

Supplementary Information

Peroxocobalt(III) species activates nitriles *via* a superoxocobalt(II) diradical state

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1. Energy profiles of supplementary reaction pathways

1.1. Intermolecular mechanisms

* **CS**; Closed-shell Singlet, **OS**; Open-shell Singlet, **T**; Triplet, **Q**; Quintet

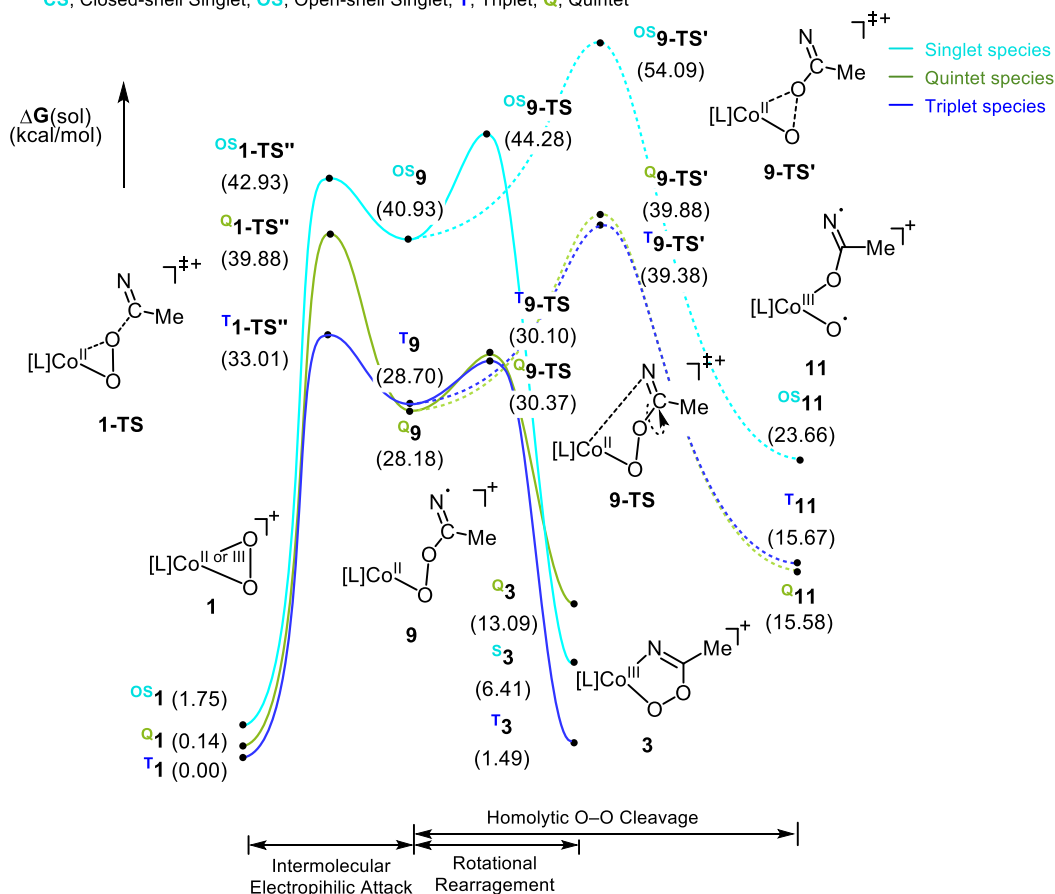


Figure S1. Energy profile of reaction path following the intermolecular electrophilic attack of η^2 -superoxo species.

The intermolecular electrophilic attack of η^2 -superoxo species begins with the kinetic barrier over 30 kcal/mol. In that case, the imido radical in the peroxyimide is generated showing thermodynamically quite unstable state with 28.2, 28.7 and 40.9 kcal/mol depending on spin state (**7**). When the imido radical is bound to cobalt center following fast rotational rearrangement with the step barriers about 5 kcal/mol, this intermediate is fairly stabilized with forming peroxyimide ligand (**3**). On the other hand, if the O-O bond of peroxyimide moiety is cleaved in homolytic manner, the 1-imino ethyloxide oxyl diradical intermediate is formed. This diradical intermediate show a thermodynamic stability with 15.6, 15.7 and 23.7 kcal/mol free energy. But given that the homolytic O-O bond cleavage should go over extremely high step barrier with 39.4, 39.9 and 54.1 kcal/mol, it is hard to think as a considerable mechanism of whole reaction.

* OS: Open-shell Singlet, T; Triplet, Q; Quintet

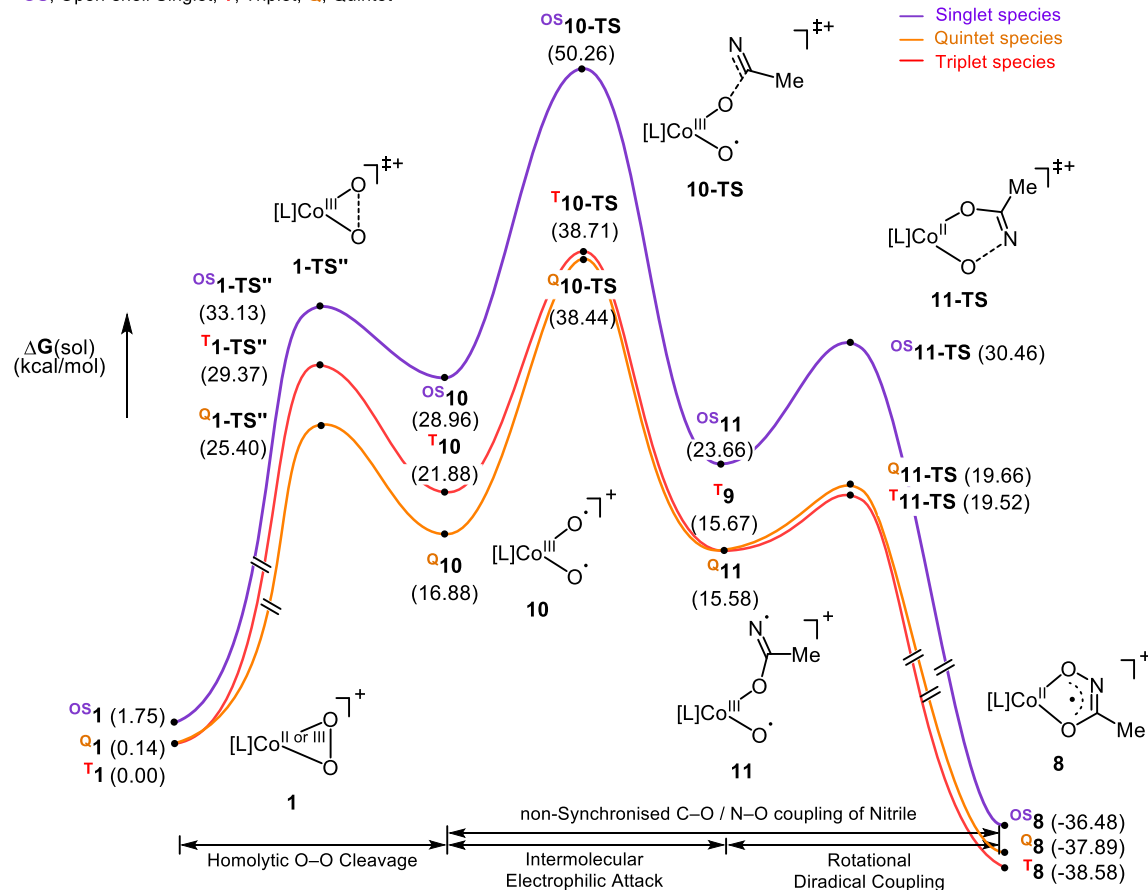


Figure S2. Energy profile of reaction path following the intermolecular electrophilic attack of dioxyl species.

One of the reaction paths passing through dioxyl intermediates is fully calculated with investigating whole spin configuration. It starts with a homolytic cleavage of the peroxy moiety of each spin state. The step barrier of this process seems to have a fairly high correlation with stability of cobalt(III) dioxyl complex. As the number of parallel spins on oxyl radical ligand increase, the stability of dioxyl complex also seem to be increased. The barriers of this homolytic cleavage (**1-TS''**) on each spin states are 25.3, 29.4 and 33.1 kcal/mol respectively. The kinetics of next step, which is electrophilic attack of oxyl radical toward carbon atom on nitrile, are showing a high correlation with a stability of generated cobalt(III) 1-imino ethyloxide oxyl diradical intermediate. The barriers of outer-sphere C–O coupling step (**8-TS**) are 38.4, 47.9 and 50.3 kcal/mol respectively. Finally, the 1-imino ethoxide ligand would be rotated and form a hydroximato ligand going over small step barriers about 4~7 kcal/mol. Logically, all reaction path in this mechanism are explained under the same concept of stabilization effect of ferromagnetic coupling between radical ligands and cobalt center.

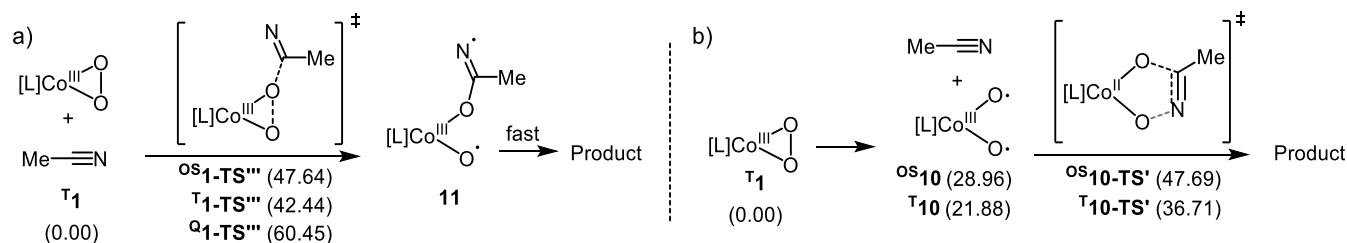


Figure S3. Computationally observed probable concerted coupling reaction paths. a) Concerted step with electrophilic attack of η^2 -superoxo and O–O cleavage. b) Concerted non-synchronized nitrile insertion to dioxygen species.

The O–O cleavage/C–O coupling TS in the electrophilic attack process and the C–O coupling/N–O coupling TS of nitrile insertion into dioxygen intermediate are only modeled in a concerted manner. Comparing with the stepwise intermolecular electrophilic attack path (Figure S1), the concerted C–O coupling accompanying O–O cleavage has a smaller barrier than stepwise process in the singlet surface with 47.6 kcal/mol barrier. But, in the case of triplet and quintet state, the concerted manner shows much higher transition state than divided process of sequential C–O coupling and O–O cleavage steps with 42.4 and 60.5 kcal/mol barriers, respectively. In the intermolecular nitrile insertion mechanism, the transition state shows a concerted non-synchronized manner for the singlet and triplet state. But, the quintet state cannot have this kind of transition state. In both singlet and triplet case, those two show a little bit lowered barrier about 2 kcal/mol than stepwise process with 47.4 and 36.4 kcal/mol barriers, respectively.

1.2. Rearrangement of hydroximate moiety

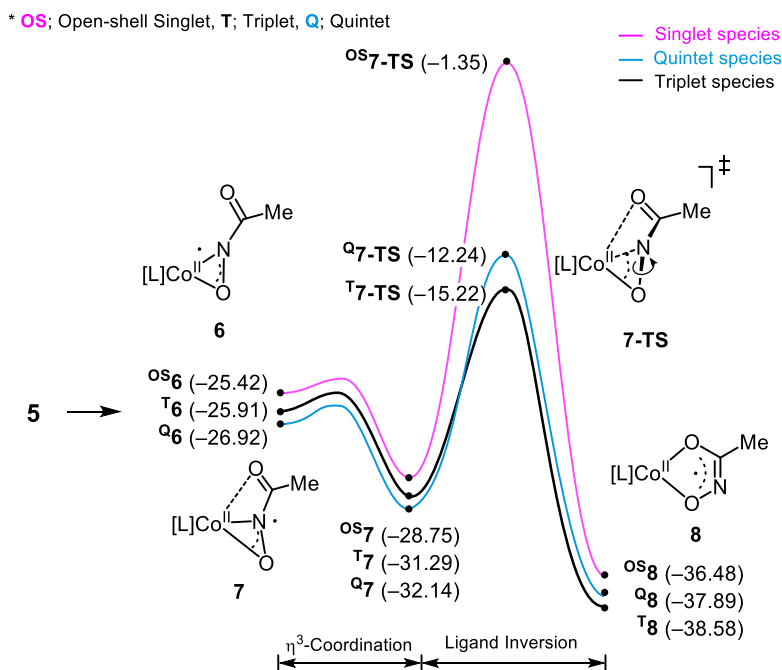


Figure S4. Energy profile of the rearrangement steps of hydroximate moiety.

The hydroximate ligand has a radical character and the most spin density is on nitrogen atom. There would be an interaction between cobalt(II) center and nitrogen atom. However, this radical character on nitrogen would be much stabilized with the resonance structure with delocalizing the radical character to the carbonyl group when it is bound to cobalt center, with losing strict double bond character. The rearrangement of generated hydroximate moiety could follow uncommon reaction step. This rearrangement would happen with inverting nitrogen coordination. The η^2 -hydroximate could make a η^3 bonding with lengthening the bond between cobalt(II) and nitroxide moiety with making an additional bond between cobalt(II) and carbonyl (**7**). This bonding show a thermodynamically exergonic process about 5 kcal/mol. The origin of this stabilization would be expected derived from resonance structure of radical character. However, the following inversion of nitrogen bonding transform the conformation of bondings between cobalt(II) and hydroximate moiety with step barriers about 15 kcal/mol in the case of triplet and quintet, but about 30 kcal/mol for singlet surface (**7-TS**). The reason of this difference is assumed derived from the interaction between three single electron on cobalt and one radical electron on hydroximate moiety in a similar manner of nitrile addition step passing by **1-TS** (Figure 2).

2. Information of DFT-Optimized Structures

2.1. Computed energy components for DFT-optimized structures.

	E(SCF)/(eV)	ZPE/(kcal/mol)	S(gas)/(cal/mol·K)	G(solv)/(kcal/mol)
	cc-pVTZ(-f)/LACV3P**	6-31G**/LACVP**	6-31G**/LACVP**	6-31G**/LACVP**
MeCN	-3613.765	28.48	57.93	-3.79
CS₁	-37345.340	329.02	166.75	-26.25
OS₁	-37345.520	327.76	173.12	-23.33
T₁	-37345.543	327.73	175.34	-23.44
Q₁	-37345.406	327.15	178.95	-24.41
OS₁-TS	-40959.523	356.93	197.27	-23.80
T₁-TS	-40959.527	357.04	198.94	-24.30
Q₁-TS	-40959.773	356.23	203.14	-23.60
Q₁-m	-40959.805	356.46	205.53	-23.75
Q₁-m-TS	-40959.625	355.97	198.32	-24.19
OS₁-TS'	-40958.211	356.78	190.10	-23.68
T₁-TS'	-40958.480	356.00	197.83	-24.20
Q₁-TS'	-40958.234	356.69	194.80	-24.64
OS₁-TS''	-37344.109	327.89	165.42	-26.64
T₁-TS''	-37344.199	327.01	171.89	-25.42
Q₁-TS''	-37344.363	327.10	172.00	-25.66
OS₁-TS'''	-40957.984	357.75	187.34	-26.04
T₁-TS'''	-40958.148	356.86	192.82	-24.85
Q₁-TS'''	-40957.680	365.64	197.26	-25.02
CS₂	-40958.465	358.20	191.25	-25.77
OS₂	-40959.859	357.43	198.11	-24.97
T₂	-40959.859	357.63	199.52	-25.29
Q₂	-40959.738	357.47	200.03	-24.85
OS₂-TS	-40958.832	357.58	187.17	-24.00
T₂-TS	-40959.504	357.92	188.93	-23.83
Q₂-TS	-40959.328	357.84	192.96	-23.75
CS₃	-40960.031	360.92	179.75	-25.61
T₃	-40960.156	359.75	186.40	-24.39

Q3	-40959.500	358.34	194.44	-23.99
OS3-TS	-40958.727	357.84	184.02	-25.51
T3-TS	-40959.145	357.35	188.53	-23.99
Q3-TS	-40958.684	357.64	187.73	-24.66
OS4	-40959.004	358.77	185.83	-27.47
T4	-40959.453	358.03	191.61	-26.19
Q4	-40959.496	358.24	191.11	-26.45
OS4-TS	-40958.785	358.12	181.29	-29.09
T4-TS	-40959.070	357.29	192.66	-27.55
Q4-TS	-40958.984	356.43	196.28	-26.81
OS5	-40959.191	359.21	185.43	-26.72
T5	-40959.594	358.32	190.21	-25.47
Q5	-40959.641	358.46	190.86	-25.71
OS5-TS	-40959.137	358.87	184.46	-26.57
T5-TS	-40959.375	357.86	189.26	-25.32
Q5-TS	-40959.105	357.28	192.69	-24.99
OS6	-40961.215	359.01	192.98	-24.13
T6	-40961.230	359.14	194.37	-24.32
Q6	-40961.129	358.28	199.24	-24.88
OS7	-40961.375	359.16	191.87	-24.23
T7	-40961.414	359.20	196.05	-24.60
Q7	-40961.359	358.48	198.79	-25.14
OS7-TS	-40960.195	358.16	190.22	-23.55
T7-TS	-40960.758	357.73	192.46	-23.30
Q7-TS	-40960.570	357.85	193.94	-24.32
CS8	-40961.523	361.16	179.96	-27.13
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OS9	-40958.348	357.95	189.73	-23.81
T9	-40958.730	357.26	196.98	-24.27
Q9	-40958.738	357.24	198.09	-24.23
OS9-TS	-40958.238	357.64	186.87	-23.58

T9-TS	-40958.719	357.05	192.91	-24.19
Q9-TS	-40958.699	357.08	193.88	-24.11
OS9-TS'	-40957.719	357.73	185.41	-26.28
T9-TS'	-40958.238	356.11	195.74	-24.17
Q9-TS'	-40958.234	356.69	194.80	-24.64
OS10	-37344.363	328.90	164.11	-26.38
T10	-37344.547	327.61	172.54	-25.28
Q10	-37344.746	327.56	173.35	-25.39
OS10-TS	-40957.863	357.71	186.41	-26.47
T10-TS	-40958.238	356.34	196.89	-24.72
Q10-TS	-40958.328	357.12	191.23	-25.46
OS10-TS'	-40957.949	357.31	188.36	-26.04
T10-TS'	-40958.336	356.76	194.35	-25.66
OS11	-40958.973	358.71	189.10	-27.63
T11	-40959.383	358.52	188.84	-26.05
Q11	-40959.387	358.72	189.10	-26.16
OS11-TS	-40958.707	357.74	186.26	-26.87
T11-TS	-40959.195	358.13	188.15	-26.36
Q11-TS	-40959.188	358.18	187.98	-26.49
CSA1	-28915.520	241.68	160.51	-26.83
OSA1	-28915.539	241.73	157.30	-27.09
TA1	-28915.570	238.60	173.66	-25.35
QA1	-28915.662	238.60	175.54	-25.12
OSA2	-32529.822	269.38	190.56	-24.43
TA2	-32529.949	268.33	196.25	-24.96
QA2	-32529.813	268.01	200.96	-24.85
OSA3	-32530.281	272.99	172.36	-25.49
TA3	-32529.975	271.12	182.88	-24.37
QA3	-32529.537	269.55	192.90	-24.17
OSA4	-32529.400	273.19	173.26	-27.29
TA4	-32529.131	270.87	179.05	-26.18
QA4	-32529.330	269.72	186.71	-26.36

2.2. Cartesian coordinates of the optimized geometries

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Co	12.367475510	16.687395096	7.323225975
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os₁

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T1

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 H 13.190238953 19.627267838 7.622919083
 H 13.032426834 20.009693146 9.350339890
 H 12.648469925 21.231979370 8.144824028
 C 10.578387260 19.986373901 6.882883549
 H 10.815502167 21.019107819 6.614115715
 H 9.489875793 19.891103745 6.827929497
 H 11.029137611 19.333263397 6.136683464
 C 10.269190788 20.498798370 9.308346748
 H 10.255458832 21.552621841 9.016250610
 H 10.660969734 20.458650589 10.329148293
 H 9.230769157 20.153244019 9.323857307

Q1

Co 12.387543678 16.802095413 7.123911381
 O 11.979276657 17.486991882 5.259880066
 O 13.141772270 18.014846802 5.680888653
 N 13.490421295 16.663848877 8.852949142
 N 11.111904144 18.135766983 8.563781738
 N 10.997910500 15.503950119 7.904112816
 N 13.524353027 14.758000374 6.918274879
 C 14.585867882 15.890131950 8.854406357
 C 15.388725281 15.800737381 9.988285065
 H 16.273469925 15.172787666 9.988527298
 C 15.017137527 16.529005051 11.122344017
 H 15.633999825 16.495695114 12.015167236
 C 13.827093124 17.258047104 11.123066902
 H 13.490098953 17.778263092 12.013940811
 C 13.058073997 17.278528214 9.958718300
 C 11.639039993 17.820955276 9.923909187
 H 11.553935051 18.674034119 10.599916458
 H 11.015945435 17.033502579 10.363443375
 C 9.765323639 17.523744583 8.357943535
 H 9.031683922 17.860483170 9.101978302
 H 9.407141685 17.837276459 7.375593185
 C 9.848195076 16.008783340 8.375454903
 C 11.291431427 14.203215599 8.002302170
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 H 13.199263573 13.779454231 8.761748314
 C 14.819179535 15.114662170 7.570761204
 H 15.441204071 14.234697342 7.780619144
 H 15.372679710 15.752079010 6.878426552
 C 13.695443153 14.233267784 5.485448360
 C 14.408158302 12.864954948 5.446839809

H	14.587791443	12.592511177	4.403184414
H	13.820106506	12.054050446	5.886078835
H	15.382116318	12.895603180	5.944683075
C	14.528296471	15.229863167	4.659109592
H	14.438409805	14.967407227	3.601875067
H	15.593508720	15.185105324	4.904650211
H	14.179230690	16.255128860	4.776729107
C	12.291154861	14.117930412	4.868644714
H	11.796173096	15.091814041	4.845920563
H	11.653047562	13.412059784	5.408553123
H	12.374748230	13.754604340	3.841030359
C	10.334709167	13.297997475	8.464018822
H	10.562268257	12.238325119	8.519782066
C	9.097254753	13.790973663	8.879908562
H	8.335398674	13.108520508	9.243968964
C	8.857126236	15.168289185	8.874904633
H	7.928291321	15.578195572	9.257505417
C	11.141319275	19.644577026	8.277057648
C	12.613866806	20.086282730	8.310552597
H	13.193914413	19.561376572	7.547741890
H	13.079936028	19.915624619	9.285697937
H	12.675771713	21.158624649	8.107441902
C	10.561750412	19.929285049	6.879353046
H	10.819887161	20.953224182	6.597120762
H	9.469821930	19.864679337	6.861237049
H	10.970072746	19.263866425	6.119901657
C	10.322425842	20.450685501	9.307727814
H	10.297305107	21.497838974	8.993892670
H	10.751064301	20.435251236	10.313848495
H	9.285383224	20.106767654	9.367534637

^{os}1-TS

Co	0.068580858	0.562290609	-0.360230207
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O	0.105755061	-0.656012297	-2.562368870
N	2.291944742	0.630937815	0.313909829
N	-0.090334803	0.509559393	1.572934747
N	-2.101414919	1.293497801	-0.181181431
N	0.309785664	2.512164593	-0.329641163
N	-0.049626835	-2.235503912	0.133011118
C	3.374480009	0.187169567	-0.669326782
C	4.774197578	0.175956607	-0.022190135
H	4.842374325	-0.547952652	0.795317411
H	5.074406147	1.156170249	0.361508161
H	5.514581680	-0.113310166	-0.773292184
C	3.043191433	-1.225845575	-1.178280830
H	2.023280859	-1.274098754	-1.560000896
H	3.169310093	-1.990925193	-0.407144368
C	3.728097677	-1.479008913	-1.992279649
C	3.351791143	1.155368686	-1.865623355
H	4.044211388	0.796344519	-2.631632090
H	3.672136545	2.165932655	-1.595745087
H	2.353371859	1.208158970	-2.303559780
C	2.202824354	-0.238508254	1.520281911
H	2.159102917	-1.275639772	1.186245918
H	3.071997404	-0.130603790	2.183064938

C	0.940071404	0.051022321	2.300986767
C	-1.225126624	0.934454918	2.150440216
C	-2.173931599	1.699203610	1.253006101
H	-1.875335932	2.750226736	1.331938386
H	-3.192734480	1.653586864	1.646028399
C	-1.997562170	2.501978636	-1.048202276
H	-1.997032166	2.167177677	-2.087271214
H	-2.843883514	3.188150167	-0.913179874
C	-0.699784279	3.256045818	-0.793980062
C	1.496171713	3.020458221	0.010642478
C	1.750012875	4.377619267	-0.182056218
H	2.715626478	4.800209999	0.076419599
C	0.728762627	5.177212715	-0.702649832
H	0.901212573	6.236939907	-0.864261508
C	-0.521559954	4.623654366	-0.993292511
H	-1.335508943	5.238250256	-1.363829970
C	2.444067717	2.062852383	0.716236353
H	2.215485096	2.147895813	1.784402847
H	3.473404408	2.411783457	0.604893208
C	-3.247815132	0.356058240	-0.561564803
C	-4.600457191	1.094676256	-0.601078212
H	-4.647484779	1.816615224	-1.421534419
H	-4.821158409	1.621937633	0.332791120
H	-5.404889107	0.370840281	-0.758840263
C	-2.966824532	-0.271667093	-1.934301734
H	-2.046801329	-0.855262101	-1.915392160
H	-2.879877567	0.467646033	-2.734032154
H	-3.797656298	-0.932963669	-2.197307825
C	-3.295307636	-0.782996356	0.474461377
H	-3.987090826	-1.553860188	0.124208614
H	-3.655174494	-0.457039118	1.454197884
H	-2.309966564	-1.238564253	0.597150564
C	-1.417043686	0.793079078	3.522578955
H	-2.345481157	1.118555903	3.980360985
C	-0.384988964	0.250593454	4.290143490
H	-0.509341002	0.129611477	5.361922741
C	0.822560489	-0.095331565	3.681266308
H	1.659938335	-0.464105994	4.264150620
C	-0.264301449	-2.971683264	-0.737774253
C	-0.527807176	-3.841256380	-1.875478148
H	-1.561542511	-4.197201252	-1.848890066
H	0.145882025	-4.702553749	-1.861767054
H	-0.366141856	-3.267010689	-2.792701006

^T1-TS

Co	-0.000794284	-0.153752893	-0.352934003
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O	0.030311074	-1.368192196	-2.546240091
N	2.221032619	-0.088818997	0.326435685
N	-0.163790673	-0.211316884	1.578343153
N	-2.171591997	0.573580980	-0.178605691
N	0.240653083	1.795799255	-0.312780291
N	-0.100036129	-2.930043697	0.156088218
C	3.306945324	-0.534153819	-0.653603733
C	4.702132702	-0.557247579	0.003516413
H	4.764230251	-1.293799281	0.810152054

H 5.000304222 0.416600853 0.404836029
H 5.448170662 -0.835047245 -0.746377707
C 2.969776869 -1.940662980 -1.175293088
H 1.959341168 -1.973024845 -1.582968831
H 3.066560507 -2.710439205 -0.404611975
H 3.671954632 -2.199223757 -1.972735405
C 3.298671722 0.441231638 -1.844362736
H 3.988913298 0.077123195 -2.609833241
H 3.631206274 1.446372151 -1.568792343
H 2.302180052 0.507860780 -2.285094500
C 2.131052732 -0.956367314 1.533858418
H 2.094568491 -1.994658232 1.202799082
H 2.997067213 -0.842094302 2.199743032
C 0.864534497 -0.671545267 2.308632135
C -1.302401900 0.206490353 2.153833628
C -2.250141859 0.972442865 1.257659912
H -1.956102252 2.024344921 1.342637539
H -3.269879580 0.920705080 1.647069693
C -2.063933134 1.787197471 -1.038432717
H -2.057217836 1.457198977 -2.078864098
H -2.911729813 2.471403837 -0.903362155
C -0.768811107 2.541119814 -0.774541676
C 1.426852226 2.302724123 0.029176852
C 1.679684877 3.661199570 -0.155486628
H 2.645164728 4.082858086 0.105100334
C 0.657334685 4.463339329 -0.669927120
H 0.828307033 5.524476051 -0.823972166
C -0.592149734 3.910135984 -0.964703560
H -1.406808853 4.525948048 -1.331701398
C 2.375366211 1.342724323 0.729321122
H 2.149992704 1.426886559 1.798328280
H 3.404859781 1.690246701 0.615842521
C -3.322471857 -0.355892092 -0.569509387
C -4.674677372 0.385298461 -0.584553778
H -4.722319603 1.132342577 -1.382052183
H -4.896509171 0.882738113 0.365222394
H -5.479129314 -0.333138436 -0.765018702
C -3.053729296 -0.957466304 -1.956414819
H -2.120369911 -1.519896626 -1.965974450
H -3.002162933 -0.204857305 -2.746949434
H -3.874888420 -1.633712769 -2.211773634
C -3.366280556 -1.513999701 0.443924844
H -4.102945328 -2.249122620 0.108218715
H -3.669512749 -1.199424982 1.446091771
H -2.396724224 -2.012499094 0.510922015
C -1.499770403 0.056782521 3.524402380
H -2.431415558 0.376281708 3.979928493
C -0.469134629 -0.485822916 4.293569565
H -0.597319782 -0.612618566 5.364314079
C 0.741725087 -0.824868381 3.687614918
H 1.577923417 -1.194321513 4.271848202
C -0.295845360 -3.665274143 -0.719996989
C -0.532596052 -4.533661842 -1.864291072
H -1.556921124 -4.916296005 -1.845189214
H 0.163273826 -5.377282619 -1.853412151
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Q1-TS

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O 13.953634262 17.670524597 5.756773472
N 12.886631966 16.587469101 8.246287346
N 10.626410484 18.172014236 7.657891273
N 10.537858963 15.499806404 7.092832088
N 13.105374336 14.610311508 6.389995098
C 13.986105919 15.831733704 8.369050980
C 14.710344315 15.829985619 9.559173584
H 15.598759651 15.215630531 9.663669586
C 14.258164406 16.631282806 10.611501694
H 14.813595772 16.665704727 11.543974876
C 13.072663307 17.356342316 10.478566170
H 12.681599617 17.945171356 11.302211761
C 12.386519432 17.290956497 9.264932632
C 10.990386009 17.857446671 9.069568634
H 10.848398209 18.715913773 9.730524063
H 10.305523872 17.086832047 9.441812515
C 9.311367035 17.570789337 7.304206371
H 8.491582870 17.942958832 7.934301853
H 9.088264465 17.839214325 6.270050049
C 9.356542587 16.057373047 7.392483234
C 10.766366005 14.193536758 7.270571232
C 12.218171120 13.749154091 7.221815109
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H 12.567583084 13.794085503 8.259464264
C 14.330725670 14.973093033 7.161496162
H 14.883458138 14.086873055 7.500680923
H 14.986114502 15.546533585 6.504133701
C 13.395218849 13.988295555 5.025326729
C 14.341526985 12.777779579 5.137714863
H 14.426952362 12.288941383 4.163151741
H 13.976949692 12.025847435 5.845365047
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H 13.330431938 15.877465248 3.938734055
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H 7.647498131 13.244346619 8.189805984
C 8.282815933 15.267579079 7.798258781
H 7.329019070 15.721910477 8.045593262
C 10.711430550 19.668237686 7.369056702
C 12.152710915 20.116514206 7.671472549
H 12.870922089 19.526729584 7.099463940
H 12.402333260 20.036581039 8.733513832
H 12.272632599 21.167428970 7.394306660
C 10.421082497 19.925300598 5.880456448
H 10.650818825 20.969419479 5.651306152
H 9.369438171 19.767322540 5.624197960

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 H 8.674494743 20.205816269 8.007811546
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 H 10.354942322 18.941799164 1.930881739
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Q1-M

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 O 14.348575592 18.535043716 7.194702625
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Q1-M-TS

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 C 15.010808945 15.369946480 10.406721115
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 H 14.945200920 15.905146599 12.493968010
 C 13.338985443 16.821060181 11.386826515
 H 12.891923904 17.306261063 12.248663902
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 H 10.679162979 16.823541641 9.990357399
 C 9.976586342 17.812820435 7.909340858
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C	13.871530533	17.375213623	11.083038330
H	13.568451881	17.919656754	11.970921516
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C	11.609222412	17.795850754	9.874330521
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C	12.788541794	13.886049271	7.762430668
H	12.916252136	12.883990288	7.352698803
H	13.286144257	13.885396957	8.737360954
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H	15.451736450	14.429920197	7.563857079
H	15.240271568	16.016712189	6.777730465
C	13.556050301	14.438048363	5.419301033
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H	14.190932274	12.369561195	5.942151546
H	15.530369759	13.468478203	5.554530621
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H	14.123544693	15.159694672	3.486979723

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H	12.183286667	13.805677414	3.888242245
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C	13.848440170	17.277498245	11.088224411
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H	11.001341820	17.039604187	10.321959496
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H	9.556308746	17.886074066	7.242677212
C	9.904085159	16.074415207	8.290234566
C	11.348683357	14.245950699	7.991173744
C	12.792927742	13.840703011	7.775601864
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C	11.238564491	19.685976028	8.266616821
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H	15.256566048	13.699383736	8.621437073
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H	10.986547470	21.608085632	9.454177856
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H	9.745805740	20.521587372	8.834738731
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96

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97

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17

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97

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C 10.053435326 13.600529671 7.253397465
H 10.139165878 12.519648552 7.208091259
C 8.805027962 14.220586777 7.316648006
H 7.900081158 13.620742798 7.300428391
C 8.718582153 15.610407829 7.446760654
H 7.760128498 16.105693817 7.561122417
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C 12.909962654 19.930433273 8.958224297

H 13.645452499 19.451627731 8.304708481
H 13.033478737 19.533929825 9.970373154
H 13.143266678 20.997678757 9.001721382
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H 11.950666428 19.722372055 6.288839340
C 10.469767570 20.493389130 9.312542915
H 10.633079529 21.568752289 9.200206757
H 10.575708389 20.270893097 10.378038406
H 9.436040878 20.289669037 9.016867638
N 14.052953720 17.981542587 6.126630306
C 13.359020233 18.174728394 4.951982021
C 13.989495277 18.827560425 3.766085863
H 14.689595222 19.599760056 4.093210220
H 14.569663048 18.078845978 3.212781191
H 13.220563889 19.232128143 3.107414246

os7-TS

Co 6.941720486 1.365465283 2.790619850
O 8.787877083 3.700103045 3.705733538
O 7.717122078 2.387280464 1.459414244
N 7.643548489 -0.920833468 2.700430870
N 5.306902409 0.390132964 2.158002615
N 5.264509201 2.909898996 3.411187649
N 6.572180271 0.867263436 4.619521141
N 8.922438622 2.182383537 1.975376368
C 9.124236107 -1.302232623 2.606296539
C 9.349707603 -2.828853607 2.693902016
H 8.781284332 -3.372616529 1.933098674
H 9.109693527 -3.253311634 3.673003674
H 10.408154488 -3.036876440 2.514123917
C 9.705590248 -0.815541923 1.266690373
H 9.439310074 0.223441750 1.074964046
H 9.395797729 -1.445427418 0.427547544
H 10.796365738 -0.877418339 1.317595959
C 9.847283363 -0.599437535 3.766905308
H 10.920141220 -0.803741097 3.710957766
H 9.503866196 -0.950951159 4.744704247
H 9.693025589 0.479340613 3.709130287
C 6.865767479 -1.333903790 1.499733925
H 7.369725227 -0.921415806 0.623844564
H 6.825553417 -2.425077677 1.376876950
C 5.453179359 -0.789607763 1.536796808
C 4.097205639 0.902129173 2.414645195
C 4.050599098 2.048750162 3.405340195
H 3.944252014 1.581433296 4.390584469
H 3.135246038 2.624692917 3.256010532
C 5.754407406 3.141562700 4.797988892
H 6.651989460 3.759087324 4.729131699
H 5.020172119 3.659116745 5.430244923
C 6.135734081 1.829173565 5.454154968
C 6.814566612 -0.386001438 5.035497665
C 6.733148575 -0.699802160 6.390600681
H 6.948059559 -1.707409382 6.730893612
C 6.351166248 0.298280448 7.288790226

H	6.283239365	0.077199847	8.349539757
C	6.017715931	1.569663286	6.817235947
H	5.664592266	2.343721390	7.490053654
C	7.020621777	-1.431309700	3.956155300
H	6.023052692	-1.820116401	3.721942902
H	7.572943687	-2.275161505	4.372858524
C	5.021915436	4.194856644	2.608779192
C	3.914195538	5.065642357	3.242335320
H	4.199728489	5.424566746	4.235761642
H	2.947805166	4.559846878	3.324831486
H	3.755005360	5.947029114	2.615086794
C	6.299834251	5.040935040	2.515977621
H	7.092835426	4.484323502	2.026692152
H	6.658952236	5.384555817	3.488357544
H	6.076756477	5.931495190	1.921307087
C	4.629456997	3.772900820	1.181188345
H	4.565164089	4.660957813	0.547016799
H	3.655781746	3.276778698	1.133208394
H	5.387644768	3.106553793	0.762069762
C	2.948809624	0.292443633	1.910773277
H	1.971980810	0.724696517	2.102178097
C	3.083767414	-0.891538799	1.185404062
H	2.205965281	-1.385977864	0.780736685
C	4.347433090	-1.464094877	1.024088025
H	4.472628117	-2.418472767	0.523325205
C	9.441276550	3.256063223	2.774643183
C	10.863736153	3.625364542	2.465712309
H	11.276741028	4.244344234	3.262744665
H	10.895526886	4.173153877	1.516359091
H	11.463656425	2.719626665	2.331776857

T7-TS

Co	7.057477951	1.464696646	2.773581505
O	8.620697021	3.080342293	3.674443483
O	7.554394722	2.459345818	1.147529244
N	7.650733948	-0.854299068	2.764799356
N	5.346886158	0.472305298	2.154765129
N	5.270650387	2.978245735	3.479876995
N	6.594883919	0.923770189	4.693336010
N	8.743177414	2.094843149	1.618879318
C	9.129433632	-1.265748620	2.734225035
C	9.327013016	-2.787825346	2.926368237
H	8.719743729	-3.369888783	2.226107121
H	9.117315292	-3.136769772	3.941182852
H	10.373530388	-3.031786680	2.724477530
C	9.767217636	-0.886345387	1.386157751
H	9.537977219	0.143098027	1.112668633
H	9.459730148	-1.561937809	0.582288027
H	10.852836609	-0.982731521	1.478511810
C	9.828159332	-0.503393352	3.871295214
H	10.898903847	-0.725103736	3.865165710
H	9.444203377	-0.787341356	4.855792999
H	9.693643570	0.574211538	3.756652117
C	6.913579941	-1.245416284	1.526454091
H	7.437555790	-0.795877397	0.680649161
H	6.893846512	-2.332728863	1.371967793

C	5.495883465	-0.711627603	1.541995049
C	4.136080742	0.980658054	2.411767006
C	4.066656590	2.109189749	3.425962925
H	3.945866585	1.615185857	4.396664143
H	3.147799730	2.681749821	3.276779652
C	5.726925850	3.180018425	4.882656574
H	6.602859497	3.829863787	4.858238697
H	4.965003967	3.662415266	5.509940624
C	6.122312069	1.863845110	5.526332378
C	6.790812016	-0.337936342	5.092964649
C	6.661509514	-0.682851911	6.437785625
H	6.845484734	-1.701257110	6.763927937
C	6.263731480	0.303495705	7.342121601
H	6.157752991	0.064698875	8.396018982
C	5.950581551	1.584064603	6.880729675
H	5.567576885	2.344947815	7.552820206
C	6.975040436	-1.364761710	3.992039919
H	5.963425636	-1.689373255	3.724939823
H	7.469501495	-2.249007702	4.395894051
C	5.043313980	4.286154747	2.718158960
C	3.988943100	5.176935673	3.410446882
H	4.333836555	5.536170483	4.384655476
H	3.027147293	4.674646378	3.553128958
H	3.798736095	6.057029724	2.789781570
C	6.355822563	5.078327179	2.603669405
H	7.090089321	4.505938530	2.041884422
H	6.776326180	5.355892181	3.573266029
H	6.153927326	6.008581161	2.065080166
C	4.585293770	3.927926540	1.291852832
H	4.562785149	4.836372852	0.684082389
H	3.578926563	3.500830650	1.261663079
H	5.283341408	3.226685762	0.829930961
C	2.990585804	0.368969560	1.900142670
H	2.011622906	0.798921704	2.086297274
C	3.130583286	-0.815290987	1.176803589
H	2.255007744	-1.309915423	0.767306030
C	4.394988060	-1.391562343	1.027152061
H	4.521826267	-2.349185228	0.533252001
C	9.231688499	3.024188757	2.609318495
C	10.501020432	3.746087551	2.303047180
H	10.840190887	4.316516399	3.168282032
H	10.334204674	4.412437916	1.448050261
H	11.264927864	3.024404287	1.994696856

Q7-TS

Co	6.828601837	1.362326264	2.596536875
O	8.751957893	4.450719833	4.135816574
O	8.366210938	2.359321594	2.060144663
N	7.517426968	-0.957853436	2.624928713
N	5.155352116	0.283500224	2.134634256
N	5.230105400	2.859079123	3.274764299
N	6.599537849	0.891590655	4.550390244
N	9.083190918	2.367178679	3.204786777
C	9.000559807	-1.289684534	2.418206215
C	9.231858253	-2.806267500	2.254857063
H	8.790006638	-3.199561119	1.334654570

H	8.843574524	-3.386462450	3.098403215
H	10.307203293	-2.998153687	2.203124046
C	9.506585121	-0.561464667	1.160651207
H	9.293136597	0.506709635	1.213270545
H	9.079346657	-0.967561126	0.238483578
H	10.589453697	-0.693455994	1.084931374
C	9.780852318	-0.774869263	3.639980555
H	10.852013588	-0.872591078	3.443367004
H	9.572794914	-1.352490067	4.545491219
H	9.563422203	0.279610813	3.821512699
C	6.663230896	-1.499854326	1.531312704
H	7.108884811	-1.203370094	0.578999758
H	6.614693642	-2.596579075	1.539666414
C	5.254920006	-0.949821472	1.614695668
C	3.967699766	0.813067436	2.463942766
C	3.993585110	2.030874014	3.370821714
H	3.918645382	1.635748982	4.389979362
H	3.090282917	2.625075102	3.217977047
C	5.776991367	3.165185928	4.635072708
H	6.667486668	3.787638426	4.507085800
H	5.056684017	3.708884954	5.259424210
C	6.202371597	1.891836524	5.349916935
C	6.893013000	-0.331061125	5.006110191
C	6.912720680	-0.573329508	6.378722191
H	7.170747757	-1.555245280	6.761949539
C	6.571384430	0.471021742	7.242796421
H	6.580911160	0.308387935	8.316309929
C	6.178729534	1.710860968	6.730974674
H	5.858693123	2.513719559	7.386552334
C	7.017490387	-1.421616197	3.953936100
H	6.002378464	-1.814272165	3.822951078
H	7.605738640	-2.255077839	4.345857620
C	5.007083893	4.094735146	2.391719341
C	3.954260588	5.049113750	2.990589619
H	4.269108772	5.436399460	3.963743687
H	2.965656281	4.593915939	3.103828669
H	3.832693815	5.907963753	2.324798107
C	6.320962906	4.866977215	2.207344532
H	7.115268230	4.216606617	1.840400696
H	6.669909477	5.338919640	3.126586437
H	6.153974056	5.662078381	1.474974513
C	4.553537369	3.589989901	1.010013819
H	4.469674587	4.436470985	0.324135005
H	3.579569340	3.093048096	1.028045058
H	5.288988590	2.892240286	0.593897700
C	2.784190655	0.158573180	2.123021364
H	1.823958039	0.598983586	2.371802330
C	2.865241766	-1.081651092	1.488441467
H	1.958759665	-1.610349774	1.209883094
C	4.113899708	-1.666604877	1.264271617
H	4.200241089	-2.662717104	0.843382061
C	9.507638931	3.697655439	3.549400568
C	10.943786621	4.005399704	3.228354931
H	11.212763786	4.996492863	3.596112251
H	11.087045670	3.950975657	2.142768145
H	11.593856812	3.245255232	3.674936771

CS8

Co	6.890843391	1.318719864	2.931761026
O	8.378423691	2.314234734	3.423680544
O	7.333492279	1.729400873	1.202036738
N	7.655143738	-0.739640117	2.855435133
N	5.343874454	0.396979481	2.317419052
N	5.457045078	2.864549398	3.452963352
N	6.540452003	0.865310431	4.769087791
N	8.505991936	2.483160496	1.134189010
C	9.172651291	-1.062197447	2.823308468
C	9.433197021	-2.586310863	2.817512035
H	8.949870110	-3.093731165	1.977669120
H	9.144721031	-3.092698574	3.742979765
H	10.509954453	-2.739433050	2.704034567
C	9.806185722	-0.479366004	1.551753640
H	9.528578758	0.557759881	1.381899714
H	9.547438622	-1.059922338	0.661107063
H	10.893650055	-0.530911684	1.654902101
C	9.807214737	-0.432346016	4.073008537
H	10.890347481	-0.577084899	4.032923698
H	9.459523201	-0.903856814	4.997831821
H	9.590201378	0.636035979	4.117089748
C	6.963202000	-1.191606164	1.602811813
H	7.459363461	-0.687985599	0.771614671
H	7.021992207	-2.276655674	1.466261148
C	5.528890133	-0.729363263	1.618372798
C	4.142745495	0.949684441	2.509886742
C	4.151317596	2.104618311	3.475657225
H	4.010973930	1.684160709	4.476332664
H	3.301556110	2.763304710	3.300086498
C	5.898094654	3.155236244	4.858332634
H	6.831249714	3.715284586	4.790277958
H	5.157295227	3.749582291	5.403567314
C	6.183889389	1.861905336	5.584885597
C	6.787327290	-0.377298415	5.188495636
C	6.726852894	-0.672429502	6.548532009
H	6.935565472	-1.674995422	6.906739235
C	6.384666920	0.354721040	7.433419704
H	6.331768513	0.152206704	8.498848915
C	6.090575218	1.635872364	6.955271721
H	5.796303272	2.433803558	7.628767490
C	7.013574600	-1.366695046	4.071404934
H	6.031107903	-1.753989697	3.784077883
H	7.585091591	-2.223326683	4.426376820
C	5.300764561	4.155252934	2.606609344
C	4.293764591	5.127388000	3.261335135
H	4.673895359	5.549838066	4.195959091
H	3.310426235	4.689493179	3.456059456
H	4.133297443	5.962215424	2.574000597
C	6.641588688	4.884205341	2.463987350
H	7.349215508	4.300891399	1.881486535
H	7.090532303	5.152325630	3.423426390
H	6.458468437	5.819990158	1.928380251
C	4.824183941	3.741031408	1.204263806
H	4.849745274	4.618882656	0.553277075
H	3.794788599	3.369881630	1.193707466
H	5.497938156	2.986289024	0.791478992

C	3.016396523	0.386053711	1.917056561
H	2.038694143	0.835772693	2.054132700
C	3.180194616	-0.771480680	1.151164770
H	2.318467855	-1.230395317	0.676031411
C	4.443392277	-1.354603767	1.012052894
H	4.581050396	-2.270789862	0.447936624
C	8.984446526	2.736324072	2.306457281
C	10.241374016	3.532807350	2.473403692
H	10.995839119	2.939540148	3.001988173
H	10.042058945	4.424251556	3.078424454
H	10.633625031	3.835280180	1.501350880

osg

Co	6.959706783	1.364460111	2.893826962
O	8.532174110	2.376027584	3.348681688
O	7.469349861	1.835240841	1.139739156
N	7.689657211	-0.925475895	2.876817703
N	5.380152702	0.415185809	2.301978350
N	5.303385258	2.961987257	3.501551867
N	6.562796593	0.884052694	4.727329254
N	8.577490807	2.556044102	1.051380515
C	9.173116684	-1.268103004	2.843296051
C	9.424612045	-2.791821718	2.843481779
H	8.949290276	-3.283852816	1.989442229
H	9.082216263	-3.285194874	3.758066893
H	10.499692917	-2.978223085	2.767812967
C	9.813613892	-0.674548626	1.576947570
H	9.538096428	0.368753403	1.435938120
H	9.542932510	-1.226201177	0.672188520
H	10.901610374	-0.732460320	1.667480946
C	9.826042175	-0.623439550	4.078761578
H	10.906543732	-0.789605498	4.048359394
H	9.464595795	-1.054913759	5.016960621
H	9.635955811	0.452208877	4.097461700
C	6.951964378	-1.311671376	1.648579717
H	7.477396011	-0.876227319	0.796297431
H	6.903471947	-2.399513245	1.498897791
C	5.543411255	-0.752770603	1.657067180
C	4.165263653	0.952681899	2.496010542
C	4.083026409	2.115943909	3.466462135
H	3.931379557	1.670931220	4.456203938
H	3.179211378	2.696632624	3.266060591
C	5.778388023	3.174226761	4.890626431
H	6.683107376	3.783582211	4.843936920
H	5.047390461	3.701590776	5.519501209
C	6.136197567	1.856993437	5.551166058
C	6.793354034	-0.364056289	5.164381981
C	6.696600914	-0.660820127	6.522930622
H	6.902076721	-1.666209579	6.875597954
C	6.318005562	0.349225104	7.407717705
H	6.240031719	0.141809240	8.470567703
C	6.005177975	1.617947221	6.916862011
H	5.657986164	2.406081676	7.576612473
C	7.025483608	-1.427088618	4.106211662
H	6.035289764	-1.815592766	3.843381405
H	7.560416222	-2.268895149	4.551904678

C	5.136122227	4.241484642	2.690949917
C	4.081627846	5.181516171	3.311029196
H	4.391861439	5.548757553	4.294241905
H	3.098820210	4.712084293	3.415702581
H	3.949928761	6.054214001	2.665328741
C	6.475048065	4.989327908	2.602946520
H	7.229710579	4.376385689	2.115192652
H	6.850100517	5.318670750	3.575393915
H	6.334931850	5.888295174	1.996813774
C	4.727528572	3.838430166	1.261786699
H	4.726621151	4.725364685	0.622719705
H	3.722569466	3.409629107	1.212549329
H	5.439951897	3.119450808	0.848668754
C	3.037517071	0.364620984	1.926991343
H	2.060031414	0.813622892	2.069559097
C	3.190105677	-0.812546015	1.194089055
H	2.326195002	-1.287312508	0.739176393
C	4.451988220	-1.398299098	1.080933213
H	4.589274406	-2.342160225	0.564030945
C	9.099645615	2.802497864	2.285846472
C	10.365334511	3.593922853	2.367872715
H	11.139725685	2.993627310	2.857148647
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H	10.703327179	3.892018080	1.375203371

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Co	6.956265926	1.367029786	2.893204927
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N	6.556391239	0.887661517	4.728385448
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C	9.170486450	-1.260519743	2.840372801
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H	9.537089348	0.374695152	1.430805206
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H	10.898505211	-0.728353918	1.664454460
C	9.826672554	-0.617680371	4.074890614
H	10.906671524	-0.786855400	4.042865753
H	9.465999603	-1.049167633	5.013384342
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H	6.898008347	-2.396630526	1.506209135
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o8

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o9

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T9

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N	10.823839188	17.687553406	4.508598804
C	12.002791405	18.094261169	4.351646900
C	12.487877846	19.239948273	3.519349337
H	13.065939903	18.846710205	2.676845074
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9g

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C	14.377500534	15.529753685	9.375457764
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C	14.195556641	15.850833893	11.742215157
H	14.516970634	15.631333351	12.755850792
C	13.140965462	16.736091614	11.518985748
H	12.612438202	17.196243286	12.347655296
C	12.750669479	16.994888306	10.203716278
C	11.463764191	17.728637695	9.873085976
H	11.277587891	18.491716385	10.631552696
H	10.669061661	16.985305786	10.006328583
C	10.088452339	17.883104324	7.846092224
H	9.207679749	18.233852386	8.401546478
H	10.057801247	18.330989838	6.851552963
C	10.006096840	16.379613876	7.668585777
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H	12.713357925	12.838274002	7.200621128
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C	14.285596848	14.233339310	5.745368958
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C	10.136922836	13.632039070	7.468241692
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C	8.820207596	15.648995399	7.687963486
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9g-TS

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C	9.946228027	17.801486969	7.910997391
H	9.087621689	18.113647461	8.520892143
H	9.842878342	18.253496170	6.923346996
C	9.917351723	16.293275833	7.749989986
C	11.253402710	14.365599632	7.557549953

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T9-TS

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N	13.766937256	14.694305420	7.123549461
C	14.358112335	15.497661591	9.397897720
C	14.795758247	15.186991692	10.681711197
H	15.564822197	14.437106133	10.834023476
C	14.209247589	15.853290558	11.761029243
H	14.543637276	15.648359299	12.773518562
C	13.157433510	16.741949081	11.538216591
H	12.644046783	17.219570160	12.366616249
C	12.749651909	16.983043671	10.224620819
C	11.461064339	17.718248367	9.903133392
H	11.282239914	18.480066299	10.665024757
H	10.667279243	16.974742889	10.043695450
C	10.075310707	17.869268417	7.886303902
H	9.194026947	18.213739395	8.445836067
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C	9.992323875	16.366390228	7.701806545
C	11.262706757	14.404761314	7.483142853
C	12.659759521	13.817372322	7.613314152
H	12.689750671	12.830714226	7.146454811
H	12.807520866	13.642144203	8.685118675
C	14.851389885	14.800982475	8.144028664
H	15.268521309	13.822121620	8.413441658
H	15.658780098	15.393122673	7.709445000
C	14.284914970	14.263335228	5.747193813
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H	15.261281013	12.609833717	4.761740685
H	14.133025169	12.065185547	5.991383553
H	15.706308365	12.739767075	6.460418701
C	15.387740135	15.240847588	5.295939445
H	15.532701492	15.142153740	4.217240334
H	16.350870132	15.017714500	5.764616489
H	15.121549606	16.278299332	5.500184536
C	13.098114967	14.329668045	4.771206379
H	12.652716637	15.325945854	4.760750294
H	12.317956924	13.601784706	5.012761116
H	13.446096420	14.102869034	3.759932756
C	10.113184929	13.616890907	7.473750591
H	10.186914444	12.535999298	7.410582066
C	8.872584343	14.250548363	7.573091984
H	7.961088657	13.660747528	7.566142082
C	8.805504799	15.637205124	7.724171638
H	7.854727268	16.141504288	7.859774590
C	11.621528625	19.775569916	8.498570442
C	13.083964348	19.981847763	8.927364349
H	13.758199692	19.470661163	8.234556198
H	13.278752327	19.620212555	9.941862106
H	13.324527740	21.048465729	8.914684296
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H	11.824866295	21.350887299	7.050011635

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H	12.034006119	19.731708527	6.371412277
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H	10.832846642	21.629110336	9.282341957
H	10.836093903	20.361684799	10.493491173
H	9.619379997	20.354606628	9.201380730
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C	12.415196419	19.120525360	3.195384502
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C	14.584333420	16.285423279	11.937913895
H	15.006868362	16.153339386	12.929154396
C	13.449934006	17.082212448	11.765786171
H	12.970602036	17.568637848	12.608565331
C	12.936067581	17.231798172	10.480753899
C	11.641772270	17.919454575	10.128687859
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C	11.487759590	14.591888428	7.837776661
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H	12.981660843	13.073411942	7.529744625
H	13.109210014	13.959230423	9.028389931
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H	15.614788055	14.276412010	8.500257492
H	15.750037193	15.914498329	7.804000854
C	14.340379715	14.571060181	5.958724022
C	15.055423737	13.202485085	5.984216213
H	15.322561264	12.936102867	4.957790375
H	14.433013916	12.388346672	6.367967606
H	15.984707832	13.229611397	6.560530663
C	15.300568581	15.609427452	5.352514267
H	15.431094170	15.378045082	4.291545391
H	16.294408798	15.564293861	5.808086872
H	14.909752846	16.618604660	5.456605911
C	13.067447662	14.476966858	5.101415157
H	12.494040489	15.402235985	5.144875050
H	12.419851303	13.647491455	5.402261734
H	13.349373817	14.294319153	4.061192036

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C 12.351276398 18.058748245 4.619814396
C 13.570823669 17.961027145 3.729248762
H 14.467599869 17.871076584 4.350663185
H 13.507103920 17.079719543 3.083291531
H 13.633202553 18.861068726 3.114870310
H 14.428092957 18.222032547 9.101129532
H 12.864706993 14.406210899 9.245422363
H 10.773959160 15.124492645 5.666444778
H 11.063471794 16.112989426 9.655598640
H 9.634037971 17.758247375 7.746893406
H 12.326847076 20.025930405 6.692291260
H 13.955759048 15.171509743 4.447447777
H 15.456001282 15.126522064 7.826999664
H 13.447352409 14.068703651 7.112937450
H 11.581619263 18.363349915 8.987634659

QA4

Co 12.794153214 16.766647339 7.131101131
O 11.596046448 19.031328201 4.627262115
O 14.105970383 17.661130905 6.792057514
N 13.575357437 16.344417572 9.100224495
N 11.591650009 18.544315338 7.984239578
N 11.038275719 15.609920502 7.646992207
N 13.836818695 14.789265633 6.507574558
C 13.478330612 15.156777382 9.729852676
C 14.114197731 14.888525963 10.936232567
H 14.005743027 13.912894249 11.397785187
C 14.884887695 15.891579628 11.526242256
H 15.394053459 15.715516090 12.468705177
C 14.996204376 17.119695663 10.875697136
H 15.593082428 17.926115036 11.287837029
C 14.335504532 17.302330017 9.664392471

2.3. Vibrational frequencies (in cm^{-1}) of the optimized structures.

cs₁

51.39	63.53	80.31	89.88	104.55	117.81
118.30	129.60	184.47	195.65	198.97	199.86
224.34	228.68	230.22	246.38	259.77	267.76
269.05	275.36	278.14	284.75	295.43	296.14
313.13	322.61	328.17	337.88	346.81	349.68
352.77	377.33	381.94	390.65	412.40	422.34
442.78	443.25	458.70	473.69	496.96	497.93
529.95	535.65	538.32	550.87	557.25	578.83
586.01	593.41	621.80	639.18	669.47	675.17
713.54	743.18	757.26	764.85	790.98	792.42
804.58	806.20	841.10	844.41	904.13	905.66
929.43	929.66	935.14	935.41	950.08	950.78
957.07	977.62	984.42	993.83	994.44	1018.97
1019.03	1022.71	1032.17	1041.69	1042.34	1054.57
1058.44	1062.74	1064.06	1068.70	1074.30	1101.07
1102.92	1119.10	1119.73	1199.44	1199.70	1211.06
1213.53	1232.40	1242.17	1257.93	1262.06	1263.33
1263.53	1274.26	1280.62	1292.03	1296.19	1304.88
1311.59	1332.43	1336.21	1383.62	1392.53	1397.58
1406.38	1423.07	1423.28	1432.53	1432.66	1457.49
1459.40	1474.66	1482.80	1485.01	1487.25	1490.23
1492.37	1499.06	1499.62	1503.25	1503.67	1512.48
1513.14	1517.53	1518.91	1529.67	1530.54	1534.51
1535.14	1543.97	1544.36	1643.74	1646.18	1655.60
1657.25	3052.62	3052.90	3054.48	3054.58	3059.38
3059.77	3068.07	3068.30	3073.40	3073.85	3117.80
3118.01	3124.23	3124.27	3126.18	3126.30	3135.14
3135.29	3143.61	3143.64	3153.64	3153.79	3171.49
3172.22	3189.83	3190.88	3206.69	3206.78	3218.64
3218.86	3225.43	3225.63			

os₁

45.28	59.85	68.42	80.10	97.87	100.60
100.92	103.99	158.48	174.66	182.24	185.32
192.82	213.84	214.94	215.46	233.09	250.87
251.87	254.30	265.03	274.45	275.20	277.03
280.58	289.27	312.91	313.36	330.17	331.67
335.79	353.48	373.44	392.05	400.98	414.66
421.25	435.93	436.27	459.07	487.16	489.72
492.21	494.26	522.63	522.85	532.54	537.40
563.12	574.42	630.18	638.82	658.56	661.55
719.91	744.11	759.61	766.38	784.61	787.98
804.49	806.73	852.23	858.58	920.31	924.77
930.40	930.60	936.05	940.86	944.09	944.35
958.67	980.77	981.36	987.46	1003.35	1018.31
1019.16	1020.54	1047.15	1048.36	1053.73	1057.92
1059.77	1061.77	1077.03	1081.62	1115.24	1128.52
1133.81	1144.31	1203.00	1203.30	1217.77	1221.74
1227.36	1236.17	1238.95	1258.36	1259.65	1266.70
1269.13	1274.09	1280.61	1291.75	1293.53	1314.45
1318.82	1328.33	1335.49	1385.74	1397.10	1400.88

1413.78	1428.86	1429.47	1429.95	1432.52	1457.41
1457.56	1474.70	1485.55	1488.91	1490.76	1494.55
1495.92	1497.39	1499.30	1502.74	1503.45	1506.85
1507.06	1508.93	1512.14	1529.57	1529.97	1531.00
1531.21	1539.37	1539.91	1631.95	1634.88	1654.63
1656.34	3018.96	3019.17	3050.41	3050.56	3054.32
3054.47	3060.40	3060.96	3067.98	3068.16	3111.45
3111.57	3120.11	3120.61	3124.33	3124.38	3127.55
3127.61	3128.17	3128.43	3133.78	3134.03	3149.98
3150.69	3187.05	3188.55	3203.50	3203.54	3213.44
3213.49	3222.38	3222.42			

r₁

45.10	60.60	68.43	80.24	97.49	98.82
99.43	104.33	156.26	175.07	182.05	186.05
191.16	212.78	214.90	218.34	233.16	251.52
252.21	258.93	266.56	273.76	275.89	278.14
279.98	292.07	311.73	312.72	329.76	331.57
337.01	353.87	373.98	392.23	401.30	414.41
419.75	435.44	436.51	450.63	485.15	487.32
492.09	494.11	522.76	523.33	531.74	536.93
563.56	574.01	629.86	638.63	657.99	661.38
720.45	744.23	760.06	766.37	785.27	788.50
804.98	806.90	852.33	858.93	920.01	924.91
930.83	931.04	935.63	940.60	944.50	944.78
958.59	981.25	981.86	987.65	1004.02	1018.85
1019.62	1021.16	1047.45	1048.70	1054.07	1058.40
1060.04	1062.37	1076.61	1081.05	1115.63	1129.19
1133.16	1143.95	1199.80	1203.25	1203.58	1221.75
1224.52	1236.21	1239.07	1258.55	1260.00	1266.92
1269.30	1274.39	1280.75	1291.15	1293.02	1315.50
1318.92	1329.00	1334.96	1385.67	1397.61	1400.90
1413.90	1429.20	1429.58	1429.96	1432.70	1457.53
1457.72	1475.53	1486.09	1488.87	1490.93	1494.86
1496.08	1497.71	1499.66	1502.99	1503.77	1506.92
1507.08	1509.01	1512.18	1529.95	1530.31	1531.13
1531.30	1539.31	1539.82	1632.86	1635.69	1654.92
1656.62	3020.10	3020.53	3049.81	3050.14	3053.71
3053.92	3059.93	3060.33	3067.75	3067.87	3111.33
3112.06	3120.38	3120.75	3123.80	3124.15	3127.07
3127.29	3127.80	3128.22	3133.40	3133.55	3151.46
3151.65	3187.13	3187.84	3202.94	3203.04	3212.85
3212.90	3221.86	3221.91			

q₁

42.72	63.16	69.56	73.52	92.79	96.80
105.98	109.02	142.40	155.78	165.39	173.57
179.35	182.80	201.24	205.97	219.91	234.21
239.23	248.20	260.25	268.66	269.86	280.17
286.24	287.27	316.11	320.00	326.82	331.45
332.29	342.85	362.34	365.55	385.14	399.43
416.64	417.26	434.18	437.20	449.65	456.39
488.54	496.76	525.07	525.97	528.86	536.20
567.94	572.70	626.60	633.90	656.98	658.69
717.72	740.73	755.48	763.45	785.33	789.55
804.89	806.14	849.98	857.07	917.39	925.21

928.32 933.74 933.96 935.57 945.58 946.18
956.63 983.40 985.67 987.03 1004.72 1019.69
1020.30 1023.55 1044.35 1045.88 1046.65 1049.08
1059.09 1063.93 1069.69 1074.59 1108.97 1119.14
1122.48 1131.64 1161.21 1201.09 1201.19 1217.71
1219.76 1230.48 1235.74 1260.17 1261.69 1263.94
1264.83 1274.58 1279.82 1291.71 1292.71 1318.09
1318.62 1331.21 1333.87 1386.50 1396.47 1402.23
1413.38 1431.26 1432.59 1435.10 1435.88 1461.44
1461.95 1477.38 1486.03 1489.29 1490.50 1495.14
1495.63 1498.46 1500.93 1504.65 1505.18 1506.51
1507.11 1508.12 1510.66 1531.70 1532.22 1532.74
1533.19 1539.56 1540.31 1635.01 1638.60 1651.85
1652.99 3039.41 3039.98 3053.58 3053.69 3057.38
3057.56 3060.85 3061.11 3067.65 3068.27 3119.26
3119.62 3123.34 3123.81 3127.68 3127.72 3130.71
3130.83 3131.09 3131.95 3135.45 3135.62 3150.51
3150.97 3185.34 3188.31 3202.30 3202.35 3212.46
3212.53 3221.45 3221.53

^oS1-TS

-86.10 28.60 42.15 49.18 65.71 67.86
74.98 79.09 88.43 90.76 102.59 113.89
117.93 143.92 148.19 158.94 173.99 183.64
194.30 204.28 212.48 219.70 235.13 244.50
246.64 259.77 266.09 274.50 281.07 285.95
288.95 299.52 308.45 319.08 324.57 340.57
344.90 353.18 357.13 384.14 389.36 392.00
396.68 415.63 423.18 427.48 435.95 460.01
479.58 486.34 491.67 526.23 527.89 532.98
538.33 553.03 559.75 578.66 628.17 639.18
659.47 666.93 719.50 742.68 758.79 766.65
787.53 789.14 803.30 805.41 852.82 860.00
918.51 924.01 931.28 934.59 935.07 935.38
936.86 944.13 944.40 958.15 980.01 985.70
987.16 1008.99 1016.22 1016.86 1025.69 1046.95
1047.77 1050.65 1054.02 1057.05 1060.31 1062.75
1065.45 1072.71 1076.76 1107.38 1120.55 1122.63
1133.63 1199.25 1201.86 1220.86 1224.70 1233.05
1235.38 1239.39 1260.70 1264.05 1265.94 1268.82
1272.84 1280.03 1291.60 1294.66 1313.76 1322.87
1325.93 1336.49 1385.74 1397.65 1402.03 1411.07
1413.30 1429.71 1430.72 1432.36 1433.58 1458.97
1461.33 1471.70 1475.79 1476.95 1484.51 1489.39
1491.64 1494.07 1494.37 1498.38 1499.02 1504.93
1506.12 1507.43 1509.40 1510.13 1513.54 1527.85
1528.16 1533.89 1534.64 1537.88 1540.76 1635.33
1641.59 1651.41 1658.56 2366.06 3032.00 3037.70
3051.92 3052.12 3058.50 3059.40 3060.63 3061.46
3062.28 3066.46 3069.75 3107.77 3112.09 3121.42
3121.46 3124.32 3126.39 3128.26 3129.49 3132.05
3133.52 3136.82 3143.89 3144.82 3145.74 3153.00
3161.82 3174.27 3174.97 3200.75 3201.86 3211.11
3212.93 3219.83 3221.39

^T1-TS

-91.50 29.47 45.25 50.09 62.83 70.39
74.56 79.73 88.73 92.61 102.63 115.49
120.11 144.97 149.69 159.71 176.77 183.38
193.63 205.82 213.47 222.24 238.49 240.66
246.51 260.11 266.84 274.77 280.16 284.25
287.35 298.52 308.87 319.72 325.00 340.21
345.49 354.62 360.20 383.98 389.80 392.50
397.26 415.95 423.33 428.67 436.32 460.59
480.81 486.72 491.99 526.73 528.71 533.22
539.12 559.54 567.50 581.37 628.39 639.47
659.68 667.32 719.77 742.56 758.91 767.20
787.97 789.92 803.59 805.75 853.24 860.61
918.58 924.32 931.05 934.11 935.27 935.42
936.53 944.14 944.38 958.50 979.21 986.49
986.96 1009.89 1016.99 1017.42 1026.28 1046.67
1048.16 1050.99 1054.07 1057.82 1060.82 1063.20
1066.04 1072.44 1076.68 1107.63 1120.58 1123.08
1133.96 1199.50 1202.38 1222.75 1224.69 1234.05
1237.63 1240.02 1260.88 1264.36 1266.54 1269.55
1273.22 1280.56 1292.03 1294.99 1314.14 1323.09
1326.37 1336.69 1386.54 1398.54 1402.68 1410.98
1413.66 1430.23 1431.62 1432.87 1433.96 1460.20
1461.92 1471.58 1476.09 1477.42 1484.73 1489.32
1491.82 1493.61 1494.64 1498.55 1499.25 1505.12
1506.06 1507.22 1508.90 1510.37 1513.89 1528.22
1528.50 1534.14 1534.77 1538.57 1540.97 1635.63
1642.25 1651.92 1659.04 2365.48 3031.99 3038.62
3051.80 3052.53 3057.73 3059.56 3060.47 3060.88
3062.86 3065.93 3069.12 3109.12 3112.62 3121.12
3121.91 3123.99 3126.33 3128.16 3129.67 3133.29
3133.40 3136.71 3143.59 3145.45 3145.97 3154.67
3160.44 3173.02 3173.47 3200.58 3201.40 3211.03
3212.73 3219.63 3220.94

^Q1-TS

-36.32 29.18 36.67 46.26 60.86 69.23
78.92 81.52 85.91 86.07 108.97 114.15
119.94 131.62 137.65 151.57 168.58 179.06
183.31 188.83 198.88 209.25 219.02 228.83
244.99 249.92 258.72 263.31 271.92 274.57
279.34 294.97 301.54 312.81 322.20 327.23
335.38 348.80 355.40 381.14 392.43 395.19
396.03 412.70 420.36 424.09 426.95 434.97
450.71 460.89 487.01 493.77 523.56 526.46
532.60 536.67 564.40 573.95 625.67 635.67
657.36 660.02 720.49 743.72 757.28 764.91
786.58 789.28 803.90 805.48 854.60 862.11
918.63 923.58 931.31 932.89 933.15 936.27
938.01 942.91 944.21 957.00 981.71 981.93
987.68 1004.43 1017.45 1017.95 1023.74 1043.63
1046.61 1047.29 1050.04 1053.05 1059.97 1062.15
1064.68 1072.76 1076.99 1109.09 1120.49 1123.33
1133.48 1200.41 1201.18 1215.73 1225.24 1228.09
1232.02 1235.06 1260.53 1263.36 1265.99 1266.81
1272.76 1278.76 1291.71 1293.86 1317.84 1322.14
1330.11 1335.83 1387.96 1399.04 1403.16 1410.47
1414.75 1426.64 1430.76 1432.05 1434.33 1457.87

1460.34 1470.78 1475.03 1478.61 1485.86 1490.73
1492.01 1493.51 1496.74 1498.16 1498.61 1502.54
1504.47 1505.79 1508.10 1509.67 1511.42 1528.90
1529.18 1532.77 1534.75 1536.28 1539.12 1636.06
1640.26 1650.51 1653.79 2360.98 3025.63 3034.40
3050.74 3051.59 3055.61 3056.06 3059.93 3061.24
3063.67 3068.65 3069.79 3104.52 3108.58 3120.86
3121.08 3124.56 3127.51 3129.24 3130.84 3131.96
3134.03 3135.26 3140.97 3142.73 3145.55 3150.79
3163.74 3170.36 3195.76 3198.90 3199.32 3209.45
3210.18 3218.41 3219.18

Q1-M

31.51 34.35 48.13 56.28 58.76 68.76
73.80 90.94 92.69 104.39 114.60 126.36
133.50 140.67 158.00 169.61 180.18 185.58
187.26 193.07 204.83 218.39 231.15 233.95
239.40 246.48 251.08 266.62 272.45 275.86
292.08 297.96 304.01 312.41 323.30 326.62
335.92 350.68 352.33 357.93 393.18 396.89
404.62 404.82 421.91 424.85 429.32 434.60
453.12 462.95 485.48 493.81 522.70 526.35
531.02 536.08 565.84 575.51 625.29 633.84
657.41 660.51 718.08 742.72 759.32 766.62
786.44 789.05 803.82 805.86 852.19 860.09
918.76 922.71 931.41 932.35 934.88 938.61
939.22 943.29 943.99 956.40 979.67 984.72
988.49 1005.00 1016.37 1017.07 1024.76 1037.91
1042.56 1047.36 1048.83 1054.27 1057.31 1059.29
1065.11 1072.25 1075.56 1110.96 1122.25 1126.11
1136.05 1199.32 1200.52 1223.05 1225.93 1230.15
1233.73 1244.10 1258.53 1260.25 1263.50 1268.38
1271.32 1278.33 1290.42 1293.36 1316.35 1319.91
1328.95 1334.98 1388.51 1399.27 1404.20 1414.42
1414.74 1426.53 1427.26 1429.40 1431.99 1455.84
1457.51 1470.00 1471.14 1478.07 1485.17 1492.04
1493.90 1495.19 1496.17 1498.71 1499.91 1503.68
1504.46 1506.74 1507.79 1508.79 1511.04 1527.04
1527.48 1532.91 1533.59 1537.83 1539.98 1634.16
1637.24 1649.66 1653.04 2378.70 3027.18 3033.00
3049.98 3052.46 3056.07 3057.26 3059.36 3060.28
3060.67 3068.75 3071.04 3099.38 3100.13 3112.79
3119.71 3121.36 3122.90 3127.79 3128.06 3130.15
3132.53 3134.34 3139.32 3142.04 3144.25 3144.49
3176.48 3177.70 3180.22 3197.75 3198.57 3208.63
3208.72 3217.57 3218.27

Q1-M-TS

-108.41 9.57 38.84 45.94 51.64 62.85
68.70 77.67 78.99 91.28 107.92 118.51
127.10 129.63 132.90 141.75 168.21 181.81
185.68 194.47 204.23 214.17 215.97 227.85
239.26 243.87 247.89 266.73 268.80 274.51
281.80 288.19 295.51 313.51 316.89 328.12
334.34 342.14 348.73 377.13 386.61 396.98
398.68 415.49 416.57 424.92 426.44 435.84

451.25 462.57 487.38 492.98 524.29 526.46
530.99 536.04 564.25 573.97 624.91 634.22
655.68 659.99 719.14 742.40 758.28 765.59
786.43 788.71 804.23 805.90 854.12 861.08
919.26 924.29 931.81 933.11 936.06 938.13
938.67 942.84 945.25 955.84 980.88 986.10
988.88 1006.03 1017.71 1018.07 1024.78 1036.91
1044.34 1046.72 1048.43 1050.41 1059.86 1061.69
1065.75 1069.99 1075.92 1108.35 1118.76 1122.99
1133.14 1199.34 1200.47 1209.76 1225.01 1227.48
1231.26 1234.46 1259.48 1262.34 1264.03 1267.81
1272.63 1277.95 1289.79 1293.42 1316.18 1321.12
1328.86 1335.88 1387.91 1398.29 1402.82 1406.17
1414.13 1428.95 1430.73 1432.51 1433.90 1459.00
1461.68 1464.56 1471.52 1478.19 1485.57 1492.06
1494.47 1495.16 1496.02 1499.20 1500.60 1502.20
1504.69 1507.46 1508.10 1509.19 1512.48 1529.01
1529.32 1532.32 1536.06 1540.09 1540.52 1636.79
1640.20 1650.14 1651.84 2364.02 3026.97 3039.04
3049.47 3055.22 3055.85 3057.61 3060.57 3062.97
3063.45 3067.06 3068.06 3099.70 3114.62 3118.46
3119.08 3119.46 3125.21 3126.59 3127.47 3127.83
3131.23 3133.53 3134.20 3140.74 3147.78 3149.18
3167.28 3168.83 3174.88 3198.45 3198.95 3209.29
3209.55 3218.12 3218.50

Q1-TS'

-645.84 42.04 49.20 64.98 72.12 80.74
85.64 95.97 98.48 106.52 123.89 134.30
136.27 155.06 164.44 180.42 189.37 196.87
207.49 213.43 227.95 233.71 243.36 256.55
260.40 269.58 278.42 282.83 289.32 292.38
302.15 307.22 315.11 331.85 336.73 353.86
355.73 364.62 384.02 399.34 408.86 420.71
423.98 431.08 436.82 440.30 467.16 484.20
486.33 491.27 505.67 520.93 528.48 531.41
534.45 539.49 563.71 577.24 628.07 637.13
658.32 663.62 718.64 745.53 760.44 767.37
785.83 787.36 804.35 806.76 852.23 859.40
861.66 920.36 924.08 928.20 936.23 936.80
943.08 945.67 945.89 954.37 959.11 981.34
988.65 990.72 1005.38 1018.00 1018.50 1022.54
1046.62 1049.51 1050.69 1055.90 1057.97 1060.23
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1273.81 1279.92 1291.80 1294.02 1312.39 1318.41
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1413.19 1425.93 1428.02 1428.88 1431.22 1455.93
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1504.90 1506.99 1508.89 1510.33 1512.10 1528.53
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3062.91 3065.97 3073.26 3105.72 3111.79 3117.80
3122.94 3123.27 3125.57 3126.09 3126.80 3130.42

3131.52 3133.34 3136.38 3137.79 3144.74 3160.75
3172.07 3179.41 3195.21 3202.93 3203.83 3212.89
3214.88 3221.90 3223.56

¹I-TS'

-661.38 36.62 44.40 49.15 56.58 69.81
75.05 83.71 98.12 99.60 110.27 118.44
139.74 147.79 165.85 173.35 180.37 184.09
197.56 201.83 211.73 214.91 231.38 242.56
249.40 257.66 262.07 268.24 275.03 284.14
287.00 287.98 313.82 326.91 327.66 331.38
336.63 352.34 368.97 373.60 392.37 403.91
413.72 418.77 432.40 438.22 446.99 456.97
480.88 489.91 496.25 524.80 525.41 528.91
532.12 538.33 566.86 573.95 627.89 636.11
658.88 661.22 717.77 743.34 755.77 764.84
786.44 789.76 804.40 807.06 852.37 859.84
878.68 918.45 923.79 930.32 931.33 933.75
937.11 945.88 946.35 948.93 958.01 982.61
984.96 987.70 1006.15 1019.64 1021.25 1024.37
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1062.58 1064.53 1072.16 1077.46 1110.61 1121.98
1124.74 1134.69 1202.05 1202.14 1220.20 1222.87
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1491.66 1493.99 1497.70 1498.76 1500.47 1502.66
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1530.64 1533.46 1534.01 1538.23 1538.90 1634.01
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3051.65 3052.60 3055.19 3056.42 3057.83 3062.71
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3212.26 3220.74 3221.01

⁰I-TS'

-655.76 37.41 43.86 56.38 60.48 68.80
74.00 84.14 98.23 107.02 110.45 126.18
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198.37 201.37 212.73 218.25 230.00 242.46
248.32 256.04 260.83 267.15 274.52 283.38
285.15 287.33 312.73 325.49 327.97 331.80
336.97 352.31 370.64 383.70 392.19 404.30
416.52 420.52 432.44 438.48 446.94 456.79
470.67 488.11 496.16 524.32 525.53 527.83
531.28 538.14 566.50 573.76 627.97 636.10
658.84 661.35 717.94 743.45 755.60 764.81
786.58 789.62 804.17 806.85 852.70 860.00
883.31 918.41 923.88 930.41 931.05 933.10
937.25 945.76 946.17 950.29 957.91 982.68
984.71 987.64 1006.09 1019.36 1021.35 1024.54
1044.39 1046.53 1048.99 1050.83 1056.03 1058.01

1063.07 1064.74 1072.20 1077.48 1110.34 1121.71
1124.64 1134.61 1202.02 1202.24 1220.50 1222.98
1232.00 1236.48 1256.91 1263.84 1266.49 1267.41
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3051.87 3052.34 3055.18 3056.12 3057.80 3062.99
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3212.03 3220.38 3220.85

⁰I-TS''

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1492.26 1494.48 1494.84 1499.70 1500.82 1505.57
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1531.24 1537.44 1537.63 1645.17 1647.51 1655.34
1657.12 3055.12 3055.36 3059.16 3059.59 3067.17
3067.46 3071.55 3071.71 3076.20 3076.66 3123.00
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3137.69 3145.49 3145.72 3146.59 3147.05 3156.08
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¹I-TS''

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285.50 290.40 295.78 318.23 325.71 333.37

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 423.20 431.90 436.36 459.02 472.13 491.86
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 1494.17 1497.22 1497.61 1501.68 1502.15 1504.31
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 3057.35 3059.08 3060.70 3066.21 3067.25 3113.14
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Q1-TS''

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 344.89 347.33 356.09 387.49 398.75 414.27
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OS1-TS'''

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 433.74 437.77 441.54 444.11 446.41 467.04
 476.96 495.76 499.63 528.35 532.85 542.52
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 1489.82 1492.56 1493.89 1499.85 1500.61 1503.14
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T1-TS'''

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Q1-TS'''

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CS2

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 167.73 171.86 187.45 193.54 204.65 210.62
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OS2

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 1530.44 1532.54 1535.81 1539.60 1543.64 1632.36
 1637.54 1654.23 1656.89 2392.01 3019.05 3024.18

3048.66 3049.36 3052.67 3053.11 3054.58 3058.81
3064.42 3064.86 3071.36 3097.50 3101.70 3116.03
3118.79 3120.06 3124.56 3125.53 3127.73 3128.25
3132.29 3132.77 3136.17 3141.02 3144.46 3159.29
3164.08 3164.55 3187.13 3200.37 3200.55 3210.84
3211.02 3219.91 3220.01

T₂

34.45 41.78 45.68 49.47 63.58 71.94
80.10 88.27 97.85 114.50 124.40 134.58
145.92 161.08 166.78 183.42 190.97 197.37
217.49 223.89 232.05 235.72 242.30 244.98
253.90 266.72 273.42 276.60 283.53 287.41
294.49 301.52 315.01 321.21 329.10 337.59
352.67 355.45 376.36 392.33 397.07 415.58
417.97 423.58 426.21 427.90 436.38 466.85
482.57 486.77 494.31 523.16 524.05 526.69
533.59 541.46 563.17 576.72 629.12 638.23
657.89 662.38 721.15 744.74 762.90 767.72
785.94 788.50 804.17 805.47 855.09 861.94
919.51 922.75 928.62 937.36 939.93 942.62
943.02 944.17 948.78 958.82 975.57 989.76
990.61 1005.95 1017.38 1017.59 1024.22 1049.22
1049.35 1050.03 1053.57 1055.59 1057.19 1059.05
1065.58 1078.96 1082.50 1117.25 1128.43 1136.72
1146.06 1202.23 1202.57 1224.55 1228.38 1233.28
1237.33 1238.51 1256.53 1264.61 1267.95 1271.15
1272.66 1280.32 1289.19 1297.60 1314.15 1318.44
1328.68 1335.56 1387.48 1400.18 1401.66 1412.39
1414.12 1426.42 1429.20 1432.28 1434.06 1456.75
1461.87 1468.56 1470.39 1476.99 1486.08 1490.30
1493.50 1494.55 1496.09 1497.99 1500.28 1503.97
1506.33 1508.42 1509.39 1509.88 1511.64 1526.51
1530.46 1532.25 1536.58 1539.21 1544.51 1632.57
1637.43 1654.84 1657.88 2394.09 3016.54 3025.74
3047.35 3049.94 3050.05 3052.62 3053.53 3058.31
3064.82 3064.93 3071.44 3101.56 3101.73 3114.46
3117.91 3120.46 3123.87 3125.26 3127.17 3128.93
3132.36 3133.19 3138.77 3141.89 3142.67 3156.90
3164.71 3166.14 3186.10 3200.71 3200.88 3211.42
3211.53 3220.20 3220.38

Q₂

43.74 44.87 47.59 74.59 80.91 84.70
93.15 100.61 103.13 111.90 120.36 129.82
135.15 141.93 149.91 166.39 181.53 186.37
189.16 205.38 210.29 223.23 226.79 244.66
245.71 259.76 266.95 273.93 276.60 291.29
297.70 300.77 313.96 320.14 329.27 338.51
348.63 349.32 357.22 387.26 390.20 395.85
411.26 416.31 424.31 426.49 435.14 448.54
458.08 486.70 494.13 513.91 527.11 530.33
536.29 564.03 573.83 613.39 626.46 635.75
659.16 679.25 723.09 754.72 759.83 767.43
787.03 794.42 805.70 808.52 859.32 861.96
919.01 925.52 930.60 932.62 937.32 937.88

940.41 943.54 945.01 956.62 977.85 990.19
994.31 1008.39 1019.26 1019.64 1025.76 1042.48
1045.63 1048.01 1048.24 1051.81 1055.29 1060.56
1067.13 1074.80 1075.32 1109.89 1119.77 1125.17
1130.81 1199.96 1200.22 1223.29 1225.30 1230.44
1234.98 1257.82 1262.82 1263.61 1268.09 1272.34
1276.60 1281.84 1294.88 1300.67 1317.27 1320.55
1330.49 1340.66 1386.59 1399.73 1401.53 1409.44
1413.31 1430.56 1432.15 1433.02 1436.02 1459.65
1460.63 1463.18 1466.93 1478.32 1485.47 1490.85
1494.75 1494.86 1496.13 1499.62 1500.88 1504.24
1506.33 1508.12 1508.82 1509.98 1511.33 1529.99
1530.69 1533.49 1536.73 1540.09 1542.05 1636.59
1640.47 1651.17 1653.58 2334.62 3037.04 3040.54
3052.15 3054.04 3057.54 3058.56 3060.13 3061.09
3062.80 3068.62 3071.32 3107.70 3108.83 3121.71
3122.51 3123.46 3124.51 3129.72 3129.77 3130.61
3131.67 3134.58 3135.93 3145.02 3145.20 3152.08
3156.23 3177.94 3193.59 3199.95 3200.21 3210.73
3211.43 3219.45 3220.01

OS₂-TS

-578.53 50.88 56.75 60.09 64.33 79.10
90.28 100.38 116.77 125.23 133.99 146.63
165.22 169.73 183.37 190.06 195.03 208.68
215.97 226.97 231.92 243.35 250.67 257.21
266.94 276.03 276.81 279.90 289.25 295.60
299.01 313.03 318.73 323.07 336.79 343.42
353.59 376.12 382.45 392.48 397.28 410.24
419.31 431.21 439.46 460.35 474.38 481.54
487.38 491.16 495.34 522.75 527.49 533.63
538.18 557.43 563.28 579.22 627.76 638.66
659.18 665.10 719.84 744.41 762.65 768.52
788.03 788.42 804.62 806.23 849.06 859.34
912.60 919.68 924.76 929.15 933.98 937.35
939.75 945.75 946.83 959.36 979.83 989.13
990.80 1005.20 1011.13 1018.64 1019.54 1026.69
1049.28 1051.88 1053.08 1056.45 1057.51 1059.17
1066.62 1074.41 1078.43 1083.00 1114.16 1126.56
1129.50 1139.97 1202.08 1202.85 1222.87 1224.29
1236.08 1240.74 1255.80 1265.35 1268.86 1270.34
1274.03 1280.98 1290.14 1299.69 1314.67 1319.59
1326.78 1334.86 1387.80 1400.44 1401.04 1406.27
1413.07 1427.72 1429.63 1431.93 1433.94 1455.64
1460.52 1470.25 1476.66 1477.47 1485.60 1488.25
1491.81 1494.05 1495.51 1498.84 1500.47 1502.48
1506.67 1509.10 1511.02 1511.96 1514.00 1525.32
1531.07 1532.42 1535.48 1541.16 1543.28 1636.28
1638.49 1655.93 1659.53 2024.33 3032.47 3034.24
3052.17 3052.45 3054.60 3056.80 3059.48 3061.31
3063.56 3067.25 3069.07 3112.39 3115.60 3119.73
3121.03 3123.39 3123.79 3127.28 3127.65 3131.12
3132.41 3132.92 3135.13 3145.74 3145.99 3154.87
3163.11 3192.82 3201.96 3203.42 3205.40 3212.76
3214.70 3221.18 3222.77

T₂-TS

-377.46	51.07	57.85	59.09	78.16	79.45
89.94	102.18	106.28	112.45	124.97	138.41
161.27	164.47	188.41	192.11	201.03	204.93
218.75	226.03	234.93	244.35	257.05	260.92
269.26	273.02	283.11	284.85	290.97	296.94
303.56	313.83	318.68	320.56	337.35	340.15
355.68	375.60	391.76	397.35	409.90	412.50
421.52	429.15	437.13	468.81	485.87	487.63
490.49	493.52	522.15	522.79	525.99	532.98
536.38	564.40	576.74	627.62	637.15	643.70
657.79	664.30	720.21	746.09	763.16	768.65
786.11	788.36	804.95	806.72	853.81	860.93
920.30	923.86	928.83	933.25	939.43	943.21
944.94	945.89	958.43	959.61	977.98	982.98
991.14	1007.94	1018.71	1020.31	1024.47	1042.27
1048.77	1048.88	1050.60	1052.63	1057.67	1059.39
1064.63	1078.75	1082.00	1118.28	1129.85	1137.53
1146.82	1149.69	1203.08	1203.54	1224.66	1226.23
1237.16	1240.04	1257.53	1262.46	1267.73	1270.66
1273.90	1281.30	1292.25	1294.85	1313.48	1317.92
1326.33	1334.21	1388.80	1400.70	1401.60	1407.87
1414.29	1425.95	1428.89	1430.22	1433.34	1455.78
1457.79	1473.59	1476.23	1480.84	1486.34	1490.75
1492.69	1494.92	1495.56	1498.27	1499.95	1503.46
1504.87	1506.85	1509.43	1511.01	1512.75	1526.92
1528.49	1533.20	1533.71	1539.41	1541.03	1633.01
1635.99	1657.30	1658.93	1993.22	3021.18	3024.52
3050.11	3051.42	3053.58	3056.02	3058.13	3060.02
3060.67	3069.96	3073.77	3103.82	3105.98	3119.49
3121.16	3122.98	3125.29	3125.97	3128.51	3129.31
3132.31	3132.75	3132.87	3136.62	3148.06	3152.37
3157.79	3201.80	3202.04	3202.60	3204.42	3212.88
3213.48	3221.33	3221.81			

Q2-TS

-87.59	37.37	44.22	59.33	66.95	78.08
86.06	97.18	105.69	106.52	114.90	126.34
149.08	162.38	167.48	180.88	191.71	206.18
210.12	219.20	234.33	243.11	250.71	259.09
269.57	274.03	277.46	281.45	289.03	293.34
307.46	308.80	316.98	329.47	329.99	343.09
352.32	363.24	373.57	374.54	390.48	399.62
410.55	429.01	436.40	448.55	459.19	485.53
496.09	521.21	523.48	528.74	534.28	564.39
569.84	571.54	624.05	627.24	635.07	654.95
658.31	719.26	742.03	758.20	763.75	783.73
789.28	805.47	806.74	849.29	858.82	883.33
918.61	923.98	930.06	930.30	933.30	938.91
947.22	947.63	958.13	980.35	980.88	989.39
1004.22	1011.63	1021.24	1021.65	1025.01	1038.49
1045.91	1046.80	1047.94	1049.53	1057.77	1062.80
1072.93	1077.20	1109.98	1118.57	1126.59	1132.65
1136.60	1153.91	1202.14	1202.61	1221.29	1223.30
1232.52	1235.51	1255.95	1258.75	1264.53	1268.02
1275.88	1280.36	1293.15	1295.90	1320.44	1320.82
1332.90	1338.43	1389.00	1400.12	1403.06	1411.25

1414.42	1424.78	1428.13	1431.64	1434.67	1456.19
1456.89	1476.80	1483.97	1484.60	1487.40	1489.39
1491.15	1494.40	1496.46	1498.84	1500.26	1502.99
1504.21	1506.41	1508.08	1509.33	1510.63	1529.10
1530.16	1530.94	1533.10	1538.27	1540.21	1636.43
1638.34	1652.19	1653.40	1835.36	3028.95	3029.08
3049.46	3050.55	3053.52	3054.81	3056.41	3056.60
3059.90	3065.92	3071.69	3113.80	3114.38	3120.52
3121.43	3121.65	3124.93	3125.38	3127.81	3128.36
3128.48	3131.41	3133.49	3134.20	3144.96	3151.75
3171.16	3180.03	3200.74	3200.86	3211.58	3211.70
3214.27	3220.32	3220.52			

CS3

53.40	59.82	77.65	86.89	95.01	106.48
115.42	121.32	123.78	142.53	145.50	181.65
193.60	199.89	202.84	223.07	231.96	238.31
243.77	256.67	261.91	271.10	277.75	282.19
286.77	293.02	296.80	309.30	318.96	324.27
334.59	336.98	341.36	352.51	364.50	380.26
395.25	401.38	411.60	425.36	438.48	438.97
446.63	467.75	490.36	495.20	496.60	530.05
534.51	537.36	538.63	548.23	558.01	581.05
603.96	618.35	623.84	640.18	665.08	674.78
713.63	739.39	745.17	761.36	769.01	792.08
793.15	803.68	805.85	844.89	849.64	869.69
907.40	911.69	927.19	928.87	931.40	938.72
950.77	951.76	957.83	958.43	983.95	986.23
993.99	1018.66	1019.98	1023.73	1027.71	1032.42
1041.47	1042.20	1054.53	1055.48	1056.72	1061.05
1065.72	1068.82	1076.56	1098.84	1103.78	1118.71
1123.52	1199.67	1200.93	1213.61	1215.41	1225.27
1235.01	1243.88	1256.70	1262.49	1265.73	1267.73
1274.42	1281.97	1294.65	1302.18	1308.13	1314.71
1332.62	1339.58	1390.05	1399.21	1400.87	1405.15
1409.93	1430.17	1431.94	1434.02	1434.49	1460.72
1461.40	1472.35	1476.38	1483.26	1484.34	1484.78
1489.68	1493.78	1495.28	1499.70	1501.55	1503.26
1505.88	1514.96	1516.11	1518.96	1519.20	1528.66
1530.92	1534.08	1535.11	1546.57	1548.47	1646.11
1648.25	1657.93	1660.39	1693.15	3051.82	3055.60
3055.83	3056.34	3058.57	3067.34	3070.03	3070.46
3073.59	3075.91	3078.44	3118.84	3121.31	3124.57
3125.68	3126.88	3127.42	3133.52	3134.75	3140.24
3146.19	3146.97	3147.08	3150.63	3151.28	3155.65
3170.67	3204.73	3205.93	3214.83	3216.83	3217.92
3224.00	3224.95	3237.83			

T3

51.15	56.37	71.92	80.31	83.44	90.21
103.47	108.36	110.14	121.30	147.79	160.80
173.34	187.40	193.94	211.50	216.79	224.77
236.48	241.51	253.76	260.50	269.51	274.04
281.04	286.67	293.24	295.47	305.90	315.89
318.02	329.01	332.87	345.05	349.18	364.67
387.90	396.17	409.27	420.57	422.58	429.38

438.57 461.91 475.87 488.24 493.53 519.74
526.01 530.08 531.35 540.59 563.62 578.21
599.11 612.19 625.94 636.16 658.31 663.73
716.65 719.70 742.66 759.70 767.67 787.54
789.19 804.66 806.77 849.91 856.60 865.89
919.24 924.67 930.72 932.90 935.55 938.41
945.65 947.32 951.53 959.13 981.89 986.47
988.35 1010.88 1019.57 1021.15 1026.43 1027.57
1046.55 1047.61 1050.00 1054.50 1055.95 1060.16
1066.35 1072.98 1076.06 1113.22 1124.21 1128.39
1137.92 1202.02 1202.22 1219.14 1219.88 1226.56
1234.43 1239.19 1257.05 1263.02 1266.27 1268.23
1273.38 1280.50 1293.99 1298.11 1313.35 1318.00
1326.45 1334.43 1389.35 1399.88 1401.21 1406.72
1412.59 1428.92 1430.42 1431.35 1434.35 1458.98
1459.15 1476.85 1480.19 1483.52 1484.38 1487.72
1489.98 1494.12 1495.36 1499.42 1499.61 1503.65
1504.81 1508.53 1510.15 1512.19 1513.66 1528.26
1529.61 1534.41 1534.64 1540.12 1542.94 1635.69
1638.24 1639.68 1656.32 1657.50 3040.02 3040.85
3052.75 3054.45 3054.66 3058.86 3058.90 3059.34
3062.43 3071.73 3077.28 3112.29 3115.11 3120.95
3124.65 3125.26 3126.50 3128.00 3129.92 3130.41
3132.82 3135.81 3136.39 3141.48 3145.96 3148.85
3174.69 3203.29 3203.33 3207.23 3214.01 3214.35
3222.25 3222.51 3223.97

Q3

41.71 46.05 47.08 69.65 72.01 79.72
83.59 101.69 108.28 112.45 130.22 150.61
156.77 176.84 180.89 184.97 200.05 207.67
220.40 224.70 242.02 247.93 258.73 264.37
267.90 274.28 281.09 284.37 288.31 298.16
303.90 317.40 330.93 333.35 341.02 344.08
351.52 377.55 395.63 403.78 407.30 422.96
428.65 437.21 449.18 459.79 487.19 493.30
524.96 528.49 530.67 537.08 546.48 565.38
566.39 576.50 624.45 633.99 649.48 657.29
660.61 717.55 741.80 758.53 765.37 787.59
788.95 805.07 806.45 849.88 857.48 873.84
918.05 924.72 928.61 930.52 935.59 936.74
938.45 945.64 948.47 957.24 981.86 987.79
989.32 1008.78 1019.35 1020.60 1022.72 1026.67
1040.23 1046.20 1047.19 1049.64 1053.38 1058.88
1065.58 1070.30 1073.73 1108.63 1118.52 1122.19
1130.50 1200.09 1200.91 1219.34 1221.12 1230.82
1233.42 1235.71 1256.09 1262.67 1264.41 1266.76
1273.00 1278.60 1289.41 1299.85 1315.07 1318.17
1330.45 1337.06 1387.84 1399.59 1401.31 1407.47
1412.73 1428.07 1428.89 1431.14 1433.61 1456.34
1459.20 1476.84 1477.55 1481.27 1484.50 1487.74
1490.80 1493.05 1495.33 1497.61 1499.92 1503.64
1505.20 1508.61 1509.58 1510.34 1511.62 1527.64
1528.50 1532.90 1535.11 1539.73 1540.89 1636.60
1640.00 1650.44 1652.67 1653.89 3041.23 3043.37
3053.35 3054.61 3056.37 3059.06 3060.66 3061.24
3063.08 3071.45 3075.85 3111.68 3118.13 3119.67

3122.25 3123.74 3125.93 3129.75 3130.07 3131.59
3133.15 3134.42 3138.01 3138.59 3144.93 3154.41
3172.26 3201.03 3201.43 3207.03 3211.90 3212.55
3216.89 3220.63 3220.74

^{Os}3-TS

-621.79 49.47 58.44 64.52 69.15 86.78
94.73 104.87 116.21 125.20 126.72 139.76
166.17 173.04 193.96 198.19 206.78 213.13
231.77 243.41 251.67 257.30 263.37 269.37
279.17 282.75 290.07 295.48 301.12 306.91
314.08 319.65 331.99 338.68 348.66 358.11
362.76 385.35 393.79 396.13 410.85 424.74
432.88 444.84 462.64 478.58 484.92 494.94
502.96 510.26 523.27 530.66 534.24 544.11
557.47 576.60 597.68 605.43 623.67 635.61
661.90 671.78 714.61 742.79 759.62 766.56
789.16 790.35 804.12 806.05 841.99 845.88
850.55 911.82 915.64 926.62 929.99 932.63
939.33 948.91 951.46 957.70 983.46 988.86
991.74 1001.95 1019.44 1020.10 1020.47 1030.10
1032.92 1043.70 1044.57 1049.68 1055.22 1059.08
1062.88 1066.91 1074.47 1101.58 1106.84 1118.79
1122.95 1200.52 1200.80 1211.99 1215.65 1227.31
1234.59 1242.15 1257.21 1263.78 1265.79 1268.22
1274.49 1281.42 1292.84 1300.50 1310.07 1316.20
1330.72 1337.98 1389.32 1390.84 1399.11 1401.20
1409.99 1427.38 1429.83 1432.08 1434.52 1459.38
1460.65 1468.93 1473.46 1475.58 1476.81 1482.71
1486.16 1488.55 1492.98 1494.09 1500.96 1501.32
1503.09 1504.10 1513.47 1515.22 1516.83 1517.61
1527.34 1530.88 1533.74 1534.90 1546.54 1550.81
1643.76 1645.95 1656.69 1658.13 3051.12 3052.81
3054.19 3056.83 3058.70 3063.24 3063.69 3066.21
3070.25 3070.35 3072.69 3119.17 3122.28 3124.21
3126.25 3126.45 3128.23 3129.53 3135.53 3136.14
3138.13 3140.67 3145.93 3146.68 3147.92 3154.69
3154.98 3203.66 3204.85 3205.38 3210.81 3216.63
3216.91 3223.83 3224.46

^T3-TS

-493.67 50.81 54.82 66.53 81.11 88.73
92.66 97.35 111.84 122.15 125.85 140.29
154.42 157.60 180.41 185.21 189.56 201.86
211.79 227.00 239.67 248.55 250.88 260.27
268.14 277.22 282.93 287.42 290.22 296.04
299.16 309.92 321.26 324.40 335.42 345.04
354.11 354.71 390.90 399.35 413.78 424.08
428.02 433.29 438.88 459.60 470.22 490.05
493.57 522.38 525.88 528.94 536.69 538.33
560.46 570.92 573.89 624.51 633.27 656.53
659.35 719.18 742.82 757.18 765.29 786.07
789.20 804.42 806.53 816.64 849.71 854.55
859.88 919.42 925.01 931.96 933.76 938.03
939.05 945.30 946.05 958.80 982.18 986.96
988.68 990.69 1009.68 1019.67 1020.55 1026.02

1039.05 1040.33 1046.13 1049.27 1051.49 1059.79
 1066.41 1073.15 1076.49 1111.22 1122.34 1127.03
 1136.56 1201.89 1202.05 1220.74 1221.59 1234.06
 1238.18 1257.22 1262.81 1266.36 1268.27 1272.66
 1278.53 1280.19 1292.52 1295.67 1314.91 1320.84
 1327.76 1335.12 1383.39 1389.20 1399.21 1402.70
 1412.76 1429.95 1431.80 1432.65 1432.82 1442.11
 1460.68 1460.88 1472.35 1476.48 1483.02 1487.18
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 1504.09 1505.27 1509.20 1510.04 1511.93 1513.32
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 3052.26 3052.92 3056.14 3056.21 3057.88 3058.95
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 3122.30 3123.52 3127.34 3127.63 3130.90 3132.51
 3133.51 3135.91 3137.87 3139.75 3148.41 3151.78
 3158.76 3187.18 3197.67 3201.58 3202.34 3212.30
 3212.98 3220.57 3221.58

Q3-TS

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 93.64 100.12 113.57 120.00 133.67 152.54
 155.88 173.25 182.74 188.52 196.13 210.59
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 316.31 320.97 325.88 327.31 335.56 349.89
 357.66 376.72 381.51 399.12 407.58 423.70
 431.00 438.88 443.74 457.52 464.65 488.80
 495.92 525.13 530.35 531.96 538.56 546.52
 566.19 577.48 593.20 620.85 625.73 635.81
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 1133.89 1201.43 1201.62 1218.85 1223.44 1232.90
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Q4

49.87 53.34 63.76 79.69 82.25 101.76

108.00 117.02 126.77 129.57 135.72 142.78
 168.02 181.43 190.04 197.54 209.72 222.86
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 3217.42 3223.07 3224.74

T4

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Q4

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Q4-TS

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T4-TS

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 253.89 267.02 276.64 281.04 288.86 295.86
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 429.03 436.77 445.27 465.12 476.53 488.00
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 3132.90 3135.05 3135.26 3137.00 3137.51 3146.77

3162.54 3187.34 3198.81 3204.88 3205.27 3215.80
3216.09 3223.37 3223.96

Q4-TS

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289.75 291.66 297.03 313.95 324.38 327.15
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419.73 432.14 437.77 448.34 458.40 477.83
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563.67 573.87 575.56 625.63 628.26 634.97
657.84 662.51 717.94 740.79 742.36 756.95
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3122.69 3124.34 3125.63 3129.99 3130.12 3133.15
3135.10 3136.74 3137.68 3144.40 3176.31 3179.19
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3213.52 3220.35 3221.68

Q5

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320.48 330.73 337.14 345.63 360.36 364.16
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3160.68 3185.85 3189.92 3205.52 3206.66 3217.68
3218.27 3224.99 3225.23

T5

47.67 53.25 69.90 77.03 88.13 92.96
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272.46 275.88 281.63 287.32 294.44 302.33
310.61 319.99 333.15 336.67 341.89 359.09
365.78 396.79 400.74 402.48 424.36 426.47
429.46 434.93 436.66 462.00 474.73 490.64
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662.95 718.10 742.63 757.13 765.25 787.75
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Q5

48.36 53.56 68.54 77.66 89.74 93.46
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273.67	280.04	283.61	288.49	295.54	302.89
309.93	321.08	333.59	338.63	341.69	359.81
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560.66	576.04	622.19	627.36	635.19	657.47
663.46	717.92	742.59	757.46	765.57	787.88
789.72	805.74	808.21	845.80	850.99	856.97
876.79	920.82	925.28	932.68	933.87	937.92
940.58	944.33	947.02	960.66	980.68	982.05
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1136.53	1203.48	1203.73	1218.25	1219.46	1236.26
1241.00	1259.02	1262.92	1267.11	1270.28	1274.85
1281.61	1293.35	1294.75	1303.54	1312.68	1319.74
1324.16	1334.29	1391.10	1392.07	1401.09	1404.63
1412.99	1425.68	1428.34	1430.71	1432.11	1455.31
1459.69	1475.67	1477.29	1479.38	1482.61	1489.74
1491.61	1494.20	1495.83	1499.47	1502.02	1505.27
1507.56	1510.49	1511.01	1513.36	1515.30	1526.45
1529.72	1532.87	1536.38	1542.02	1542.98	1631.32
1637.82	1640.42	1655.24	1656.74	3031.39	3043.35
3050.72	3052.65	3053.72	3057.16	3059.94	3060.31
3064.11	3068.41	3075.43	3091.52	3115.03	3115.33
3119.81	3124.36	3124.51	3124.72	3128.41	3131.02
3133.19	3135.50	3135.86	3143.48	3149.36	3160.73
3160.96	3175.50	3180.63	3204.73	3205.12	3215.78
3216.76	3223.64	3224.13			

05-TS

-195.68	37.83	53.83	71.39	85.14	89.54
101.57	104.98	114.77	117.15	130.47	138.38
139.51	152.50	185.44	191.40	200.08	210.66
215.27	236.79	244.05	253.54	258.52	263.25
274.55	276.95	284.95	290.65	292.47	308.07
319.62	324.82	333.36	341.32	356.85	361.42
374.40	386.62	399.14	413.08	424.05	432.42
437.82	446.69	465.22	478.36	494.29	498.13
502.49	528.50	530.07	535.49	543.87	557.91
578.10	582.83	611.11	623.07	630.90	661.35
668.67	701.88	715.36	750.05	762.06	766.96
790.50	804.69	806.87	818.89	850.73	891.42
905.38	915.92	921.47	931.15	932.65	941.59
946.36	947.98	949.94	959.47	981.58	997.93
1005.01	1013.65	1016.81	1021.66	1022.85	1031.56
1047.14	1048.39	1052.60	1054.62	1057.14	1065.51
1069.01	1076.49	1105.61	1112.87	1113.74	1127.74
1133.91	1202.46	1202.71	1215.70	1218.08	1235.74
1242.67	1258.41	1265.70	1271.05	1274.19	1277.54
1285.19	1296.08	1300.19	1313.86	1316.71	1325.47
1333.40	1336.73	1389.70	1393.98	1400.71	1405.38
1409.24	1423.72	1428.77	1430.15	1432.67	1455.71
1459.22	1475.35	1481.04	1481.43	1485.04	1488.17
1491.93	1493.36	1495.41	1497.04	1502.01	1503.12
1506.28	1508.73	1511.93	1515.13	1517.07	1526.58

1531.60	1532.75	1536.63	1538.66	1553.67	1603.95
1636.80	1639.64	1657.33	1660.15	3050.69	3052.04
3054.96	3056.62	3058.06	3060.40	3061.00	3064.80
3068.02	3072.55	3075.12	3121.10	3122.00	3122.56
3124.87	3126.31	3129.09	3130.47	3132.82	3135.46
3136.26	3136.94	3137.85	3144.17	3150.81	3158.02
3167.60	3186.16	3197.67	3205.47	3205.83	3217.39
3217.67	3224.47	3224.97			

T5-TS

-250.89	40.07	52.86	73.31	79.78	91.66
94.25	100.92	106.61	112.92	129.37	132.03
140.17	153.40	168.18	182.18	189.43	198.89
210.28	225.00	230.18	239.78	249.09	250.48
255.59	268.86	277.46	281.64	288.95	303.47
309.35	315.99	323.26	335.31	337.55	356.96
359.03	385.65	396.97	402.07	419.09	425.72
429.97	436.92	461.20	472.20	481.93	489.09
493.44	523.67	527.27	529.97	535.32	541.39
561.43	578.17	602.74	625.78	635.55	657.57
665.62	713.73	717.64	744.12	758.58	767.01
788.80	789.57	805.46	808.50	849.40	858.45
882.84	920.56	924.68	931.06	933.84	938.71
941.10	945.09	946.83	960.84	980.72	989.77
993.11	1000.78	1010.95	1022.24	1022.70	1027.66
1050.40	1051.01	1051.97	1053.50	1056.57	1060.34
1067.98	1073.33	1079.55	1114.46	1126.11	1129.28
1139.30	1203.40	1203.70	1218.85	1221.62	1236.17
1240.87	1258.16	1266.53	1268.05	1269.81	1273.81
1281.52	1293.52	1294.75	1309.94	1314.29	1319.00
1324.48	1333.04	1389.97	1394.12	1399.58	1403.03
1412.27	1424.98	1428.88	1430.21	1432.01	1456.05
1459.04	1476.96	1479.09	1482.69	1484.66	1490.46
1493.97	1494.48	1495.02	1497.31	1500.90	1503.97
1506.93	1509.32	1509.71	1512.63	1513.45	1528.31
1530.20	1534.15	1535.92	1538.27	1547.39	1626.66
1633.16	1636.70	1656.70	1658.18	3036.30	3041.84
3051.99	3054.13	3055.81	3057.30	3059.00	3061.17
3062.31	3067.05	3076.03	3111.94	3113.23	3120.30
3123.17	3124.79	3128.54	3130.58	3130.92	3131.58
3133.09	3134.56	3135.24	3141.95	3147.00	3161.16
3163.60	3183.16	3188.40	3204.38	3204.71	3215.51
3216.31	3223.46	3223.77			

Q5-TS

-382.94	43.44	50.98	71.60	72.82	78.48
86.93	91.53	100.19	103.12	118.22	129.24
137.47	159.06	172.24	185.54	194.44	199.55
203.91	224.37	229.93	234.39	240.71	248.41
248.69	267.18	270.75	273.88	284.57	295.47
302.70	315.27	322.59	330.50	332.69	352.21
355.47	358.53	391.27	399.98	408.17	416.65
424.12	429.81	435.83	444.31	453.04	463.84
490.53	493.65	527.29	528.79	535.71	539.01
562.26	573.99	578.09	624.69	635.47	657.19
662.80	718.76	741.85	758.23	759.25	765.74

787.91 790.35 805.13 808.04 838.44 851.25
 858.87 919.46 926.13 928.11 933.33 935.86
 938.88 944.46 946.11 958.59 982.88 988.53
 993.83 1007.85 1010.65 1020.94 1022.49 1026.97
 1043.36 1048.01 1048.47 1051.08 1052.80 1060.04
 1067.64 1070.71 1076.15 1108.10 1118.54 1121.52
 1130.19 1201.08 1201.74 1218.83 1221.15 1232.96
 1237.46 1258.46 1265.26 1266.69 1268.04 1272.87
 1279.51 1289.70 1293.44 1313.25 1319.99 1327.73
 1334.47 1336.87 1388.00 1396.24 1397.63 1402.43
 1412.08 1429.35 1430.60 1431.65 1432.33 1458.87
 1459.98 1477.86 1483.06 1485.80 1490.02 1490.94
 1494.69 1494.86 1497.55 1498.46 1501.30 1505.42
 1505.78 1509.16 1509.40 1510.96 1512.29 1526.96
 1530.23 1535.02 1535.43 1538.50 1548.64 1619.13
 1635.90 1639.31 1652.70 1653.98 3042.75 3044.06
 3053.77 3055.54 3058.18 3060.12 3060.71 3062.26
 3065.00 3067.81 3073.24 3115.57 3116.16 3120.31
 3124.26 3125.49 3127.06 3127.89 3130.37 3132.99
 3134.18 3134.76 3135.11 3137.51 3142.59 3162.41
 3180.45 3181.71 3182.31 3202.49 3202.88 3213.79
 3213.84 3221.79 3221.92

os6

32.56 43.11 50.39 63.79 68.26 75.55
 85.07 90.07 97.01 103.12 114.60 127.59
 152.60 168.65 184.77 190.81 201.19 211.43
 218.76 228.66 240.19 248.07 254.16 261.50
 275.31 277.54 280.81 283.98 285.71 304.08
 308.21 316.23 322.84 329.35 342.49 349.05
 369.50 379.87 386.66 396.26 406.93 417.21
 431.85 437.94 463.18 482.74 485.96 492.59
 522.55 526.43 531.52 536.47 558.88 562.23
 566.88 576.44 621.58 629.19 640.45 660.00
 664.46 719.37 745.07 759.46 767.71 785.66
 788.44 803.48 806.36 851.86 859.08 896.44
 919.57 924.01 928.22 932.01 934.82 939.92
 943.71 944.65 958.88 978.20 982.56 988.69
 1007.00 1017.35 1020.00 1023.36 1037.70 1044.02
 1045.98 1047.39 1053.83 1058.10 1060.15 1064.67
 1075.73 1079.94 1113.51 1127.74 1129.61 1141.21
 1202.38 1203.73 1222.76 1224.11 1236.70 1239.78
 1248.17 1256.22 1262.70 1266.54 1270.13 1272.59
 1280.70 1289.09 1291.79 1313.91 1319.43 1327.22
 1334.12 1370.82 1385.84 1397.74 1401.50 1407.34
 1413.41 1427.87 1428.92 1429.97 1432.07 1457.32
 1457.46 1471.33 1476.98 1479.69 1486.73 1491.04
 1492.99 1495.84 1498.20 1498.95 1499.78 1503.20
 1505.55 1506.80 1509.96 1511.49 1513.06 1529.31
 1529.92 1531.96 1533.65 1542.19 1542.42 1631.73
 1637.95 1655.76 1657.65 1729.28 3021.30 3029.84
 3050.89 3052.76 3054.37 3054.58 3058.66 3061.78
 3062.57 3068.56 3074.73 3110.04 3110.63 3116.17
 3122.74 3125.02 3125.67 3127.09 3128.19 3128.26
 3129.96 3131.92 3133.28 3136.89 3140.09 3165.45
 3177.72 3183.21 3197.65 3202.01 3203.03 3212.71
 3213.56 3221.53 3222.15

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36.55 42.15 51.16 57.46 69.38 76.90
 86.11 97.55 106.27 108.98 119.01 128.99
 154.15 170.33 185.06 192.25 200.86 210.27
 219.11 228.52 241.78 247.80 252.92 262.05
 274.76 278.27 280.97 284.35 287.53 304.56
 308.93 318.04 326.78 330.63 343.86 353.35
 370.57 377.14 385.51 396.62 406.34 417.02
 433.27 439.61 462.01 482.54 486.70 493.17
 523.81 527.69 532.02 537.97 559.24 561.84
 563.16 576.30 627.97 630.29 641.34 660.92
 665.52 719.10 744.72 758.34 767.90 786.01
 789.42 803.62 806.88 852.18 859.44 900.26
 919.68 924.40 928.68 931.74 933.85 939.38
 943.60 945.39 959.29 978.25 981.47 988.23
 1008.10 1016.67 1020.64 1024.09 1040.23 1041.92
 1044.53 1046.81 1053.48 1057.92 1060.62 1064.99
 1074.94 1079.48 1111.75 1125.41 1128.11 1139.34
 1201.19 1203.84 1221.87 1223.52 1236.30 1240.13
 1255.52 1258.54 1262.45 1266.48 1270.14 1272.47
 1281.11 1288.84 1291.73 1314.23 1321.29 1327.26
 1334.79 1374.79 1385.84 1397.34 1402.24 1406.95
 1413.37 1428.27 1429.11 1430.49 1432.23 1457.86
 1458.18 1469.92 1477.12 1478.62 1486.82 1490.89
 1492.63 1496.72 1497.67 1498.50 1499.52 1502.94
 1505.02 1506.64 1509.90 1511.57 1513.04 1528.48
 1530.13 1531.83 1533.89 1541.87 1542.11 1631.98
 1639.66 1655.47 1657.46 1726.95 3023.11 3031.68
 3051.27 3052.03 3054.89 3054.99 3059.33 3061.86
 3062.56 3069.90 3074.33 3110.30 3114.19 3116.59
 3122.85 3125.22 3125.72 3126.06 3126.98 3128.68
 3129.80 3132.22 3133.78 3138.36 3144.90 3172.58
 3176.19 3183.34 3202.19 3202.33 3203.21 3212.55
 3213.83 3221.55 3222.21

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31.86 39.51 45.22 51.01 68.68 71.94
 81.29 86.93 93.52 100.59 107.29 118.70
 151.89 158.50 172.28 183.27 184.59 202.48
 213.99 222.96 234.67 241.40 250.39 260.47
 261.52 269.64 276.32 279.93 291.03 294.07
 306.85 316.10 322.36 324.19 332.59 353.83
 355.14 358.36 376.78 396.56 407.47 419.44
 429.58 435.31 447.71 457.29 485.26 493.68
 524.94 528.09 531.41 537.03 539.52 565.37
 573.48 575.00 610.52 626.11 635.91 658.44
 662.06 718.25 741.84 757.07 764.68 786.72
 789.42 804.75 807.11 850.92 857.88 863.68
 917.76 924.95 927.33 931.39 934.67 935.01
 943.84 945.05 956.53 981.63 984.83 988.01
 1005.63 1018.91 1019.72 1021.90 1024.85 1042.93
 1044.11 1045.82 1046.00 1051.24 1059.57 1065.83
 1070.96 1074.78 1107.52 1116.88 1122.11 1130.64
 1200.75 1201.92 1219.95 1222.09 1231.57 1232.11
 1236.19 1260.05 1262.79 1264.99 1265.97 1272.39

1278.91 1288.74 1294.74 1315.59 1318.59 1321.34
1328.63 1334.44 1386.52 1397.88 1401.16 1405.05
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1461.57 1470.14 1477.64 1479.04 1486.15 1491.06
1492.47 1496.19 1497.25 1499.09 1499.86 1503.67
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1640.29 1651.81 1653.87 1722.64 3036.54 3042.87
3050.87 3053.75 3055.38 3057.35 3060.52 3061.35
3062.27 3065.97 3074.25 3111.71 3119.53 3120.50
3124.80 3124.99 3126.83 3126.96 3127.09 3128.25
3131.20 3133.39 3135.30 3136.95 3143.46 3153.95
3167.89 3175.75 3182.62 3201.64 3202.29 3212.83
3212.92 3221.55 3221.58

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36.55 44.57 49.18 61.70 70.52 79.11
84.82 93.82 100.74 105.04 116.96 149.71
157.33 162.29 186.22 191.71 208.04 212.85
218.86 228.80 235.03 253.01 257.47 261.85
267.93 275.66 281.44 285.16 288.92 302.37
311.17 319.22 319.37 331.92 336.82 352.43
376.96 383.35 392.18 393.54 401.94 411.51
430.57 438.22 471.77 484.03 486.27 492.40
521.43 521.66 532.19 535.03 551.72 564.04
571.14 576.64 629.70 639.64 658.48 663.95
693.50 718.73 744.48 762.66 768.40 786.15
787.78 804.12 806.66 849.84 857.01 889.14
919.68 923.64 925.67 927.15 935.08 941.51
945.01 946.76 958.71 973.79 977.49 990.98
1007.47 1015.86 1018.77 1019.92 1023.92 1034.73
1045.40 1046.77 1050.66 1056.81 1061.48 1062.03
1076.52 1080.28 1116.07 1129.35 1133.25 1144.04
1202.75 1203.63 1222.47 1224.25 1236.57 1239.27
1253.38 1254.76 1266.80 1269.76 1274.37 1280.95
1292.94 1296.46 1314.19 1318.66 1326.38 1334.59
1350.08 1388.04 1399.63 1401.11 1412.60 1414.50
1423.96 1424.67 1430.56 1434.09 1454.87 1455.33
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1491.44 1493.59 1496.32 1497.78 1499.93 1500.79
1504.46 1507.57 1508.79 1510.55 1512.73 1526.65
1529.93 1530.93 1531.48 1538.38 1538.87 1568.69
1633.00 1636.12 1656.43 1658.19 3019.61 3022.95
3052.39 3053.13 3053.91 3056.41 3056.88 3058.98
3064.92 3072.33 3072.61 3108.86 3116.13 3119.95
3121.72 3123.79 3124.21 3125.77 3127.63 3128.11
3128.41 3129.86 3134.15 3134.40 3151.23 3165.32
3175.47 3200.15 3202.46 3203.17 3207.70 3212.87
3214.14 3222.01 3222.39

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29.30 44.98 48.83 61.63 68.15 71.13
80.10 92.45 99.07 106.04 117.23 127.16
147.35 161.86 177.24 184.73 186.03 209.91
212.96 223.94 240.66 245.37 253.41 265.26
273.67 281.64 289.01 293.86 296.01 297.31

311.40 321.27 322.35 325.62 329.53 344.59
352.57 365.36 373.12 386.34 399.64 413.02
433.54 440.66 450.75 466.47 488.11 495.49
525.03 525.91 532.52 538.22 562.90 570.14
574.90 602.04 626.17 636.07 657.79 662.59
695.39 719.99 753.23 762.10 775.25 786.55
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947.30 948.25 961.93 978.08 978.72 996.63
1002.50 1010.22 1019.60 1021.10 1027.33 1036.56
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1074.46 1093.58 1114.44 1121.59 1130.64 1200.12
1201.45 1210.58 1219.19 1225.14 1230.62 1236.99
1253.17 1256.00 1262.18 1265.75 1268.76 1275.87
1283.55 1292.89 1297.49 1317.42 1323.99 1333.83
1364.78 1378.27 1388.99 1400.77 1407.65 1410.14
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1491.26 1496.00 1496.29 1499.86 1501.78 1504.52
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1531.00 1532.06 1534.06 1538.66 1540.38 1635.59
1640.78 1653.63 1654.38 1673.78 3035.31 3035.51
3054.08 3054.39 3057.49 3058.74 3059.12 3061.65
3061.82 3069.68 3073.27 3116.14 3118.03 3122.81
3123.46 3124.32 3126.82 3128.03 3129.45 3129.70
3130.53 3133.92 3134.33 3135.87 3146.51 3151.09
3183.95 3201.07 3201.09 3201.61 3212.00 3212.65
3220.96 3221.16 3228.76

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26.06 45.24 54.09 63.85 69.15 73.08
77.77 86.26 93.61 101.35 108.05 118.69
144.17 158.74 173.87 184.42 187.50 200.56
206.18 218.56 234.02 242.38 248.57 256.68
269.41 278.11 280.80 284.08 289.21 292.44
308.66 314.26 320.48 322.42 329.48 330.11
352.97 358.31 365.77 385.84 398.13 410.41
430.74 437.05 446.37 456.09 485.23 494.09
520.06 526.94 528.93 536.02 538.28 568.41
574.66 579.05 627.21 636.76 657.48 661.23
680.30 718.10 742.09 757.86 765.20 785.89
789.30 805.39 807.41 848.99 857.77 878.95
918.11 924.45 927.25 929.92 932.45 936.82
946.69 947.49 955.71 976.87 980.15 988.90
1005.27 1019.54 1021.55 1022.42 1024.64 1042.53
1043.60 1045.17 1046.56 1051.22 1057.41 1062.32
1070.61 1074.86 1109.19 1120.63 1123.41 1133.92
1201.73 1202.06 1219.47 1221.29 1231.32 1235.31
1253.39 1258.43 1264.28 1264.56 1275.03 1279.67
1292.96 1294.35 1317.12 1318.45 1323.90 1331.86
1335.72 1387.32 1397.94 1400.95 1401.06 1411.44
1413.60 1425.56 1428.72 1433.23 1435.71 1457.03
1459.56 1470.26 1476.10 1479.56 1485.42 1489.11
1489.68 1492.54 1494.36 1497.95 1500.50 1503.29
1504.55 1505.81 1508.21 1509.59 1513.15 1530.50
1531.03 1531.93 1532.40 1536.35 1541.51 1623.85
1634.17 1637.80 1651.70 1653.05 3024.98 3039.10

3050.72 3053.85 3054.54 3054.96 3057.34 3059.09
3061.20 3069.69 3072.51 3115.31 3117.48 3121.85
3122.91 3125.39 3125.95 3127.09 3128.34 3128.67
3132.39 3132.56 3134.13 3136.07 3139.66 3154.60
3178.82 3201.75 3201.89 3211.51 3212.84 3213.14
3215.74 3221.13 3221.55

087-TS

-122.04 33.78 43.73 49.28 73.60 75.45
82.76 93.33 99.55 110.70 114.44 120.84
127.63 131.76 173.63 185.19 187.60 197.79
214.74 218.26 225.18 236.09 250.60 256.88
271.04 277.10 282.61 285.97 288.50 301.71
314.41 318.00 326.82 331.15 339.24 342.75
363.57 376.95 392.67 399.00 403.38 416.40
432.80 438.64 454.26 471.77 485.25 491.73
521.00 525.03 527.68 533.88 536.73 562.85
567.00 575.85 627.82 636.34 653.84 658.13
664.15 715.13 741.41 758.25 766.19 786.90
788.48 804.14 806.26 807.09 847.82 855.50
918.68 923.88 927.95 929.75 931.29 936.75
945.73 946.94 957.78 974.73 979.91 983.36
988.57 1008.58 1018.74 1019.86 1025.10 1044.03
1047.10 1049.31 1057.05 1058.84 1061.52 1065.17
1072.18 1076.54 1112.47 1124.54 1127.19 1137.49
1178.66 1201.53 1203.18 1215.52 1220.56 1226.98
1234.52 1238.91 1258.07 1262.33 1267.86 1268.95
1274.76 1281.20 1294.45 1296.46 1314.47 1319.00
1326.72 1334.17 1388.91 1399.62 1401.10 1401.66
1412.79 1422.62 1426.75 1427.51 1431.59 1452.98
1457.20 1469.62 1475.32 1478.27 1484.68 1489.75
1491.80 1493.69 1495.80 1499.12 1500.18 1502.57
1502.84 1505.23 1506.98 1509.75 1511.62 1530.69
1531.29 1532.85 1533.03 1538.52 1539.25 1631.65
1637.76 1654.38 1656.11 1751.90 3027.84 3030.37
3051.92 3053.17 3054.63 3057.70 3058.77 3059.43
3061.63 3063.90 3075.56 3116.78 3118.04 3118.52
3120.98 3124.69 3125.55 3128.69 3130.31 3130.68
3130.99 3132.66 3135.72 3140.32 3149.42 3160.94
3173.51 3176.23 3201.94 3203.79 3211.99 3215.32
3221.01 3223.45 3225.04

17-TS

-136.97 41.84 44.67 48.59 74.65 78.54
83.69 96.80 105.87 108.86 117.65 127.90
134.02 148.64 166.42 181.38 185.77 195.16
205.15 210.23 227.37 236.62 247.59 248.44
263.37 270.32 279.21 281.57 283.74 289.00
304.83 318.01 318.92 329.07 338.27 340.39
361.50 366.44 373.57 388.58 399.65 401.51
419.55 430.36 440.38 450.34 460.91 485.33
492.28 523.37 523.87 529.49 536.91 565.28
567.38 575.59 626.89 634.86 657.43 657.77
662.03 714.90 741.72 758.35 766.33 787.40
788.47 797.91 804.53 806.60 848.29 856.77
918.13 923.06 929.42 929.87 931.52 936.61

944.17 947.78 957.05 976.40 981.97 984.60
988.53 1007.57 1018.80 1019.48 1025.59 1043.25
1047.54 1048.06 1050.49 1057.95 1064.62 1069.24
1070.09 1075.45 1111.65 1122.66 1125.93 1136.22
1184.71 1201.08 1201.37 1218.94 1222.14 1225.53
1231.35 1235.78 1257.57 1262.56 1264.88 1268.23
1273.67 1280.15 1293.41 1294.58 1316.30 1319.04
1329.26 1334.16 1389.03 1399.89 1400.26 1402.06
1413.91 1423.99 1425.86 1428.47 1431.90 1455.00
1455.42 1463.65 1471.63 1477.83 1486.20 1490.34
1491.92 1494.29 1496.35 1498.72 1500.07 1504.27
1506.32 1507.57 1508.04 1509.41 1514.15 1529.95
1531.69 1533.55 1533.67 1541.02 1550.89 1634.33
1637.48 1652.91 1653.84 1726.77 3030.24 3032.36
3050.35 3052.41 3053.64 3056.96 3057.49 3062.40
3063.45 3064.84 3072.27 3106.24 3115.23 3117.74
3122.65 3123.41 3126.07 3126.87 3128.51 3128.91
3132.46 3134.31 3136.64 3140.99 3157.63 3159.01
3171.50 3173.91 3200.75 3200.96 3201.51 3211.64
3212.50 3220.56 3220.65

Q7-TS

-134.55 34.45 46.00 47.52 62.20 70.53
77.30 96.09 99.72 108.83 122.60 123.75
147.18 159.39 174.11 179.64 184.73 196.88
203.82 212.66 224.50 233.45 249.52 250.02
262.96 267.87 272.26 280.06 290.25 291.61
298.58 320.94 326.60 331.94 335.41 343.97
352.71 382.28 395.17 396.66 414.79 422.27
431.13 435.06 448.46 458.25 486.02 494.50
494.82 525.06 529.91 533.90 539.30 551.28
565.83 575.72 626.06 635.81 649.92 659.64
663.22 717.94 741.72 756.40 764.52 787.01
789.30 804.87 805.49 807.59 852.11 858.48
918.90 925.51 928.19 934.40 935.30 936.35
944.98 945.73 957.21 966.31 983.94 988.20
988.84 1004.76 1019.98 1021.70 1024.63 1046.51
1047.29 1051.25 1053.07 1059.59 1065.22 1070.89
1072.63 1076.81 1108.84 1117.96 1122.79 1131.65
1135.86 1200.60 1202.24 1217.76 1220.64 1224.82
1231.80 1236.97 1261.25 1263.27 1264.75 1268.42
1274.41 1280.00 1289.16 1301.00 1316.21 1319.66
1327.38 1336.26 1389.61 1395.98 1399.87 1403.52
1414.27 1430.11 1432.12 1435.84 1436.40 1461.62
1466.05 1468.66 1477.03 1477.91 1484.41 1490.49
1492.71 1493.84 1496.14 1500.17 1501.26 1503.83
1506.06 1508.14 1510.53 1511.29 1512.35 1529.57
1530.07 1531.90 1537.49 1540.43 1543.54 1633.00
1636.75 1651.46 1654.06 1778.18 3037.22 3037.42
3047.21 3049.24 3049.82 3052.33 3054.51 3055.54
3061.16 3061.62 3073.04 3106.04 3108.11 3114.88
3115.41 3116.12 3119.99 3121.06 3122.87 3126.11
3126.97 3132.57 3133.91 3137.91 3148.12 3149.78
3168.81 3171.21 3177.22 3201.93 3202.50 3213.04
3213.64 3221.92 3222.02

CS8

53.60	59.41	76.34	84.88	87.81	95.74
105.32	113.47	124.35	143.62	170.48	182.12
197.92	199.40	205.12	224.68	230.51	242.42
245.49	251.59	260.20	273.74	280.50	284.94
287.35	295.03	299.10	306.01	319.75	327.11
332.25	333.51	344.61	358.48	360.03	383.76
389.02	399.68	408.30	422.04	438.16	441.73
447.55	468.08	490.75	495.77	496.25	530.08
535.88	536.21	547.10	558.20	561.80	581.21
597.01	623.62	631.07	640.37	664.84	675.43
710.54	726.89	743.17	760.80	767.79	790.42
792.69	804.58	806.51	842.07	846.10	906.46
909.40	922.01	928.71	929.36	933.59	937.22
950.72	952.54	958.28	983.71	984.32	989.18
992.19	1020.82	1021.39	1024.60	1032.63	1042.20
1043.73	1055.43	1055.90	1060.18	1062.04	1064.22
1064.61	1069.01	1075.79	1101.91	1104.73	1121.06
1124.08	1200.86	1201.64	1211.45	1213.26	1235.33
1244.43	1258.65	1262.38	1265.16	1268.45	1275.75
1282.71	1296.60	1303.60	1306.98	1314.29	1330.05
1333.65	1338.66	1389.79	1399.86	1400.26	1409.59
1421.43	1432.84	1433.58	1435.39	1436.41	1463.18
1463.72	1473.28	1477.21	1483.53	1483.98	1486.30
1489.90	1493.37	1495.26	1499.86	1502.56	1503.47
1505.40	1514.72	1516.89	1518.57	1520.72	1532.15
1532.93	1533.95	1534.58	1547.66	1548.05	1645.80
1648.05	1658.07	1661.18	1662.09	3045.24	3052.69
3054.35	3056.77	3056.83	3064.72	3069.24	3069.77
3072.73	3075.82	3076.64	3103.11	3118.74	3123.56
3123.87	3126.29	3126.94	3128.18	3134.76	3137.15
3147.87	3149.86	3151.83	3153.67	3153.92	3161.83
3162.36	3204.14	3204.30	3205.18	3206.23	3216.60
3217.77	3223.30	3224.64			

os8

50.58	54.31	59.88	70.95	77.43	87.15
88.50	96.06	104.17	111.41	137.76	154.52
161.84	187.80	190.81	199.24	208.32	220.08
225.90	232.73	242.38	260.95	261.64	269.82
273.10	285.32	286.71	292.65	311.34	315.00
318.73	322.89	329.68	337.76	346.45	368.03
389.13	391.63	400.90	409.67	416.87	426.20
437.40	461.50	484.81	488.70	489.28	491.62
522.12	524.18	531.65	536.58	559.38	563.65
577.59	589.15	629.55	639.52	658.40	663.70
706.99	718.54	744.79	762.88	768.83	786.37
787.60	804.71	806.91	851.94	857.91	920.20
923.96	927.70	930.95	936.37	941.41	944.02
946.04	958.54	977.01	981.27	988.68	989.65
1007.09	1019.51	1019.84	1023.04	1026.60	1042.41
1046.42	1047.86	1054.23	1058.38	1060.13	1063.95
1077.27	1081.01	1117.03	1129.41	1135.48	1145.34
1176.20	1203.09	1203.40	1222.60	1224.36	1236.76
1239.60	1255.80	1262.05	1267.60	1270.56	1274.03
1281.23	1292.84	1296.08	1313.06	1318.12	1325.30
1334.19	1338.33	1387.71	1399.60	1400.41	1408.90

1413.81	1426.54	1426.73	1430.82	1433.72	1455.90
1457.00	1475.55	1480.73	1484.19	1486.60	1489.21
1491.25	1493.81	1494.18	1497.39	1499.51	1502.59
1503.93	1505.79	1509.57	1510.94	1512.71	1517.99
1528.43	1528.67	1532.62	1533.32	1539.89	1542.22
1633.14	1635.62	1656.80	1658.28	3022.52	3023.81
3052.47	3052.62	3056.43	3057.26	3058.11	3060.22
3060.39	3071.62	3074.55	3107.58	3111.40	3118.46
3121.21	3122.51	3124.20	3124.48	3127.09	3128.44
3129.57	3130.79	3133.39	3136.09	3147.62	3153.15
3174.71	3201.43	3201.98	3202.85	3202.98	3213.67
3213.76	3221.99	3222.22			

T8

50.67	55.79	62.11	72.15	77.22	87.72
93.46	98.42	104.00	114.12	144.92	159.48
163.97	187.96	191.07	202.40	209.79	220.51
226.97	242.04	249.13	261.41	263.25	270.42
273.70	285.27	287.32	292.91	313.07	317.55
319.16	324.09	336.11	340.00	354.43	368.58
390.39	391.99	402.24	410.31	417.20	426.68
437.81	462.08	485.23	488.08	491.42	493.71
523.17	524.88	531.84	537.47	556.47	563.51
577.91	596.90	629.31	639.41	658.51	663.97
708.50	719.03	744.14	762.51	769.00	786.85
788.01	804.81	807.05	851.39	858.73	920.37
924.12	928.45	931.39	936.27	941.41	944.16
946.54	958.94	977.74	981.75	989.24	996.49
1007.99	1019.76	1020.07	1023.21	1024.76	1046.51
1048.16	1048.56	1054.43	1058.51	1060.03	1064.29
1076.74	1080.51	1117.09	1125.47	1131.14	1135.47
1145.22	1203.06	1203.35	1222.08	1223.20	1236.86
1239.93	1256.09	1262.25	1268.09	1270.98	1274.43
1281.69	1293.55	1296.66	1313.56	1319.09	1325.79
1334.39	1342.20	1388.50	1400.25	1401.06	1406.89
1414.07	1427.24	1427.49	1431.06	1433.86	1455.72
1457.36	1472.24	1478.05	1481.95	1486.58	1488.94
1490.87	1492.39	1494.36	1496.62	1499.29	1500.60
1502.94	1505.24	1507.14	1509.92	1511.40	1513.12
1528.01	1528.80	1532.72	1533.50	1539.80	1541.98
1633.63	1636.20	1656.93	1658.51	3024.02	3024.65
3052.07	3052.13	3055.86	3056.04	3056.20	3059.86
3060.15	3071.40	3074.61	3107.61	3112.37	3117.96
3121.36	3122.39	3124.77	3124.90	3127.21	3128.90
3131.04	3131.20	3133.76	3136.31	3148.34	3153.87
3173.51	3201.54	3202.97	3203.19	3204.17	3213.93
3213.98	3222.10	3222.42			

Q8

33.52	43.63	56.36	69.53	75.99	78.04
92.18	99.53	103.76	107.27	136.70	142.10
153.34	170.26	182.39	188.34	194.55	202.97
208.42	220.26	230.52	238.78	254.73	258.73
265.13	270.22	276.78	284.51	286.34	301.08
313.11	316.58	318.74	332.81	334.79	344.66
345.73	376.51	388.32	404.39	406.72	415.75

427.87 435.46 447.37 458.74 485.33 492.70
515.44 524.72 525.09 529.85 535.07 564.29
573.15 602.40 627.12 637.11 657.29 660.65
680.42 719.09 742.56 757.60 764.35 786.28
788.94 804.69 806.90 851.87 858.98 918.25
924.96 928.22 930.11 931.99 935.13 943.87
946.47 955.99 963.53 979.60 981.49 986.79
1004.95 1020.46 1021.31 1023.21 1025.06 1042.37
1043.85 1044.79 1045.43 1051.05 1058.58 1064.36
1070.50 1074.43 1107.45 1118.49 1122.23 1131.29
1201.18 1201.52 1215.68 1220.87 1222.05 1231.54
1235.56 1257.30 1262.85 1265.76 1266.77 1274.59
1279.65 1290.48 1294.63 1309.19 1316.99 1321.31
1329.11 1335.00 1386.24 1397.15 1401.68 1408.03
1413.38 1427.02 1428.13 1432.58 1434.95 1457.59
1458.52 1477.10 1481.17 1483.95 1485.86 1488.39
1491.04 1494.10 1494.91 1497.31 1499.26 1502.77
1503.40 1505.15 1507.64 1509.35 1511.83 1526.61
1528.08 1533.53 1533.67 1537.82 1540.50 1559.80
1635.53 1638.78 1651.05 1652.62 3035.58 3035.90
3053.70 3053.76 3054.27 3057.32 3057.63 3060.80
3061.07 3071.69 3075.48 3113.53 3116.06 3116.49
3120.39 3123.85 3123.93 3126.32 3128.14 3129.31
3129.67 3131.49 3133.49 3136.88 3150.53 3157.36
3171.15 3201.72 3201.95 3207.05 3212.57 3212.68
3219.10 3220.82 3221.15

os9

41.25 50.09 67.64 76.97 80.26 88.92
95.67 99.34 105.90 125.93 128.65 139.86
150.12 166.51 181.65 189.45 197.44 206.04
213.61 229.04 233.14 243.15 257.70 260.28
277.54 279.18 285.82 288.19 296.08 301.72
307.33 313.81 331.59 337.91 352.18 354.45
368.01 385.50 399.70 409.64 425.60 428.31
431.48 437.50 456.82 479.26 483.25 486.69
491.78 520.91 524.88 528.51 533.58 537.20
556.17 563.96 577.34 627.65 637.09 657.29
663.51 718.64 744.81 760.99 766.88 786.03
787.67 799.70 805.85 807.55 831.28 853.07
859.62 920.50 924.75 928.79 935.08 937.25
943.03 945.50 946.59 958.70 983.85 989.92
991.25 1003.40 1005.97 1018.51 1019.92 1023.30
1045.28 1050.44 1051.34 1057.94 1059.28 1059.90
1066.59 1076.04 1080.92 1105.72 1114.85 1126.89
1132.71 1142.55 1201.65 1203.33 1223.92 1226.67
1236.12 1239.55 1255.77 1265.06 1268.42 1270.59
1273.69 1279.68 1290.56 1294.96 1312.98 1319.00
1325.33 1334.36 1386.70 1398.92 1400.36 1404.23
1413.16 1425.61 1427.78 1429.65 1431.19 1455.82
1456.57 1473.87 1474.10 1477.45 1483.67 1489.67
1492.62 1495.51 1497.18 1498.64 1500.50 1504.11
1506.42 1507.46 1509.90 1510.99 1512.20 1528.75
1529.82 1531.13 1535.29 1541.31 1542.76 1630.79
1635.25 1655.41 1656.89 1737.28 3022.51 3023.80
3050.82 3052.31 3054.71 3056.49 3059.45 3060.54
3063.23 3065.58 3073.19 3105.54 3113.09 3115.47

3117.99 3122.61 3123.11 3126.63 3127.97 3130.70
3131.18 3133.04 3137.54 3138.30 3143.00 3165.57
3175.07 3186.61 3190.69 3202.33 3203.46 3212.43
3214.63 3221.42 3222.69

T9

33.09 44.18 54.81 64.86 71.41 75.13
82.60 96.94 101.72 110.81 119.92 143.69
149.06 162.21 173.38 178.55 183.79 197.12
203.50 212.61 214.90 231.28 244.69 249.88
258.94 269.39 273.30 274.57 284.20 288.86
290.08 312.64 328.16 329.35 333.43 338.10
353.02 370.13 392.77 402.84 411.70 420.91
432.07 438.16 446.89 457.11 471.94 487.78
497.18 510.64 525.45 526.11 532.38 537.21
567.28 571.05 574.12 627.49 635.99 658.32
660.56 717.91 742.84 756.22 764.50 786.41
789.05 804.83 806.31 807.58 836.13 852.45
859.56 918.26 924.27 930.51 930.86 934.13
937.07 945.81 946.25 957.63 984.71 985.53
988.00 1005.63 1010.67 1020.21 1021.02 1024.09
1044.50 1047.90 1048.96 1051.13 1057.69 1060.11
1064.26 1071.92 1077.51 1110.78 1117.52 1122.23
1124.65 1134.74 1201.95 1202.09 1220.06 1222.88
1231.78 1236.21 1257.07 1264.32 1265.87 1266.93
1274.72 1279.93 1290.04 1293.85 1317.53 1320.09
1330.89 1334.21 1387.73 1397.83 1401.62 1402.94
1413.66 1424.79 1429.81 1432.37 1434.41 1455.67
1461.62 1474.04 1477.48 1480.92 1485.76 1489.45
1491.79 1494.70 1498.54 1499.01 1501.38 1503.03
1503.82 1507.13 1507.47 1509.10 1510.90 1529.07
1530.51 1533.82 1534.32 1539.62 1542.04 1633.70
1637.09 1652.81 1654.14 1731.85 3028.92 3040.49
3051.97 3052.10 3054.22 3055.95 3057.35 3062.10
3062.78 3068.13 3068.38 3113.34 3117.04 3119.70
3123.38 3123.51 3126.20 3127.01 3129.34 3129.47
3133.45 3133.72 3137.04 3137.89 3139.48 3171.24
3175.21 3178.03 3201.24 3201.93 3202.99 3212.36
3212.53 3220.98 3221.41

99

33.92 44.25 56.36 64.91 71.21 74.55
81.13 95.07 100.79 110.81 120.73 143.04
148.23 160.06 172.98 178.19 183.17 197.06
203.08 212.21 214.47 230.30 244.38 249.94
258.25 268.61 272.57 274.10 283.83 288.88
289.74 311.94 328.15 329.18 333.41 337.69
353.39 370.17 392.92 402.92 412.00 420.46
432.28 438.54 446.78 457.15 473.24 487.68
496.94 508.44 525.42 525.93 532.19 537.20
567.01 570.94 574.02 627.61 636.02 658.42
660.65 717.93 742.95 756.15 764.57 786.53
789.16 804.67 806.74 808.66 835.85 852.51
859.68 918.33 924.24 930.06 930.75 934.29
937.27 945.93 946.42 957.69 984.26 985.52
988.03 1005.75 1009.14 1020.07 1021.04 1024.10

1044.46 1047.37 1049.02 1051.16 1057.70 1060.10
 1064.32 1071.79 1077.50 1110.66 1115.84 1122.31
 1124.65 1134.98 1201.97 1202.09 1220.09 1222.87
 1231.95 1236.32 1256.80 1264.42 1265.93 1267.22
 1274.75 1279.98 1290.09 1293.55 1317.63 1320.16
 1330.99 1334.22 1387.83 1397.87 1401.72 1403.18
 1413.85 1424.67 1429.80 1432.25 1434.08 1455.57
 1461.05 1474.18 1477.60 1480.53 1485.87 1489.55
 1492.07 1494.51 1498.67 1499.04 1501.35 1502.96
 1503.99 1507.21 1507.44 1509.12 1510.94 1529.17
 1530.59 1533.98 1534.03 1539.45 1542.40 1633.74
 1637.13 1652.72 1654.20 1732.73 3028.29 3039.85
 3052.00 3052.15 3054.17 3056.06 3057.26 3062.32
 3062.74 3067.90 3068.63 3113.25 3116.39 3119.28
 3123.25 3123.51 3126.08 3126.72 3129.18 3129.27
 3133.33 3133.65 3137.64 3138.15 3139.21 3171.78
 3176.17 3178.79 3201.18 3201.41 3201.71 3212.18
 3212.46 3220.84 3221.16

089-TS

-132.36 44.50 48.46 71.78 74.97 86.71
 91.35 92.94 106.80 115.98 126.57 130.70
 136.72 165.95 177.85 187.60 188.69 203.12
 211.76 230.03 235.27 240.38 253.69 257.50
 269.68 282.45 288.13 290.45 294.43 298.58
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 3051.55 3053.59 3055.64 3055.85 3059.77 3059.84
 3062.49 3065.66 3072.97 3113.65 3118.48 3119.79
 3122.98 3124.64 3127.34 3129.04 3129.23 3130.82
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T9-TS

-84.10 37.41 44.04 52.37 67.82 73.31

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 1124.61 1136.62 1202.18 1202.31 1219.31 1222.89
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 1331.26 1334.78 1388.06 1398.33 1400.97 1402.87
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09-TS

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 1331.13 1334.98 1387.87 1397.88 1401.62 1403.05
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1637.20 1652.76 1653.99 1722.10 3021.99 3041.56
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3123.18 3124.52 3125.81 3126.44 3126.76 3130.43
3131.98 3132.99 3134.78 3139.74 3141.32 3163.41
3165.74 3177.42 3201.43 3202.10 3203.82 3212.11
3213.11 3221.04 3222.13

089-TS'

-265.68 51.52 55.75 68.59 82.74 87.92
99.33 106.66 114.39 119.56 130.39 138.62
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270.70 277.80 286.80 292.45 295.63 304.45
309.38 313.63 335.59 336.56 343.21 362.13
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428.36 436.28 441.15 463.36 478.54 485.32
488.13 495.94 499.12 523.00 532.33 535.42
546.79 557.00 580.04 622.98 633.59 659.44
660.97 677.93 708.33 714.21 746.26 758.15
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985.86 1000.05 1018.76 1019.65 1021.54 1031.71
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1064.23 1069.63 1072.59 1077.26 1106.12 1113.86
1122.84 1128.09 1201.32 1201.99 1216.92 1218.40
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1642.77 1658.70 1660.82 1887.45 3051.75 3053.60
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3067.00 3067.40 3072.92 3117.10 3122.31 3124.16
3125.00 3126.67 3129.68 3133.13 3133.89 3136.77
3137.60 3139.02 3140.25 3146.65 3152.33 3168.67
3187.02 3188.30 3204.78 3206.75 3208.75 3216.87
3218.91 3224.31 3225.90

19-TS'

-430.11 38.28 46.40 53.51 68.73 75.34
82.71 88.83 98.68 102.88 114.85 121.72
129.82 148.21 161.43 174.60 178.69 188.97
195.26 205.93 217.35 221.26 229.88 239.85
246.82 252.23 261.92 265.95 272.67 283.60
288.12 291.47 316.10 324.24 329.39 337.59
341.50 350.25 382.23 397.21 407.08 413.98
422.11 431.56 436.82 447.99 457.12 483.88
489.73 495.14 522.15 527.53 531.18 533.71

540.16 564.61 575.10 594.13 626.03 636.05
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859.72 918.78 924.88 929.88 932.87 935.29
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3123.69 3125.19 3126.52 3127.91 3130.75 3131.10
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3213.93 3220.98 3221.98

09-TS'

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86.20 93.25 101.85 103.14 113.59 123.07
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197.13 211.12 223.12 228.39 232.33 244.09
248.51 257.43 263.89 266.86 278.33 283.75
293.11 297.60 319.31 326.15 330.04 339.93
345.04 350.28 385.34 397.11 401.99 415.68
422.58 431.86 436.37 444.49 450.71 459.20
489.92 494.11 527.41 528.25 534.07 540.05
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662.89 689.80 716.79 741.61 756.34 764.71
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3133.63 3134.92 3137.80 3139.09 3142.80 3167.65

3170.76 3189.29 3193.33 3202.77 3203.54 3213.30
3215.06 3221.84 3222.86

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52.41 77.89 79.66 97.52 106.11 115.07
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3161.41 3173.81 3176.77 3206.50 3206.54 3219.03
3219.34 3225.54 3225.98

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49.70 71.84 73.74 80.80 84.76 102.00
110.92 154.54 167.15 172.81 182.95 193.37
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q₁₀

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os₁₀-TS

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423.53 430.19 434.72 439.60 447.10 470.35
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544.75 552.26 556.66 579.66 586.41 621.38
637.80 665.88 676.15 717.52 744.12 760.83
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850.81 905.69 912.84 924.39 927.92 929.36
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 3125.31 3130.28 3130.46 3138.23 3138.54 3142.15
 3142.46 3148.64 3148.86 3149.62 3152.33 3154.64
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T10-TS

-491.24 21.63 35.76 51.83 63.01 68.36
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Q10-TS

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 3252.85 3482.16 3491.88

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 3233.11 3478.69 3509.61

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23.34 38.96 42.08 50.73 58.26 68.57
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