.136	7.479
O	16.265	42.424	-0.079
H	15.662	43.05	0.32
H	17.114	42.867	-0.066
O	16.306	47.745	11.787
H	16.327	47.583	10.844
H	16.969	47.155	12.147
O	30.213	34.154	1.502
H	30.471	35.071	1.414
H	30.57	33.728	0.723
O	22.156	32.727	-1.073
H	21.995	32.171	-0.311
H	22.045	32.142	-1.823
O	29.899	31.17	2.3
H	29.774	31.795	1.585
H	30.818	30.912	2.233
O	29.694	32.232	-3.402
H	28.771	32.078	-3.205
H	29.702	33.063	-3.878
O	12.845	46.055	9.705
H	12.043	46.528	9.483
H	12.542	45.265	10.151
O	10.228	36.379	16.985
H	9.553	36.908	16.56
H	11.053	36.789	16.725
O	16.766	29.317	11.534
H	16.177	29.89	11.043
H	17.006	28.631	10.911
O	28.346	44.595	5.134
H	29.285	44.731	5.257
H	28.169	43.752	5.553
O	22.677	20.481	52.269
H	23.125	20.728	53.078
H	23.117	20.989	51.587
O	23.415	21.306	57.949
H	22.917	20.693	58.489
H	23.575	22.056	58.523
O	9.915	19.591	55.813
H	9.272	20.172	56.218

H	10.726	19.76	56.292
O	22.155	24.034	60.258
H	22.007	24.969	60.119
H	21.484	23.777	60.889
O	11.981	25.624	61.262
H	12.008	24.719	61.573
H	12.895	25.842	61.081
O	16.154	18.908	55.233
H	15.255	18.964	54.909
H	16.274	19.708	55.746
O	14.486	17.054	56.943
H	14.503	17.003	55.988
H	14.822	17.928	57.143
O	18.17	31.408	56.383
H	18.631	30.725	55.897
H	17.446	30.951	56.811
O	23.6	24.95	56.021
H	23.542	25.693	55.42
H	23.939	25.325	56.834
O	17.857	17.735	57.119
H	17.224	18.042	56.469
H	18.228	16.941	56.735
O	10.72	15.203	54.802
H	10.235	15.055	55.613
H	11.564	14.774	54.944
O	27.453	16.348	62.438
H	28.346	16.562	62.168
H	27.03	16.035	61.638
O	9.542	15.365	57.387
H	10	16.024	57.909
H	9.293	14.69	58.019
O	11.879	15.244	61.175
H	12.461	15.893	60.78
H	12.141	14.414	60.777
O	23.715	16.793	57.867
H	23.995	17.175	58.699
H	23.501	17.546	57.317
O	21.269	18.138	61.326
H	21.321	17.186	61.405
H	21.303	18.456	62.228
O	10.769	22.897	50.877
H	10.497	22.351	50.139
H	11.283	23.599	50.478
O	28.26	17.864	53.876
H	27.595	18.265	54.435
H	28.15	16.923	54.009
O	25.362	10.136	52.952

H	25.237	10.936	53.463
H	26.307	9.984	52.973
O	20.584	21.557	49.455
H	21.482	21.881	49.393
H	20.357	21.306	48.559
O	20.75	31.992	55.034
H	20.603	32.789	55.543
H	20.369	32.181	54.177
O	29.87	23.702	51.287
H	29.128	23.966	50.741
H	30.097	22.826	50.975
O	21.249	28.368	53.175
H	21.268	29.036	52.49
H	21.708	28.769	53.914
O	22.841	18.806	55.844
H	22.535	19.688	55.633
H	22.057	18.346	56.145
O	26.444	20.275	51.916
H	25.997	19.683	52.522
H	26.922	19.696	51.324
O	18.99	21.657	60.619
H	19.818	21.369	60.233
H	18.368	20.966	60.394
O	25.293	24.011	54.069
H	25.918	24.734	54.014
H	24.834	24.153	54.897
O	25.109	17.042	51.963
H	24.842	16.252	51.494
H	26.051	16.935	52.096
O	25.711	19.771	57.571
H	26.216	20.355	57.006
H	24.867	20.211	57.678
O	23.792	9.133	56.604
H	23.566	8.203	56.601
H	23.001	9.571	56.92
O	6.328	21.508	51.869
H	6.293	20.988	51.066
H	5.606	21.174	52.402
O	14.664	18.924	64.054
H	13.817	18.743	64.462
H	14.904	19.792	64.376
O	15.835	27.906	51.088
H	14.92	28.11	51.279
H	15.856	26.952	51.013
O	26.746	25.21	48.87
H	26.448	25.447	47.991
H	25.939	25.08	49.369

O	18.697	32.943	59.138
H	18.448	32.188	59.671
H	17.876	33.413	58.991
O	24.511	24.946	50.444
H	23.785	25.476	50.77
H	24.631	24.268	51.11
O	21.104	33.495	51.204
H	20.506	33.087	51.83
H	21.325	34.338	51.598
O	18.897	10.973	53.283
H	19.175	11.653	52.669
H	19.67	10.809	53.824
O	24.202	15.302	49.444
H	25.102	15.623	49.38
H	24.078	14.775	48.655
O	22.89	10.676	60.231
H	23.275	9.8	60.247
H	22.107	10.584	59.688
O	18.872	16.787	64.849
H	19.494	17.467	65.11
H	18.368	16.606	65.642
O	27.075	13.009	47.597
H	27.124	12.29	48.228
H	27.052	13.799	48.135
O	25.199	22.568	62.491
H	26.081	22.2	62.426
H	25.029	22.616	63.432
O	12.05	11.006	50.472
H	12.459	10.14	50.484
H	12.756	11.607	50.71
O	16.494	17.376	37.419
H	16.652	16.849	36.636
H	17.362	17.685	37.679
O	22.622	13.965	55.879
H	22.717	13.459	56.686
H	22.077	14.712	56.126
O	17.677	10.397	62.358
H	16.838	10.288	61.91
H	17.473	10.935	63.122
O	21.174	15.439	57.968
H	20.715	14.721	58.404
H	21.867	15.687	58.58
O	19.771	21.129	46.829
H	18.984	21.575	46.514
H	20.459	21.401	46.221
O	30.666	8.042	53.277
H	31.099	7.958	52.428

H	29.745	8.189	53.063
O	15.795	25.204	51.2
H	15.948	24.803	52.056
H	16	24.511	50.572
O	15.005	12.964	60.137
H	15.953	13.017	60.261
H	14.848	13.403	59.301
O	15.052	22.946	56.851
H	15.617	22.198	56.656
H	15.651	23.623	57.164
O	38.617	23.952	56.452
H	39.167	23.614	55.746
H	37.834	24.28	56.01
O	13.92	18.4	54.064
H	13.011	18.105	54.109
H	14.122	18.413	53.129
O	14.853	22.701	47.56
H	13.974	22.98	47.305
H	14.787	22.53	48.499
O	14.411	19.83	58.439
H	14.65	19.949	59.358
H	13.75	19.138	58.451
O	13.746	19.018	50.885
H	14.669	19.27	50.923
H	13.286	19.724	51.34
O	29.782	16.458	47.448
H	29.568	16.833	46.594
H	29.747	15.512	47.31
O	30.211	21.049	50.585
H	29.598	20.342	50.791
H	30.369	20.962	49.645
O	29.464	23.002	61.595
H	29.356	23.931	61.799
H	29.808	22.991	60.703
O	13.765	16.43	59.677
H	13.741	16.416	58.721
H	14.684	16.275	59.896
O	-1.325	25.605	49.553
H	-2.028	25.259	49.003
H	-1.529	26.536	49.643
O	11.686	25.664	57.426
H	11.466	25.027	58.106
H	10.842	26.023	57.153
O	15.471	14.343	57.867
H	15.654	14.214	56.937
H	15.455	15.294	57.978
O	23.837	29.24	56.52

H	24.24	29.546	57.332
H	22.898	29.361	56.657
O	22.414	17.551	51.46
H	23.202	17.218	51.889
H	22.53	18.501	51.447
O	12.529	25.28	53.213
H	12.751	26.141	53.569
H	13.299	24.741	53.394
O	23.271	26.796	44.392
H	22.423	27.234	44.324
H	23.913	27.499	44.294
O	15.444	32.505	54.595
H	15.242	32.768	55.492
H	16.223	31.956	54.676
O	16.324	19.853	51.19
H	17.066	20.444	51.061
H	16.649	19.189	51.798
O	26.871	14.399	53.081
H	26.113	13.988	53.495
H	27.368	14.774	53.808
O	21.127	26.571	55.483
H	21.084	26.727	54.539
H	22.061	26.6	55.688
O	14.53	23.929	54.283
H	15.403	24.096	53.927
H	14.686	23.688	55.196
O	17.772	15.646	50.724
H	17.591	16.166	51.507
H	18.72	15.715	50.605
O	23.337	21.586	54.882
H	23.441	21.412	55.817
H	23.813	22.404	54.736
O	13.608	14.165	48.218
H	13.574	15.051	47.857
H	14.417	14.145	48.728
O	28.027	24.404	56.52
H	28.805	24.781	56.931
H	27.792	25.028	55.834
O	16.45	26.148	47
H	17.292	26.009	47.433
H	16.5	27.042	46.661
O	20.015	20.408	53.307
H	19.971	19.522	53.668
H	20.819	20.417	52.789
O	29.712	32.198	51.134
H	30.032	31.634	50.431
H	28.946	31.74	51.48

O	12.819	23.287	59.354
H	13.217	23.938	59.932
H	13.305	23.367	58.533
O	14.148	34.908	46.589
H	14.909	34.746	47.147
H	13.404	34.592	47.101
O	18.782	30.765	47.837
H	19.669	30.738	48.194
H	18.226	30.459	48.553
O	30.269	26.882	52.582
H	30.88	26.158	52.441
H	30.752	27.66	52.303
O	23.414	22.434	48.858
H	23.307	23.061	49.573
H	23.888	22.919	48.182
O	25.06	22.513	51.844
H	25.606	21.731	51.916
H	25.298	23.043	52.604
O	18.036	16.743	47.361
H	18.231	16.622	46.432
H	18.369	17.618	47.563
O	20.59	15.411	50.735
H	20.6	15.402	49.778
H	21.218	16.093	50.975
O	20.235	12.514	47.721
H	20.338	13.421	48.008
H	20.145	12.573	46.769
O	25.966	21.584	49.138
H	25.023	21.656	48.991
H	26.084	21.827	50.056
O	17.657	13.087	43.238
H	17.212	12.723	42.472
H	16.997	13.638	43.659
O	17.578	17.755	53.013
H	17.06	18	53.78
H	18.487	17.839	53.301
O	30.549	22.696	58.832
H	30.671	23.121	57.983
H	30.303	21.796	58.616
O	18.46	27.823	44.292
H	19.337	27.623	44.619
H	17.962	28.067	45.073
O	11.709	20.345	57.734
H	12.582	20.281	58.121
H	11.132	20.538	58.473
O	30.228	27.544	56.891
H	30.932	27.157	56.37

H	29.424	27.209	56.495
O	28.921	23.697	47.654
H	28.41	24.151	48.324
H	28.351	22.987	47.359
O	14.926	25.297	58.864
H	15.716	25.243	58.325
H	14.241	25.576	58.258
O	32.857	21.175	48.701
H	32.48	20.321	48.49
H	32.363	21.794	48.164
O	30.072	20.259	47.93
H	30.402	20.603	47.099
H	30.638	19.511	48.12
O	26.703	13.59	44.947
H	26.774	13.346	45.87
H	26	13.037	44.607
O	27.683	21.32	47.166
H	28.325	20.739	47.575
H	27.002	21.43	47.83
O	12.461	21.14	52.431
H	12.425	21.154	53.387
H	11.638	21.542	52.153
O	34.24	24.867	54.61
H	34.207	23.945	54.357
H	35.169	25.04	54.764
O	12.051	21.542	46.122
H	12.084	21.454	45.169
H	12.159	22.48	46.28
O	12.883	8.993	45.938
H	12.039	9.137	45.509
H	13.052	8.058	45.826
O	26.464	15.649	59.692
H	26.377	15.301	58.805
H	25.565	15.831	59.967
O	17.009	5.736	46.739
H	16.634	6.3	46.063
H	16.649	4.868	46.554
O	28.518	18.436	51.299
H	28.702	18.235	52.217
H	29.291	18.125	50.827
O	33.449	8.218	51.242
H	33.935	7.685	51.871
H	33.801	9.101	51.354
O	33.435	8.528	60.487
H	34.389	8.592	60.444
H	33.121	9.308	60.031
O	27.409	26.238	54.404

H	26.864	27.021	54.483
H	27.986	26.422	53.663
O	30.562	26.16	61.275
H	30.147	26.087	60.415
H	30.579	27.1	61.454
O	20.244	21.705	55.604
H	21.146	22.019	55.663
H	20.215	21.212	54.784
O	18.32	36.54	55.961
H	18.443	35.591	55.986
H	17.38	36.663	56.097
O	25.003	15.011	62.073
H	24.926	15.2	63.008
H	25.855	14.583	61.984
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H	19.365	5.568	64.772
H	19.463	5.836	63.285
O	26.995	18.598	60.243
H	27.477	17.771	60.261
H	26.631	18.644	59.359
O	18.641	26.858	52.776
H	19.571	27.009	52.61
H	18.317	26.454	51.971
O	16.862	10.965	55.03
H	17.705	11.075	54.59
H	16.33	10.468	54.409
O	16.391	13.836	54.079
H	16.841	14.435	54.675
H	17.035	13.152	53.896
O	25.554	11.249	57.121
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H	24.907	11.955	57.138
O	30.972	14.002	54.473
H	31.838	14.403	54.553
H	31.002	13.25	55.064
O	19.098	24.4	51.224
H	18.953	23.465	51.075
H	19.96	24.572	50.845
O	20.356	15.027	47.977
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H	21.11	15.588	47.792
O	20.18	17.914	53.851
H	20.692	17.797	53.051
H	20.481	17.216	54.432
O	24.835	31.352	51.238
H	25.73	31.127	51.491
H	24.891	31.542	50.302

O	24.829	28.594	52.528
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H	25.77	28.713	52.654
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H	9.719	25.781	60.774
H	8.263	26.192	60.724
O	14.633	23.059	43.413
H	14.75	23.746	44.07
H	15.504	22.677	43.308
O	17.949	31.558	40.545
H	17.024	31.344	40.42
H	18.183	31.136	41.371
O	14.814	18.531	33.597
H	13.933	18.159	33.556
H	15.303	17.928	34.157
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H	17.518	11.164	46.998
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H	12.516	10.128	36.102
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O	21.552	18.324	42.462
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H	22.93	17.343	47.094
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H	15.011	28.17	34.897

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H	23.746	18.115	33.486
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H	22.831	20.964	40.617
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H	18.412	31.861	38.908
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H	16.089	21.439	36.802
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H	23.706	25.507	47.595
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H	19.423	24.768	48.617
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H	21.26	13.101	45.08
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H	19.611	11.165	44.376
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H	29.139	15.165	28.943
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H	17.339	14.104	29.751
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H	8.197	17.48	35.909
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H	13.726	18.777	47.788
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H	10.411	10.916	28.196
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H	19.04	17.374	21.29
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H	18.824	11.405	28.421
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H	16.186	19.146	11.522
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O	14.461	16.862	18.047
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H	16.278	17.058	26.393
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H	14.316	17.826	10.478
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H	17.626	25.144	15.946
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H	12.378	17.906	12.9
O	11.288	18.384	24.544
H	11.554	17.684	23.948
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O	14.378	25.877	11.865
H	13.807	26.635	11.995
H	14.604	25.593	12.75
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H	24.863	30.029	15.455
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H	20.258	27.816	15.965
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H	20.651	14.358	14.087
H	19.92	13.187	13.467
O	15.009	31.034	10.426
H	15.02	31.605	11.194
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O	21.034	23.453	11.507
H	21.659	23.964	12.022
H	20.966	23.924	10.677
O	16.774	32.792	22.525
H	16.675	32.751	23.477

H	15.885	32.686	22.187
O	16.608	24.138	11.699
H	15.998	24.865	11.571
H	16.178	23.39	11.284
O	19.798	26.324	11.751
H	20.019	27.144	12.192
H	19.313	25.823	12.406
O	14.022	18.817	29.192
H	14.274	18.517	28.319
H	14.846	18.863	29.677
O	13.36	25.641	9.385
H	12.444	25.744	9.645
H	13.858	25.846	10.176
O	18.495	30.315	14.13
H	18.546	31.002	14.795
H	17.605	30.382	13.784
O	18.516	14.805	28.003
H	17.912	15.425	27.595
H	18.454	14.018	27.463
O	16.724	8.893	23.965
H	15.886	9.043	24.403
H	16.828	9.646	23.383
O	19.634	19.477	11.981
H	19.83	18.541	12.002
H	18.68	19.52	11.909
O	15.848	21.748	13.489
H	16.679	22.223	13.453
H	15.194	22.423	13.673
O	14.329	12.903	13.109
H	13.434	13.224	13.21
H	14.739	13.062	13.959
O	20.409	28.053	18.487
H	20.067	27.798	17.631
H	20.323	29.006	18.505
O	8.044	26.482	10.807
H	8.073	26.863	11.684
H	7.418	27.026	10.329
O	15.509	26.798	20.135
H	15.415	27.575	19.584
H	16.352	26.424	19.879
O	16.806	26.52	15.901
H	17.583	27.063	16.029
H	16.304	26.975	15.225
O	13.801	21.709	20.718
H	14.116	21.402	21.567
H	13.794	20.927	20.167
O	15.5	16.92	23.488

H	15.577	17.485	24.257
H	15.129	17.486	22.811
O	17.901	15.445	23.572
H	16.982	15.353	23.825
H	18.346	15.709	24.376
O	11.165	24.38	13.881
H	10.849	24.122	13.015
H	11.257	25.331	13.829
O	18.775	21.264	15.655
H	18.756	21.34	14.701
H	18.317	22.044	15.968
O	6.03	9.38	15.995
H	5.759	9.261	16.906
H	6.345	10.283	15.955
O	15.838	10.512	21.383
H	14.958	10.389	21.739
H	15.774	10.214	20.476
O	26.079	14.201	28.386
H	26.27	13.281	28.571
H	26.884	14.664	28.618
O	38.172	14.233	14.723
H	38.297	14.083	15.66
H	38.723	14.99	14.526
O	19.733	11.836	22.928
H	19.926	10.902	22.846
H	19.342	12.074	22.088
O	25.763	18.415	31.319
H	25.549	17.824	30.597
H	26.72	18.433	31.339
O	15.307	14.359	23.833
H	14.679	13.95	24.429
H	15.182	15.299	23.962
O	22.688	6.068	27.817
H	23.041	5.442	28.45
H	22.188	5.53	27.202
O	23.081	11.979	19.31
H	23.989	12.168	19.072
H	22.71	12.832	19.536
O	26.608	13.041	23.591
H	26.759	12.169	23.226
H	27.483	13.413	23.692
O	28.462	12.687	15.799
H	28.748	13.193	16.559
H	27.523	12.865	15.733
O	13.794	29.837	20.848
H	13.581	30.348	20.067
H	14.727	29.993	20.99

O	19.412	8.438	13.081
H	18.94	9.182	12.707
H	18.772	8.01	13.65
O	16.181	19.21	17.824
H	16.856	18.69	17.387
H	15.701	19.628	17.109
O	19.791	11.786	16.171
H	20.312	11.018	16.402
H	20.417	12.39	15.772
O	8.759	23.717	15.159
H	9.468	24.005	14.584
H	9.11	23.824	16.043
O	15.593	14.828	20.847
H	16.316	14.227	20.668
H	15.577	14.906	21.801
O	24.251	13.715	22.235
H	24.416	14.121	21.384
H	25.123	13.564	22.601
O	20.434	7.693	34.843
H	19.645	8.139	35.152
H	20.299	7.593	33.901
O	22.986	31.236	13.525
H	22.388	30.866	12.876
H	23.851	30.927	13.257
O	22.223	28.822	15.294
H	22.522	29.731	15.296
H	22.959	28.327	15.655
O	20.491	0.583	28.118
H	20.995	1.389	28.228
H	20.381	0.496	27.171
O	27.75	20.872	2.505
H	28.66	21.143	2.378
H	27.546	20.35	1.729
O	25.005	15.887	7.109
H	25.497	15.652	7.896
H	25.032	16.844	7.086
O	11.681	13.06	0.636
H	12.252	12.711	-0.049
H	10.809	13.063	0.242
O	24.826	30.914	4.108
H	25.673	31.054	3.685
H	24.719	31.67	4.685
O	13.236	25.701	4.637
H	13.229	25.023	3.961
H	14.144	26.002	4.664
O	9.069	18.073	4.873
H	9.32	17.367	4.277

H	9.178	17.698	5.747
O	16.041	27.948	0.801
H	15.584	27.107	0.772
H	15.805	28.377	-0.021
O	23.45	29.726	2.094
H	23.959	30.178	2.767
H	22.768	30.351	1.848
O	15.33	19.67	8.259
H	16.228	19.487	7.982
H	14.942	18.807	8.4
O	21.766	19.509	-0.138
H	21.251	18.91	-0.678
H	21.532	19.283	0.762
O	18.011	16.128	8.481
H	17.79	16.055	9.409
H	18.766	16.716	8.46
O	24.065	20.106	3.143
H	24.24	21.047	3.113
H	24.711	19.761	3.758
O	26.912	16.25	9.533
H	27.49	15.505	9.693
H	27.406	17.008	9.846
O	19.316	11.702	7.39
H	19.418	11.247	6.554
H	18.656	12.374	7.218
O	19.901	20.233	9.144
H	20.252	21.123	9.151
H	20.059	19.905	10.029
O	28.478	16.773	6.638
H	27.818	17.467	6.622
H	28.188	16.151	5.971
O	22.477	9.256	5.096
H	22.802	8.802	4.319
H	21.705	9.732	4.791
O	18.433	26.685	5.563
H	18.058	27.144	6.315
H	18.972	27.343	5.125
O	26.058	25.571	4.71
H	26.06	25.43	5.657
H	26.977	25.496	4.454
O	28.375	12.639	0.97
H	28.707	13.536	0.914
H	28.722	12.306	1.797
O	30.005	17.206	-2.224
H	30.484	17.6	-1.495
H	29.962	17.898	-2.885
O	26.623	27.372	-1.903

H	26.324	26.49	-1.681
H	26.113	27.948	-1.332
O	26.572	18.722	6.808
H	26.489	19.182	5.973
H	26.723	19.416	7.45
O	37.71	23.261	4.163
H	37.53	22.574	4.805
H	38.575	23.045	3.817
O	19.594	20.043	5.382
H	20.221	19.371	5.114
H	20.135	20.745	5.742
O	15.561	22.276	3.033
H	15.625	23.139	2.624
H	16.371	22.188	3.536
O	20.079	25.159	2.605
H	19.141	24.971	2.568
H	20.136	26.11	2.513
O	17.889	19.351	7.727
H	18.272	19.26	6.854
H	18.633	19.554	8.295
O	27.46	31.215	7.753
H	27.064	31.621	6.982
H	26.854	30.514	7.993
O	17.677	22.544	8.659
H	18.195	21.781	8.917
H	16.879	22.479	9.183
O	9.762	22.952	3.432
H	10.303	23.316	2.731
H	10.247	23.146	4.234
O	24.398	27.121	10.062
H	24.903	26.366	10.366
H	23.81	27.324	10.789
O	28.567	24.217	11.618
H	28.54	25.17	11.532
H	27.806	24.003	12.158
O	17.938	21.895	4.083
H	18.457	21.271	4.588
H	18.28	21.826	3.192
O	29.975	30.934	9.609
H	30.402	30.097	9.425
H	29.061	30.795	9.362
O	29.101	23.877	6.823
H	29.313	23.36	7.6
H	28.427	24.489	7.119
O	30.892	12.576	7.549
H	30.352	13.229	7.993
H	31.79	12.802	7.792

O	8.666	28.586	13.304
H	8.975	28.21	14.128
H	8.989	29.487	13.315
O	17.547	13.847	2.115
H	18.296	13.368	2.469
H	17.079	14.163	2.888
O	21.828	24.415	4.582
H	22.69	24.651	4.24
H	21.222	24.625	3.872
O	24.927	9.947	6.667
H	24.546	10.806	6.488
H	24.206	9.332	6.533
O	27.363	21.091	8.056
H	27.957	21.666	8.537
H	26.562	21.081	8.58
O	19.795	10.778	1.054
H	20.177	11.555	1.462
H	19.093	10.515	1.65
O	16.483	16.758	0.653
H	16.466	16.727	1.61
H	17.241	17.305	0.444
O	17.401	11.405	-0.056
H	16.952	10.743	0.47
H	18.242	11.529	0.383
O	27.297	12.888	10.375
H	26.856	12.808	11.221
H	27.864	12.118	10.327
O	9.775	15.934	3.279
H	10.67	15.942	2.94
H	9.425	15.085	3.009
O	20.268	16.543	11.886
H	19.989	15.692	11.547
H	20.194	16.457	12.837
O	15.194	24.834	2.414
H	15.373	25.056	1.5
H	15.8	25.378	2.916
O	24.228	17.856	1.107
H	24.966	18.464	1.143
H	23.529	18.298	1.589
O	32.002	19.06	4.83
H	31.208	18.851	4.338
H	31.685	19.475	5.632
O	27.585	18.217	11.689
H	27.228	18.259	12.576
H	28.224	18.93	11.654
O	17.593	23.814	0.472
H	18.222	23.124	0.681

H	17.435	24.255	1.307
O	21.883	25.957	6.913
H	22.805	25.907	7.163
H	21.784	25.294	6.229
O	20.373	15.027	4.158
H	19.528	15.462	4.271
H	20.877	15.276	4.933
O	27.427	21.549	-3.217
H	27.925	21.438	-4.028
H	27.228	22.484	-3.184
O	33.149	27.69	0.087
H	33.457	26.786	0.022
H	33.536	28.017	0.899
O	17.232	21.118	-2.684
H	18	21.388	-3.187
H	17.583	20.857	-1.833
O	7.911	13.308	11.183
H	8.272	14.099	10.783
H	6.962	13.435	11.151
O	25.308	22.496	6.223
H	26.164	22.301	6.605
H	24.748	21.774	6.508
O	24.913	28.741	5.741
H	25.368	28.097	5.198
H	24.855	29.521	5.19
O	29.725	19.782	11.088
H	30.278	20.546	10.927
H	29.883	19.209	10.337
O	20.99	22.163	5.98
H	21.874	21.797	5.962
H	21.097	23.064	5.674
O	21.549	22.257	8.51
H	21.378	23.181	8.692
H	21.034	22.069	7.726
O	20.628	29.157	1.47
H	19.671	29.132	1.462
H	20.89	28.243	1.572
O	24.993	30.51	11.142
H	25.321	29.779	11.665
H	25.113	30.228	10.235
O	17.413	13.828	7.145
H	17.953	14.587	7.364
H	16.562	14.018	7.542
O	15.375	21.29	5.89
H	16.093	21.922	5.843
H	15.514	20.83	6.718
O	24.294	27.077	15.91

H	24.065	26.636	16.729
H	24.302	26.378	15.256
O	22.086	18.62	4.794
H	22.925	19.081	4.811
H	22.157	17.967	5.49
O	26.487	18.891	4.024
H	26.884	19.542	3.445
H	27.115	18.169	4.04
O	23.287	18.55	8.478
H	24.127	18.696	8.915
H	22.942	17.754	8.883
O	23.985	25.166	3.206
H	24.608	24.521	2.872
H	24.481	25.664	3.856
O	30.949	29.581	-0.388
H	30.768	28.975	-1.107
H	31.828	29.345	-0.091
O	12.591	22.676	7.967
H	13.269	23.296	7.697
H	12.05	23.166	8.585
O	24.19	33.043	9.905
H	25.138	33.107	9.789
H	24.062	32.224	10.383
O	22.706	24.944	13.38
H	22.782	25.827	13.016
H	23.495	24.835	13.911
O	24.327	24.996	7.601
H	24.762	24.178	7.362
H	24.693	25.222	8.456
O	11.227	24.177	5.479
H	11.126	23.999	6.414
H	12.03	24.694	5.42
O	23.364	20.73	6.94
H	22.845	21.346	7.457
H	23.223	19.883	7.364
O	25.617	19.369	9.938
H	26.418	19.067	10.366
H	25.115	19.788	10.637
O	14.249	16.865	8.477
H	14.709	16.026	8.469
H	13.547	16.747	9.117
O	16.773	16.503	11.382
H	16.161	17.166	11.063
H	17.266	16.945	12.073
O	27.357	25.57	9.047
H	26.767	25.23	9.72
H	28.05	26.013	9.538

O	29.222	22.503	9.512
H	28.903	23.157	10.133
H	30.032	22.176	9.902
O	20.065	15.917	14.662
H	19.121	16.037	14.76
H	20.442	16.336	15.436
O	22.84	15.24	1.218
H	23.314	15.147	2.044
H	23.079	16.111	0.901
O	19.747	28.853	4.167
H	20.523	28.758	4.72
H	20.09	29.148	3.323
O	17.757	25.255	7.911
H	17.828	24.363	8.251
H	18.564	25.385	7.412
O	24.373	22.145	10.584
H	24.098	22.027	11.493
H	23.586	21.966	10.07
O	17.234	32.81	3.16
H	17.984	32.581	3.709
H	17.126	32.059	2.576
O	22.316	16.363	6.466
H	23.231	16.266	6.2
H	22.253	15.879	7.289
O	29.634	14.138	13.791
H	29.427	13.58	14.541
H	30.589	14.201	13.796
O	21.611	31.667	1.272
H	21.09	30.865	1.265
H	20.975	32.365	1.428
O	6.854	21.859	6.969
H	6.484	21.552	7.797
H	6.907	21.074	6.425
O	6.767	28.59	-4.833
H	6.219	28.64	-4.05
H	6.147	28.467	-5.552
O	25.249	29.283	8.456
H	25.391	29.041	7.541
H	24.924	28.483	8.869
O	7.252	20.142	4.868
H	8.05	19.614	4.848
H	6.561	19.543	4.584
O	30.461	25.687	9.351
H	31.251	25.536	9.869
H	30.652	25.289	8.502
O	25.485	24.651	10.825
H	25.692	24.586	11.757

H	25.085	23.808	10.609
O	11.178	19.367	5.927
H	11.483	20.253	5.734
H	10.527	19.185	5.249
O	31.719	21.523	10.328
H	32.208	20.722	10.514
H	32.106	21.857	9.519
O	12.194	15.257	7.292
H	12.893	14.606	7.226
H	12.633	16.095	7.147
O	25.546	24.756	-1.106
H	25.217	24.028	-0.578
H	26.304	24.395	-1.566
O	31.005	20.41	6.887
H	30.591	20.784	6.109
H	31.501	21.136	7.267
O	22.884	13.68	7.837
H	23.203	13.279	7.029
H	23.677	13.948	8.301
O	20.9	12.869	9.301
H	20.252	12.399	8.777
H	21.524	13.211	8.661
O	30.883	19.134	-3.967
H	31.683	19.568	-3.672
H	31.049	18.925	-4.887
O	26.553	14.614	5.058
H	26.317	15.05	5.876
H	26.761	15.329	4.456
O	8.357	10.99	-1.977
H	9.101	10.484	-2.301
H	7.673	10.339	-1.822
O	12.741	21.495	5.508
H	12.638	22.049	6.282
H	13.675	21.54	5.303
O	17.667	24.596	3.789
H	18.125	25.2	4.374
H	17.89	23.726	4.12
O	19.366	14.289	10.953
H	18.51	13.868	11.029
H	19.906	13.651	10.488
O	20.325	17.527	8.168
H	20.622	18.127	8.852
H	21.128	17.124	7.837
O	30.116	28.626	3.509
H	29.761	29.365	3.015
H	29.755	28.731	4.389
O	9.998	9.875	10.861

H	10.519	9.873	10.059
H	9.122	9.613	10.579
O	10.753	29.493	9.418
H	10.951	28.564	9.294
H	9.8	29.546	9.348
O	24.821	12.699	5.904
H	25.491	13.332	5.642
H	24.39	12.455	5.086
O	21.735	20.886	11.276
H	21	20.364	11.598
H	21.517	21.785	11.523
O	28.676	29.243	6.106
H	28.907	28.802	6.923
H	28.156	29.998	6.38
O	16.044	29.762	3.557
H	15.132	29.965	3.349
H	16.022	29.467	4.467
O	19.592	24.548	-2.628
H	19.743	23.782	-3.183
H	20.36	25.101	-2.769
O	21.323	29.811	-2.478
H	20.934	30.236	-3.243
H	20.574	29.481	-1.981
O	29.433	6.738	1.567
H	28.894	6.679	2.356
H	29.42	5.854	1.202
O	20.871	13.093	2.163
H	21.448	13.631	1.621
H	20.769	13.592	2.973
O	25.296	14.773	-1.874
H	25.193	14.311	-2.706
H	24.669	15.495	-1.922
O	25.704	12.349	0.835
H	26.619	12.629	0.86
H	25.54	12.146	-0.086
O	26.007	26.76	13.232
H	26.114	25.91	13.66
H	26.817	26.882	12.738
O	18.607	10.825	11.516
H	18.514	11.472	12.214
H	17.758	10.823	11.075
O	24.006	9.812	12.629
H	23.494	10.614	12.527
H	23.403	9.194	13.043
O	22.107	28.52	5.877
H	21.835	27.668	6.218
H	23.035	28.41	5.671

O	27.228	5.007	59.048
H	26.818	5.776	58.654
H	28.127	5.02	58.72
O	23.44	-0.106	61.596
H	22.746	-0.665	61.246
H	22.975	0.627	62
O	10.548	6.611	64.585
H	10.971	5.764	64.727
H	10.333	6.921	65.465
O	25.268	1.908	61.124
H	24.721	1.165	61.379
H	25.245	1.906	60.167
O	8.236	-0.726	50.938
H	8.521	0.077	50.501
H	7.316	-0.57	51.149
O	13.268	5.057	56.348
H	13.434	4.388	57.013
H	13.935	4.902	55.68
O	16.025	5.232	51.702
H	15.539	4.854	50.97
H	16.578	5.903	51.302
O	19.18	8.748	58.127
H	18.243	8.74	57.93
H	19.25	9.26	58.933
O	20.541	17.884	57.227
H	20.843	17.008	57.464
H	19.586	17.816	57.226
O	11.416	7.171	51.403
H	11.583	6.233	51.312
H	11.908	7.572	50.686
O	23.572	6.669	59.282
H	24.357	6.627	58.736
H	22.857	6.818	58.664
O	24.607	5.691	65.491
H	25.086	6.344	64.98
H	24.083	6.205	66.105
O	26.594	1.421	63.853
H	26.369	1.606	62.941
H	27.538	1.571	63.902
O	21.894	3.143	56.332
H	21.75	2.479	57.007
H	21.146	3.735	56.416
O	23.108	4.583	49.733
H	22.305	4.277	49.311
H	22.878	4.656	50.66
O	15.117	4.361	54.327
H	15.379	4.842	53.542

H	15.283	3.443	54.112
O	12.641	0.689	48.698
H	12.563	-0.265	48.681
H	13.482	0.854	49.125
O	29.996	1.552	57.179
H	29.823	1.745	56.257
H	29.168	1.735	57.622
O	16.165	-6.385	56.772
H	16.569	-7.115	56.302
H	15.347	-6.744	57.115
O	5.76	0.411	51.452
H	5.245	0.409	52.26
H	5.193	-0.01	50.806
O	13.657	2.66	57.714
H	14.103	1.9	58.09
H	13.139	2.3	56.993
O	12.538	12.201	53.72
H	12.881	12.536	54.548
H	13.068	12.632	53.049
O	28.653	15.43	55.031
H	29.022	15.959	55.739
H	29.294	14.733	54.893
O	15.221	11.447	57.15
H	15.658	12.135	57.652
H	15.743	11.362	56.353
O	30.511	5.608	46.517
H	30.389	6.02	45.662
H	31.392	5.868	46.785
O	20.185	5.688	55.368
H	19.27	5.407	55.407
H	20.259	6.148	54.532
O	23.358	0.548	52.859
H	22.976	-0.32	52.989
H	23.663	0.808	53.728
O	25.509	-7.227	56.824
H	26.361	-7.116	57.246
H	25.718	-7.486	55.927
O	20.715	-1.49	53.724
H	20.416	-1.334	54.62
H	21.07	-2.379	53.742
O	14.98	-0.516	58.022
H	14.972	-1.37	58.454
H	14.993	-0.72	57.087
O	30.045	6.181	55.327
H	29.226	5.811	54.997
H	30.283	6.849	54.684
O	17.722	4.69	55.814

H	17.657	5.229	56.602
H	16.843	4.332	55.695
O	16.951	7.203	49.908
H	17.763	6.711	49.786
H	17.238	8.071	50.192
O	19.784	7.045	46.414
H	20.43	6.63	46.985
H	18.94	6.83	46.812
O	35.468	1.542	52.845
H	34.928	0.947	53.366
H	36.216	1.011	52.574
O	21.255	-1.073	56.642
H	21.333	-1.72	57.343
H	20.788	-0.34	57.043
O	24.575	6.028	45.115
H	24.933	5.518	44.389
H	24.318	5.373	45.764
O	5.005	-1.378	49.61
H	5.706	-1.733	49.064
H	4.25	-1.937	49.424
O	24.989	0.888	57.814
H	25.552	0.13	57.975
H	24.353	0.582	57.168
O	23.221	12.758	58.412
H	23.838	13.474	58.564
H	23.188	12.288	59.245
O	27.502	11.072	55.236
H	28.026	10.438	55.725
H	26.671	11.112	55.71
O	18.522	21.657	51.062
H	19.156	21.842	50.369
H	18.874	20.888	51.509
O	23.035	9.078	48.93
H	22.936	8.241	48.477
H	23.724	8.921	49.575
O	21.733	11.653	49.811
H	21.181	11.809	49.046
H	22.178	10.827	49.622
O	15.255	1.911	53.753
H	16.098	1.505	53.554
H	14.876	1.356	54.434
O	30.662	17.22	50.303
H	30.448	16.384	50.715
H	31.129	16.981	49.502
O	16.521	13.391	49.513
H	17.063	12.966	48.848
H	16.984	14.205	49.713

O	28.754	-2.594	60.54
H	27.89	-3.005	60.537
H	29.082	-2.72	59.649
O	14.542	6.48	49.124
H	14.504	5.526	49.06
H	15.467	6.674	49.274
O	10.785	0.71	46.779
H	10.203	-0.03	46.952
H	11.47	0.636	47.443
O	36.482	7.686	64.509
H	36.943	7.028	65.03
H	35.734	7.217	64.139
O	21.438	10.389	57.357
H	21.066	11.27	57.395
H	20.801	9.841	57.816
O	12.797	7.653	55.749
H	12.886	6.758	56.078
H	12.336	7.557	54.915
O	23.114	13.298	51.322
H	22.561	12.597	50.976
H	22.96	14.037	50.733
O	22.901	8.902	53.531
H	23.183	7.989	53.587
H	23.706	9.408	53.642
O	15.39	-1.598	55.495
H	16.332	-1.683	55.348
H	14.991	-1.929	54.69
O	19.814	6.274	49.521
H	20.44	6.705	50.103
H	20.088	5.357	49.511
O	22.478	7.278	51.251
H	22.802	8.172	51.145
H	23.212	6.724	50.986
O	19.924	2.408	46.032
H	19.98	2.918	45.225
H	19.375	1.658	45.805
O	20.234	7.74	52.791
H	20.317	8.293	53.568
H	21.126	7.675	52.447
O	17.315	9.233	47.078
H	16.473	9.35	47.519
H	17.882	8.843	47.743
O	10.42	-0.714	52.939
H	9.818	-0.504	52.225
H	9.892	-0.618	53.732
O	23.896	-0.392	55.675
H	23.172	-0.78	56.167

H	24.529	-1.104	55.58
O	26.197	7.732	47.088
H	25.683	7.532	46.305
H	25.678	7.381	47.811
O	33.517	2.594	47.586
H	33.367	2.494	48.526
H	32.689	2.332	47.183
O	17.764	3.265	51.134
H	17.134	3.949	51.363
H	17.626	3.116	50.198
O	28.08	5.041	53.758
H	28.89	4.884	53.273
H	27.528	4.286	53.554
O	25.613	5.314	49.286
H	26.077	4.581	48.882
H	24.894	4.906	49.768
O	25.754	-2.423	52.968
H	25.635	-3.131	52.334
H	25.248	-2.699	53.732
O	18.402	14.572	58.785
H	18.169	14.247	59.655
H	18.092	15.478	58.778
O	34.118	6.234	52.854
H	34.101	5.402	52.38
H	33.428	6.148	53.513
O	8.589	6.191	53.433
H	8.099	6.31	54.247
H	8.759	5.25	53.392
O	20.788	9.732	54.627
H	21.559	9.398	54.169
H	21.141	10.184	55.393
O	17.497	19.723	59.502
H	17.368	19.146	58.749
H	16.628	19.798	59.897
O	13.361	6.129	46.526
H	13.555	5.193	46.575
H	13.81	6.506	47.284
O	32.696	14.923	58.644
H	32.231	14.434	57.964
H	33.617	14.87	58.389
O	15.038	13.728	45.166
H	15.8	13.599	45.731
H	14.483	14.34	45.649
O	17.703	2.191	48.342
H	17.097	1.466	48.19
H	17.879	2.543	47.469
O	28.111	0.699	42.858

H	27.628	1.523	42.8
H	27.463	0.027	42.649
O	13.696	6.109	42.113
H	12.794	6.262	42.395
H	14.069	6.985	42.018
O	8.994	6.495	40.733
H	8.413	5.736	40.764
H	9.537	6.35	39.958
O	27.458	3.801	34.979
H	27.072	4.535	35.456
H	26.713	3.248	34.744
O	13.158	11.866	41.548
H	13.314	11.382	42.359
H	12.585	11.296	41.035
O	10.795	-3.691	29.813
H	11.523	-3.455	30.388
H	10.689	-2.934	29.237
O	25.183	15.902	30.383
H	25.432	15.163	29.827
H	25.276	15.571	31.277
O	20.787	2.84	36.465
H	21.083	2.308	37.204
H	19.868	3.025	36.657
O	18.817	1.365	34.201
H	17.964	1.786	34.303
H	19.45	2.056	34.395
O	15.428	6.221	38.635
H	14.594	6.636	38.854
H	16.062	6.633	39.222
O	14.561	11.955	51.034
H	15.028	11.556	51.769
H	15.248	12.364	50.508
O	8.022	1.107	28.216
H	7.674	0.365	27.722
H	7.989	1.84	27.602
O	27.576	6.965	40.956
H	27.945	7.738	41.384
H	28.264	6.303	41.022
O	21.582	15.333	38.408
H	21.193	15.413	37.537
H	21.295	14.475	38.72
O	29.867	10.192	31.666
H	30.485	10.42	32.36
H	29.145	10.81	31.776
O	29.45	-0.004	40.738
H	29.794	-0.892	40.835
H	28.891	0.121	41.505

O	21.272	-0.55	40.247
H	20.323	-0.673	40.222
H	21.614	-1.206	39.639
O	30.884	0.671	44.27
H	31.579	0.211	43.799
H	30.078	0.402	43.83
O	22.077	0.619	37.643
H	23.009	0.428	37.751
H	21.725	0.605	38.533
O	17.478	7.048	39.84
H	18.377	6.983	39.519
H	17.565	7.081	40.793
O	20.17	4.508	44.15
H	19.274	4.486	43.816
H	20.485	5.386	43.935
O	30.497	8.321	39.538
H	30.55	9.243	39.791
H	31.246	7.911	39.971
O	26.243	10.193	42.665
H	26.083	10.176	41.721
H	27.163	9.944	42.755
O	26.957	4.029	31.93
H	27.697	3.482	32.194
H	26.201	3.636	32.366
O	13.479	8.804	50.341
H	13.996	9.397	49.794
H	13.905	7.953	50.239
O	22.812	10.431	34.406
H	23.271	10.71	35.198
H	23.492	10.031	33.864
O	15.33	8.347	42.543
H	15.111	9.276	42.621
H	15.97	8.193	43.238
O	9.757	0.697	40.02
H	9.357	-0.157	39.854
H	10.699	0.53	39.988
O	28.111	14.143	50.781
H	27.786	14.176	51.681
H	28.078	13.215	50.549
O	13.861	3.273	40.517
H	13.006	2.878	40.689
H	13.881	4.052	41.072
O	12.289	8.298	39.09
H	12.82	8.787	38.461
H	11.81	8.971	39.573
O	34.256	5.875	40.779
H	34.146	5.547	39.886

H	34.961	6.518	40.712
O	20.84	3.717	48.634
H	20.708	2.84	48.994
H	20.438	3.682	47.766
O	20.51	12.365	28.823
H	21.302	12.209	29.337
H	20.785	12.24	27.915
O	21.064	14.309	33.096
H	20.77	14.49	32.203
H	20.264	14.328	33.62
O	22.937	7.564	36.141
H	22.178	7.625	35.561
H	23.584	7.07	35.637
O	24.607	6.008	34.239
H	23.92	5.368	34.05
H	24.708	6.498	33.423
O	10.122	3.333	46.224
H	10.886	3.614	45.721
H	10.346	2.454	46.531
O	27.045	-3.492	31.205
H	27.158	-2.703	30.675
H	27.91	-3.902	31.21
O	17.064	2.442	44.664
H	16.206	2.553	44.254
H	17.688	2.733	43.999
O	25.036	-0.562	45.377
H	24.199	-0.452	44.926
H	25.024	0.099	46.069
O	18.487	-3.031	36.441
H	18.807	-3.289	37.305
H	19.25	-2.65	36.007
O	8.32	-1.017	45.277
H	7.567	-0.66	44.807
H	8.494	-0.381	45.971
O	19.737	6.748	38.277
H	19.645	7.091	37.388
H	20.672	6.562	38.365
O	21.397	5.56	41.347
H	21.698	4.665	41.503
H	21.85	5.83	40.548
O	14.884	12.067	33.211
H	14.233	11.538	32.75
H	15.325	11.449	33.794
O	25.011	8.035	32.589
H	25.317	8.823	33.037
H	24.354	8.352	31.969
O	13.288	3.472	47.095

H	13.809	3.134	46.367
H	13.101	2.703	47.634
O	14.332	6.929	35.797
H	13.379	6.926	35.709
H	14.502	6.409	36.582
O	20.519	3.916	33.072
H	19.624	4.119	33.345
H	20.594	4.295	32.196
O	13.793	2.798	44.484
H	13.21	2.099	44.188
H	13.231	3.57	44.543
O	17.634	0.257	53.633
H	17.851	-0.054	54.512
H	18.367	-0.031	53.089
O	19.279	15.56	45.023
H	19.907	16.276	45.126
H	19.555	15.112	44.224
O	20.339	4.887	30.285
H	20.586	4.694	29.38
H	20.256	5.84	30.312
O	26.111	2.179	41.83
H	25.217	1.852	41.725
H	26.018	2.957	42.38
O	25.268	8.581	40.141
H	24.603	8.107	40.641
H	25.987	7.956	40.046
O	19.926	7.382	27.324
H	19.403	7.822	27.994
H	20.819	7.399	27.669
O	13.529	0.297	35.337
H	13.494	1.25	35.422
H	12.62	0.014	35.434
O	9.391	1.097	35.006
H	8.551	1.004	35.456
H	9.288	1.881	34.467
O	20.485	7.541	30.187
H	21.261	8.029	30.465
H	19.904	7.563	30.948
O	24.531	8.577	44.861
H	25.068	8.955	44.165
H	24.563	7.633	44.703
O	21.585	10.883	41.79
H	22.132	11.578	41.425
H	21.807	10.867	42.721
O	26.859	6.665	31.134
H	27.064	5.813	31.518
H	26.123	6.99	31.652

O	23.69	4.088	52.613
H	22.977	3.45	52.649
H	24.407	3.674	53.093
O	15.699	14.549	32.98
H	15.324	13.683	33.143
H	15.186	14.899	32.252
O	31.122	11.027	34.271
H	30.5	11.174	34.984
H	31.847	10.555	34.681
O	14.271	10.764	44.164
H	13.777	10.552	44.956
H	14.857	11.473	44.429
O	23.436	6.768	47.913
H	23.655	6.126	48.589
H	22.98	6.262	47.241
O	16.377	3.385	31.832
H	16.405	4.232	31.387
H	16.483	2.743	31.13
O	12.502	6.722	31.557
H	12.394	6.751	30.606
H	11.61	6.641	31.896
O	22.625	-1.093	28.515
H	23.221	-1.173	29.26
H	22.057	-0.357	28.741
O	13.435	10.001	29.413
H	12.576	9.987	28.992
H	13.65	9.078	29.55
O	19.921	8.425	43.885
H	20.581	9.089	43.685
H	20.167	8.095	44.749
O	22.012	2.889	28.605
H	22.574	2.991	27.836
H	22.562	2.438	29.245
O	11.775	-0.659	29.248
H	11.866	-1.097	28.402
H	12.568	-0.13	29.33
O	34.349	4.783	38.191
H	35.154	5.048	37.746
H	33.803	4.412	37.497
O	15.834	9.224	34.776
H	15.198	8.513	34.859
H	15.532	9.888	35.396
O	8.579	9.012	27.714
H	8.434	8.075	27.585
H	7.871	9.287	28.296
O	18.017	9.035	51.774
H	18.652	8.366	52.029

H	18.327	9.834	52.199
O	9.908	17.531	32.41
H	9.94	18.459	32.641
H	10.827	17.263	32.37
O	26.8	3.535	47.16
H	26.393	2.701	47.396
H	27.728	3.413	47.36
O	21.487	10.849	38.021
H	20.827	10.492	38.615
H	21.07	10.827	37.159
O	29.435	14.32	33.628
H	30.06	14.43	34.344
H	28.69	14.87	33.873
O	11.455	4.273	51.047
H	10.876	3.871	51.694
H	11.057	4.058	50.203
O	14.852	7.907	32.067
H	13.977	7.614	31.814
H	14.763	8.853	32.185
O	21.111	2.951	52.492
H	20.521	2.456	51.924
H	20.606	3.098	53.292
O	24.673	2.954	36.754
H	24.157	3.387	36.073
H	24.359	3.338	37.572
O	26.192	0.814	47.6
H	26.845	0.283	47.144
H	26.042	0.352	48.425
O	8.827	1.553	49.439
H	8.21	2.194	49.791
H	9.64	2.044	49.318
O	17.472	6.243	36.687
H	16.623	6.547	37.011
H	17.827	5.717	37.403
O	12.092	7.628	34.45
H	11.598	7.791	33.647
H	11.839	8.341	35.036
O	19.358	12.995	51.515
H	18.599	13.089	50.939
H	19.947	13.702	51.253
O	25.79	-4.27	50.836
H	25.672	-3.896	49.963
H	26.737	-4.256	50.976
O	19.018	6.686	42.135
H	19.87	6.389	41.814
H	19.217	7.149	42.949
O	23.649	3.726	46.605

H	24.449	3.241	46.404
H	23.2	3.188	47.257
O	24.583	-3.284	44.728
H	24.707	-3.149	43.788
H	24.547	-2.401	45.094
O	20.308	13.099	39.768
H	20.916	12.401	40.014
H	19.969	13.426	40.602
O	20.215	17.458	39.928
H	19.459	17.523	39.343
H	20.695	16.692	39.613
O	25.694	10.506	33.749
H	26.475	10.547	34.302
H	25.69	11.339	33.278
O	13.981	5.128	33.338
H	14.249	5.586	34.134
H	13.363	5.724	32.915
O	10.531	6.239	38.577
H	10.994	6.99	38.949
H	10.687	6.304	37.635
O	18.891	7.565	32.394
H	18.182	7.552	31.751
H	18.636	6.913	33.046
O	18.141	3.774	41.95
H	17.275	4.163	42.078
H	18.685	4.498	41.641
O	31.122	5.684	32.608
H	30.295	6.14	32.456
H	31.603	5.78	31.786
O	29.445	7.443	31.589
H	28.601	7.491	31.14
H	29.669	8.354	31.778
O	37.426	4.444	33.667
H	38.054	3.802	33.998
H	37.827	4.779	32.865
O	15.283	-1.857	32.176
H	14.718	-1.087	32.242
H	16.172	-1.51	32.254
O	31.735	12.301	37.927
H	30.91	12.037	37.52
H	31.688	11.948	38.815
O	23.874	7.2	42.293
H	24.299	6.344	42.267
H	23.235	7.129	43.002
O	29.03	4.494	28.535
H	28.318	4.576	29.17
H	28.974	5.291	28.008

O	32.902	9.474	35.456
H	33.213	8.636	35.111
H	33.406	9.604	36.259
O	16.523	0.86	41.796
H	16.017	0.694	41.001
H	16.91	1.725	41.656
O	32.555	2.665	50.058
H	32.614	1.962	50.704
H	31.629	2.907	50.051
O	29.549	3.217	47.079
H	29.95	4.023	46.755
H	30.156	2.524	46.816
O	24.36	4.059	39.742
H	23.877	3.825	40.535
H	25.267	3.825	39.937
O	17.137	8.069	44.661
H	18.031	8.15	44.331
H	17.155	8.507	45.512
O	17.748	5.537	34.095
H	17.403	5.571	34.988
H	17.145	4.959	33.627
O	30.564	11.096	40.931
H	30.71	11.576	41.746
H	29.934	11.631	40.447
O	17.427	16.958	42.253
H	17.417	16.615	43.147
H	18.251	17.441	42.191
O	27.169	10.439	37.843
H	26.826	10.578	38.726
H	26.652	9.712	37.497
O	8.537	4.062	44.196
H	9.176	4.029	44.909
H	9.006	4.479	43.474
O	16.426	10.681	37.094
H	17.079	11.285	36.74
H	16.576	10.693	38.039
O	19.892	9.378	40.046
H	20.392	9.668	40.809
H	20.017	8.43	40.023
O	8.271	13.213	33.564
H	7.727	13.979	33.749
H	8.203	12.675	34.353
O	16.206	9.254	28.969
H	16.806	9.871	29.389
H	15.372	9.721	28.93
O	18.145	15.09	55.822
H	18.183	14.611	56.65

H	18.973	14.884	55.388
O	23.331	12.998	30.289
H	23.623	12.409	29.593
H	23.928	12.824	31.016
O	11.512	16.092	29.43
H	11.795	15.19	29.28
H	10.556	16.048	29.419
O	20.315	10.769	35.54
H	19.786	9.972	35.51
H	21.142	10.523	35.126
O	26.877	15.804	49.111
H	27.433	16.545	48.869
H	27.354	15.367	49.816
O	21.235	3.758	22.64
H	21.195	3.04	22.008
H	20.61	3.512	23.322
O	28.373	-0.741	19.421
H	28.674	0.057	19.856
H	28.119	-0.454	18.544
O	10.977	-3.25	23.891
H	10.139	-2.863	23.638
H	11.595	-2.935	23.232
O	25.985	6.309	14.138
H	26.204	5.959	15.002
H	26.609	5.889	13.545
O	12.922	7.714	19.022
H	13.824	8.031	19.057
H	12.558	8.114	18.232
O	19.732	0.973	25.443
H	19.728	1.724	24.85
H	18.881	0.556	25.308
O	21.926	11.039	21.593
H	21.493	11.807	21.964
H	22.315	11.354	20.777
O	26.263	4.794	26.495
H	27.141	5.111	26.285
H	26.378	4.285	27.298
O	25.924	12.915	19.413
H	26.569	12.693	20.084
H	25.935	13.872	19.378
O	20.698	7.927	23.611
H	21.65	7.859	23.533
H	20.505	7.582	24.483
O	15.491	5.379	24.029
H	14.715	5.775	23.633
H	15.939	4.949	23.3
O	13.83	11.673	9.491

H	13.978	11.051	10.203
H	12.947	12.009	9.647
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H	26.351	7.11	29.332
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O	28.437	13.639	20.895
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H	29.344	13.34	20.82
O	32.72	1.817	19.041
H	32.923	1.168	19.715
H	31.971	1.448	18.572
O	23.772	3.798	26.257
H	24.641	4.172	26.112
H	23.763	3.001	25.727
O	26.264	3.215	12.822
H	26.051	2.364	13.205
H	27.135	3.419	13.163
O	31.501	2.986	29.186
H	30.575	3.215	29.257
H	31.949	3.825	29.078
O	22.865	2.303	20.081
H	23.547	2.853	20.466
H	22.549	2.804	19.328
O	21.622	3.431	11.48
H	22.256	4.133	11.627
H	20.782	3.882	11.396
O	21.221	1.873	16.445
H	21.129	2.459	17.196
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H	26.574	11.149	27.443
H	27.081	10.278	28.573
O	23.415	10.986	28.38
H	22.609	10.965	27.864
H	24.109	10.793	27.749
O	27.051	5.453	16.359
H	27.999	5.527	16.255
H	26.934	4.763	17.012
O	13.853	2.913	24.95
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H	14.456	3.654	25.009
O	24.956	3.119	22.11
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H	25.213	2.208	21.968
O	12.552	12.201	25.925
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H	17.89	7.1	15.84
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O	11.653	-1.746	21.584
H	10.856	-1.783	21.056
H	12.239	-1.17	21.093
O	15.555	7.22	17.854
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H	16.512	7.218	17.875
O	33.728	5.156	31.017
H	34.502	5.03	30.468
H	33.174	5.756	30.518
O	17.844	12.643	20.716
H	17.311	11.949	21.103
H	17.705	12.555	19.773
O	24.163	8.497	18.931
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H	24.474	7.662	18.58
O	16.03	13.938	14.872
H	16.394	13.957	15.758
H	15.453	14.701	14.834
O	21.949	14.702	20.033
H	21.223	14.987	20.589
H	22.45	15.5	19.867
O	21.844	9.784	17.838
H	22.053	10.549	18.374
H	22.606	9.213	17.929
O	13.018	6.102	22.892
H	12.235	5.579	23.064
H	13.401	5.709	22.107
O	21.408	1.015	12.983
H	21.71	1.856	12.639
H	21.076	0.549	12.215
O	17.221	6.871	28.228
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H	17.072	6.811	27.285
O	29.951	-2.968	22.781
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H	6.943	4.472	10.379
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O	27.92	6.493	19.198
H	28.752	6.03	19.295
H	27.649	6.311	18.298
O	17.044	4.239	21.966
H	17.387	5.127	21.867
H	17.497	3.731	21.292
O	21.41	7.236	18.141
H	21.244	8.091	17.743
H	21.185	7.354	19.064
O	25.34	-2.921	17.93
H	24.995	-2.03	17.986
H	25.499	-3.057	16.996
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H	14.037	1.782	28.296
H	12.575	2.012	27.977
O	23.922	-4.824	37.78
H	24.13	-4.476	36.912
H	23.372	-5.588	37.606
O	18.809	2.748	23.603
H	18.116	3.39	23.451
H	19.038	2.432	22.729
O	27.361	-3.031	7.368
H	28.171	-2.733	7.783
H	27.626	-3.288	6.485
O	28.413	2.197	27.157
H	28.617	3.044	27.554
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H	26.658	-2.594	22.125
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H	27.517	1.07	16.602
H	26.332	0.244	17.055
O	5.992	4.065	13.015

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H	5.51	3.887	13.822
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H	21.717	-0.62	17.115
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H	19.645	8.837	22.193
H	19.871	8.859	20.696
O	24.49	7.892	26.544
H	25.207	8.032	27.162
H	23.78	7.534	27.078
O	26.712	9.304	11.995
H	26.434	9.432	11.089
H	25.906	9.094	12.466
O	22.899	10.889	24.206
H	23.036	9.943	24.163
H	22.738	11.149	23.299
O	14.348	9.848	15.108
H	14.869	9.327	14.496
H	14.955	10.062	15.816
O	17.564	1.245	13.851
H	16.832	1.568	13.325
H	18.191	1.969	13.858
O	14.396	9.234	25.226
H	13.804	8.686	25.742
H	13.997	9.264	24.357
O	26.239	3.987	29.056
H	26.65	3.986	29.92
H	25.414	4.456	29.184
O	26.117	4.004	18.848
H	25.93	3.971	19.786
H	26.868	3.422	18.733
O	7.887	-1.502	22.508
H	8.355	-1.074	21.791
H	6.962	-1.358	22.31
O	21.939	8.064	14.22
H	21.04	8.233	13.939
H	21.894	7.223	14.675
O	17.921	12.331	13.748
H	17.303	12.708	14.374
H	18.577	11.895	14.292
O	24.584	-0.287	17.622
H	23.831	-0.24	17.033
H	24.21	-0.18	18.497
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H	15.45	5.727	12.65
H	15.299	4.257	12.978

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H	9.756	-4.44	18.882
O	35.961	10.881	18.917
H	35.222	10.305	18.721
H	35.589	11.763	18.901
O	14.052	13.918	18.213
H	14.218	14.85	18.355
H	14.008	13.546	19.094
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H	12.332	13.705	15.744
H	13.118	14.313	16.885
O	14.978	14.159	26.71
H	15.388	13.298	26.788
H	14.228	14.122	27.304
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H	10.949	5.979	10.117
H	12.184	5.659	9.302
O	15.805	3.755	28.607
H	16.612	3.254	28.727
H	16.03	4.419	27.955
O	28.201	9.912	34.611
H	27.981	9.249	33.956
H	28.554	9.414	35.348
O	34.79	4.674	12.49
H	34.522	3.838	12.873
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H	9.745	8.107	33.015
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O	21.267	-9.491	17.829
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O	36.269	4.061	18.697
H	35.404	4.471	18.713
H	36.867	4.773	18.471
O	18.308	2.863	29.235
H	19.253	2.709	29.251
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O	14.653	2.53	16.523
H	14.997	3.423	16.539

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H	22.681	-2.367	27.292
H	23.503	-3.629	27.445
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H	24.644	-3.615	24.643
O	17.281	6.696	25.532
H	16.839	7.337	24.975
H	16.896	5.856	25.282
O	20.418	3.773	18.902
H	20.565	4.423	19.589
H	20.315	4.288	18.102
O	24.315	0.711	27.218
H	23.73	1.018	26.526
H	23.919	-0.106	27.521
O	15.227	11.401	26.954
H	15.165	10.709	26.296
H	16.041	11.214	27.422
O	21.279	11.452	26.453
H	20.488	10.937	26.295
H	21.728	11.468	25.608
O	22.651	12.091	11.708
H	22.665	12.907	12.207
H	22.25	12.328	10.872
O	21.783	3.548	6.709
H	22.569	3.605	7.253
H	22.031	2.966	5.99
O	11.215	4.087	13.888
H	11.304	3.204	13.531
H	10.27	4.235	13.93
O	17.726	13.811	17.087
H	18.178	14.584	17.424
H	18.427	13.252	16.751
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H	11.895	3.526	17.697
H	11.996	3.441	16.19
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H	27.831	11.891	29.834
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H	25.249	7.724	14.862
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H	31.273	1.631	11.901
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H	13.835	0.765	20.346
H	12.953	-0.057	19.431
O	29.599	5.671	22.622
H	30.254	6.354	22.762
H	28.764	6.139	22.609
O	25.224	2.427	33.67
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H	26.098	-3.47	10.823
H	26.493	-2.179	11.508
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O	27.235	6.732	22.01
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H	11.157	7.937	26.108
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H	29.074	6.972	34.545
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H	31.07	12.733	22.423
H	31.92	12.388	21.219
O	24.065	1.397	24.365
H	24.8	0.815	24.558
H	23.469	0.864	23.839

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H	17.868	7.615	21.46
H	18.777	6.405	21.486
O	22.516	9.224	30.716
H	22.801	9.851	30.052
H	21.983	9.742	31.321
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H	16.018	19.209	19.685
O	11.969	8.645	16.363
H	12.256	7.804	16.008
H	12.106	9.266	15.648
O	18.41	12.754	25.362
H	19.128	12.348	24.876
H	17.831	13.106	24.686
O	23.636	4.103	17.885
H	23.886	3.403	17.281
H	24.417	4.25	18.418
O	24.447	10.915	16.444
H	24.832	10.08	16.175
H	23.53	10.852	16.178
O	16.072	11.658	17.111
H	16.832	12.19	16.877
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H	20.849	7.408	-1.334
H	20.956	6.456	-2.506
O	23.993	-3.256	1.628
H	23.474	-3.251	0.824
H	23.38	-3.54	2.306
O	24.754	3.276	-3.106
H	24.982	2.547	-2.529
H	23.806	3.369	-3.013
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H	19.002	12.104	-2.063
H	19.4	13.352	-1.303
O	14.504	13.584	3.429
H	14.608	13.405	2.494
H	14.226	14.5	3.468
O	31.055	7.489	12.192
H	31.191	7.849	11.316
H	30.105	7.399	12.269
O	19.904	9.797	9.309
H	19.37	10.311	8.703
H	19.7	10.156	10.172
O	25.175	-1.062	7.261
H	24.427	-1.386	7.764
H	25.904	-1.621	7.529
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H	27.307	3.465	8.792
O	13.493	3.781	0.834
H	13.543	3.6	-0.104
H	13.591	4.731	0.9
O	18.753	2.588	-0.553
H	18.834	2.653	-1.505
H	18.063	1.939	-0.414
O	25.788	7.473	3.902
H	24.874	7.282	3.69
H	26.017	8.208	3.333
O	14.569	1.08	9.308
H	14.965	0.269	9.628
H	15.147	1.365	8.6
O	18.899	0.96	3.288
H	18.207	1.601	3.128
H	18.494	0.307	3.859
O	22.787	6.233	10.579
H	22.071	6.833	10.784
H	23.182	6.033	11.428
O	33.448	8.903	18.686
H	33.69	8.383	17.92
H	32.898	9.604	18.336
O	16.46	4.04	-0.677
H	15.859	3.38	-0.334
H	17.332	3.69	-0.491
O	23.205	3.075	9.059

H	23.63	2.25	9.292
H	22.676	3.297	9.825
O	30.447	2.149	14.429
H	29.692	1.789	13.962
H	31.142	2.179	13.772
O	12.779	0.098	17.596
H	13.111	0.989	17.706
H	12.859	-0.073	16.658
O	15.502	2.187	12.399
H	14.869	1.566	12.039
H	16.191	2.239	11.736
O	26.02	-1.416	4.645
H	25.862	-0.6	4.17
H	25.773	-1.219	5.548
O	19.393	4.671	7.613
H	20.211	4.195	7.466
H	18.714	3.997	7.576
O	16.916	6.69	-1.191
H	16.084	7.114	-1.403
H	16.675	5.793	-0.958
O	14.923	7.148	11.45
H	15.173	7.349	10.548
H	14.031	7.486	11.533
O	31.818	-1.892	9.011
H	30.992	-1.579	8.643
H	32.274	-1.097	9.286
O	27.769	7.615	8.884
H	26.909	7.995	9.064
H	27.628	6.67	8.93
O	18.177	6.117	1.18
H	17.834	6.735	1.826
H	17.646	6.269	0.398
O	11.867	0.652	8.877
H	11.697	0.115	9.651
H	12.768	0.955	8.989
O	19.438	4.974	10.809
H	19.828	5.847	10.764
H	18.897	4.912	10.022
O	25.071	1.046	10.684
H	25.847	0.547	10.426
H	25.418	1.879	11.002
O	23.579	7.206	8.14
H	23.758	8.07	8.512
H	23.502	6.629	8.901
O	23.925	1.59	6.229
H	24.464	1.162	6.894
H	24.541	2.123	5.727

O	30.319	4.112	8.687
H	30.826	4.884	8.435
H	30.769	3.382	8.262
O	20.416	7.383	10.801
H	20.077	7.996	10.148
H	20.143	7.753	11.641
O	26.887	13.168	12.932
H	26.472	12.702	13.658
H	27.784	13.323	13.228
O	9.296	6.518	7.784
H	10.003	6.477	8.428
H	8.514	6.253	8.268
O	23.447	5.271	13.369
H	23.172	5.347	14.283
H	24.322	5.658	13.349
O	24.905	-7.042	3.795
H	24.636	-6.994	4.712
H	24.168	-6.672	3.309
O	23.898	4.452	3.766
H	24.109	4.97	4.543
H	23.702	5.102	3.091
O	15.369	10.349	1.689
H	14.639	9.925	2.141
H	15.031	11.211	1.447
O	17.731	2.746	19.938
H	18.138	1.905	19.726
H	16.81	2.633	19.703
O	20.053	4.766	16.042
H	19.805	5.122	15.189
H	20.823	4.227	15.862
O	22.679	5.989	16.082
H	23.141	5.309	16.573
H	22.119	6.414	16.731
O	11.611	7.363	2.599
H	10.724	7.484	2.261
H	11.486	6.964	3.46
O	15.722	5.662	4.868
H	15.288	5.929	5.679
H	16.639	5.54	5.117
O	27.269	5.31	11.03
H	27.855	4.713	10.565
H	26.706	4.735	11.549
O	15.814	8.47	8.918
H	15.951	9.409	9.044
H	16.648	8.151	8.573
O	20.138	3.109	1.553
H	19.564	2.9	2.29

H	19.659	2.804	0.782
O	32.527	5.313	11.336
H	31.893	5.734	11.916
H	32.317	5.651	10.465
O	22.015	2.128	3.208
H	22.613	2.782	3.57
H	21.424	2.628	2.646
O	15.631	1.172	6.592
H	15.756	0.448	5.978
H	14.906	1.677	6.223
O	13.524	-0.052	2.901
H	14.078	-0.564	3.49
H	14.093	0.649	2.585
O	16.478	7.305	2.712
H	16.087	7.053	3.548
H	15.739	7.341	2.103
O	19.546	10.002	5.249
H	19.395	9.597	4.395
H	19.355	9.308	5.88
O	14.839	8.605	-1.77
H	14.171	8.504	-2.448
H	15.213	9.471	-1.93
O	16.849	12.694	4.599
H	16.914	12.918	5.527
H	16.11	13.212	4.279
O	30.063	2.882	1.728
H	30.438	2.645	2.577
H	29.209	3.259	1.941
O	6.491	2.391	7.092
H	6.146	1.632	7.563
H	6.153	2.294	6.202
O	23.262	7.45	2.636
H	22.4	7.038	2.706
H	23.498	7.356	1.713
O	27.95	6.063	3.937
H	27.112	6.521	4.008
H	27.813	5.419	3.243
O	13.529	5.096	3.529
H	13.273	5.832	2.972
H	14.392	5.338	3.865
O	27.635	0.488	7.015
H	28.267	1.102	6.642
H	26.936	0.437	6.363
O	29.863	4.756	5.49
H	29.092	5.113	5.049
H	30.081	5.408	6.156
O	15.064	14.038	8.65

H	14.392	13.356	8.641
H	15.485	13.948	9.505
O	10.954	12.35	4.302
H	11.747	12.618	4.766
H	11.236	11.624	3.745
O	31.957	10.727	10.484
H	31.559	10.352	9.698
H	31.222	10.871	11.08
O	16.274	13.752	11.158
H	16.665	14.585	11.421
H	15.769	13.473	11.922
O	25.76	9.778	9.309
H	24.816	9.814	9.467
H	25.85	9.917	8.367
O	16.797	11.071	9.389
H	16.893	11.224	8.449
H	16.173	11.738	9.677
O	14.082	7	0.947
H	14.301	7.607	0.24
H	13.17	7.2	1.16
O	14.949	6.433	7.345
H	14.701	5.699	7.907
H	15.221	7.12	7.954
O	20.896	7.285	6.482
H	20.985	6.557	7.097
H	21.772	7.668	6.436
O	22.255	11.226	14.886
H	21.877	11.943	14.378
H	22.061	10.441	14.374
O	1.684	52.712	54.405
H	2.177	53.298	54.98
H	1.192	53.298	53.83
O	7.029	55.051	61.211
H	7.293	55.327	60.333
H	7.546	55.601	61.8
O	1.396	52.531	59.305
H	0.623	52.085	58.957
H	1.047	53.302	59.751
O	15.915	45.599	51
H	15.763	46.537	50.884
H	15.052	45.201	50.886
O	4.152	52.714	58.213
H	3.793	53.293	57.541
H	3.388	52.263	58.574
O	13.412	53.765	61.882
H	13.019	52.986	61.488
H	14.337	53.543	61.982

O	1.176	45.358	56.222
H	0.428	45.385	56.819
H	1.271	46.261	55.917
O	4.685	47.079	59.016
H	3.971	47.623	59.348
H	4.826	47.39	58.121
O	0.843	54.818	52.739
H	0.265	54.594	52.009
H	1.436	55.48	52.381
O	10.894	48.604	54.427
H	10.886	48.762	53.483
H	11.115	47.677	54.513
O	5.075	55.335	45.971
H	5.551	55.937	46.544
H	4.154	55.468	46.196
O	6.364	53.43	47.349
H	6.003	54.066	46.732
H	5.614	53.158	47.879
O	-3.926	47.579	52.504
H	-4.665	46.998	52.685
H	-3.231	47.268	53.084
O	0.745	47.836	55.158
H	1.428	48.505	55.127
H	0.127	48.093	54.474
O	10.478	57.701	58.529
H	10.748	56.825	58.255
H	10.845	57.801	59.407
O	5.688	44.293	56.225
H	5.901	45.216	56.089
H	6.321	43.995	56.878
O	6.715	47.247	56.122
H	6.888	47.367	55.188
H	7.247	47.917	56.552
O	6.462	46.125	60.681
H	6.6	46.977	61.095
H	5.927	46.316	59.911
O	5.99	53.776	50.9
H	5.648	54.241	50.137
H	5.513	54.149	51.641
O	8.054	42.168	56.226
H	8.331	41.364	56.666
H	8.384	42.872	56.784
O	9.981	50.582	56.009
H	9.528	50.992	55.272
H	10.343	49.773	55.649
O	8.509	49.154	57.651
H	9.079	49.792	57.222

H	8.459	49.45	58.56
O	11.602	49.484	48.801
H	10.959	50.179	48.942
H	11.111	48.788	48.365
O	6.941	52.544	42.668
H	6.514	52.622	43.521
H	6.263	52.791	42.038
O	3.583	53.614	52.361
H	3.173	53.13	53.077
H	3.107	53.333	51.579
O	7.161	46.404	53.631
H	8.045	46.041	53.571
H	6.717	46.084	52.846
O	0.238	47.708	51.482
H	-0.252	47.57	50.671
H	-0.377	48.16	52.06
O	-2.428	46.027	54.576
H	-2.29	46.2	55.507
H	-2.131	45.126	54.453
O	6.016	50.462	53.686
H	5.974	50.043	52.827
H	5.444	49.931	54.24
O	8.433	51.483	53.972
H	8.495	51.768	53.06
H	7.565	51.087	54.041
O	6.466	55.449	53.314
H	7.201	55.582	52.716
H	6.778	54.791	53.935
O	3.787	54.655	49.147
H	3.625	55.395	48.563
H	2.925	54.262	49.282
O	-2.16	57.777	49.525
H	-1.369	57.976	50.025
H	-1.845	57.596	48.64
O	12.525	61.996	53.437
H	11.98	62.6	52.931
H	13.423	62.266	53.245
O	13.162	54.908	52.37
H	13.345	54.015	52.076
H	12.291	54.857	52.763
O	4.949	50.121	48.314
H	5.51	49.355	48.434
H	4.734	50.117	47.382
O	8.227	53.752	55.24
H	8.419	53.123	54.545
H	9.084	53.978	55.603
O	11.571	48.124	51.641

H	11.512	47.466	50.948
H	11.701	48.951	51.177
O	5.571	53.168	54.893
H	5.59	52.784	54.017
H	6.49	53.328	55.105
O	6.584	59.543	55.277
H	5.729	59.814	54.942
H	6.785	60.179	55.964
O	13.43	52.15	50.657
H	14.269	52.602	50.568
H	13.169	51.95	49.758
O	10	47.764	46.947
H	9.531	48.573	46.744
H	9.513	47.082	46.485
O	8.14	46.26	63.65
H	7.706	47.004	63.232
H	7.863	45.502	63.135
O	14.737	44.422	60.147
H	15.353	45.126	60.348
H	14.233	44.751	59.403
O	20.059	48.419	55.101
H	20.954	48.208	54.835
H	20.089	49.35	55.325
O	3.007	47.167	50.377
H	3.253	46.965	51.28
H	2.074	47.377	50.425
O	4.382	48.897	54.885
H	3.569	49.335	54.635
H	4.428	49.001	55.836
O	6.812	42.229	53.507
H	7.624	41.856	53.164
H	6.989	42.373	54.437
O	-1.336	56.702	29.508
H	-1.947	55.971	29.599
H	-0.849	56.509	28.707
O	5.254	51.554	44.928
H	5.341	51.755	45.86
H	5.4	50.609	44.872
O	7.991	55.305	37.92
H	8.465	54.798	37.261
H	7.142	55.487	37.516
O	12.133	52.343	33.856
H	12.827	51.684	33.849
H	11.334	51.848	34.038
O	18.133	56.226	47.72
H	18.807	56.891	47.578
H	18.408	55.773	48.517

O	11.273	50.342	41.83
H	10.383	50.689	41.891
H	11.819	51.009	42.245
O	11.707	53.242	40.318
H	11.025	53.013	40.948
H	11.277	53.179	39.465
O	-0.932	48.865	30.056
H	-0.307	49.495	29.697
H	-0.739	48.048	29.597
O	4.445	57.042	33.044
H	4.427	57.803	33.625
H	5.197	57.196	32.472
O	5.767	54.353	35.381
H	6.471	54.456	34.741
H	5.654	55.227	35.755
O	5.578	57.017	36.329
H	5.027	57.632	35.846
H	6.463	57.373	36.248
O	4.651	56.608	38.822
H	5.057	56.618	37.955
H	3.847	56.101	38.704
O	6.86	58.123	31.853
H	7.033	57.223	31.577
H	7.5	58.289	32.545
O	2.195	57.908	45.256
H	2.9	57.603	44.685
H	1.625	58.419	44.682
O	-0.208	54.917	38.794
H	-0.56	54.863	37.906
H	-0.81	54.393	39.323
O	5.978	51.816	36.44
H	5.885	52.71	36.112
H	6.318	51.92	37.329
O	6.595	58.493	42.439
H	6.136	58.898	43.175
H	7.196	59.17	42.13
O	-0.791	49.516	43.89
H	-0.816	49.735	44.822
H	-1.622	49.843	43.545
O	8.149	49.282	45.633
H	7.784	49.222	44.75
H	7.63	48.665	46.149
O	7.978	57.191	55.951
H	7.623	56.909	56.794
H	7.439	57.941	55.703
O	2.521	54.126	38.9
H	2.471	53.219	38.596

H	1.608	54.402	38.981
O	8.838	49.778	40.203
H	9.323	49.033	39.846
H	8.827	50.419	39.492
O	8.948	57.768	34.064
H	9.151	58.576	34.536
H	9.478	57.099	34.496
O	3.364	51.125	43.155
H	3.349	50.173	43.064
H	3.808	51.279	43.989
O	0.65	54.345	42.208
H	1.286	53.766	42.628
H	0.435	53.907	41.384
O	-1.319	47.248	49.285
H	-1.26	46.45	48.759
H	-2.199	47.223	49.661
O	6.653	55.925	30.182
H	7.307	55.771	29.5
H	6.481	55.057	30.548
O	2.079	53.2	35.506
H	1.461	52.969	34.813
H	1.891	52.58	36.211
O	2.371	56.091	35.136
H	2.271	55.2	35.471
H	3.156	56.055	34.59
O	14.703	52.385	36.331
H	15.362	52.909	36.786
H	14.046	53.02	36.047
O	13.22	54.261	42.692
H	13.58	53.898	41.882
H	12.765	53.525	43.102
O	-1.68	54.353	43.708
H	-1.725	53.427	43.946
H	-0.908	54.418	43.144
O	9.238	57.449	39.345
H	8.791	56.623	39.159
H	9.998	57.198	39.869
O	1.974	45.03	28.321
H	2.172	45.944	28.525
H	2.703	44.744	27.771
O	6.731	57.192	47.795
H	7.357	57.893	47.615
H	7.256	56.391	47.778
O	12.977	54.482	35.695
H	13.275	55.391	35.66
H	12.343	54.41	34.982
O	9.18	56.726	27.643

H	8.547	57.317	27.236
H	8.651	55.997	27.969
O	8.931	55.907	44.653
H	8.292	55.723	43.965
H	8.708	56.786	44.96
O	0.376	53.017	27.084
H	1.158	53.567	27.129
H	0.062	52.974	27.987
O	4.778	51.142	40.599
H	4.407	50.437	40.069
H	4.068	51.396	41.189
O	9.209	54.524	31.726
H	9.638	53.688	31.905
H	9.695	54.888	30.985
O	1.648	49.652	27.11
H	1.043	49.915	27.804
H	1.78	50.448	26.595
O	-2.22	51.247	34.742
H	-2.338	50.552	34.095
H	-2.119	52.044	34.222
O	2.411	57.322	31.014
H	3.294	57.59	31.268
H	2.29	57.692	30.14
O	5.035	48.931	45.824
H	5.522	48.43	46.479
H	4.67	48.268	45.239
O	3.937	63.631	43.354
H	3.612	63.106	44.086
H	4.533	64.262	43.758
O	2.311	61.056	50.733
H	1.488	60.631	50.975
H	2.317	61.87	51.237
O	0.74	61.491	45.528
H	1.542	61.837	45.92
H	1.045	60.93	44.815
O	2.696	48.621	32.936
H	2.738	49.318	32.281
H	3.353	48.865	33.588
O	6.932	55.552	42.743
H	6.562	56.423	42.597
H	6.451	54.983	42.143
O	4.032	56.574	43.485
H	3.765	55.728	43.125
H	4.882	56.403	43.892
O	5.506	47.636	39.138
H	5.771	48.448	39.571
H	4.694	47.384	39.579

O	0.565	44.963	43.461
H	0.815	45.754	42.984
H	0.605	44.266	42.806
O	-2.469	53.276	49.275
H	-1.83	53.989	49.293
H	-2.17	52.67	49.953
O	7.805	61.281	46.177
H	8.037	61.856	45.448
H	8.441	61.491	46.86
O	2.232	50.103	49.124
H	1.838	49.394	48.615
H	3.134	50.152	48.809
O	0.436	55.184	46.849
H	-0.385	55.548	46.517
H	0.612	54.434	46.281
O	3.949	47.253	30.87
H	3.607	47.65	30.069
H	3.31	47.485	31.545
O	2.681	49.397	36.943
H	3.585	49.087	37.002
H	2.503	49.437	36.003
O	13.719	50.519	32.086
H	14.572	50.949	32.13
H	13.713	49.921	32.834
O	13.608	53.491	31.691
H	14.544	53.411	31.874
H	13.181	53.187	32.492
O	3.53	50.654	31.101
H	4.033	51.391	31.449
H	4.078	50.3	30.4
O	11.287	58.633	36.299
H	10.397	58.985	36.33
H	11.628	58.767	37.183
O	11.973	60.278	44.287
H	12.544	59.512	44.327
H	11.554	60.311	45.147
O	3.735	53.92	42.577
H	3.801	53.04	42.948
H	4.082	53.832	41.69
O	13.825	47.517	37.026
H	14.347	48.315	37.109
H	14.469	46.824	36.881
O	4.775	59.175	40.399
H	4.53	58.522	39.742
H	5.347	58.703	41.004
O	8.05	58.237	36.726
H	7.6	59.003	37.083

H	8.587	57.916	37.45
O	14.077	51.787	40.374
H	14.766	52.235	39.884
H	13.274	52.249	40.135
O	9.72	52.773	42.288
H	8.886	52.404	42.58
H	10.002	53.331	43.013
O	12.171	49.07	30.119
H	12.764	49.605	30.647
H	11.631	49.705	29.649
O	12.472	40.58	37.024
H	12.973	41.261	37.475
H	11.812	40.307	37.661
O	-0.797	37.556	35.772
H	-0.559	36.923	35.094
H	0.019	37.718	36.245
O	12.438	47.206	46.179
H	12.824	46.596	46.807
H	11.621	47.49	46.591
O	7.066	51.87	39.096
H	6.446	51.58	39.766
H	7.408	52.7	39.429
O	11.3	56.555	40.838
H	11.196	57.251	41.486
H	11.507	55.776	41.354
O	7.459	49.834	43.002
H	7.258	50.767	43.068
H	7.573	49.679	42.064
O	4.79	49.48	34.667
H	5.68	49.356	34.335
H	4.831	50.3	35.16
O	13.508	45.824	34.146
H	13.65	45.185	33.448
H	13.155	45.31	34.873
O	1.453	46.088	37.002
H	1.544	47.036	36.897
H	0.863	45.825	36.296
O	12.788	44.221	36.404
H	12.192	44.596	37.052
H	13.518	43.879	36.92
O	4.215	53.192	33.174
H	3.376	53.037	33.609
H	4.806	53.454	33.88
O	3.282	48.256	43.312
H	2.379	48.18	43.003
H	3.813	47.943	42.579
O	7.119	56.028	17.815

H	6.583	56.093	18.605
H	6.583	55.524	17.203
O	6.997	61.936	20.017
H	7.35	61.834	19.133
H	6.708	61.057	20.263
O	8.016	45.115	21.159
H	8.329	45.762	20.527
H	7.977	45.59	21.989
O	1.586	60.94	26.098
H	1.075	61.544	26.637
H	2.03	60.373	26.728
O	8.837	52.824	18.308
H	9.019	52.51	19.194
H	7.883	52.801	18.237
O	6.028	52.146	18.305
H	5.075	52.13	18.212
H	6.358	51.875	17.449
O	15.83	47.141	28.695
H	15.072	46.943	29.245
H	15.581	47.934	28.22
O	6.07	53.943	24.08
H	5.354	54.402	24.519
H	5.638	53.257	23.57
O	11.374	62.959	28.576
H	12.11	63.355	29.043
H	10.856	62.536	29.261
O	4.906	60.831	23.944
H	4.008	61.114	23.77
H	5.422	61.231	23.245
O	5.497	60.849	12.344
H	4.543	60.785	12.391
H	5.695	61.723	12.681
O	20.382	60.983	21.16
H	19.713	60.542	20.636
H	20.987	61.349	20.515
O	2.906	55.097	18.52
H	2.789	55.982	18.177
H	2.251	54.572	18.059
O	6.587	51.624	20.998
H	6.254	51.854	20.13
H	7.504	51.897	20.983
O	2.403	55.779	10.859
H	3.308	55.757	10.546
H	2.479	55.77	11.813
O	3.011	45.554	7.668
H	2.869	45.114	8.507
H	2.173	45.972	7.472

O	5.506	50.139	29.107
H	5.97	49.636	28.438
H	6.159	50.286	29.791
O	4.564	47.167	26.111
H	4.753	46.236	25.99
H	4.222	47.454	25.264
O	12.596	52.586	18.659
H	11.725	52.807	18.329
H	13.198	53.057	18.082
O	8.988	49.706	23.959
H	8.715	49.401	23.094
H	8.361	50.395	24.18
O	-0.229	47.695	15.82
H	-0.97	47.163	16.111
H	-0.537	48.598	15.896
O	2.136	57.479	17.111
H	1.667	57.604	16.285
H	1.446	57.317	17.755
O	3.957	50.911	16.336
H	4.452	50.092	16.316
H	3.092	50.66	16.661
O	-1.473	60.821	25.419
H	-1.469	61.692	25.023
H	-1.15	60.96	26.309
O	3.914	53.848	20.417
H	3.507	54.327	19.695
H	4.007	52.954	20.088
O	5.651	52.369	26.89
H	5.048	52.152	26.179
H	5.387	51.796	27.611
O	4.491	52.377	22.648
H	4.987	51.74	22.133
H	4.078	52.942	21.996
O	7.315	53.192	13.311
H	7.416	53.147	14.262
H	6.487	52.745	13.137
O	0.025	52.468	12.7
H	-0.924	52.365	12.77
H	0.379	51.903	13.387
O	0.42	48.311	25.125
H	-0.182	49.046	25.01
H	0.985	48.576	25.851
O	11.259	45.047	27.586
H	10.449	44.706	27.208
H	11.138	45.997	27.594
O	-1.801	52.778	24.621
H	-2.166	52.752	25.506

H	-1.574	53.698	24.483
O	1.74	54.619	31.365
H	2	55.537	31.288
H	2.375	54.144	30.828
O	4.219	52.762	14.405
H	4.106	52.254	13.602
H	4.282	52.104	15.098
O	4.651	55.496	27.589
H	4.571	56.314	28.079
H	3.959	55.544	26.929
O	13.038	55.297	21.577
H	12.491	55.752	20.936
H	13.887	55.206	21.145
O	11.731	56.332	8.46
H	12.543	55.91	8.738
H	11.305	56.593	9.277
O	17.214	57.533	26.848
H	16.448	57.946	27.247
H	17.589	58.214	26.289
O	-2.051	60.781	16.153
H	-2.519	61.257	15.468
H	-1.137	60.789	15.868
O	7.618	46.889	23.13
H	8.414	47.041	23.64
H	7.524	47.675	22.592
O	14.002	45.134	23.319
H	13.601	45.98	23.519
H	14.918	45.236	23.579
O	1.857	59.998	18.642
H	2.435	59.288	18.925
H	1.424	60.287	19.445
O	-6.316	50.637	22.828
H	-6.825	50.345	22.071
H	-5.52	50.106	22.8
O	3.945	47.36	11.797
H	3.622	47.748	10.985
H	4.667	47.929	12.064
O	7.741	51.973	24.625
H	8.476	52.512	24.918
H	7.014	52.59	24.533
O	9.358	62.911	20.472
H	8.531	62.429	20.428
H	9.842	62.491	21.182
O	-0.162	54.12	19.486
H	-0.257	55.072	19.532
H	0.168	53.955	18.603
O	-2.404	56.878	17.204

H	-2.981	56.254	17.646
H	-2.471	57.677	17.726
O	0.727	59.624	13.042
H	1.33	60.349	12.878
H	1.287	58.912	13.352
O	7.158	54.785	27.44
H	6.954	53.865	27.274
H	6.307	55.193	27.602
O	7.716	63.01	33.946
H	7.607	62.336	33.276
H	7.094	62.769	34.632
O	1.613	44.386	22.724
H	2.278	44.079	23.341
H	1.566	45.33	22.872
O	12.872	47.841	23.511
H	13.761	48.046	23.219
H	12.666	48.525	24.148
O	-2.26	53.386	33.183
H	-2.098	53.934	32.415
H	-3.207	53.248	33.184
O	11.433	49.417	25.443
H	11.715	50.284	25.733
H	10.597	49.571	25.002
O	-0.872	48.994	19.6
H	-0.806	48.088	19.901
H	-1.188	49.477	20.363
O	7.355	45.35	25.919
H	7.443	45.855	26.727
H	7.812	45.872	25.259
O	5.876	56.029	20.333
H	5.956	55.307	20.956
H	5.334	56.676	20.784
O	-0.868	49.361	11.989
H	-0.491	49.845	11.254
H	-1.663	49.845	12.212
O	14.455	55.862	18.268
H	13.992	55.103	17.913
H	13.79	56.549	18.313
O	12.142	55.424	15.472
H	11.207	55.239	15.567
H	12.571	54.59	15.661
O	10.706	47.898	10.497
H	10.445	48.787	10.737
H	9.976	47.349	10.782
O	6.974	54.905	11.247
H	7.655	55.574	11.177
H	7.309	54.29	11.899

O	14.705	57.522	22.866
H	13.801	57.83	22.801
H	14.714	56.972	23.649
O	8.033	50.614	27.555
H	7.566	51.029	26.83
H	7.891	49.676	27.426
O	5.088	57.888	22.494
H	4.664	58.616	22.039
H	5.048	58.129	23.42
O	5.175	58.145	29.563
H	5.75	58.758	30.021
H	5.45	57.282	29.872
O	16.049	50.808	18.235
H	16.034	50.657	17.29
H	16.501	51.645	18.338
O	10.093	46.654	24.598
H	10.834	47.073	24.16
H	10.208	46.871	25.523
O	13.761	43.919	27.421
H	14.244	44.567	26.908
H	12.892	44.303	27.534
O	8.778	49.292	17.028
H	8.309	49.118	17.844
H	9.665	49.522	17.305
O	9.17	58.337	20.192
H	9.354	57.644	19.558
H	9.606	59.11	19.835
O	-1.661	40.641	27.121
H	-1.171	39.841	27.314
H	-1.1	41.348	27.44
O	0.264	52.93	22.032
H	-0.097	53.731	22.414
H	0.436	53.157	21.118
O	13.461	50.044	19.185
H	14.399	50.204	19.08
H	13.066	50.916	19.169
O	9.416	39.227	20.385
H	8.642	39.482	20.887
H	9.438	38.272	20.446
O	3.648	51.708	24.985
H	3.945	52.107	24.167
H	2.733	51.479	24.821
O	10.558	48.279	20.236
H	10.683	49.157	20.596
H	11.263	47.759	20.622
O	12.796	41.6	19.722
H	11.958	42.009	19.938

H	13.152	42.14	19.016
O	3.889	51.466	11.532
H	3.91	51.917	10.688
H	2.994	51.132	11.602
O	2.716	51.63	19.517
H	2.564	50.785	19.092
H	1.965	52.165	19.261
O	1.937	49.602	12.925
H	2.203	48.78	13.337
H	1.033	49.45	12.648
O	-3.088	48.457	38.241
H	-3.352	47.721	37.69
H	-3.823	49.069	38.194
O	5.036	52.966	1.749
H	4.655	53.069	0.877
H	5.73	53.625	1.786
O	3.468	62.759	2.767
H	2.59	62.653	3.133
H	3.483	62.175	2.008
O	7.744	55.269	6.611
H	7.204	55.845	7.151
H	7.115	54.743	6.117
O	11.925	49.76	13.098
H	11.099	49.295	13.23
H	12.546	49.078	12.84
O	11.193	48.983	3.428
H	10.587	48.247	3.517
H	10.874	49.633	4.053
O	10.798	55.297	4.015
H	11.444	54.642	3.75
H	10.758	55.222	4.968
O	4.911	39.047	0.308
H	4.632	39.531	-0.469
H	5.609	39.581	0.686
O	9.29	61.01	-0.454
H	9.67	60.134	-0.391
H	9.493	61.42	0.387
O	13.348	62.204	6.001
H	13.718	62.74	5.3
H	13.058	62.835	6.659
O	9.756	61.832	7.487
H	10.415	61.363	8
H	8.939	61.698	7.966
O	13.916	45.347	15.189
H	14.871	45.329	15.254
H	13.732	45.07	14.292
O	-2.618	57.365	13.398

H	-3.472	56.987	13.189
H	-2.681	58.275	13.108
O	5.052	49.662	13.213
H	4.131	49.405	13.244
H	5.094	50.321	12.52
O	3.931	55.865	5.395
H	4.335	56.363	6.106
H	3.643	56.531	4.77
O	0.401	49.812	3.521
H	1.094	50.433	3.297
H	0.651	49.003	3.074
O	6.222	54.544	15.663
H	6.059	55.294	15.091
H	5.506	53.938	15.472
O	1.44	53.281	10.436
H	1.009	53.302	11.291
H	2.184	53.876	10.528
O	3.178	51.253	3.255
H	3.729	50.534	3.564
H	3.797	51.946	3.024
O	8.553	56.571	3.61
H	8.379	56.542	4.551
H	9.352	56.056	3.498
O	9.072	53.134	-0.079
H	8.325	53.2	-0.674
H	9.082	53.969	0.387
O	9.428	43.299	8.239
H	10.367	43.353	8.062
H	9.28	42.382	8.47
O	17.372	55.339	5.707
H	16.45	55.428	5.946
H	17.752	54.811	6.409
O	7.238	57.538	9.448
H	6.558	57.612	10.117
H	7.783	58.315	9.574
O	4.55	51.744	6.724
H	4.993	52.287	6.071
H	4.725	52.181	7.557
O	16.355	53.156	12.576
H	16.699	52.272	12.45
H	16.654	53.407	13.449
O	16.87	58.721	4.736
H	17.347	57.914	4.543
H	15.949	58.46	4.738
O	5.666	64.542	6.896
H	5.971	63.649	7.053
H	6.351	64.939	6.358

O	14.048	53.3	16.678
H	13.726	52.498	16.267
H	14.732	53.614	16.087
O	5.219	60.754	1.459
H	5.541	59.853	1.489
H	6.011	61.29	1.413
O	5.609	53.593	4.853
H	5.932	53.605	3.952
H	5.047	54.365	4.917
O	4.908	60.042	8.979
H	4.108	59.839	8.495
H	4.689	60.823	9.487
O	10.314	60.662	18.895
H	10.046	61.477	18.471
H	10.844	60.213	18.237
O	4.86	55.532	9.787
H	5.516	55.19	10.395
H	5.358	56.079	9.18
O	0.847	60.795	6.507
H	0.674	59.924	6.863
H	0.615	61.395	7.216
O	1.939	57.406	14.29
H	1.088	56.999	14.454
H	2.506	56.678	14.033
O	9.081	61.48	15.331
H	8.539	60.805	14.922
H	9.961	61.321	14.991
O	1.988	51.584	6.786
H	1.754	52.044	7.592
H	2.933	51.449	6.852
O	4.824	52.855	9.152
H	5.019	53.792	9.182
H	5.668	52.429	9.301
O	10.909	61.841	4.273
H	10.325	62.101	4.985
H	11.789	61.983	4.621
O	11.864	43.867	10.734
H	12.427	43.577	11.452
H	11.096	44.239	11.168
O	4.606	51.091	-8.234
H	5.147	51.842	-7.989
H	4.865	50.894	-9.134
O	11.841	60.562	-3.322
H	11.955	60.885	-4.216
H	11.744	59.615	-3.42
O	6.769	42.705	-0.153
H	6.59	41.959	-0.725

H	7.718	42.686	-0.025
O	11.206	45.935	2.985
H	11.755	45.346	3.503
H	11.824	46.424	2.443
O	1.587	54.214	5.975
H	1.975	53.357	5.799
H	2.259	54.841	5.707
O	-1.683	51.071	8.287
H	-0.911	50.773	8.768
H	-1.435	50.995	7.365
O	9.752	50.586	11.42
H	8.926	50.214	11.11
H	9.657	50.62	12.372
O	14.637	55.42	6.334
H	14.033	54.764	5.985
H	14.308	55.605	7.213
O	7.353	51.924	9.145
H	7.378	50.994	9.371
H	8.173	52.079	8.677
O	13.903	50.65	1.677
H	13.36	49.898	1.44
H	13.829	50.708	2.629
O	12.424	58.443	6.731
H	12.233	59.035	7.458
H	12.134	57.584	7.038
O	8.021	56.703	-0.368
H	7.604	57.447	0.065
H	8.915	56.996	-0.542
O	4.874	45.804	23.563
H	5.826	45.819	23.463
H	4.612	46.722	23.496
O	6.667	33.772	52.743
H	7.49	34.113	52.392
H	6.302	34.499	53.247
O	3.416	40.499	65.357
H	3.544	41.435	65.51
H	2.58	40.444	64.893
O	16.313	50.49	58.341
H	16.115	49.624	57.984
H	15.457	50.87	58.538
O	1.388	37.08	61.937
H	0.526	36.709	61.749
H	1.996	36.545	61.426
O	-0.797	45.267	58.546
H	-0.517	46.124	58.868
H	-1.618	45.441	58.086
O	1.484	36.866	55.417

H	1.628	36.1	55.972
H	1.701	37.612	55.976
O	9.814	38.834	55.158
H	9.708	39.688	54.737
H	9.633	38.999	56.083
O	9.797	41.807	53.883
H	9.386	41.997	54.726
H	10.441	42.506	53.768
O	11.726	28.132	60.174
H	11.468	27.219	60.045
H	11.401	28.352	61.047
O	-0.178	43.871	65.449
H	-1.131	43.863	65.532
H	0.136	43.449	66.249
O	11.405	39.901	58.4
H	11.797	40.281	57.614
H	11.798	40.389	59.124
O	11.826	39.103	53.173
H	10.957	38.952	53.546
H	12.018	38.303	52.683
O	0.055	45.075	53.515
H	0.445	45.29	54.362
H	0.08	45.896	53.024
O	14.336	42.047	48.491
H	13.502	41.622	48.295
H	14.876	41.354	48.871
O	-0.011	38.576	51.695
H	-0.695	39.051	52.167
H	0.808	38.894	52.075
O	10.97	41.158	47.447
H	10.248	41.774	47.571
H	10.564	40.294	47.524
O	8.951	44.263	48.546
H	9.384	43.754	49.231
H	8.079	43.874	48.474
O	7.387	37.163	55.646
H	7.983	37.897	55.49
H	7.143	37.245	56.568
O	6.293	48.367	51.877
H	6.51	47.931	52.701
H	5.377	48.139	51.72
O	9.746	25.87	52.246
H	9.1	25.216	52.511
H	10.587	25.498	52.512
O	6.505	44.843	51.33
H	5.782	45.281	50.881
H	6.674	44.061	50.805

O	5.781	45.126	43.54
H	5.543	44.215	43.367
H	5.002	45.504	43.947
O	1.185	44.559	49.899
H	1.574	45.342	49.507
H	0.617	44.205	49.214
O	3.866	26.421	55.738
H	3.706	26.182	54.826
H	3.073	26.885	56.007
O	-3.469	34.501	57.889
H	-3.85	33.854	57.295
H	-2.529	34.322	57.866
O	11.034	40.232	50.489
H	11.598	40.185	51.261
H	11.583	39.916	49.772
O	-4.445	35.431	47.734
H	-5.196	35.723	48.25
H	-4.781	34.701	47.213
O	4.473	36.752	61.013
H	4.633	37.5	60.438
H	4.367	36.01	60.418
O	-0.871	31.618	56.115
H	-0.824	30.722	55.782
H	-1.085	32.148	55.346
O	-3.131	34.065	60.638
H	-3.32	34.265	59.721
H	-2.496	34.73	60.903
O	8.798	29.646	61.104
H	9.54	29.193	61.504
H	8.035	29.325	61.584
O	14.846	40.825	56.827
H	15.13	40.744	57.737
H	15.317	41.591	56.497
O	5.246	38.898	47.779
H	5.151	38.907	46.827
H	4.855	38.068	48.051
O	6.853	42.601	49.056
H	7.28	41.857	48.632
H	6.244	42.205	49.679
O	2.249	35.376	59.66
H	2.735	35.527	58.849
H	1.347	35.232	59.375
O	9.55	35.778	47.419
H	9.37	36.153	48.281
H	8.71	35.815	46.961
O	0.97	48.155	47.448
H	1.14	47.53	46.743

H	0.607	47.623	48.156
O	6.962	43.688	62.211
H	7.472	43.29	61.506
H	6.511	44.423	61.795
O	2.846	43.14	51.595
H	3.229	43.927	51.983
H	2.096	43.461	51.094
O	-1.985	41.875	48.995
H	-2.056	41.915	49.949
H	-2.617	41.205	48.736
O	0.482	44.494	62.797
H	0.287	44.492	63.734
H	1.227	43.9	62.705
O	5.735	39.033	51.654
H	5.557	39.973	51.689
H	6.57	38.963	51.192
O	8.441	39.112	50.239
H	9.308	39.375	50.546
H	8.357	39.522	49.378
O	7.892	29.318	50.293
H	8.578	29.163	50.943
H	7.203	28.694	50.519
O	6.807	41.902	39.354
H	7.605	42.43	39.329
H	6.11	42.51	39.105
O	1.795	35.958	48.981
H	1.758	35.876	48.028
H	1.173	36.656	49.185
O	5.742	31.726	60.632
H	5.873	30.84	60.97
H	5.486	31.598	59.718
O	2.141	50.643	51.778
H	1.925	50.18	50.968
H	3.097	50.699	51.774
O	1.633	34.609	57.009
H	2.267	34.007	56.618
H	1.223	34.102	57.711
O	8.926	44.343	57.598
H	8.661	45.238	57.806
H	9.781	44.243	58.018
O	-5.631	49.976	59.47
H	-5.123	49.218	59.759
H	-5.758	49.835	58.531
O	10.554	46.547	49.535
H	10.662	45.627	49.292
H	10.264	46.975	48.729
O	3.676	41.516	46.325

H	3.008	40.987	46.761
H	4.078	42.023	47.029
O	0.567	45.648	46.205
H	0.304	45.772	45.293
H	0.364	44.731	46.39
O	0.58	41.168	46.281
H	0.774	40.288	46.604
H	1.03	41.217	45.437
O	7.546	40.331	47.676
H	8.056	39.831	47.038
H	6.801	39.767	47.881
O	2.857	35.083	53.548
H	3.717	35.5	53.488
H	2.297	35.746	53.952
O	3.525	30.43	45.132
H	4.097	29.675	45.271
H	2.727	30.059	44.755
O	2.452	44.416	40.606
H	1.512	44.234	40.581
H	2.843	43.61	40.943
O	15.095	49.119	45.775
H	14.296	48.596	45.839
H	14.989	49.619	44.966
O	3.319	40.4	49.135
H	4.206	40.165	48.863
H	3.432	40.811	49.992
O	18.066	40.1	52.415
H	17.35	39.471	52.496
H	18.203	40.188	51.471
O	9.348	45.576	51.983
H	8.561	45.108	51.703
H	9.702	45.951	51.176
O	6.154	30.747	48.539
H	6.699	30.317	49.198
H	5.255	30.569	48.818
O	8.693	36.644	49.647
H	8.452	37.549	49.843
H	8.359	36.141	50.39
O	8.926	39.877	57.779
H	8.642	39.204	58.398
H	9.872	39.94	57.911
O	11.254	28.303	54.905
H	11.947	27.922	54.366
H	10.708	27.558	55.155
O	12.083	32.444	56.747
H	11.562	32.562	55.953
H	12.137	31.495	56.86

O	10.219	29.842	46.666
H	10.21	30.578	47.278
H	9.441	29.333	46.893
O	13.055	31.176	53.527
H	12.863	30.643	54.298
H	13.798	31.719	53.789
O	13.411	46.557	59.142
H	13.348	47.286	58.525
H	13.513	46.975	59.997
O	17.766	48.287	53.845
H	18.605	48.502	54.251
H	17.503	49.091	53.397
O	9.434	43.064	60.444
H	9.76	43.963	60.395
H	10.193	42.547	60.712
O	5.249	33.1	63.201
H	4.431	33.057	62.707
H	5.857	33.557	62.62
O	7.658	31.294	55.075
H	7.692	30.366	54.844
H	6.871	31.621	54.638
O	13.325	28.83	51.818
H	13.146	28.698	52.749
H	13.377	29.78	51.716
O	5.446	36.164	53.655
H	6.043	36.449	54.348
H	5.269	36.957	53.15
O	5.588	30.039	58.236
H	5.752	29.188	57.83
H	4.634	30.108	58.27
O	5.044	31.632	53.478
H	4.823	30.96	52.833
H	5.503	32.305	52.975
O	11.693	46.041	53.793
H	11.376	46.371	52.952
H	12.12	45.212	53.58
O	8.919	32.962	40.302
H	9.087	32.98	39.36
H	9.435	32.223	40.624
O	5.792	40.267	37.545
H	6.562	39.706	37.456
H	6.046	40.92	38.198
O	4.409	34.831	36.507
H	4.094	34.886	35.605
H	3.683	34.437	36.991
O	0.505	52.783	45.403
H	0.447	52.189	44.654

H	0.468	52.208	46.167
O	2.419	38.981	40.994
H	2.871	38.46	41.658
H	3.039	39.032	40.267
O	9.291	33.605	37.72
H	8.935	32.922	37.152
H	8.858	34.408	37.429
O	12.262	37.992	41.8
H	12.873	38.278	41.122
H	12.634	37.173	42.128
O	16.509	31.768	36.487
H	15.9	32.384	36.895
H	17.317	31.859	36.994
O	3.969	41.239	41.556
H	3.878	40.311	41.772
H	4.086	41.253	40.606
O	3.773	35.842	40.816
H	3.041	36.016	40.225
H	4.38	36.566	40.665
O	9.689	37.9	40.363
H	9.774	38.66	39.787
H	10.529	37.848	40.818
O	11.696	33.519	30.991
H	12.633	33.476	31.182
H	11.459	34.431	31.162
O	1.682	32.144	35.39
H	2.545	32.477	35.144
H	1.715	31.212	35.178
O	8.37	41.838	33.049
H	9.228	41.551	33.362
H	7.889	41.026	32.89
O	6.546	37.53	38.199
H	7.149	36.789	38.137
H	6.219	37.499	39.098
O	13.158	44.383	44.809
H	12.75	43.553	45.055
H	12.422	44.958	44.597
O	1.661	36.368	39.117
H	1.502	37.071	38.487
H	2.04	35.66	38.596
O	4.67	37.204	31.335
H	5.565	37.173	30.997
H	4.644	37.995	31.874
O	7.503	41.488	42.162
H	7.156	41.306	41.288
H	8.132	42.196	42.027
O	6.616	38.01	35.247

H	7.527	38.304	35.219
H	6.496	37.686	36.139
O	2.472	37.973	34.636
H	2.266	37.269	34.021
H	2.803	38.683	34.086
O	7.562	47.316	36.939
H	8.318	47.018	37.445
H	6.825	47.243	37.546
O	1.16	43.222	34.274
H	1.558	43.068	33.417
H	1.88	43.539	34.819
O	-5.947	37.318	30.17
H	-6.202	37.953	29.501
H	-6.598	37.426	30.863
O	11.284	30.536	27.96
H	10.878	29.866	28.509
H	11.576	30.063	27.181
O	13.38	46.154	48.421
H	13.429	45.589	49.193
H	14.057	46.815	48.565
O	17.812	42.99	48.512
H	16.892	42.942	48.772
H	17.844	43.703	47.875
O	7.28	45.538	39.811
H	7.43	46.262	40.42
H	6.392	45.682	39.482
O	3.123	47.726	28.361
H	2.654	48.502	28.055
H	3.718	47.507	27.643
O	7.339	51.474	31.478
H	8.274	51.652	31.58
H	7.203	50.64	31.928
O	9.929	45.458	43.809
H	10.545	46.16	43.597
H	9.275	45.874	44.37
O	14.825	24.929	37.073
H	14.811	25.166	38.001
H	14.934	25.762	36.615
O	5.311	28.681	46.152
H	6.112	29.067	46.506
H	5.062	28.015	46.794
O	5.894	33.252	39.107
H	6.74	33.219	39.553
H	5.89	34.101	38.664
O	5.392	35.853	44.144
H	6.02	35.681	43.442
H	4.607	35.368	43.888

O	1.905	29.253	34.53
H	1.101	28.903	34.147
H	2.289	28.512	34.999
O	-1.413	29.781	43.451
H	-0.614	30.306	43.503
H	-1.45	29.319	44.289
O	10.757	35.957	30.771
H	10.774	36.603	30.065
H	10.674	36.478	31.57
O	0.548	33.277	45.731
H	0.976	33.013	46.545
H	0.322	34.197	45.866
O	7.744	32.358	35.998
H	6.952	31.936	35.664
H	7.46	33.237	36.248
O	0.85	32.951	48.451
H	1.782	32.96	48.233
H	0.77	33.555	49.189
O	5.502	32.234	44.296
H	5.418	32.299	43.345
H	4.994	31.456	44.528
O	-1.933	36.152	39.368
H	-1.134	36.568	39.045
H	-1.658	35.27	39.622
O	3.829	34.013	24.959
H	3.492	33.268	25.456
H	3.234	34.732	25.174
O	8.987	43.64	38.664
H	8.625	44.463	38.994
H	9.914	43.676	38.9
O	7.948	31.078	43.314
H	7.962	30.127	43.422
H	7.123	31.352	43.715
O	0.156	43.346	41.234
H	-0.579	43.831	40.859
H	-0.24	42.553	41.597
O	9.689	41.443	37.29
H	10.168	41.747	36.52
H	9.277	42.232	37.643
O	-0.477	33.15	33.689
H	0.174	32.986	34.371
H	0.039	33.318	32.9
O	6.868	34.532	42.221
H	6.255	33.844	41.959
H	7.613	34.06	42.592
O	10.312	35.17	27.53
H	9.483	35.165	27.052

H	10.38	34.29	27.9
O	-0.527	46.073	28.895
H	0.243	45.521	28.76
H	-0.817	46.301	28.012
O	3.461	46.807	40.989
H	3.09	45.966	40.722
H	2.808	47.453	40.721
O	6.73	37.072	40.945
H	6.954	36.431	41.62
H	7.558	37.508	40.745
O	20.14	38.853	47.73
H	19.787	39.438	47.06
H	20.745	38.283	47.257
O	10.487	42.026	28.915
H	9.7	42.204	29.429
H	10.159	41.795	28.046
O	3.053	34.766	43.329
H	3.512	34.728	42.49
H	2.126	34.799	43.094
O	-4.389	41.451	40.821
H	-4.066	40.592	41.092
H	-4.145	41.519	39.898
O	0.82	40.693	36.927
H	1.203	41.311	37.549
H	-0.118	40.882	36.948
O	0.536	47.647	42.736
H	0.054	47.459	41.931
H	0.018	48.322	43.173
O	4.564	38.494	43.089
H	5.39	38.523	42.607
H	4.562	37.634	43.51
O	9.701	45.946	35.193
H	8.747	45.878	35.224
H	9.999	45.053	35.017
O	8.133	45.762	46.264
H	8.485	45.141	46.903
H	7.69	45.214	45.617
O	3.966	39.049	38.816
H	4.638	39.431	38.251
H	3.362	38.617	38.213
O	0.046	43.187	47.877
H	0.446	42.496	47.349
H	-0.682	42.755	48.324
O	7.398	33.456	45.768
H	6.632	33.287	45.22
H	7.254	34.337	46.114
O	11.261	31.144	32.165

H	10.367	30.984	32.466
H	11.205	31.963	31.672
O	2.451	49.028	39.706
H	2.262	49.116	38.772
H	2.152	49.852	40.09
O	-0.028	33.224	40.802
H	-0.843	33.117	40.312
H	0.652	32.905	40.209
O	1.966	34.184	50.957
H	1.965	34.992	50.444
H	2.364	34.431	51.792
O	4.441	40.475	28.664
H	3.685	40.28	29.218
H	5.194	40.171	29.17
O	-3.142	50.3	42.765
H	-4.088	50.441	42.798
H	-3.032	49.543	42.188
O	14.673	34.082	37.854
H	13.861	33.742	38.228
H	14.656	35.018	38.054
O	17.8	40.515	32.654
H	17.959	39.975	33.428
H	18.249	41.339	32.841
O	8.128	49.98	35.777
H	7.831	49.166	36.182
H	7.565	50.655	36.156
O	3.689	41.295	35.348
H	3.88	41.041	36.251
H	2.752	41.489	35.347
O	4.881	45.794	49.237
H	4.169	46.371	49.514
H	4.475	45.198	48.607
O	8.341	48.208	49.695
H	8.977	47.546	49.964
H	7.841	48.397	50.489
O	18.441	41.238	35.789
H	18.905	40.401	35.776
H	18.814	41.73	35.058
O	-3.312	38.598	26.121
H	-4.158	38.193	26.311
H	-3.389	39.488	26.464
O	-3.412	38.437	43.105
H	-2.497	38.345	43.371
H	-3.907	37.999	43.797
O	7.095	43.986	34.497
H	6.566	43.374	35.008
H	7.651	43.427	33.954

O	10.212	42.65	50.357
H	10.737	41.851	50.4
H	10.07	42.893	51.272
O	4.79	41.157	25.625
H	3.969	40.812	25.975
H	5.409	41.084	26.352
O	7.14	45.651	28.558
H	6.98	44.709	28.5
H	6.96	45.868	29.473
O	3.56	44.044	47.514
H	3.038	44.396	46.793
H	3.013	43.354	47.89
O	9.044	34.768	51.852
H	9.534	34.213	51.245
H	9.609	34.838	52.622
O	5.456	33.699	48.155
H	5.793	32.971	48.678
H	4.672	33.347	47.732
O	-2.953	38.997	46.765
H	-2.412	38.265	46.47
H	-3.181	38.778	47.669
O	6.943	39.77	44.521
H	6.005	39.872	44.686
H	7.171	40.518	43.969
O	11.661	36.644	51.363
H	11.602	35.723	51.616
H	10.834	36.822	50.914
O	2.246	35.772	46.201
H	2.604	35.311	45.442
H	2.204	36.688	45.927
O	7.042	36.234	46.301
H	6.503	36.212	45.51
H	6.413	36.19	47.021
O	2.577	26.98	35.455
H	2.952	26.262	34.944
H	2.938	26.863	36.334
O	-5.73	51.126	42.9
H	-5.941	51.873	42.338
H	-5.888	51.443	43.789
O	-0.603	28.888	28.568
H	-0.018	28.462	27.942
H	-1.014	28.165	29.042
O	-3.28	41.269	38.358
H	-3.258	40.647	37.631
H	-2.513	41.825	38.22
O	12.665	46.597	39.463
H	13.307	46.783	38.777

H	12.681	47.374	40.022
O	13.848	43.785	32.356
H	14.402	43.468	31.642
H	12.961	43.528	32.103
O	8.939	38.983	36.097
H	8.999	39.856	36.484
H	9.468	39.037	35.301
O	15.084	38.04	36.373
H	14.999	37.985	37.325
H	15.981	37.755	36.196
O	7.585	43.077	45.103
H	7.1	43.352	44.325
H	7.119	42.301	45.414
O	8.057	38.231	27.05
H	7.969	37.306	26.818
H	7.339	38.393	27.661
O	8.333	33.716	33.218
H	8.406	33.753	32.264
H	8.505	32.8	33.435
O	11.915	30.121	25.041
H	12.192	29.206	25.089
H	11.873	30.31	24.104
O	10.913	40.218	39.355
H	10.349	40.728	38.773
H	10.992	40.756	40.143
O	0.852	31	50.852
H	0.659	30.299	51.474
H	0.643	31.805	51.326
O	17.548	40.528	39.017
H	16.655	40.641	38.691
H	17.832	39.69	38.653
O	12.616	36.362	37.346
H	13.116	37.069	37.756
H	11.724	36.48	37.671
O	8.017	42.261	30.315
H	7.322	42.824	29.973
H	8.169	42.581	31.204
O	14.092	33.577	32.531
H	14.113	34.534	32.523
H	14.101	33.346	33.46
O	7.356	35.238	36.415
H	6.427	35.462	36.478
H	7.64	35.627	35.588
O	15.908	31.018	29.582
H	16.68	30.952	29.021
H	16.157	31.647	30.259
O	8.576	38.059	32.427

H	9.475	38.314	32.22
H	8.666	37.426	33.14
O	13.476	45.748	42.411
H	13.51	45.28	43.245
H	12.77	46.385	42.522
O	-1.256	41.282	42.395
H	-1.312	40.397	42.034
H	-2.001	41.344	42.993
O	1.591	24.887	48.216
H	1.938	24.558	47.387
H	1.784	24.195	48.848
O	4.232	28.882	53.015
H	3.553	29.306	53.538
H	3.859	28.83	52.135
O	7.139	47.188	42.051
H	7.171	47.955	42.623
H	7.035	46.448	42.649
O	15.049	31.207	39.6
H	14.66	30.818	38.817
H	14.484	30.917	40.317
O	8.797	32.23	47.815
H	8.041	31.872	48.282
H	8.438	32.544	46.985
O	15.1	49.93	37.368
H	15.702	50.279	38.027
H	14.655	50.702	37.018
O	10.245	47.848	38.654
H	10.834	47.144	38.925
H	10.539	48.081	37.774
O	-0.005	35.804	42.44
H	0.121	35.214	41.696
H	-0.843	35.536	42.818
O	5.334	30.821	35.44
H	5.583	30.059	34.916
H	5.135	31.499	34.795
O	14.724	31.676	27.289
H	13.817	31.374	27.342
H	15.064	31.571	28.177
O	3.875	33.465	34.099
H	4.54	34.104	33.844
H	3.983	32.746	33.476
O	8.824	30.895	33.038
H	8.673	30.553	33.919
H	8.036	30.656	32.551
O	6.955	28.59	34.127
H	6.741	27.744	34.522
H	7.792	28.833	34.523

O	1.524	41.192	43.498
H	0.702	40.964	43.065
H	2.167	41.221	42.789
O	6.564	39.778	30.219
H	7.038	40.592	30.388
H	6.796	39.209	30.953
O	9.615	26.132	46.526
H	10.545	26.345	46.612
H	9.475	26.045	45.583
O	3.433	45.943	44.678
H	2.689	45.438	44.351
H	3.354	46.793	44.244
O	3.505	38.031	16.879
H	2.601	38.057	17.193
H	3.749	38.951	16.777
O	0.74	33.656	31.348
H	0.735	32.735	31.09
H	1.569	33.995	31.008
O	5.396	40.748	13.847
H	4.691	41.1	13.304
H	6.169	41.252	13.593
O	3.973	48.519	23.782
H	3.569	48.995	23.057
H	4.493	49.178	24.242
O	2.445	38.528	13.111
H	2.902	39.008	13.801
H	2.859	37.665	13.105
O	4.918	31.343	22.94
H	4.145	31.574	22.425
H	5.657	31.534	22.362
O	5.805	30.654	25.39
H	6.65	30.699	24.943
H	5.184	31.033	24.767
O	17.219	35.674	22.629
H	16.517	35.722	23.278
H	17.202	34.767	22.323
O	3.656	43.131	6.426
H	3.555	43.711	7.18
H	4.522	43.34	6.076
O	8.493	37.742	15.171
H	9.142	37.54	14.497
H	7.666	37.815	14.694
O	3.598	40.756	19.415
H	3.185	41.313	20.075
H	3.231	39.886	19.573
O	11.629	33.01	20.17
H	10.717	33.038	19.882

H	12.109	32.672	19.414
O	3.013	30.17	19.963
H	3.421	30.951	19.589
H	3.555	29.445	19.651
O	2.52	49.989	22.157
H	1.835	50.474	22.619
H	2.498	50.336	21.265
O	2.527	38.002	20.247
H	3.028	38.191	21.041
H	1.825	37.421	20.54
O	7.171	38.973	24.271
H	7.289	38.826	25.21
H	6.222	38.961	24.144
O	0.459	36.049	20.239
H	1.387	35.846	20.124
H	0.018	35.556	19.547
O	5.289	33.731	10.119
H	5.212	34.212	10.943
H	4.744	34.222	9.503
O	10.616	44.243	16.092
H	10.09	43.661	16.641
H	11.521	43.989	16.273
O	-0.015	37.178	13.126
H	0.048	36.487	12.466
H	0.365	37.948	12.703
O	9.686	34.466	23.419
H	9.071	35.127	23.737
H	10.001	34.03	24.211
O	5.636	43.621	21.733
H	4.772	43.516	21.335
H	6.045	44.329	21.236
O	11.929	39.203	16.541
H	12.475	39.841	17
H	11.034	39.519	16.667
O	6.321	34.774	15.934
H	5.366	34.777	15.873
H	6.519	35.401	16.63
O	6.577	27.928	8.614
H	6.086	27.732	7.816
H	7.487	27.995	8.325
O	14.623	41.233	22.018
H	14.045	41.622	22.676
H	14.048	41.04	21.278
O	10.591	43.457	34.778
H	11.39	43.656	35.265
H	10.896	43.239	33.897
O	6.601	48.223	27.629

H	6.807	47.523	28.248
H	5.83	47.907	27.158
O	2.96	47.661	14.921
H	2.934	47.658	15.878
H	2.526	46.847	14.667
O	4.572	43.692	18.164
H	5.525	43.728	18.085
H	4.416	43.378	19.055
O	7.489	49.165	21.645
H	7.005	49.977	21.496
H	7.968	49.018	20.829
O	10.763	38.93	30.978
H	10.705	38.769	30.036
H	11.399	39.64	31.061
O	5.942	25.045	26.357
H	6.352	24.242	26.679
H	5.136	25.123	26.866
O	6.153	31.675	27.879
H	6.026	30.933	28.469
H	6.021	31.311	27.004
O	0.35	34.413	23.05
H	0.407	35.124	23.688
H	-0.033	34.819	22.272
O	-3.514	35.526	16.818
H	-3.119	35.047	16.09
H	-4.057	34.876	17.266
O	-7.761	35.978	24.016
H	-8.701	35.8	24.04
H	-7.386	35.225	23.56
O	12.525	34.636	17.546
H	12.741	35.161	18.318
H	11.89	35.168	17.066
O	-2.451	41.048	33.689
H	-2.577	41.445	32.827
H	-1.947	40.253	33.515
O	8.986	31.379	12.841
H	9.171	31.761	11.982
H	8.256	31.897	13.181
O	5.821	31.522	19.172
H	6.196	31.027	19.9
H	6.278	31.194	18.398
O	3.823	33.148	18.211
H	3.692	33.925	18.754
H	4.478	32.634	18.683
O	2.422	32.683	21.925
H	1.933	33.293	22.478
H	1.749	32.157	21.495

O	1.985	34.098	16.295
H	2.588	33.802	16.978
H	1.41	34.723	16.738
O	4.457	28.107	19.137
H	5.151	27.905	19.765
H	4.921	28.314	18.326
O	8.309	34.175	30.62
H	9.176	34.493	30.369
H	7.816	34.151	29.799
O	-6.245	43.266	21.197
H	-5.878	43.952	20.639
H	-5.748	42.481	20.969
O	3.611	30.323	30.615
H	4.495	30.112	30.313
H	3.273	30.933	29.959
O	3.896	30.707	13.452
H	4.29	30.135	14.111
H	3.814	30.156	12.674
O	5.019	39.61	33.3
H	5.347	38.942	33.901
H	4.784	40.346	33.865
O	13.334	41.26	12.139
H	13.441	40.425	12.593
H	13.908	41.864	12.611
O	3.043	43.312	20.621
H	2.419	43.37	21.345
H	2.521	43.498	19.84
O	3.388	45.851	34.161
H	3.045	46.738	34.058
H	4.131	45.81	33.559
O	6.309	31.427	10.916
H	5.817	32.192	10.619
H	6.997	31.787	11.476
O	3.545	36.005	28.604
H	2.666	35.887	28.963
H	4.121	35.98	29.368
O	1.638	49.64	18.024
H	2.008	48.787	17.796
H	0.691	49.51	17.982
O	5.865	36.889	17.893
H	5.914	37.338	18.738
H	5.281	37.434	17.366
O	4.758	47.181	19.846
H	4.364	46.687	20.565
H	4.164	47.044	19.108
O	0.09	41.167	21.69
H	0.684	41.375	22.411

H	-0.27	40.31	21.917
O	3.581	43.267	24.16
H	4.263	43.819	23.778
H	4.06	42.567	24.603
O	0.837	40.386	24.336
H	1.346	40.43	25.145
H	0.829	39.456	24.109
O	10.226	44.493	12.995
H	10.511	44.346	13.897
H	9.758	45.328	13.026
O	9.128	45.154	31.598
H	9.625	45.955	31.761
H	8.212	45.433	31.609
O	4.165	40.514	16.498
H	4.788	40.957	15.921
H	4.405	40.806	17.378
O	6.422	42.834	28.017
H	7.159	42.383	27.606
H	5.896	42.132	28.402
O	6.138	30.175	32.049
H	5.181	30.187	32.04
H	6.363	29.485	32.672
O	6.792	29.002	17.768
H	7.649	28.665	18.029
H	6.989	29.774	17.238
O	0.905	51.153	15.154
H	1.46	50.55	14.661
H	0.309	50.585	15.643
O	8.585	32.934	21.333
H	9.028	33.227	22.129
H	8.183	33.727	20.977
O	-5.564	41.558	26.119
H	-5.832	42.333	26.614
H	-6.007	41.648	25.275
O	5.535	26.305	15.736
H	6.253	25.751	16.042
H	5.039	26.514	16.528
O	1.204	47.252	22.817
H	1.982	47.781	22.638
H	0.883	47.576	23.658
O	14.952	38.028	32.87
H	15.871	37.79	32.996
H	14.958	38.617	32.116
O	9.185	40.487	8.66
H	8.372	39.986	8.73
H	9.858	39.828	8.49
O	8.708	46.867	18.998

H	8.2	47.666	19.136
H	9.596	47.097	19.271
O	7.141	43.421	18.657
H	7.662	43.514	19.454
H	7.751	43.058	18.014
O	7.413	49.154	33.177
H	7.672	49.438	34.054
H	7.322	48.204	33.249
O	8.8	40.769	23.164
H	8.279	41.536	23.403
H	8.328	40.031	23.549
O	8.646	45.943	10.347
H	8.593	45.23	9.711
H	8.264	46.696	9.895
O	4.318	36.876	4.652
H	4.425	36.526	3.767
H	3.477	37.333	4.628
O	-1.539	45.027	31.343
H	-0.822	45.346	31.891
H	-1.493	45.564	30.552
O	6.33	37.94	13.415
H	6.013	38.81	13.655
H	6.817	38.078	12.602
O	8.288	41.782	26.674
H	8.821	41.001	26.519
H	8.498	42.364	25.944
O	-2.491	47.142	8.728
H	-2.843	47.305	9.603
H	-2.843	47.852	8.192
O	3.001	39.253	9.607
H	3.746	39.165	10.202
H	3.29	39.891	8.955
O	6.291	34.107	28.538
H	6.174	33.252	28.125
H	5.516	34.215	29.09
O	2.431	40.614	26.519
H	2.77	40.207	27.316
H	2.277	41.527	26.764
O	3.119	35.426	19.315
H	3.281	35.211	20.234
H	3.521	36.286	19.195
O	0.388	42.695	27.19
H	0.153	43.025	26.322
H	0.671	43.472	27.672
O	1.626	38.116	37.213
H	1.303	39.017	37.202
H	1.951	37.967	36.326

O	3.466	39.011	22.893
H	3.733	38.558	23.693
H	3.263	39.901	23.179
O	3.789	35.444	22.147
H	3.691	34.53	22.414
H	3.907	35.921	22.968
O	0.087	33.453	27.559
H	-0.482	32.693	27.684
H	-0.374	33.996	26.921
O	0.504	30.987	20.915
H	0.218	30.168	21.32
H	1.223	30.729	20.338
O	1.648	43.254	37.929
H	2.585	43.185	38.115
H	1.469	44.194	37.948
O	-2.315	35.153	13.868
H	-1.757	35.783	14.325
H	-1.718	34.452	13.605
O	-2.947	50.252	14.064
H	-3.041	50.98	13.45
H	-3.035	50.654	14.928
O	13.167	47.268	20.118
H	13.627	48.067	19.859
H	12.918	46.857	19.291
O	5.461	48.248	16.376
H	5.212	47.831	15.551
H	5.752	47.525	16.931
O	10.217	37.294	7.518
H	10.798	37.98	7.847
H	10.69	36.915	6.777
O	6.785	34.555	24.544
H	7.231	33.962	25.149
H	5.859	34.328	24.623
O	-3.268	37.046	30.64
H	-3.072	36.142	30.887
H	-4.216	37.058	30.506
O	15.188	40.704	31.588
H	15.417	40.68	30.659
H	16.028	40.639	32.044
O	2.823	42.452	12.744
H	2.818	43.396	12.906
H	2.333	42.347	11.929
O	8.232	32.904	26.064
H	9.15	32.669	25.924
H	7.97	32.398	26.833
O	14.835	35.142	23.987
H	14.224	34.967	24.703

H	14.543	34.571	23.277
O	5.859	32.737	31.224
H	6.712	33.128	31.035
H	6.059	31.835	31.474
O	15.81	39.738	13.958
H	16.132	40.045	13.11
H	16.283	40.268	14.599
O	10.801	32.44	25.546
H	11.397	33.185	25.463
H	11.351	31.674	25.38
O	10.596	37.129	13.009
H	10.752	37.262	12.074
H	11.093	37.826	13.437
O	15.093	28.849	17.483
H	15.827	29.195	17.991
H	15.495	28.503	16.686
O	3.373	26.228	27.454
H	2.419	26.209	27.376
H	3.591	27.159	27.495
O	14.99	22.615	9.925
H	14.972	22.466	8.979
H	14.227	22.141	10.256
O	13.231	36.127	13.428
H	12.98	35.264	13.098
H	12.472	36.681	13.252
O	15.019	45.095	19.729
H	15.673	44.614	20.235
H	14.255	45.139	20.304
O	6.139	38.19	20.408
H	5.678	39.029	20.439
H	6.105	37.864	21.307
O	-3.524	29.837	25.106
H	-4.406	30.138	25.326
H	-3.516	28.914	25.359
O	2.088	31.868	29.066
H	1.357	31.269	29.222
H	1.922	32.225	28.194
O	10.394	51.008	29.032
H	9.62	51.046	28.471
H	10.837	51.844	28.885
O	4.037	25.159	29.879
H	3.73	25.838	30.48
H	3.644	25.389	29.037
O	13.96	33.918	21.324
H	13.976	34.849	21.099
H	13.168	33.584	20.903
O	11.438	50.377	21.79

H	12.26	50.712	21.432
H	11.615	50.256	22.723
O	-0.497	43.843	24.915
H	-0.06	43.885	24.065
H	-1.418	43.687	24.704
O	7.064	36.889	30.052
H	7.514	36.242	29.508
H	7.705	37.123	30.724
O	9.352	28.579	18.734
H	9.02	27.867	19.281
H	10.304	28.522	18.818
O	6.436	17.472	14.096
H	6.381	17.779	13.191
H	5.768	16.789	14.157
O	-1.385	25.234	18.618
H	-1.106	24.481	18.097
H	-0.796	25.233	19.373
O	10.117	28.095	23.019
H	9.528	28.546	23.624
H	10.836	28.712	22.88
O	4.858	26.078	12.345
H	4.357	26.609	12.964
H	5.591	26.638	12.088
O	1.009	51.505	24.835
H	0.627	51.843	25.645
H	0.576	52.002	24.141
O	6.798	46.032	17.092
H	7.634	46.494	17.021
H	6.864	45.541	17.911
O	12.22	27.727	33.83
H	11.613	27.034	33.57
H	12.185	28.358	33.111
O	13.252	37.973	28.297
H	12.459	38.433	28.022
H	13.933	38.297	27.707
O	5.954	40.734	5.223
H	5.075	40.495	5.516
H	6.29	39.942	4.804
O	12.251	42.617	4.608
H	13.131	42.534	4.243
H	12.133	41.824	5.131
O	15.046	41.763	3.877
H	15.372	42.075	4.721
H	15.045	40.809	3.958
O	7.206	48.598	2.596
H	6.52	49.136	2.989
H	7.589	49.155	1.918

O	0.241	46.796	8.736
H	0.347	47.186	7.868
H	-0.672	46.968	8.967
O	3.88	40.973	-1.299
H	3.721	41.905	-1.149
H	3.144	40.688	-1.841
O	13.581	29.141	7.769
H	13.264	28.999	8.661
H	13.047	29.862	7.437
O	6.608	38.167	4.783
H	5.739	37.768	4.744
H	7.033	37.893	3.97
O	13.917	45.544	3.716
H	14.528	44.97	3.253
H	13.739	45.089	4.539
O	11.571	30.91	7.315
H	11.401	30.541	6.448
H	11.15	30.301	7.921
O	3.483	28.784	11.432
H	3.066	27.943	11.243
H	4.41	28.573	11.54
O	7.175	50.615	5.412
H	8.107	50.451	5.269
H	7.087	51.566	5.349
O	3.084	43.863	-1.7
H	3.874	43.827	-2.24
H	2.527	44.509	-2.134
O	17.046	31.942	6.351
H	17.936	31.838	6.015
H	16.654	31.073	6.267
O	7.512	36.435	10.649
H	7.52	37.343	10.951
H	7.43	36.499	9.697
O	6.512	47.355	9.259
H	6.837	46.56	8.837
H	6.066	47.832	8.559
O	17.517	46.469	9.518
H	16.739	46.273	8.997
H	18.114	45.742	9.34
O	12.919	46.004	6.546
H	12.031	46.309	6.357
H	12.799	45.119	6.892
O	5.688	58.222	11.562
H	5.708	57.944	12.477
H	5.48	59.156	11.6
O	11.636	36.669	10.488
H	12.59	36.599	10.518

H	11.38	36.132	9.739
O	3.372	35.76	9.344
H	3.388	36.089	10.243
H	2.856	36.406	8.862
O	13.684	32.563	8.376
H	13.839	33.259	7.738
H	13.144	31.925	7.909
O	7.922	35.134	19.723
H	8.257	35.3	18.842
H	7.098	35.62	19.762
O	-2.077	34.112	-5.106
H	-1.975	33.905	-6.035
H	-1.708	34.991	-5.014
O	1.506	41.043	15.149
H	2.064	40.951	15.921
H	2.072	41.446	14.491
O	1.063	29.408	12.579
H	1.261	28.478	12.682
H	1.622	29.694	11.857
O	7.528	36.662	7.888
H	8.391	36.913	7.559
H	7.18	36.071	7.22
O	9.318	29.09	5.753
H	8.427	29.411	5.891
H	9.765	29.808	5.305
O	3.476	29.185	1.278
H	3.399	28.254	1.071
H	4.388	29.295	1.549
O	4.171	26.519	0.762
H	4.951	26.677	0.23
H	3.6	25.993	0.202
O	0.948	45.545	14.19
H	0.777	45.035	14.982
H	0.556	46.4	14.367
O	12.512	42.38	1.57
H	12.432	42.043	2.463
H	13.297	41.956	1.224
O	5.431	43.319	10.064
H	5.851	43.538	9.232
H	4.509	43.536	9.931
O	5.106	49.408	3.826
H	5.714	49.751	4.481
H	4.682	48.666	4.257
O	5.988	45.453	14.352
H	6.146	45.643	15.277
H	5.035	45.427	14.272
O	10.07	50.461	5.468

H	10.097	49.684	6.025
H	10.034	51.195	6.081
O	0.973	48.178	6.623
H	1.83	48.5	6.341
H	0.35	48.807	6.258
O	2.135	42.363	3.225
H	1.728	41.799	2.568
H	2.775	41.8	3.661
O	8.529	50.407	1.015
H	8.511	51.286	0.637
H	9.199	50.454	1.697
O	-3.453	38.703	9.04
H	-4.196	38.855	9.624
H	-2.802	38.266	9.589
O	6.073	40.993	1.76
H	5.661	41.404	2.52
H	6.112	41.69	1.104
O	-1.851	40.213	4.605
H	-1.878	39.57	3.896
H	-2.63	40.752	4.469
O	13.789	30.139	14.483
H	14.251	30.977	14.49
H	12.876	30.37	14.311
O	9.939	41.263	4.393
H	10.453	41.866	4.93
H	9.12	41.729	4.226
O	9.383	46.206	0.692
H	9.71	46.224	1.591
H	8.432	46.149	0.784
O	7.086	44.949	7.995
H	7.704	44.226	8.107
H	6.756	44.845	7.102
O	-1.244	43.472	13.195
H	-1.642	43.005	12.46
H	-0.933	44.294	12.816
O	-0.95	38.188	10.1
H	-0.47	37.382	10.293
H	-0.499	38.559	9.341
O	6.646	43.383	5.734
H	6.467	42.447	5.636
H	6.869	43.678	4.851
O	0.595	45.488	11.054
H	-0.002	45.955	11.639
H	0.445	45.881	10.194
O	15.068	39.245	5.088
H	15.601	38.951	4.349
H	14.814	38.438	5.536

O	-0.285	26.239	3.715
H	0.67	26.181	3.684
H	-0.536	25.658	4.433
O	6.603	39.057	8.322
H	6.827	38.134	8.201
H	6.171	39.308	7.505
O	10.096	37.783	4.638
H	9.38	37.614	4.025
H	9.907	38.651	4.994
O	10.034	45.584	6.582
H	9.845	44.808	7.109
H	9.339	45.603	5.924
O	-0.049	35.423	10.892
H	0.25	34.559	10.609
H	-0.97	35.454	10.634
O	4.959	35.508	12.792
H	5.476	36.293	12.974
H	4.192	35.589	13.359
O	2.144	54.449	13.681
H	1.361	53.904	13.605
H	2.82	53.854	14.006
O	10.588	48.253	7.339
H	10.293	47.392	7.043
H	10.675	48.163	8.288
O	17.274	39.13	3.43
H	18.032	39.384	3.955
H	17.636	38.575	2.739
O	15.19	34.07	6.025
H	14.842	33.959	5.14
H	15.827	33.362	6.122
O	11.782	39.157	8.74
H	12.487	39.804	8.696
H	11.387	39.291	9.601
O	7.232	31.477	16.744
H	6.443	32.005	16.628
H	7.948	32.056	16.483
O	12.106	35.796	4.072
H	11.366	36.397	4.16
H	12.713	36.248	3.486
O	13.423	30.076	2.629
H	12.822	29.623	2.038
H	13.439	30.978	2.31
O	7.502	36.77	2.035
H	6.591	36.486	1.954
H	7.992	36.164	1.48
O	2.535	26.316	3.88
H	2.423	26.244	4.828

H	3.251	26.942	3.771
O	0.8	50.506	9.653
H	1.332	51.222	10
H	1.434	49.904	9.262
O	15.531	27.904	14.069
H	14.669	28.299	14.198
H	15.855	28.294	13.258
O	11.495	30.195	12.799
H	10.881	30.789	13.232
H	11.4	30.389	11.867
O	9.573	48.475	14.156
H	9.213	48.605	15.033
H	9.091	47.725	13.808
O	7.124	33.1	13.814
H	7.791	33.713	13.505
H	6.482	33.651	14.262
O	7.91	33.299	8.497
H	8.542	33.507	7.808
H	7.285	34.023	8.474
O	9.588	52.22	7.469
H	9.712	53.169	7.436
H	10.213	51.919	8.127
O	5.047	48.672	7.42
H	5.27	49.563	7.149
H	4.959	48.187	6.6
O	6.448	30.835	7.562
H	6.395	30.105	8.179
H	6.679	31.59	8.104
O	6.213	28.73	11.842
H	6.94	28.766	12.464
H	6.16	29.616	11.485
O	7.063	22.308	3.037
H	7.974	22.558	2.88
H	7.11	21.663	3.743
O	6.952	33.996	2.14
H	6.701	33.144	1.782
H	7.745	34.234	1.659
O	1.006	41.225	10.837
H	0.557	40.993	11.649
H	1.534	40.455	10.626
O	1.309	26.68	12.974
H	2.232	26.887	12.829
H	1.111	26.002	12.327
O	6.436	43.152	12.68
H	6.076	43.268	11.8
H	5.99	43.813	13.21
O	1.383	24.768	54.813

H	1.724	25.474	54.264
H	0.476	24.66	54.528
O	-1.615	18.78	56.578
H	-1.995	17.928	56.362
H	-0.985	18.947	55.876
O	12.582	23.277	62.164
H	12.354	23.017	63.057
H	13.267	22.661	61.904
O	0.096	24.062	51.456
H	0.838	23.779	50.921
H	-0.371	24.689	50.904
O	2.873	26.473	53.104
H	3.288	27.333	53.049
H	2.128	26.528	52.507
O	0.739	16.806	50.452
H	1.642	17.024	50.219
H	0.635	17.137	51.344
O	8.022	14.262	49.734
H	8.574	14.871	49.243
H	8.641	13.673	50.165
O	0.189	20.194	54.869
H	0.315	19.818	53.998
H	0.877	20.855	54.946
O	8.691	22.981	52.727
H	8.154	22.226	52.486
H	9.421	22.963	52.107
O	-2.466	16.342	55.887
H	-2.974	15.531	55.869
H	-2.217	16.489	54.975
O	5.601	17.84	57.781
H	6.204	17.241	58.221
H	5.872	17.821	56.864
O	4.39	13.532	55.369
H	4.662	12.619	55.274
H	3.434	13.504	55.321
O	4.739	32.807	57.078
H	5.161	31.958	56.95
H	4.091	32.861	56.375
O	16.453	28.294	54.066
H	17.213	28.407	54.638
H	16.71	27.598	53.461
O	10.353	21.198	49.03
H	10.721	20.882	48.205
H	10.038	20.408	49.47
O	10.432	12.847	49.169
H	10.711	12.821	48.254
H	10.972	12.186	49.603

O	4.076	23.967	53.376
H	4.184	23.552	54.233
H	3.475	24.694	53.536
O	-0.893	15.941	48.362
H	-0.253	16.184	49.031
H	-1.091	15.022	48.544
O	4.383	20.048	46.776
H	4.552	19.388	47.449
H	4.713	19.655	45.967
O	10.938	11.039	44.51
H	10.418	11.288	43.746
H	11.267	11.868	44.856
O	8.562	30.698	57.616
H	8.271	30.805	56.71
H	7.834	31.028	58.142
O	6.068	27.01	50.52
H	5.257	27.202	50.991
H	6.487	26.321	51.036
O	6.458	25.235	61.145
H	6.429	24.281	61.068
H	5.587	25.524	60.873
O	-4.968	12.275	47.519
H	-5.261	13.121	47.856
H	-5.706	11.686	47.676
O	5.592	9.95	50.164
H	5.214	10.726	50.578
H	6.331	10.286	49.656
O	7.742	16.54	47.058
H	6.794	16.661	47.014
H	8.004	16.982	47.865
O	3.4	20.31	49.997
H	3.51	20.343	50.948
H	4.285	20.419	49.65
O	3.269	17.036	59.001
H	4.004	17.164	58.401
H	3.385	17.711	59.669
O	-0.919	21.394	57.434
H	-0.975	20.835	56.66
H	-0.181	21.042	57.932
O	-2.624	14.22	50.842
H	-2.166	13.379	50.825
H	-2.31	14.647	51.639
O	7.436	15.22	54.174
H	7.678	14.324	54.41
H	7.909	15.769	54.799
O	10.024	17.155	59.497
H	10.044	18.02	59.906

H	10.775	16.696	59.872
O	2.555	14.748	52.047
H	2.556	15.556	51.534
H	3.45	14.672	52.377
O	11.211	17.886	43.895
H	10.892	17.241	44.525
H	12.145	17.696	43.81
O	3.467	17.332	50.425
H	4.229	16.938	50
H	3.585	18.274	50.304
O	6.959	23.325	55.834
H	7.848	23.307	55.48
H	6.985	24	56.512
O	8.144	28.088	47.994
H	8.116	28.432	48.887
H	8.687	27.302	48.056
O	12.231	22.3	55.946
H	11.924	21.535	56.433
H	13.184	22.212	55.938
O	3.374	24.64	57.847
H	3.879	25.299	57.371
H	3.661	23.805	57.477
O	0.657	27.294	47.315
H	0.789	26.532	47.878
H	1.194	27.981	47.711
O	8.455	27.877	58.285
H	8.53	27.158	58.911
H	8.467	28.668	58.824
O	3.622	20.896	52.587
H	3.137	20.94	53.412
H	3.74	21.81	52.33
O	11.872	27.827	46.964
H	11.859	27.856	47.92
H	11.456	28.646	46.694
O	5.635	13.732	50.662
H	6.539	13.674	50.355
H	5.286	14.515	50.236
O	3.362	28.01	50.532
H	3.583	27.914	49.606
H	2.503	28.431	50.531
O	6.436	17.753	52.407
H	6.705	17.093	53.046
H	5.505	17.583	52.265
O	6.667	3.937	58.547
H	7.266	3.821	59.284
H	6.704	4.873	58.353
O	1.919	29.94	54.303

H	2.368	30.505	54.932
H	1.265	29.473	54.824
O	6.316	13.223	58.202
H	6.185	12.377	57.774
H	5.842	13.846	57.652
O	5.913	27.617	57.559
H	6.855	27.539	57.71
H	5.73	26.988	56.861
O	-0.74	29.281	54.795
H	-0.913	28.446	55.228
H	-1.203	29.218	53.959
O	4.333	26.752	48.033
H	5.124	26.724	48.572
H	3.796	26.03	48.36
O	1.442	29.955	48.363
H	1.372	30.534	49.122
H	0.562	29.946	47.987
O	-8.384	21.212	52.306
H	-8.146	20.307	52.508
H	-7.743	21.489	51.651
O	-5.82	22.685	51.967
H	-5.43	21.917	52.386
H	-5.485	22.664	51.07
O	-10.517	21.674	42.909
H	-10.716	22.138	42.096
H	-11.145	20.952	42.933
O	10.977	7.474	53.969
H	11.362	7.508	53.093
H	10.034	7.424	53.815
O	0.902	12.689	50.668
H	1.303	12.614	49.802
H	1.56	13.139	51.199
O	3.638	31.681	50.57
H	4.254	32.412	50.524
H	2.775	32.094	50.539
O	20.173	27.971	47.905
H	20.179	28.543	48.673
H	19.912	27.115	48.246
O	14.126	26.765	56.815
H	13.187	26.643	56.674
H	14.183	27.266	57.628
O	2.316	22.961	49.973
H	2.514	22.056	49.732
H	3.17	23.351	50.159
O	9.626	26.209	49.494
H	9.783	26.247	50.437
H	10.38	25.732	49.145

O	4.746	11.779	52.037
H	5.177	11.727	52.89
H	5.118	12.56	51.628
O	9.243	26.768	55.96
H	8.482	26.464	55.466
H	8.876	27.135	56.764
O	3.613	9.978	59.837
H	4.102	9.387	60.41
H	3.792	10.851	60.185
O	9.537	10.305	51.479
H	9.109	11.161	51.48
H	10.406	10.473	51.114
O	11.199	10.314	61.305
H	11.546	10.866	60.604
H	11.233	9.426	60.95
O	14.445	10.016	47.982
H	13.825	9.668	47.342
H	14.027	10.812	48.312
O	16.04	9.207	39.762
H	16.717	8.542	39.64
H	15.78	9.119	40.68
O	6.645	25.074	52.425
H	5.795	24.7	52.655
H	7.196	24.315	52.233
O	9.733	33.366	65.486
H	10.651	33.124	65.607
H	9.656	33.552	64.55
O	6.155	24.504	63.88
H	6.464	23.825	63.28
H	6.365	25.327	63.44
O	5.284	16.112	55.548
H	5.917	15.842	54.883
H	4.826	15.306	55.784
O	13.341	14.914	52.076
H	13.05	15.655	51.545
H	14.207	14.697	51.73
O	8.594	12.574	55.06
H	9.354	12.045	54.819
H	8.51	12.457	56.006
O	3.651	17.533	53.414
H	4.1	17.404	54.249
H	3.328	18.433	53.452
O	8.901	16.575	51.697
H	8.059	16.96	51.939
H	8.679	15.707	51.36
O	8.183	14.995	44.618
H	8.128	15.202	45.551

H	8.061	14.047	44.576
O	11.851	29.007	49.377
H	12.569	28.827	49.984
H	11.41	29.772	49.747
O	8.251	22.575	37.336
H	9.096	22.191	37.568
H	7.977	22.097	36.553
O	4.883	15.565	48.995
H	5.249	15.948	48.197
H	4.138	15.047	48.692
O	10.67	25.545	33.194
H	10.567	24.731	32.701
H	9.998	25.499	33.874
O	12.602	33.114	41.681
H	13.42	32.658	41.876
H	12.475	32.987	40.741
O	1.572	22.49	42.709
H	1.07	21.684	42.585
H	2.354	22.37	42.169
O	4.966	24.988	39.231
H	5.239	24.676	38.368
H	4.723	24.194	39.707
O	5.789	20.559	33.127
H	6.539	20.097	32.751
H	5.03	20.041	32.858
O	18.009	23.765	44.664
H	17.432	24.401	44.241
H	18.246	23.155	43.966
O	14.089	23.76	34.57
H	14.997	23.58	34.328
H	14.141	24.091	35.467
O	2.711	15.478	35.15
H	2.34	14.99	35.885
H	3.522	15.016	34.94
O	15.651	29.597	34.535
H	15.05	30.342	34.517
H	16.382	29.865	33.978
O	8.515	15.152	41.966
H	8.958	15.961	41.711
H	8.418	15.22	42.915
O	2.403	22.033	38.586
H	1.838	22.693	38.988
H	1.822	21.543	38.003
O	11.268	27.034	36.744
H	10.717	26.252	36.743
H	11.763	26.98	35.927
O	8.774	26.242	39.508

H	9.62	26.486	39.133
H	8.788	25.285	39.53
O	3.976	19.466	41.891
H	3.502	19.003	41.2
H	3.855	20.393	41.685
O	10.368	19.388	36.815
H	11.228	18.968	36.844
H	10.428	20.1	37.453
O	15.111	12.019	30.381
H	14.585	11.249	30.165
H	15.607	11.76	31.157
O	7.848	22.68	41.605
H	7.092	22.933	41.075
H	8.071	21.8	41.302
O	6.814	27.141	36.355
H	6.114	26.502	36.484
H	6.583	27.871	36.93
O	3.485	26.929	37.904
H	3.554	26.107	38.39
H	4.261	27.426	38.162
O	10.285	28.822	44.23
H	10.423	29.266	45.066
H	9.369	28.545	44.254
O	3.096	18.593	35.132
H	3.81	18.304	35.7
H	3.485	18.632	34.258
O	-5.652	29.965	37.314
H	-5.436	29.902	36.384
H	-5.007	29.408	37.749
O	5.752	13.381	28.4
H	5.177	12.618	28.462
H	6.448	13.209	29.034
O	8.587	25.631	43.581
H	8.914	25.717	42.685
H	7.889	24.98	43.52
O	7.418	25.195	47.928
H	7.866	25.632	47.203
H	7.701	25.673	48.707
O	5.544	28.346	38.755
H	6.247	28.363	39.406
H	5.222	29.247	38.729
O	6.929	24.783	32.094
H	6.566	24.259	31.38
H	7.507	24.181	32.563
O	3.431	33.747	30.625
H	3.302	33.068	29.963
H	4.316	33.593	30.957

O	10.364	23.484	40.968
H	10.841	23.502	41.798
H	9.448	23.371	41.221
O	12.567	21.134	43.542
H	13.33	21.703	43.437
H	12.851	20.287	43.197
O	3.028	24.868	42.138
H	2.684	24.098	42.591
H	3.717	25.198	42.715
O	5.572	22.085	44.478
H	6.487	21.821	44.582
H	5.115	21.279	44.24
O	10.826	30.872	51.614
H	11.488	31.006	52.293
H	10.408	30.043	51.848
O	5.395	17.676	28.449
H	5.193	18.107	27.618
H	5.343	16.741	28.252
O	5.106	16.942	46.396
H	4.986	16.12	45.92
H	5.164	17.608	45.712
O	7.678	13.583	30.822
H	7.952	14.429	30.468
H	7.991	13.59	31.727
O	0.239	15.922	55.764
H	-0.676	15.895	56.043
H	0.736	15.99	56.579
O	0.906	21.899	35.111
H	0.968	21.017	35.478
H	0.366	22.381	35.738
O	-1.384	18.844	49.327
H	-1.355	17.888	49.348
H	-2.269	19.063	49.619
O	5.286	19.232	44.221
H	4.526	19.286	43.641
H	6.026	19.082	43.632
O	-0.224	10.815	45.846
H	-0.149	10.762	44.894
H	-1.016	11.331	45.996
O	12.942	18.256	36.583
H	13.616	18.933	36.522
H	13.122	17.814	37.412
O	2.012	24.103	33.918
H	2.724	23.758	33.38
H	1.647	23.333	34.354
O	10.155	8.319	44.852
H	9.996	9.262	44.869

H	9.368	7.936	45.24
O	-3.028	20.551	45.421
H	-2.665	20.175	44.619
H	-2.974	19.844	46.064
O	10.547	20.324	34.1
H	9.689	20.638	33.813
H	10.444	20.175	35.04
O	8.847	16.247	30.094
H	8.33	17.045	29.981
H	9.419	16.436	30.837
O	2.143	18.21	40.177
H	1.625	17.458	40.464
H	2.318	18.042	39.251
O	12.911	13.645	28.764
H	13.41	13.172	29.431
H	12.203	13.046	28.526
O	1.388	29.218	26.158
H	2.242	29.156	26.586
H	1.343	30.121	25.843
O	5.226	23.705	49.082
H	5.456	22.867	48.681
H	5.877	24.32	48.742
O	4.508	18.126	32.569
H	3.72	17.66	32.291
H	5.181	17.446	32.625
O	10.483	21.533	38.771
H	9.674	21.176	39.138
H	10.697	22.273	39.339
O	18.141	29.012	37.401
H	18.261	29.936	37.183
H	19.025	28.646	37.392
O	8.999	23.272	32.874
H	8.858	22.464	32.382
H	8.912	23.012	33.791
O	4.178	28.6	42.745
H	3.426	28.167	43.151
H	4.561	27.931	42.177
O	4.258	26.268	44.909
H	4.308	27.06	45.445
H	3.682	25.683	45.4
O	-3.415	25.597	44.884
H	-3.503	25.457	45.826
H	-2.473	25.695	44.743
O	8.12	19.942	40.403
H	7.689	19.505	41.138
H	7.605	19.687	39.637
O	3.12	27.105	31.779

H	2.981	27.911	31.283
H	2.263	26.905	32.157
O	12.359	26.833	43.96
H	12.695	26.98	44.844
H	11.587	27.395	43.9
O	12.414	28.814	38.417
H	12.085	28.217	37.746
H	13.085	29.331	37.971
O	7.751	28.563	40.467
H	7.222	28.48	41.26
H	8.131	27.693	40.342
O	6.467	18.686	38.989
H	6.434	18.712	38.033
H	5.81	18.035	39.234
O	13.446	3.652	30.307
H	14.284	3.567	29.851
H	13.676	4.001	31.168
O	5.941	23.18	30.027
H	6.507	22.968	29.284
H	5.441	23.943	29.738
O	7.696	21.017	34.941
H	6.957	21.136	34.346
H	7.548	20.159	35.339
O	-2.981	18.533	38.85
H	-2.393	19.136	39.305
H	-3.095	17.804	39.46
O	0.5	16.729	33.466
H	0.431	15.86	33.071
H	1.323	16.707	33.953
O	-3.13	26.441	35.677
H	-3.569	26.01	34.944
H	-3.206	25.819	36.401
O	13.062	16.685	49.754
H	13.18	17.407	50.371
H	13.838	16.717	49.196
O	16.335	22.658	32.155
H	15.628	22.666	31.51
H	15.971	22.184	32.903
O	9.264	29.416	35.301
H	10.175	29.461	35.01
H	9.29	29.702	36.214
O	-6.415	28.965	29.854
H	-6.063	28.406	30.547
H	-6.309	28.45	29.054
O	11.733	18.828	47.271
H	11.792	19.71	46.903
H	11.817	18.247	46.515

O	10.144	32.889	50.118
H	10.505	32.189	50.661
H	9.633	32.434	49.449
O	6.2	35.324	33.732
H	7.052	34.889	33.766
H	6.39	36.239	33.937
O	-3.828	28.374	29.257
H	-4.21	29.2	28.963
H	-3.402	28.589	30.087
O	-0.601	23.324	36.993
H	-1.416	23.492	37.466
H	-0.118	24.148	37.047
O	2.852	18.139	29.509
H	3.749	18.251	29.193
H	2.943	17.621	30.309
O	7.436	28.256	43.954
H	7.423	27.303	44.042
H	6.573	28.537	44.257
O	-4.549	23.444	22.965
H	-4.091	24.267	23.132
H	-3.958	22.769	23.3
O	-0.911	21.294	33.198
H	-0.238	21.454	33.86
H	-0.882	20.348	33.052
O	6.322	19.412	50.157
H	7.114	19.272	49.638
H	6.421	18.826	50.907
O	11.989	24.808	49.236
H	12.794	25.262	49.483
H	12.012	24.784	48.279
O	-11.454	16.014	43.553
H	-10.826	16.728	43.663
H	-12.292	16.389	43.824
O	0.185	27.762	42.094
H	0.05	28.353	41.353
H	-0.458	28.041	42.745
O	6.038	24.537	43.2
H	5.635	25.089	43.87
H	5.654	23.671	43.341
O	4.977	13.999	45.144
H	4.845	13.852	46.081
H	5.902	13.799	44.998
O	0.546	20.199	41.128
H	1.272	19.619	40.899
H	0.223	20.523	40.287
O	9.455	18.388	49.621
H	10.234	18.234	49.088

H	9.529	17.761	50.34
O	7.948	11.77	27.288
H	8.073	10.824	27.363
H	7.625	11.898	26.396
O	4.916	32.661	41.593
H	4.958	32.788	40.645
H	4.132	32.129	41.729
O	8.185	19.995	31.979
H	7.988	19.33	31.319
H	8.245	20.813	31.485
O	5.949	29.12	29.217
H	6.252	28.545	28.514
H	6.548	28.945	29.943
O	14.365	27.028	42.251
H	13.732	26.755	42.915
H	14.108	27.923	42.03
O	9.192	22.114	30.318
H	9.675	21.652	29.632
H	9.455	23.029	30.22
O	11.399	13.801	44.598
H	11.898	14.111	43.842
H	10.67	14.415	44.672
O	14.731	26.085	39.684
H	13.886	25.727	39.954
H	15.051	26.553	40.455
O	9.924	22.808	43.991
H	9.673	23.731	44.025
H	10.85	22.821	43.746
O	5.161	24.71	36.171
H	5.575	23.914	35.836
H	4.627	25.027	35.442
O	6.234	7.117	20.623
H	6.939	6.616	20.212
H	5.808	7.572	19.896
O	15.932	18.896	31.028
H	16.873	19.028	31.14
H	15.599	18.775	31.917
O	17.471	23.108	47.218
H	17.418	23.188	46.266
H	16.58	22.886	47.489
O	13.566	16.411	46.592
H	13.774	17.336	46.722
H	13.484	16.315	45.643
O	6.299	22.426	39.532
H	5.832	21.781	39.001
H	6.949	22.8	38.937
O	8.22	20.896	45.165

H	8.959	21.457	44.931
H	7.883	21.272	45.979
O	8.548	15.803	38.259
H	7.969	16.047	38.981
H	9.376	16.241	38.457
O	11.064	16.862	39.093
H	10.97	17.303	39.937
H	11.995	16.645	39.038
O	11.583	13.371	35.796
H	10.669	13.141	35.963
H	11.567	14.314	35.633
O	9.373	15.381	25.387
H	8.843	15.836	26.041
H	9.625	16.064	24.766
O	17.259	16.849	34.223
H	18.104	16.469	33.982
H	16.627	16.406	33.656
O	11.76	34.68	35.206
H	12.109	35.011	36.033
H	12.073	35.301	34.548
O	-4.702	30.657	49.746
H	-3.932	31.134	50.056
H	-4.781	30.903	48.824
O	-0.992	13.108	56.118
H	-0.84	13.54	56.959
H	-0.142	13.137	55.678
O	3.717	14.22	42.363
H	2.937	14.762	42.248
H	3.755	14.05	43.304
O	14.283	31.515	50.292
H	14.171	31.382	49.35
H	15.146	31.922	50.375
O	10.835	15.409	48.691
H	11.613	15.786	49.102
H	10.88	14.477	48.903
O	3.191	11.442	45.273
H	3.492	11.137	44.417
H	3.689	12.244	45.431
O	9.138	29.766	38.094
H	8.417	29.602	38.701
H	9.801	29.116	38.328
O	8.958	25.83	35.596
H	8.255	26.456	35.771
H	8.699	25.041	36.073
O	5.939	12.102	41.256
H	5.315	12.829	41.27
H	6.038	11.889	40.328

O	8.625	11.495	42.471
H	8.809	12.051	41.714
H	7.676	11.55	42.584
O	5.156	15.74	38.162
H	5.509	15.493	39.017
H	4.69	14.959	37.861
O	2.988	13.273	37.244
H	2.296	12.964	36.66
H	2.692	13.024	38.119
O	1.588	24.518	39.68
H	2.181	24.54	40.431
H	0.719	24.654	40.057
O	15.205	15.661	40.949
H	15.517	14.757	40.945
H	15.926	16.162	41.33
O	9.959	30.638	41.243
H	9.321	30.079	40.799
H	9.564	30.822	42.095
O	3.508	30.8	33.129
H	3.222	30.664	32.225
H	2.813	30.412	33.661
O	11.922	12.574	47.069
H	12.471	13.188	47.557
H	12.081	12.79	46.15
O	3.27	32.073	47.337
H	2.865	31.297	47.724
H	3.405	31.84	46.419
O	-0.469	18.354	21.088
H	-1.29	18.671	20.712
H	0.208	18.688	20.5
O	5.93	16.051	24.963
H	6.269	15.191	25.21
H	6.089	16.601	25.731
O	7.735	30.473	21.362
H	8.299	29.754	21.076
H	8.322	31.064	21.835
O	2.26	26.497	17.703
H	1.741	27.16	17.248
H	2.98	26.986	18.099
O	3.294	19.924	20.555
H	4.025	20.508	20.757
H	3.263	19.315	21.292
O	-0.514	13.455	23.69
H	-0.292	14.208	24.237
H	0.108	13.494	22.963
O	7.338	14.893	17.795
H	7.989	14.343	18.23

H	7.778	15.205	17.004
O	11.568	19.174	30.713
H	12.297	19.09	30.098
H	10.954	19.764	30.277
O	12.658	24.923	16.257
H	13.333	25.444	16.692
H	11.838	25.373	16.462
O	12.101	20.686	23.013
H	11.819	20.185	23.779
H	12.903	21.124	23.296
O	12.591	19.997	26.601
H	13.354	19.45	26.787
H	11.996	19.423	26.119
O	-1.75	15.837	12.523
H	-2.386	15.142	12.689
H	-1.028	15.65	13.124
O	-0.196	20.361	16.378
H	0.715	20.649	16.317
H	-0.369	19.933	15.54
O	10.626	24.552	29.372
H	10.796	25.49	29.281
H	10.178	24.31	28.562
O	11.77	26.925	7.03
H	12.493	27.405	7.435
H	12.097	26.69	6.161
O	7.539	18.78	29.72
H	6.66	18.501	29.464
H	8.004	18.896	28.892
O	3.787	27.718	14.293
H	3.17	27.942	14.99
H	4.5	27.262	14.741
O	0.044	9.472	10.459
H	0.915	9.317	10.824
H	0.154	10.235	9.892
O	9.651	14.237	21.773
H	8.718	14.314	21.971
H	10.003	13.699	22.481
O	4.311	15.636	14.034
H	4.608	14.726	14.035
H	3.374	15.583	14.221
O	-2.013	20.162	19.517
H	-2.518	20.75	20.08
H	-1.104	20.436	19.64
O	11.544	25.839	20.365
H	11.341	24.953	20.663
H	12.362	25.747	19.877
O	5.779	19.188	16.581

H	6.193	18.689	15.877
H	5.298	19.882	16.132
O	3.614	21.789	12.04
H	2.779	22.199	12.264
H	4.257	22.493	12.123
O	10.588	9.924	8.364
H	10.592	10.865	8.188
H	9.761	9.614	7.996
O	13.507	24.591	31.374
H	13.063	23.785	31.637
H	12.957	25.292	31.723
O	14.145	22.337	23.924
H	14.818	21.659	23.988
H	14.339	22.936	24.645
O	12.306	27.055	25.68
H	12.641	26.552	24.937
H	13.052	27.126	26.276
O	9.097	23.452	23.009
H	9.739	23.321	22.311
H	9.624	23.582	23.798
O	1.935	31.489	15.432
H	2.642	31.239	14.837
H	2.008	32.441	15.503
O	8.435	29.233	24.895
H	8.239	28.576	25.562
H	8.547	30.047	25.386
O	11.477	17.161	26.853
H	12.365	16.829	26.723
H	11.263	16.926	27.756
O	-0.113	16.137	22.658
H	-0.143	16.929	22.122
H	-1.006	16.036	22.987
O	7.37	23.363	20.456
H	7.574	22.456	20.23
H	8.066	23.622	21.06
O	5.357	16.061	21.117
H	4.925	15.224	20.945
H	4.674	16.608	21.504
O	3.636	15.776	17.407
H	3.559	16.639	17.815
H	4.549	15.726	17.123
O	-4.208	11.535	16.351
H	-4.588	12.199	16.926
H	-3.435	11.223	16.823
O	3.924	26.871	21.782
H	4.482	26.505	21.095
H	3.608	27.698	21.419

O	2.592	20.087	27.694
H	2.866	20.878	28.158
H	2.403	19.456	28.389
O	8.751	18.015	21.708
H	9.344	18.762	21.635
H	8.657	17.694	20.811
O	-0.229	22.277	28.68
H	0.702	22.249	28.898
H	-0.586	21.467	29.045
O	5.952	18.576	19.433
H	5.514	18.456	18.59
H	5.714	17.799	19.939
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O	3.936	14.242	23.031
H	4.497	14.869	23.488
H	4.467	13.449	22.964
O	7.095	14.612	22.691
H	6.512	13.853	22.725
H	6.612	15.262	22.181
O	9.885	13.752	27.538
H	9.767	14.519	26.978
H	9.197	13.146	27.263
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H	-4.704	24.867	27.875
H	-3.506	24.748	26.958
O	7.159	22.846	27.443
H	6.724	22.14	26.966
H	8.092	22.703	27.283
O	0.597	4.48	13.467
H	0.46	4.072	14.322
H	-0.182	4.245	12.963
O	2.71	22.58	29.1
H	3.03	22.393	29.982
H	3.072	23.441	28.891
O	11.231	12.624	10.348
H	10.447	13.071	10.029
H	10.926	12.11	11.095
O	11.791	27.443	14.058
H	11.435	28.315	13.887
H	12.277	27.539	14.877
O	8.956	26.307	24.924
H	9.414	26.885	24.314
H	8.115	26.131	24.501
O	6.548	22.41	14.208
H	7.191	23.002	14.599

H	5.817	22.978	13.965
O	12.652	22.191	32.762
H	11.803	21.847	33.04
H	13.004	22.621	33.542
O	10.661	21.896	18.509
H	10.096	21.146	18.326
H	11.066	22.103	17.666
O	13.871	24.085	19.735
H	14.481	24.103	18.997
H	13.851	23.167	20.006
O	4.145	23.205	17.542
H	4.918	22.674	17.349
H	4.476	24.101	17.593
O	6.961	25.061	17.685
H	6.892	24.142	17.425
H	7.877	25.17	17.94
O	2.897	24.931	23.644
H	2.857	24.375	22.866
H	3.194	25.78	23.317
O	-4.118	27.627	21.085
H	-3.53	28.141	20.532
H	-4.149	26.766	20.668
O	2.93	36.162	14.79
H	2.632	35.357	15.213
H	3.165	36.741	15.516
O	6.607	23.104	23.884
H	7.501	23.274	23.589
H	6.279	23.96	24.161
O	9.664	25.062	17.978
H	10.342	25.694	18.218
H	9.785	24.336	18.591
O	-0.925	29.605	23.373
H	-1.104	29.329	24.271
H	-1.626	30.224	23.167
O	11.399	16.495	22.408
H	10.697	16.863	21.872
H	11.207	15.558	22.444
O	7.852	20.809	19.974
H	8.638	20.616	20.485
H	7.356	19.99	19.98
O	3.622	20.077	9.655
H	3.273	20.833	9.182
H	3.648	20.358	10.57
O	2.371	17.014	20.074
H	2.491	17.685	19.401
H	1.477	16.7	19.942
O	-3.102	17.97	22.884

H	-2.848	17.305	23.524
H	-2.282	18.409	22.657
O	-1.802	10.387	12.553
H	-1.257	9.774	12.058
H	-1.203	10.782	13.187
O	-1.451	29.787	17.854
H	-2.289	29.7	17.4
H	-1.144	30.664	17.626
O	3.063	20.708	23.639
H	2.935	21.418	23.009
H	3.272	19.945	23.101
O	2.805	22.898	21.847
H	3.678	22.614	21.576
H	2.388	23.195	21.038
O	13.395	28.201	23.074
H	13.882	28.629	22.37
H	14.066	27.76	23.596
O	-3.014	32.541	15.388
H	-2.076	32.601	15.571
H	-3.234	31.626	15.563
O	0.689	26.328	33.05
H	0.161	26.625	33.791
H	1.202	25.599	33.399
O	3.888	29.09	27.065
H	4.373	29.162	27.887
H	4.531	29.304	26.389
O	12.049	19.901	8.462
H	12.65	20.578	8.148
H	11.844	19.384	7.683
O	0.044	20.116	8.474
H	0.869	19.704	8.73
H	-0.062	19.888	7.55
O	10.24	12.814	24.075
H	10.97	12.542	24.632
H	9.796	13.496	24.579
O	2.841	26.378	10.191
H	2.017	26.021	9.859
H	3.435	25.628	10.215
O	9.76	23.119	26.966
H	10.405	23.387	26.312
H	10.14	22.339	27.371
O	3.214	18.631	18.165
H	3.745	18.976	18.883
H	3.042	19.39	17.608
O	3.006	17.176	12.097
H	2.075	17.237	12.311
H	3.381	16.656	12.808

O	0.444	25.95	28.523
H	0.31	25.626	29.413
H	-0.411	25.857	28.102
O	3.739	22.894	32.272
H	4.288	23.576	31.885
H	4.321	22.139	32.359
O	5.475	12.121	22.645
H	4.973	11.311	22.555
H	6.381	11.83	22.749
O	-0.401	27.208	25.525
H	0.199	27.937	25.682
H	0.145	26.426	25.603
O	2.811	22.537	25.597
H	3.111	23.327	25.148
H	2.846	21.853	24.929
O	7.23	27.75	27.085
H	7.984	27.427	27.579
H	6.889	26.977	26.635
O	0.697	25.652	37.159
H	1.287	25.529	37.903
H	1.279	25.782	36.411
O	3.807	9.932	22.911
H	4.421	9.221	23.097
H	3.099	9.809	23.543
O	5.834	12.251	16.854
H	5.825	11.793	17.694
H	6.139	13.133	17.065
O	0.543	31.909	24.8
H	-0.114	31.556	24.2
H	0.586	32.841	24.585
O	3.167	17.973	22.577
H	2.773	17.263	22.071
H	2.82	17.858	23.462
O	3.548	30.743	7.562
H	2.939	31.48	7.617
H	4.374	31.089	7.9
O	10.248	26.551	27.317
H	9.562	26.217	26.739
H	11.028	26.592	26.764
O	10.938	25.482	10.451
H	10.452	24.657	10.419
H	10.289	26.132	10.721
O	12.058	28.303	19.519
H	11.909	27.463	19.955
H	13.001	28.449	19.595
O	13.745	17.456	20.827
H	13.076	17.236	21.475

H	14.137	16.615	20.591
O	6.782	20.841	25.312
H	6.627	21.586	24.731
H	6.897	20.097	24.721
O	11.816	17.793	11.359
H	11.079	18.144	10.858
H	11.92	16.898	11.036
O	9.025	16.854	19.004
H	8.315	16.214	18.943
H	9.761	16.438	18.555
O	13.391	19.569	19.23
H	13.448	18.728	19.684
H	13.011	19.356	18.378
O	11.715	23.683	25.15
H	12.547	24.072	25.421
H	11.84	23.474	24.224
O	7.732	18.176	24.152
H	7.122	17.44	24.199
H	8.104	18.123	23.271
O	5.621	25.486	20.153
H	5.983	25.653	19.283
H	6.091	24.712	20.463
O	5.32	22.322	21.67
H	6.092	22.527	21.143
H	5.642	22.305	22.571
O	12.188	18.638	16.715
H	11.316	18.952	16.956
H	12.112	17.684	16.734
O	9.794	10.468	20.236
H	10.355	10.99	19.662
H	9.09	10.159	19.665
O	13.658	12.892	20.644
H	13.429	12.414	21.441
H	14.376	13.467	20.907
O	2.336	9.265	12.552
H	2.854	8.755	13.174
H	2.247	10.125	12.963
O	9.594	16.736	13.997
H	8.962	16.461	13.332
H	10.407	16.876	13.511
O	17.38	30.188	18.043
H	18.272	30.094	17.707
H	17.324	31.103	18.321
O	-1.824	31.081	27.399
H	-2.067	30.56	26.634
H	-1.511	30.438	28.036
O	5.801	7.94	23.263

H	6.176	7.558	22.469
H	6.547	8.33	23.717
O	8.209	11.513	22.52
H	8.718	11.925	23.218
H	8.862	11.248	21.872
O	13.389	36.601	21.847
H	13.477	37.535	22.032
H	13.2	36.204	22.697
O	7.829	9.796	18.602
H	7.495	10.285	17.85
H	7.045	9.541	19.089
O	11.432	11.927	18.648
H	12.173	12.179	19.199
H	11.833	11.54	17.87
O	11.769	31.239	22.444
H	11.551	31.93	21.819
H	12.455	30.731	22.01
O	6.681	27.123	23.008
H	5.769	27.05	22.729
H	6.704	27.913	23.548
O	-2.175	13.937	17.546
H	-2.238	14.699	18.122
H	-2.665	14.187	16.763
O	9.214	13.612	19.182
H	9.396	13.701	20.117
H	10.013	13.233	18.817
O	7.666	11.916	13.472
H	6.942	12.444	13.808
H	7.965	12.387	12.694
O	5.693	11.921	19.766
H	5.869	11.703	20.681
H	4.93	12.497	19.8
O	1.54	14.161	11.674
H	1.186	14.742	12.347
H	1.623	14.716	10.899
O	10.686	12.27	7.219
H	11.354	12.953	7.163
H	10.375	12.165	6.32
O	0.943	35.874	29.086
H	0.396	35.122	29.312
H	0.321	36.579	28.912
O	13.397	30.79	18.424
H	14.179	30.387	18.046
H	12.776	30.836	17.698
O	-2.09	13.705	21.098
H	-1.37	13.167	20.768
H	-1.816	13.957	21.98

O	13.498	23.594	28.622
H	12.553	23.691	28.74
H	13.757	22.952	29.283
O	6.528	8.82	3.063
H	7.205	8.187	2.822
H	6.015	8.377	3.739
O	-4.094	14.454	0.92
H	-4.769	14.833	1.483
H	-4.574	14.126	0.159
O	12.203	33.25	4.809
H	12.218	34.197	4.67
H	13.049	32.947	4.479
O	2.062	28.202	-2.598
H	2.494	28.874	-2.07
H	1.242	28.026	-2.136
O	9.938	19.412	1.551
H	10.114	20.296	1.228
H	9.648	19.541	2.454
O	6.583	14.883	5.755
H	7.207	14.591	5.091
H	5.787	15.086	5.263
O	16.105	16.763	3.636
H	16.821	16.67	4.264
H	15.686	17.591	3.871
O	6.267	6.648	-0.322
H	5.692	6.794	0.429
H	6.555	7.524	-0.579
O	10.653	28.001	3.578
H	10.252	28.245	4.412
H	11.264	27.299	3.802
O	13.335	12.742	6.047
H	13.857	13.049	5.305
H	13.637	11.846	6.198
O	8.519	17.35	-3.66
H	9.073	18.119	-3.798
H	9.028	16.791	-3.073
O	1.221	30.034	3.261
H	2.039	29.965	2.769
H	1.22	29.267	3.834
O	8.369	10.942	1.392
H	9.069	10.522	1.893
H	8.237	10.367	0.638
O	6.278	17.826	3.608
H	6.656	17.542	2.776
H	7.02	17.846	4.214
O	9.629	18.166	9.629
H	9.616	19.117	9.523

H	9.709	17.826	8.738
O	5.063	24.442	10.093
H	5.896	23.983	10.194
H	4.886	24.811	10.959
O	12.797	27.735	16.632
H	13.598	28.062	17.042
H	12.148	28.42	16.794
O	14.144	23.825	13.705
H	13.517	23.919	12.988
H	13.619	23.931	14.498
O	6.347	19.761	0.567
H	5.712	19.174	0.156
H	6.68	19.267	1.316
O	7.259	16.936	1.239
H	7.069	16.028	1.475
H	8.105	16.896	0.793
O	-2.548	14.868	5.767
H	-2.498	14.21	5.073
H	-2.55	14.36	6.578
O	10.591	11.047	13.167
H	10.524	10.598	12.324
H	9.697	11.329	13.36
O	10.395	15.963	16.906
H	10.18	16.562	16.192
H	10.939	15.289	16.497
O	-1.27	9.113	3.549
H	-1.765	8.33	3.308
H	-1.605	9.351	4.414
O	2.369	20.936	16.579
H	2.599	21.81	16.895
H	2.884	20.828	15.779
O	-1.703	4.3	17.364
H	-1.979	4.717	16.548
H	-2.461	3.785	17.638
O	-0.685	22.287	1.837
H	-0.654	23.236	1.719
H	-0.588	22.159	2.781
O	9.637	23.059	-3.854
H	9.336	22.867	-4.742
H	10.592	23.028	-3.912
O	7.117	15.764	8.27
H	7.083	15.561	7.336
H	6.978	16.71	8.315
O	1.521	15.429	6.004
H	1.234	15.105	5.15
H	1.034	14.9	6.636
O	3.553	18.938	1.667

H	3.636	19.823	1.311
H	3.684	19.046	2.609
O	4.072	28.338	4.838
H	3.437	28.826	5.363
H	4.26	27.556	5.357
O	2.032	21.979	-4.378
H	1.79	22.904	-4.341
H	2.959	21.965	-4.14
O	4.287	20.602	14.618
H	3.741	20.459	13.845
H	4.955	21.224	14.329
O	7.813	20.902	-1.679
H	7.262	20.877	-2.461
H	7.511	20.164	-1.149
O	5.9	29.231	3.113
H	5.285	28.714	3.633
H	6.289	29.841	3.74
O	1.312	25.889	0.077
H	1.844	25.382	-0.536
H	0.796	26.473	-0.479
O	7.573	23.175	10.839
H	7.836	24.081	10.673
H	8.05	22.929	11.631
O	3.145	22.676	8.585
H	3.158	23.015	7.69
H	3.698	23.282	9.079
O	6.887	20.784	9.6
H	7.817	20.56	9.561
H	6.858	21.603	10.096
O	6.694	24.942	-1.355
H	7.6	24.661	-1.227
H	6.186	24.39	-0.76
O	6.323	18.353	8.257
H	6.012	19.126	8.728
H	5.871	18.388	7.414
O	4.116	12.802	1.411
H	4.546	13.374	0.775
H	3.413	13.338	1.778
O	9.186	13.103	-0.426
H	8.359	13.358	-0.017
H	8.947	12.401	-1.032
O	9.409	22.566	7.426
H	8.464	22.428	7.36
H	9.677	22.815	6.542
O	-1.101	30.124	9.972
H	-1.388	30.48	9.131
H	-0.159	29.99	9.867

O	3.108	27.909	7.653
H	3.336	27.539	8.506
H	3.304	28.842	7.737
O	9.057	23.509	-1.286
H	9.566	23.586	-2.093
H	8.602	22.671	-1.37
O	9.797	21.03	9.54
H	9.533	21.561	8.789
H	10.71	20.803	9.363
O	6.673	22.258	17.41
H	7.084	21.819	16.666
H	6.78	21.646	18.138
O	8.394	16.093	11.363
H	7.605	16.596	11.163
H	9.018	16.343	10.681
O	4.437	19.034	5.954
H	3.75	18.373	6.044
H	4.103	19.637	5.289
O	-1.67	28.495	4.308
H	-2.555	28.156	4.171
H	-1.096	27.815	3.957
O	4.5	22.689	5.798
H	5.311	22.579	6.294
H	4.65	23.467	5.262
O	2.265	18.1	8.624
H	2.793	18.662	9.192
H	2.768	18.039	7.812
O	8.834	18.89	17.17
H	7.909	19.045	17.361
H	9.099	18.217	17.796
O	-2.468	5.956	7.283
H	-2.212	6.328	8.128
H	-1.641	5.704	6.872
O	3.736	33.575	7.3
H	3.449	34.273	7.888
H	4.449	33.965	6.795
O	5.601	26.349	6.645
H	5.257	26.01	7.471
H	6.042	25.6	6.244
O	10.504	21.795	0.622
H	10.088	22.637	0.436
H	11.442	21.985	0.618
O	0.454	25.808	7.932
H	0.362	25.491	7.033
H	-0.305	26.374	8.066
O	12.999	21.339	11.572
H	13.49	20.648	11.127

H	13.041	21.105	12.499
O	14.359	10.374	11.812
H	14.1	11.124	12.348
H	14.963	9.881	12.367
O	9.938	16.672	7.181
H	10.782	16.242	7.046
H	9.477	16.107	7.8
O	4.003	20.827	4.023
H	4.655	21.054	3.36
H	4.101	21.502	4.695
O	15.176	19.818	2.011
H	14.668	19.297	2.633
H	15.319	20.652	2.458
O	1.502	15.736	9.446
H	1.657	16.649	9.206
H	2.158	15.244	8.953
O	1.784	32.538	4.167
H	1.819	31.598	3.99
H	2.382	32.924	3.528
O	-0.519	18.401	14.158
H	-0.326	19.122	13.558
H	-1.386	18.094	13.893
O	2.411	14.718	2.691
H	3.062	15.193	3.209
H	1.57	15.073	2.98
O	15.913	29.208	6.212
H	16.614	28.98	6.822
H	15.124	29.235	6.754
O	1.995	7.346	3.615
H	2.278	7.462	4.522
H	1.972	8.233	3.256
O	5.342	14.141	10.291
H	4.54	14.325	10.78
H	5.543	14.962	9.842
O	-1.329	31.637	3.458
H	-1.147	30.716	3.645
H	-0.486	32.076	3.574
O	5.736	23.009	0.122
H	6.202	22.184	0.258
H	4.838	22.825	0.398
O	1.297	8.979	-1.246
H	2.056	9.269	-0.739
H	0.989	8.196	-0.79
O	4.556	22.231	-3.63
H	4.662	21.332	-3.319
H	5.377	22.664	-3.398
O	9.369	2.092	-4.177

H	8.754	2.203	-3.452
H	10.049	1.515	-3.829
O	10.184	4.776	-2.467
H	10.047	3.92	-2.871
H	11.036	5.063	-2.797
O	6.095	35.075	6.067
H	5.64	35.91	6.176
H	5.667	34.665	5.315
O	-1.665	5.537	14.66
H	-1.321	5.617	13.77
H	-2.594	5.753	14.578
O	9.744	32.075	10.453
H	9.088	32.305	9.796
H	10.36	31.509	9.988
O	0.57	-2.186	50.478
H	0.652	-1.251	50.293
H	1.331	-2.391	51.021
O	-0.822	9.159	52.891
H	-1.418	8.688	53.473
H	0.02	9.143	53.346
O	15.169	3.732	49.514
H	14.469	3.162	49.832
H	15.66	3.187	48.899
O	4.167	7.821	56.02
H	3.917	7.654	55.112
H	4.502	6.982	56.335
O	2.975	-3.044	52.18
H	3.507	-2.475	52.736
H	3.597	-3.419	51.556
O	3.487	7.879	53.355
H	3.36	8.827	53.31
H	4.187	7.701	52.727
O	6.776	8.281	56.782
H	5.911	8.281	56.372
H	7.117	7.402	56.622
O	12.625	11.923	57.843
H	11.996	11.49	57.266
H	13.481	11.658	57.506
O	10.438	10.605	54.142
H	11.251	11.056	53.918
H	10.116	10.263	53.308
O	1.819	5.189	50.527
H	1.23	4.696	49.956
H	1.332	5.984	50.744
O	7.551	1.836	56.924
H	8.209	1.536	57.552
H	7.156	2.602	57.34

O	7.145	3.155	50.875
H	6.484	3.605	50.349
H	6.738	2.32	51.108
O	-1.026	5.379	55.83
H	-1.468	6.221	55.941
H	-1.101	5.19	54.895
O	-4.001	6.68	52.631
H	-3.161	6.899	53.035
H	-4.196	7.426	52.064
O	8.249	7.971	51.152
H	8.446	8.873	51.408
H	8.718	7.433	51.79
O	6.183	11.313	54.302
H	6.456	10.41	54.464
H	6.887	11.846	54.671
O	3.999	1.83	54.053
H	3.926	2.379	54.834
H	3.284	2.122	53.488
O	10.074	5.571	59.339
H	10.039	5.132	58.489
H	10.398	4.902	59.941
O	10.509	9.513	56.495
H	10.271	9.787	55.608
H	11.252	8.922	56.372
O	-3.02	11.292	49.078
H	-3.848	11.42	48.616
H	-2.505	10.733	48.496
O	3.786	4.222	37.576
H	4.313	4.339	38.366
H	3.075	3.641	37.846
O	9.003	12.875	52.239
H	8.516	12.65	53.032
H	9.69	13.469	52.542
O	9.448	-1.094	47.925
H	9.452	-2.048	48.003
H	9.057	-0.788	48.743
O	0.206	6.774	59.63
H	-0.191	7.349	60.284
H	0.187	5.906	60.032
O	-1.285	6.248	52.777
H	-1.402	6.254	51.827
H	-0.336	6.262	52.902
O	3.976	10.861	56.904
H	3.961	9.915	56.759
H	3.857	10.961	57.849
O	6.552	10.059	46.707
H	5.695	9.856	47.082

H	7.063	10.391	47.445
O	9.324	7.043	48.595
H	10.28	7.043	48.552
H	9.124	7.369	49.472
O	5.319	7.478	51.333
H	6.269	7.414	51.231
H	5.092	8.321	50.942
O	-0.205	7.83	50.469
H	-0.614	8.306	49.746
H	-0.416	8.348	51.246
O	4.908	5.198	50.166
H	4.064	4.951	50.545
H	4.993	6.132	50.36
O	3.995	2.308	57.277
H	4.854	2.401	57.689
H	3.601	1.552	57.713
O	0.739	12.093	43.509
H	1.45	11.889	44.116
H	0.751	11.376	42.875
O	2.898	8.699	39.407
H	2.987	8.917	38.479
H	3.793	8.526	39.699
O	-4.071	15.429	48.885
H	-4.916	15.397	49.333
H	-3.456	15.037	49.504
O	2.65	10.491	53.065
H	3.46	10.927	52.799
H	1.981	10.854	52.485
O	-4.962	9.136	51.206
H	-5.764	9.58	50.932
H	-4.345	9.846	51.386
O	4.183	7.581	41.717
H	4.894	7.766	41.102
H	3.939	6.673	41.534
O	4.401	4.939	56.42
H	4.315	3.998	56.573
H	3.568	5.306	56.717
O	7.593	7.778	45.672
H	7.353	7.187	46.386
H	7.233	8.626	45.932
O	10.176	4.222	48.711
H	10.095	3.824	47.844
H	9.571	4.963	48.692
O	5.941	4.441	61.259
H	5.136	4.062	61.612
H	5.783	4.502	60.317
O	12.493	-7.32	44.153

H	11.745	-6.81	44.464
H	12.472	-8.12	44.678
O	7.373	-1.001	61.176
H	8.025	-0.353	61.444
H	7.516	-1.742	61.764
O	13.664	14.624	54.904
H	13.383	15.064	54.102
H	14.575	14.382	54.739
O	15.692	9.646	52.796
H	15.138	8.867	52.853
H	16.45	9.364	52.284
O	1.242	5.971	53.849
H	1.142	6.287	54.747
H	2.022	6.42	53.522
O	6.568	19.47	54.832
H	7.385	19.048	55.097
H	6.659	19.597	53.887
O	3.334	2.841	45.985
H	3.508	3.762	46.18
H	3.329	2.412	46.84
O	7.54	4.209	40.166
H	7.014	3.562	40.634
H	7.72	3.804	39.317
O	9.244	12.973	40.275
H	10.131	13.168	39.972
H	8.924	13.802	40.629
O	13.051	9.949	32.559
H	12.375	9.828	31.892
H	12.567	10.006	33.382
O	0.007	1.89	40.975
H	0.385	1.072	40.653
H	-0.471	1.638	41.765
O	8.699	3.862	37.568
H	9.544	3.637	37.958
H	8.816	4.755	37.242
O	10.533	16.274	46.028
H	9.754	16.5	46.536
H	11.027	15.685	46.598
O	2.082	16.937	37.507
H	1.71	16.122	37.844
H	2.545	16.678	36.71
O	6.045	2.317	42.324
H	5.492	3.086	42.466
H	5.427	1.592	42.232
O	4.73	8.224	32.637
H	5.443	8.856	32.725
H	5.104	7.396	32.94

O	-0.157	4.497	32.318
H	-0.587	5.093	31.704
H	-0.004	3.7	31.811
O	1.251	-0.317	39.883
H	0.57	-0.578	39.263
H	1.432	-1.109	40.389
O	10.816	3.63	39.321
H	10.805	4.558	39.087
H	11.043	3.62	40.251
O	7.663	18.981	42.955
H	8.043	18.129	43.168
H	7.994	19.567	43.636
O	2.926	2.509	30.611
H	2.105	2.073	30.841
H	2.914	2.553	29.655
O	10.806	5.574	35.85
H	10.994	4.64	35.948
H	11.252	5.824	35.041
O	7.563	5.874	56.085
H	8.356	5.539	56.504
H	6.961	5.129	56.081
O	11.173	2.423	41.91
H	10.596	1.799	41.469
H	11.109	2.193	42.837
O	1.155	8.245	44.463
H	1.817	8.935	44.506
H	1.234	7.785	45.299
O	6.734	12.194	35.996
H	6.274	12.696	35.323
H	6.1	12.11	36.708
O	4.979	20.94	37.624
H	4.868	20.036	37.33
H	4.131	21.352	37.459
O	3.556	11.685	28.609
H	3.343	11.391	27.723
H	3.509	10.891	29.142
O	3.666	6.912	36.707
H	2.72	6.974	36.841
H	3.878	6.001	36.912
O	-1.366	1.093	43.125
H	-2.056	1.384	43.722
H	-0.965	0.347	43.57
O	0.129	4.188	48.641
H	-0.595	3.68	49.008
H	0.006	4.129	47.694
O	0.394	4.193	35.181
H	-0.522	3.933	35.276

H	0.442	4.592	34.313
O	5.803	8.116	39.637
H	5.857	7.345	39.071
H	6.653	8.15	40.076
O	3.865	11.074	42.723
H	4.567	11.312	42.117
H	3.404	10.358	42.287
O	2.185	10.896	32.103
H	1.246	11.058	32.017
H	2.42	10.424	31.304
O	1.436	15.386	43.504
H	1.089	14.885	44.243
H	0.797	15.254	42.804
O	7.454	-3.953	33.709
H	7.607	-4.367	32.86
H	7.815	-3.071	33.614
O	18.193	-0.555	43.873
H	17.486	-1.03	44.309
H	17.772	0.227	43.515
O	5.864	5.541	32.413
H	6.521	4.939	32.762
H	5.032	5.206	32.746
O	6.064	10.055	34.282
H	5.165	10.381	34.31
H	6.494	10.476	35.026
O	5.303	2.688	35.173
H	4.818	3.159	34.496
H	4.815	2.858	35.979
O	8.816	7.358	34.476
H	9.398	6.934	35.106
H	7.941	7.057	34.717
O	3.079	5.082	47.838
H	2.526	4.528	48.39
H	3.76	5.405	48.428
O	2.067	12.44	39.74
H	2.319	12.382	40.662
H	1.254	11.94	39.682
O	3.592	3.986	33.409
H	2.897	4.285	33.995
H	3.143	3.441	32.763
O	7.632	12.408	45.058
H	8.343	12.168	44.464
H	7.461	11.612	45.561
O	8.612	10.799	32.294
H	8.726	11.663	32.689
H	7.722	10.541	32.533
O	2.296	3.523	52.589

H	2.268	4.244	53.218
H	2.051	3.923	51.755
O	5.771	11.626	30.677
H	6.563	12.163	30.692
H	6.091	10.731	30.559
O	-1.642	7.814	38.641
H	-2.262	7.085	38.659
H	-0.866	7.48	39.091
O	8.4	1.026	42.302
H	7.626	1.581	42.204
H	8.853	1.098	41.462
O	5.899	4.908	44.898
H	5.977	5.342	45.747
H	6.781	4.585	44.712
O	1.995	6.764	23.955
H	2.702	7.174	24.453
H	2.087	7.119	23.071
O	3.206	13.698	47.277
H	2.784	13.047	47.837
H	2.48	14.179	46.879
O	6.552	9.416	43.538
H	5.619	9.617	43.474
H	6.582	8.53	43.899
O	8.077	8.685	24.522
H	8.487	8.659	25.387
H	8.712	8.264	23.943
O	6.945	1.877	32.026
H	6.252	1.217	32.026
H	7.348	1.801	31.161
O	-3.481	6.651	44.494
H	-2.66	6.73	44.981
H	-3.27	6.97	43.616
O	7.804	6.231	27.657
H	7.975	6.122	28.593
H	7.777	5.338	27.313
O	5.621	0.299	45.013
H	4.737	0.513	45.313
H	6.198	0.707	45.658
O	-0.75	10.29	31.239
H	-0.907	10.041	32.149
H	-1.296	9.692	30.729
O	0.063	2.376	28.092
H	-0.113	2.057	28.977
H	-0.384	3.221	28.048
O	6.61	5.685	47.337
H	7.496	5.74	47.696
H	6.037	5.812	48.093

O	1.969	9.459	42.058
H	2.355	8.873	41.407
H	1.306	8.926	42.496
O	-1.02	9.097	33.707
H	-0.072	8.964	33.72
H	-1.339	8.619	34.473
O	9.628	2.981	52.457
H	9.436	2.68	53.345
H	8.796	2.899	51.991
O	13.761	-1.177	45.351
H	13.078	-1.839	45.463
H	14.538	-1.676	45.099
O	5.895	15.66	40.88
H	5.085	15.346	41.281
H	6.541	15.627	41.586
O	4.12	15.364	28.381
H	4.653	14.663	28.755
H	3.351	15.41	28.949
O	8.657	10.256	38.824
H	8.341	9.777	39.591
H	8.534	11.178	39.051
O	6.351	13.39	25.427
H	6.31	13.367	26.383
H	6.419	12.471	25.168
O	4.946	1.525	38.155
H	4.187	2.08	37.975
H	4.614	0.849	38.745
O	11.233	2.959	36.554
H	10.694	2.186	36.383
H	11.476	2.882	37.477
O	-0.225	5.928	43.153
H	-1.105	6.098	42.819
H	0.041	6.753	43.558
O	11.68	2.524	32.402
H	10.965	2.142	31.893
H	12.276	2.885	31.745
O	13.497	2.993	34.822
H	12.629	3.216	35.157
H	13.521	3.375	33.945
O	14.943	0.874	39.263
H	15.542	1.31	38.656
H	14.452	1.588	39.67
O	1.509	0.019	43.161
H	1.849	0.551	42.441
H	1.358	-0.842	42.771
O	5.728	11.047	38.562
H	5.061	10.63	38.015

H	6.201	10.316	38.96
O	0.262	10.128	38.553
H	-0.313	9.384	38.375
H	1.002	9.75	39.028
O	8.067	9.092	41.085
H	7.898	9.521	41.923
H	8.388	8.222	41.321
O	16.125	5.291	42.988
H	16.623	6.077	43.211
H	15.232	5.605	42.848
O	9.346	11.67	36.407
H	8.45	12.006	36.379
H	9.397	11.192	37.235
O	3.235	9.439	47.126
H	2.874	8.555	47.066
H	3.032	9.838	46.28
O	11.134	6.602	42.833
H	10.519	6.433	42.119
H	10.669	7.206	43.411
O	7.846	10.953	48.737
H	8.643	10.466	48.947
H	7.997	11.827	49.099
O	14.837	2.44	20.247
H	14.856	2.276	21.19
H	14.575	3.358	20.169
O	0.455	9.503	21.491
H	0.556	8.597	21.2
H	-0.477	9.587	21.691
O	4.383	3.461	15.447
H	4.847	4.098	15.99
H	3.912	3.992	14.804
O	-1.931	8.156	16.151
H	-1.901	7.214	15.985
H	-2.517	8.499	15.477
O	4.512	6.414	17.912
H	4.773	5.763	18.564
H	3.801	5.996	17.427
O	7.493	0.308	13.708
H	6.689	0.582	13.266
H	8.014	-0.106	13.021
O	10.583	7.613	20.372
H	10.314	8.51	20.174
H	11.456	7.534	19.987
O	9.075	7.222	15.807
H	9.977	7.399	15.539
H	9.035	7.515	16.718
O	2.371	5.19	16.772

H	1.593	4.806	16.367
H	2.24	6.135	16.69
O	10.564	4.675	26.234
H	10.718	4.214	27.059
H	9.615	4.638	26.113
O	2.437	11.244	17.396
H	2.063	12.076	17.686
H	2.847	10.88	18.181
O	6.767	-1.574	26.608
H	6.992	-2.46	26.323
H	5.963	-1.366	26.132
O	10.743	4.448	23.217
H	10.935	4.262	24.136
H	10.969	3.64	22.757
O	6.426	10.819	25.063
H	6.973	10.114	24.717
H	5.529	10.542	24.873
O	10.389	-2.428	10.624
H	10.297	-1.533	10.949
H	10.083	-2.978	11.346
O	3.099	5.515	21.452
H	3.875	5.566	20.894
H	2.443	6.045	20.998
O	16.327	5.999	30.831
H	16.215	6.394	29.967
H	15.798	6.544	31.414
O	14.46	1.373	22.786
H	15.076	0.712	23.099
H	14.238	1.883	23.565
O	9.894	1.548	30.202
H	10.181	0.637	30.262
H	9.337	1.574	29.424
O	4.738	12.742	14.317
H	4.695	12.706	15.272
H	3.895	12.394	14.026
O	-3.4	8.095	13.739
H	-4.323	7.968	13.959
H	-3.358	8.985	13.389
O	2.18	11.407	14.069
H	1.463	12.035	13.982
H	2.115	11.092	14.971
O	14.248	5.484	20.179
H	13.866	6.156	19.614
H	15.133	5.8	20.361
O	10.366	5.066	32.844
H	10.77	4.203	32.755
H	9.666	4.938	33.484

O	6.144	0.135	16.642
H	5.641	0.462	15.896
H	6.61	0.903	16.972
O	5.88	5.968	25.265
H	6.193	5.501	24.49
H	5.686	6.851	24.951
O	11.709	1.911	22.222
H	12.465	1.553	22.687
H	11.748	1.508	21.354
O	5.186	3.301	26.051
H	5.376	4.204	25.795
H	4.977	2.858	25.229
O	2.25	2.123	23.359
H	1.785	2.924	23.119
H	2.043	1.993	24.284
O	-0.339	-1.06	24.815
H	0.521	-0.909	25.207
H	-0.834	-0.265	25.009
O	14.19	4.775	9.33
H	13.662	4.356	10.01
H	15.077	4.787	9.69
O	4.396	-1.096	25.044
H	3.922	-1.292	25.852
H	4.31	-0.149	24.938
O	11.603	1.221	13.299
H	12.234	1.246	14.019
H	11.998	0.632	12.656
O	7.462	2.48	17.237
H	7.195	3.368	16.999
H	8.211	2.296	16.669
O	6.461	-0.331	20.104
H	7.333	-0.699	19.962
H	5.894	-0.819	19.507
O	0.89	4.121	22.151
H	1.808	4.392	22.129
H	0.636	4.061	21.23
O	4.779	7.163	27.595
H	5.577	6.645	27.489
H	4.225	6.635	28.17
O	-6.172	6.37	31.07
H	-6.531	7.109	30.579
H	-6.706	5.622	30.801
O	6.149	6.736	12.348
H	5.626	7.391	12.81
H	6.992	7.165	12.198
O	1.557	5.823	26.552
H	1.83	6.067	25.667

H	1.46	6.658	27.011
O	11.499	4.566	19.022
H	12.339	4.741	19.445
H	10.984	4.113	19.689
O	0.931	3.678	19.213
H	1.839	3.848	18.963
H	0.849	2.725	19.187
O	0.829	15.912	13.929
H	0.823	16.834	14.185
H	0.647	15.437	14.74
O	0.294	13.486	7.34
H	0.875	13.003	7.928
H	-0.571	13.411	7.743
O	8.571	6.084	19.331
H	9.072	6.898	19.376
H	9.209	5.399	19.529
O	9.815	6.983	23.102
H	9.992	7.216	22.191
H	10.122	6.079	23.181
O	-3.62	9.995	10.667
H	-2.974	10.216	11.338
H	-4.462	10.222	11.062
O	8.703	15.807	35.483
H	8.738	15.833	36.439
H	9.619	15.842	35.209
O	0.015	10.635	27.033
H	0.045	10.609	26.077
H	-0.488	11.423	27.236
O	2.782	8.321	5.959
H	2.746	7.547	6.521
H	2.151	8.927	6.347
O	4.313	5.714	10.446
H	3.619	6.373	10.472
H	5.121	6.212	10.57
O	1.102	-0.611	29.093
H	0.832	-0.775	29.997
H	0.297	-0.346	28.647
O	6.991	5.951	9.121
H	6.468	5.536	8.435
H	6.801	6.886	9.035
O	2.798	8.954	29.82
H	2.831	8.059	30.157
H	2.054	8.956	29.217
O	-2.876	1.913	9.665
H	-2.179	2.376	9.201
H	-3.532	2.586	9.847
O	2.553	2.255	12.24

H	2.572	2.337	11.286
H	2.606	3.156	12.559
O	3.347	5.945	29.389
H	3.468	6.079	30.329
H	3.214	5.002	29.296
O	5.774	-6.066	30.938
H	5.175	-5.971	31.679
H	6.24	-6.885	31.11
O	8.885	-5.376	22.503
H	8.329	-5.667	23.226
H	8.916	-4.424	22.594
O	3.401	8.347	25.578
H	2.864	9.027	25.986
H	4.102	8.183	26.209
O	7.886	3.571	26.712
H	8.393	2.99	26.145
H	6.973	3.369	26.508
O	2.915	3.55	27.821
H	3.664	3.428	27.237
H	2.273	4.022	27.291
O	-7.292	2.333	18.51
H	-6.761	2.683	19.225
H	-6.721	1.697	18.077
O	6.41	9.105	30.02
H	5.488	8.868	29.919
H	6.832	8.301	30.322
O	8.34	-1.469	16.689
H	7.73	-0.735	16.765
H	7.841	-2.227	16.993
O	8.644	5.069	13.901
H	7.783	4.654	13.841
H	8.569	5.669	14.643
O	6.421	5.457	16.14
H	5.684	5.926	16.531
H	7.151	6.074	16.189
O	7.888	6.644	30.876
H	8.653	6.246	31.291
H	7.147	6.135	31.204
O	16.888	4.681	9.574
H	16.894	3.871	9.065
H	17.221	5.346	8.972
O	18.796	0.669	16.192
H	18.13	0.492	16.857
H	18.297	0.901	15.409
O	11.544	1.009	25.158
H	12.127	1.582	24.66
H	12.006	0.855	25.982

O	9.494	-5.392	25.679
H	8.716	-5.132	26.172
H	9.887	-4.565	25.399
O	2.971	9.746	19.96
H	2.241	9.168	20.183
H	3.311	10.039	20.805
O	1.234	6.964	19.725
H	0.797	6.139	19.513
H	0.804	7.613	19.168
O	13.051	11.556	23.109
H	12.742	12.12	23.817
H	12.691	10.694	23.315
O	3.888	7.871	14.161
H	4.475	8.571	14.447
H	3.41	7.621	14.951
O	3.556	14.082	19.925
H	2.776	13.83	20.418
H	3.234	14.697	19.266
O	0.337	12.027	20.525
H	0.553	11.141	20.817
H	0.904	12.596	21.045
O	10.089	4.845	11.157
H	9.309	4.317	10.987
H	10.072	5	12.101
O	5.274	8.814	18.567
H	4.922	8.01	18.185
H	4.507	9.272	18.911
O	7.746	0.874	9.847
H	6.962	0.712	9.322
H	7.556	1.688	10.315
O	5.41	7.356	4.928
H	6.271	7.182	5.308
H	4.797	7.21	5.649
O	10.263	8.385	0.169
H	10.359	8.642	-0.748
H	10.227	7.429	0.148
O	5.312	11.244	3.801
H	5.864	10.578	3.391
H	4.871	11.673	3.067
O	8.071	6.308	2.771
H	7.532	5.597	2.424
H	8.787	6.394	2.141
O	3.345	9.848	8.818
H	4.13	9.651	8.308
H	2.713	10.165	8.172
O	4.219	6.697	1.897
H	3.73	6.908	2.693

H	4.873	6.058	2.181
O	3.613	-0.706	6.398
H	2.728	-0.574	6.736
H	3.768	0.049	5.83
O	4.874	9.962	6.472
H	5.099	10.556	5.755
H	4.331	9.289	6.063
O	7.834	11.149	9.379
H	7.724	11.745	10.12
H	7.587	11.669	8.614
O	15.536	9.667	18.803
H	15.796	10.159	18.024
H	15.608	8.749	18.542
O	13.55	10.064	6.696
H	13.872	9.332	7.221
H	12.975	10.549	7.288
O	2.303	7.667	10.354
H	2.318	8.032	11.238
H	2.594	8.386	9.793
O	5.484	-2.248	7.245
H	5.971	-1.78	7.923
H	4.756	-1.666	7.027
O	2.853	5.818	7.314
H	2.906	5.839	8.269
H	3.626	5.322	7.042
O	1.107	3.187	4.494
H	0.983	2.38	4.993
H	0.236	3.395	4.155
O	10.856	3.285	1.598
H	10.882	3.006	2.513
H	11.756	3.543	1.4
O	3.338	3.082	9.668
H	2.542	3.614	9.672
H	4.013	3.658	10.026
O	4.077	13.375	5.653
H	4.218	14.282	5.382
H	4.366	12.854	4.904
O	9.631	0.052	11.642
H	8.949	0.415	11.077
H	9.964	0.805	12.13
O	0.89	10.865	0.716
H	0.775	10.665	-0.213
H	1.73	10.468	0.945
O	1.61	10.711	6.728
H	1.502	11.657	6.83
H	1.555	10.564	5.784
O	-1.649	3.783	3.168

H	-2.294	3.857	2.464
H	-1.123	4.579	3.096
O	4.375	16.088	4.628
H	3.614	16.659	4.73
H	5.04	16.644	4.223
O	-2.901	6.981	2.939
H	-2.987	7.613	2.225
H	-3.304	6.181	2.601
O	1.435	5.573	-1.823
H	0.936	6.074	-1.178
H	0.771	5.088	-2.314
O	7.127	14.015	1.716
H	7.425	13.507	2.47
H	6.823	13.359	1.089
O	0.986	4.91	9.848
H	0.581	4.462	10.591
H	1.06	5.822	10.129
O	-1.886	10.001	6.038
H	-1.126	10.302	6.536
H	-2.573	9.887	6.694
O	7.716	6.537	5.501
H	8.438	6.618	6.123
H	8.142	6.387	4.657
O	11.233	4.501	6.879
H	10.73	3.69	6.955
H	10.897	5.058	7.581
O	12.889	3.41	11.05
H	12.828	2.47	10.88
H	12.035	3.643	11.414
O	9.898	-2.015	14.548
H	10.687	-2.39	14.938
H	9.331	-1.82	15.295
O	-0.734	3.008	8.396
H	-0.963	3.379	7.544
H	-0.155	3.658	8.792
O	6.84	8.805	8.042
H	6.211	9.23	7.46
H	7.215	9.522	8.554
O	4.654	1.777	4.738
H	5.11	2.135	3.976
H	3.937	2.39	4.898
O	1.512	10.159	3.512
H	0.692	9.716	3.73
H	1.248	10.887	2.948
O	12.4	6.493	14.532
H	12.572	6.821	13.65
H	12.087	5.598	14.399

O	9.657	-0.026	3.317
H	9.91	-0.609	4.033
H	9.916	0.846	3.614
O	7.479	9.148	12.947
H	7.299	9.059	13.883
H	7.394	10.086	12.775
O	13.375	-1.107	15.154
H	14.172	-0.874	14.678
H	13.048	-1.887	14.707
O	15.218	2.269	2.41
H	15.864	2.9	2.729
H	14.458	2.802	2.175
O	0.501	5.318	2.919
H	0.834	6.116	3.33
H	0.969	4.609	3.36
O	8.229	12.98	4.402
H	7.977	12.061	4.312
H	9.184	12.974	4.346
O	6.79	12.619	7.299
H	6.682	13.37	6.715
H	5.99	12.107	7.182
O	-0.204	14.339	-0.906
H	0.114	15.218	-0.703
H	-0.48	13.983	-0.062
O	-1.867	7.915	9.291
H	-2.313	8.594	8.786
H	-1.19	8.384	9.779
O	3.478	13.028	8.178
H	4.356	12.869	8.525
H	3.611	13.157	7.239

Table S23. Time for TERACHEM SCF and CIS computation in seconds, in parenthesis relative speedups of SCF and CIS computation for TERACHEM compared to GAMESS, SCF ground state energies and difference from GAMESS value, first excited state energies ($\Delta E_{S_0/S_1}$) and difference from GAMESS value. Calculations performed on a dual Intel Xeon X5570 (eight CPU cores) with 72 GB RAM. GPU calculations use eight Tesla C1060 GPU cards. Wave function convergence threshold is 1.0e-5. GAMESS calculations are performed with default values. The GAMESS integral thresholding is given by ITOL=20, in which products of primitives whose exponential factor is less than 10e-20 are skipped. TERACHEM integral thresholding is described in the text.

molecule (atoms; basis functions)	TERACHEM timings (speedup vs GAMESS)		SCF		CIS	
	SCF	CIS	Energy (au)	diff (au)	$\Delta E_{S_0/S_1}$ (eV)	diff (eV)
Mixed precision + threshold 10e-11						
B3PPQ oligoquinoline (112; 700)	15.5 (10.8)	41.9 (8.9)	-2633.01400524	6.7e-6	4.70563979	8.4e-6
PYP chromophore + 101 waters (332; 1501)	65.5 (47.7)	133.2 (22.8)	-8796.99181455	-9.4e-6	3.64096807	-2.7e-5
PYP chromophore + 261 waters (812; 3581)	406.7 (218.4)	493.2 (117.2)	-20957.14907677	-3.0e-5	3.64540788	-3.1e-5
PYP chromophore + 487 waters (1490; 6519)	1640.7 (547.1)	1221.2 (460.7)	-38133.20662487	-6.3e-5	3.65499663	-3.3e-5
Mixed precision + threshold 10e-13						
B3PPQ oligoquinoline (112; 700)	17.6 (9.6)	53.4 (7.0)	-2633.01400201	3.4e-6	4.70563952	8.7e-6
PYP chromophore + 101 waters (332; 1501)	92.3 (33.9)	205.0 (14.8)	-8796.99181852	-5.4e-6	3.64096807	-2.7e-5
PYP chromophore + 261 waters (812; 3581)	561.7 (158.2)	827.3 (69.9)	-20957.14907677	-9.9e-6	3.64540870	-3.1e-5
PYP chromophore + 487 waters (1490; 6519)	2091.3 (429.2)	2026.6 (277.6)	-38133.20666087	-2.7e-5	3.65499745	-3.4e-5
Double precision + threshold 10e-11						
B3PPQ oligoquinoline (112; 700)	33.8 (5.0)	225.3 (1.6)	-2633.01400146	2.9e-6	4.70564134	6.8e-6
PYP chromophore + 101 waters (332; 1501)	127.5 (24.5)	653.2 (4.6)	-8796.99182000	-3.9e-6	3.64097242	-3.1e-5
PYP chromophore + 261 waters (812; 3581)	653.0 (136.1)	2355.5 (24.5)	-20957.14907677	-2.2e-5	3.64541278	-3.5e-5
PYP chromophore + 487 waters (1490; 6519)	2221.0 (404.2)	5300.2 (106.1)	-38133.20665001	-3.8e-5	3.65500207	-3.8e-5
Double precision + threshold 10e-13						
B3PPQ oligoquinoline (112; 700)	48.0 (3.5)	290.0 (1.3)	-2633.01399860	3.2e-8	4.70564134	6.8e-6
PYP chromophore + 101 waters (332; 1501)	211.9 (14.8)	1021.9 (3.0)	-8796.99182363	-3.2e-7	3.64097270	-3.2e-5
PYP chromophore + 261 waters (812; 3581)	1039.0 (85.5)	3941.2 (14.7)	-20957.14907677	-1.1e-6	3.64541332	-3.6e-5
PYP chromophore + 487 waters (1490; 6519)	3316.8 (270.6)	9123.9 (61.7)	-38133.20668564	-2.5e-6	3.65500289	-3.9e-5
Double precision + threshold 10e-15						
B3PPQ oligoquinoline (112; 700)	65.0 (2.6)	360.4 (1.0)	-2633.01399859	3.0e-8	4.70564134	6.8e-6
PYP chromophore + 101 waters (332; 1501)	334.9 (9.3)	1506.8 (2.0)	-8796.99182373	-2.1e-7	3.64097270	-3.2e-5
PYP chromophore + 261 waters (812; 3581)	1662.9 (53.4)	6199.6 (9.3)	-20957.14907677	-7.6e-7	3.64541332	-3.6e-5
PYP chromophore + 487 waters (1490; 6519)	5060.7 (177.4)	14802.9 (38.0)	-38133.20668654	-1.6e-6	3.65500289	-3.9e-5