# Electronic Supporting Information

Can the isonitrile biosynthesis nonheme iron enzyme ScoE assist with the biosynthesis of isonitrile groups in drug molecules? A computational study

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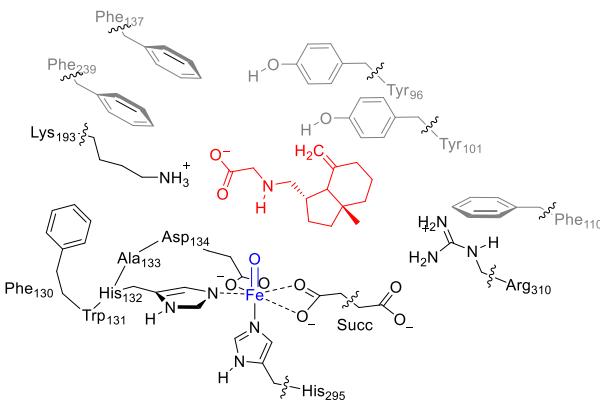
Scheme S1: Cluster model used in this work.
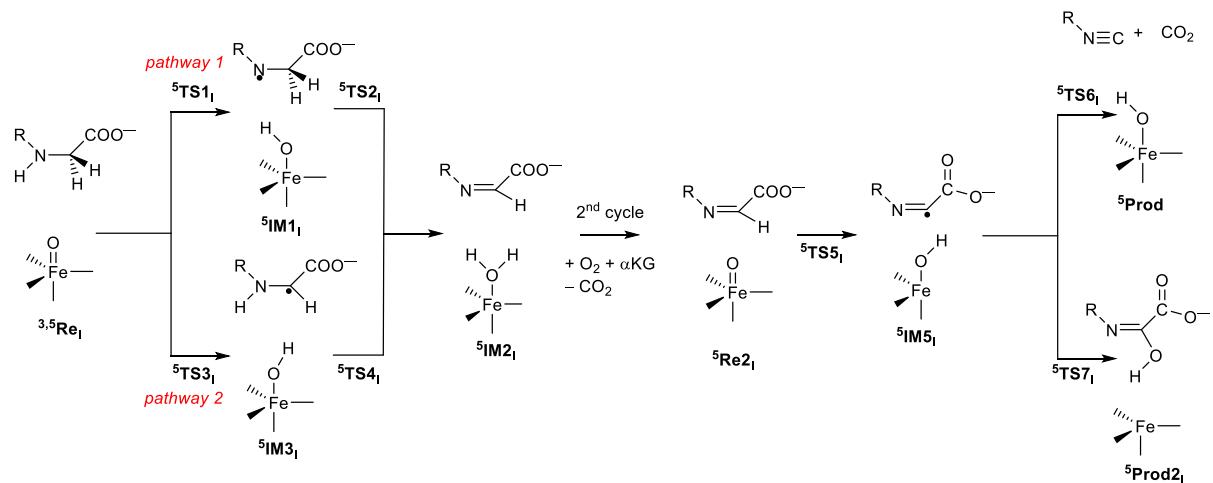
Scheme S2: Reaction mechanism explored in this work with labelling of the structures.
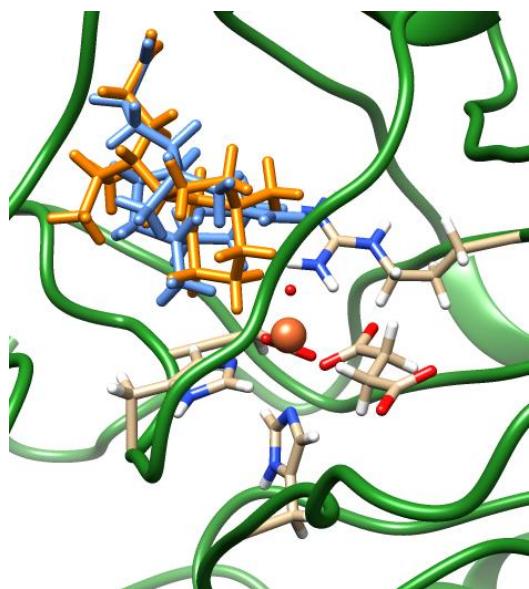
γ-Gly-A docked positions in 6XN6 pdb   **γ-Gly-B docked positions in 6XN6 pdb**
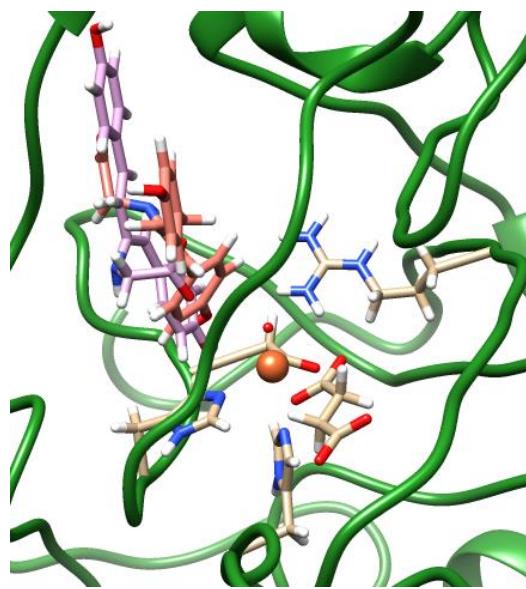
Fig. S1: Molecular docking results using AutoDock Vina software as implemented in Chimera. (a) γ-Gly-A docking into 6XN6 pdb file under the following conditions: Box setting center (1.30561, -27.054, 176.231), Size (18.3011, 15.3327, 24.345) with maximum energy difference of 3 kcal/mol. (b) γ-Gly-B docking into 6XN8 pdb file under the following conditions: Box setting center (0.718422, -25.7091, 176.102), Size (19.4755, 18.0226, 24.6025) with maximum energy difference of 3 kcal/mol.

Part I: MD simulation with substrate A or B bound structures.
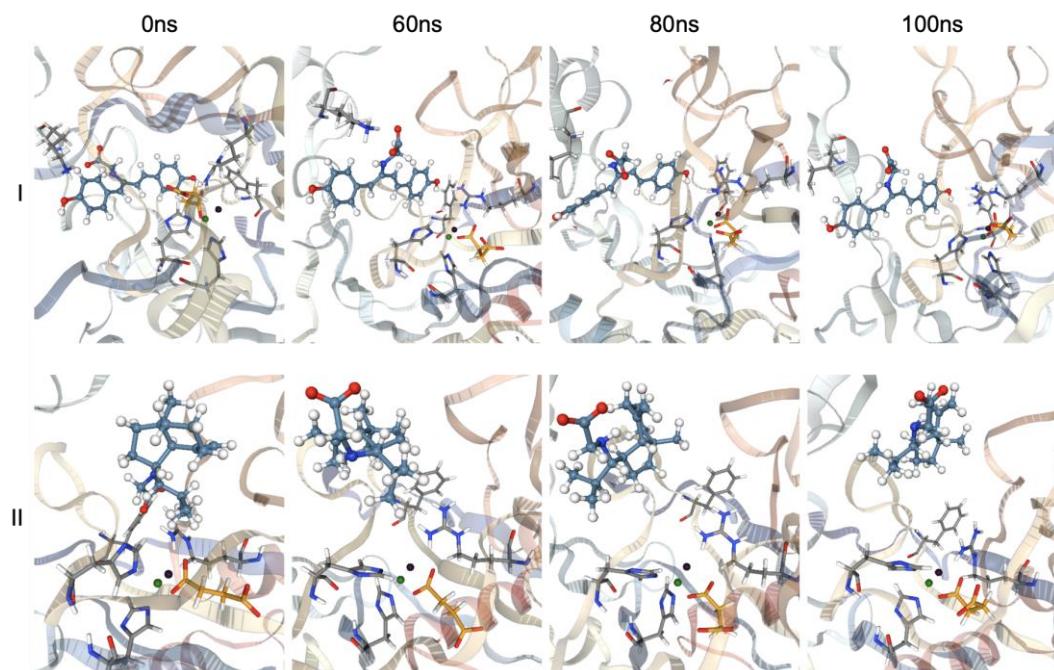
Fig. S2: Binding poses of the substrate in the substrate-binding pocket during the MD simulations. Top row are substrate γ-Gly-B snapshots and bottom row are substrate γ-Gly-A snapshots. Structures were collected after 0, 60, 80 and 100 ns of the MD simulation.
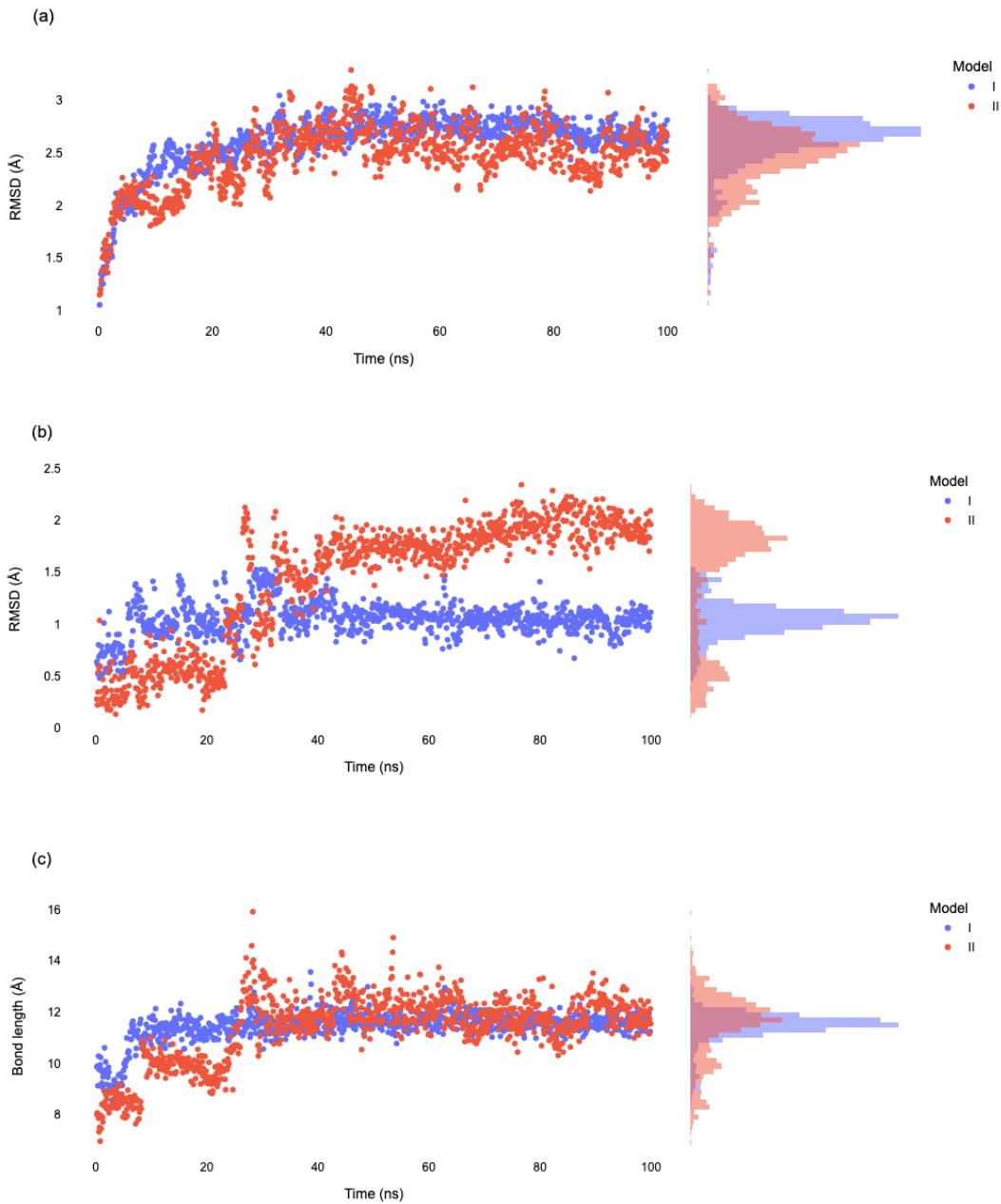
Fig. S3. RMSD values along the MD simulation and bond length of two different reactant models from MD calculation: Model I has substrate γ-Gly-B and model II has substrate γ-Gly-A. (a) RMSD for the complete system of the protein, oxidant and substrate, while (b) is RMSD for the substrate only. (c) is bond length of the center of mass of the substrate with the oxygen atom (O=Fe) for each snapshot.
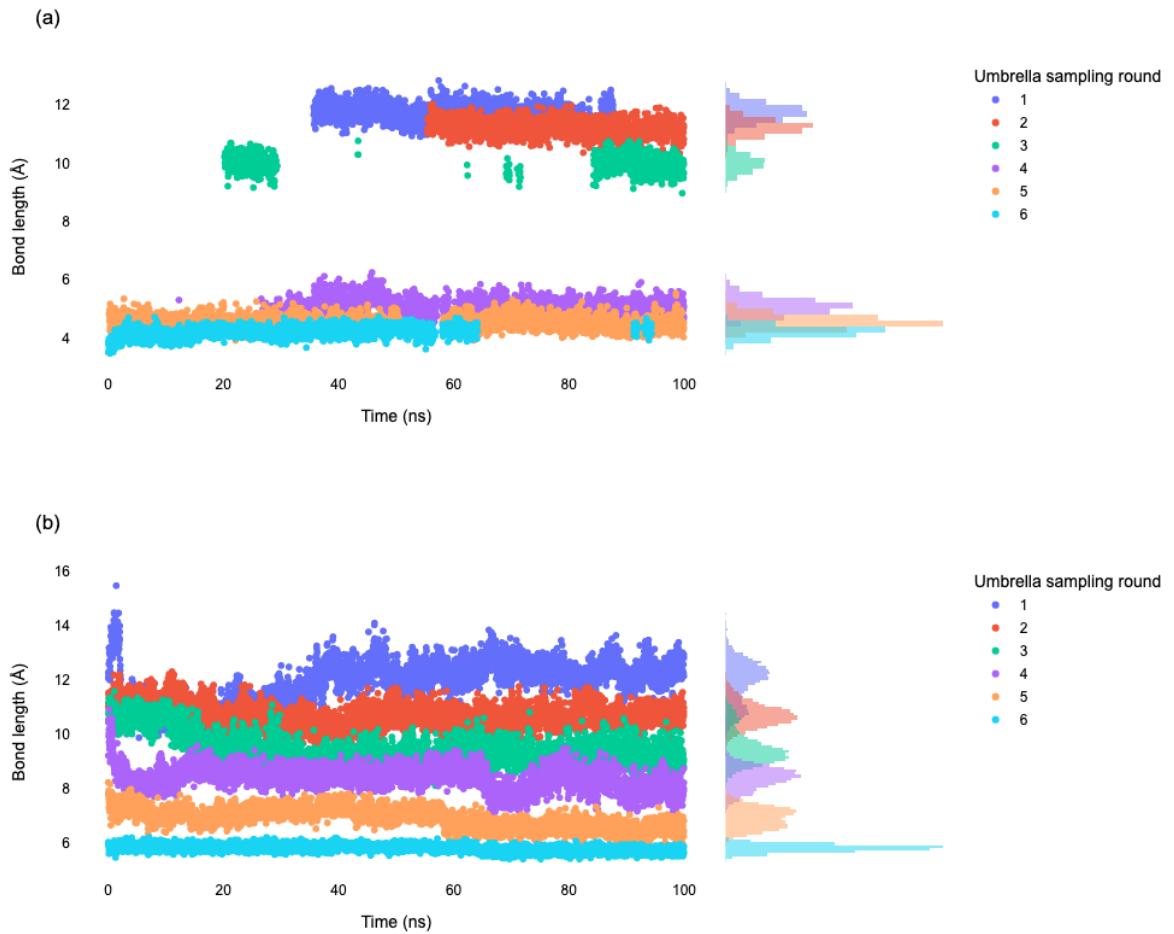
Fig. S4. Umbrella sampling starting from the last point of the MD simulation of Figure S2 for an additional 100 ns. The bond lengths of substrates from umbrella sampling. (a) and (b) are the bond lengths between substrate and oxygen (O=Fe). Umbrella sampling done with an additional force constant with magnitudes of 0.0, 0.2, 0.5, 1.0, 3.0, and 8 kcal/mol.

The shortest distance between the center of substrate γ-Gly-**B** and O=Fe is 3.4 Å.

The shortest distance between the center of substrate γ-Gly-**A** and O=Fe is 5.4 Å.

Part II: QM cluster calculations on the model with substrate γ-Gly-A.
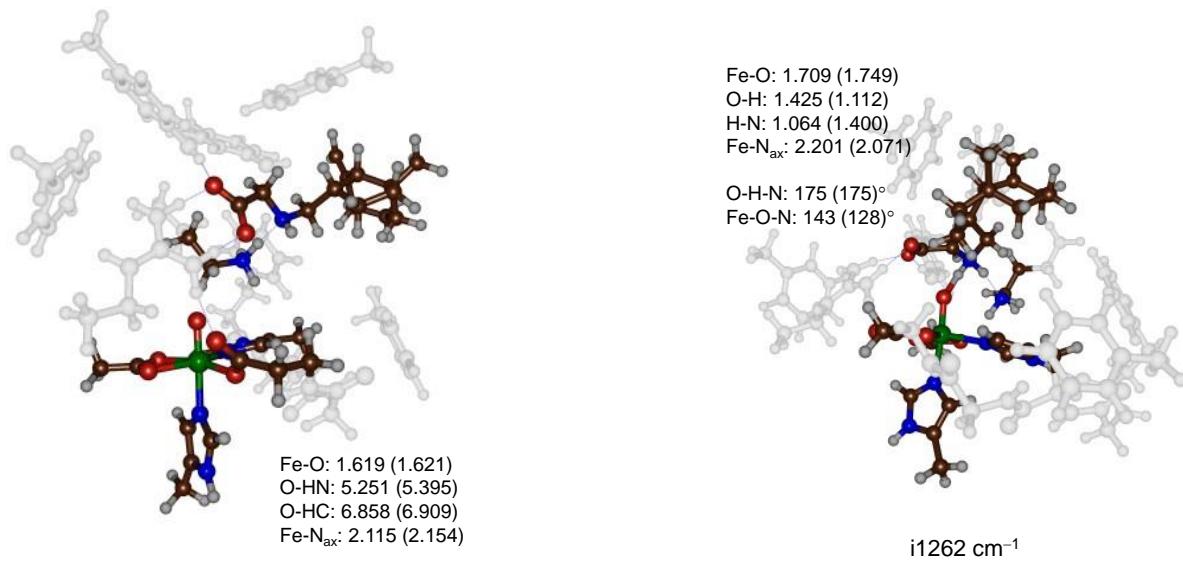
Fe-O: 1.619 (1.621)
O-HN: 5.251 (5.395)
O-HC: 6.858 (6.909)
Fe-N$_{ax}$: 2.115 (2.154)

^{5}Re$_I$ (^{3}Re$_I$)

Fe-O: 1.709 (1.749)
O-H: 1.425 (1.112)
H-N: 1.064 (1.400)
Fe-N$_{ax}$: 2.201 (2.071)

O-H-N: 175 (175)°
Fe-O-N: 143 (128)°

i1262 cm^{-1}

^{5}TS1$_I$ (^{3}TS1$_I$)

Fig. S5: UB3LYP/BS1 optimized geometries along the reaction mechanism. Bond lengths in angstroms, bond angles in degrees and the imaginary frequency in cm^{-1}.

Fe-O: 1.829
O-H: 0.981
O-HC: 3.679
Fe-N$_{ax}$: 2.296

^{5}IM1$_I$

Fe-O: 2.316
O-H: 0.974
O-H: 0.984
Fe-N$_{ax}$: 2.208

^{5}IM2$_I$
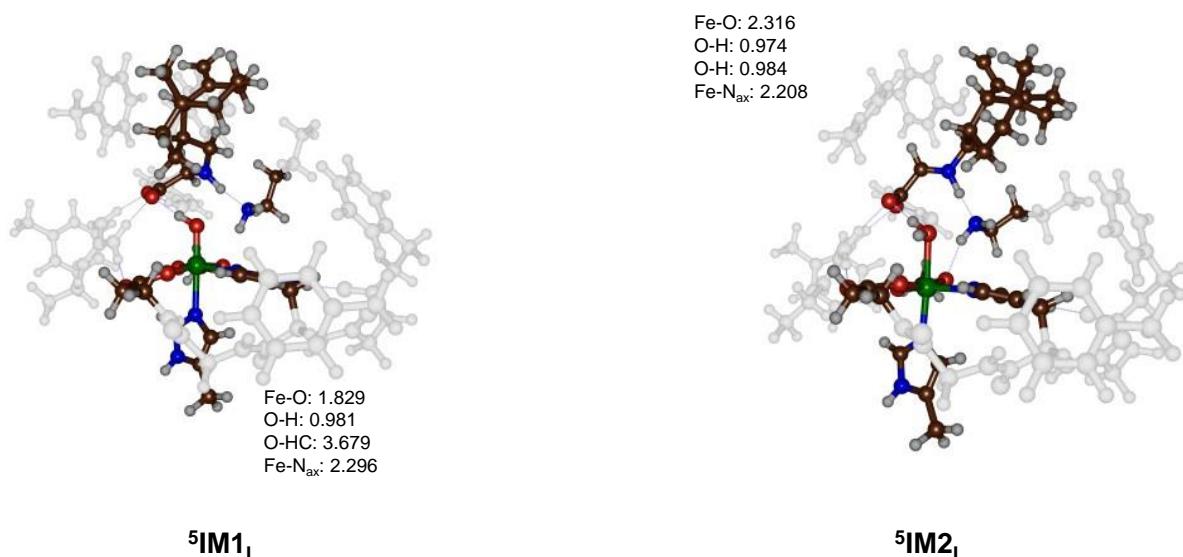
Fig. S6: UB3LYP/BS1 optimized geometries along the reaction mechanism. Bond lengths in angstroms and bond angles in degrees.
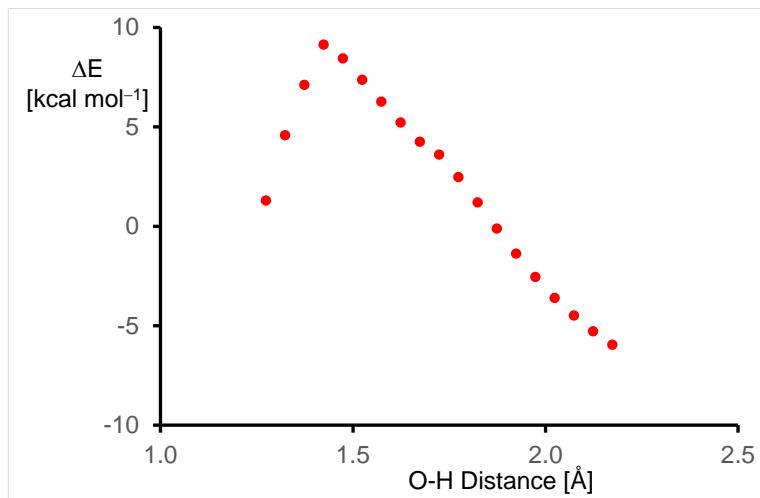
Fig. S7: UB3LYP/BS1 calculated geometry scan for the pathway from ^5Re_I to $^5IM1_I$. Each data point represents a full geometry optimization with fixed O–H distance. The maximum of the scan was used as a starting point for the transition state geometry optimization.
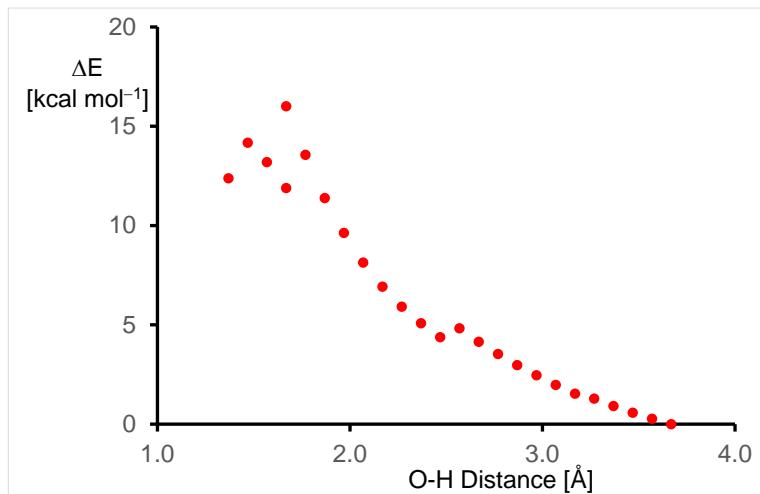
Fig. S8: UB3LYP/BS1 calculated geometry scan for the pathway from $^5IM1_I$ to $^5IM2_I$. Each data point represents a full geometry optimization with fixed O–H distance. The maximum of the scan was used as a starting point for the transition state geometry optimization.
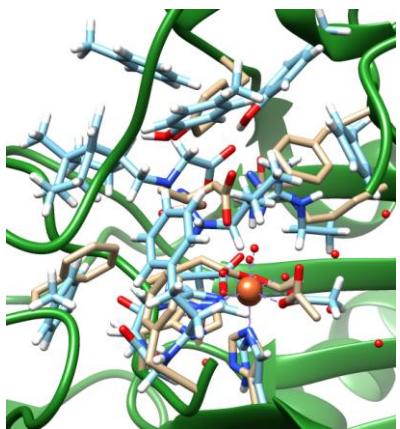
Overlay 6XN6 pdb and $^{5}Re_{I}$ **Overlay 6XN6 pdb and $^{5}TS1_{I}$**
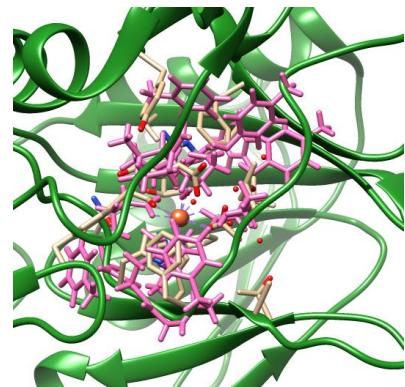
Fig. S9: Overlays of DFT optimized geometries with the original crystal structure coordinates of the 6XN6 pdb with $^{5}Re_{I}$ and $^{5}TS_{I}$. As can be seen most groups are located in a similar position and the chains match well.

Fe-O: 1.767 (1.749)
O-H: 1.203 (1.176)
H-C: 1.320 (1.394)
Fe-N$_{ax}$: 2.234 (2.082)

O-H-C: 165 (157)°
Fe-O-C: 152 (134)°

i1652 (i1928) cm^{-1}

Fe-O: 1.817
OH: 0.987
O-HN: 3.156
Fe-N$_{ax}$: 2.285

^{5}TS3$_I$ (^{3}TS3$_I$)
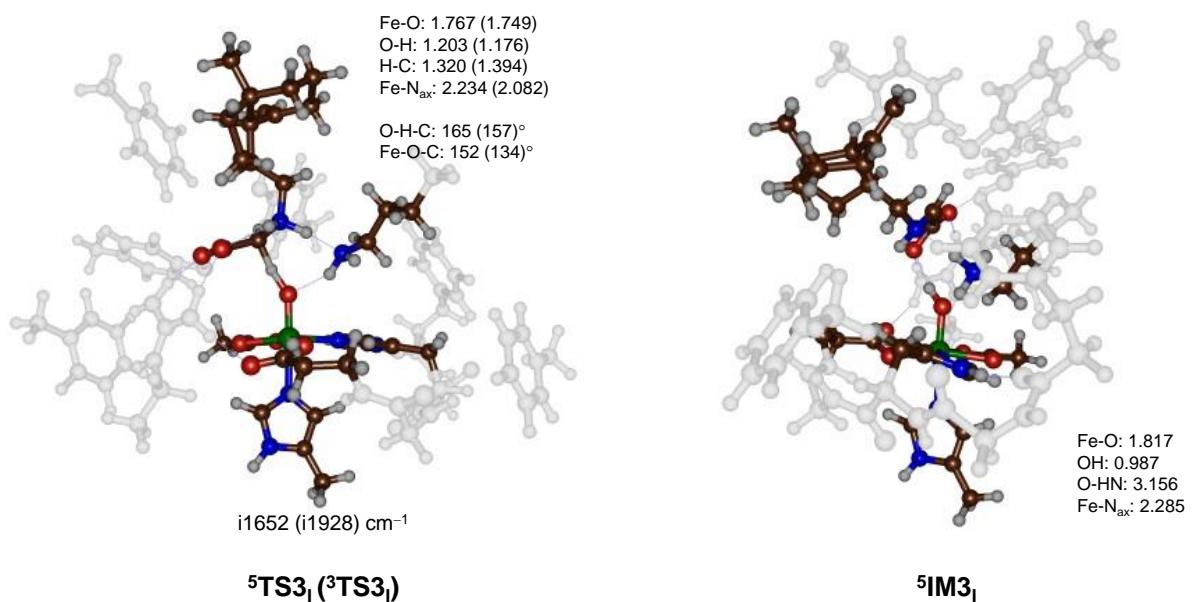
^{5}IM3$_I$

Fig. S10: UB3LYP/BS1 optimized geometries along the reaction mechanism. Bond lengths in angstroms, bond angles in degrees and the imaginary frequency in cm^{-1}.
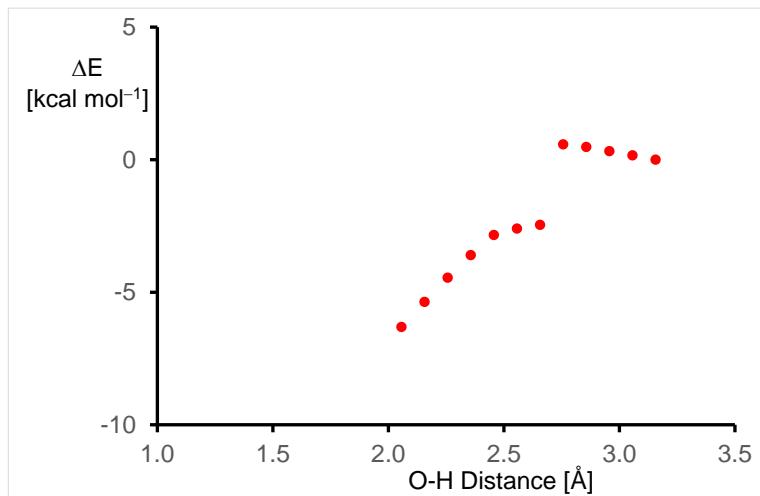
Fig. S11: UB3LYP/BS1 calculated geometry scan for the pathway from ^{5}IM3$_I$ to ^{5}IM2$_I$. Each data point represents a full geometry optimization with fixed O–H distance. From the scan an estimated barrier of 0.5 kcal mol^{-1} is predicted for ^{5}TS4$_I$ with respect to ^{5}IM3$_I$.

Fe-O: 1.710
O-H: 1.692
H-C: 1.147
Fe-N$_{ax}$: 2.224

O-H-C: 159°
Fe-O-C: 148°

i250 cm^{-1}

Fe-O: 1.623
O-HC: 6.443
Fe-N$_{ax}$: 2.213

⁵Re2$_I$

⁵TS5$_I$
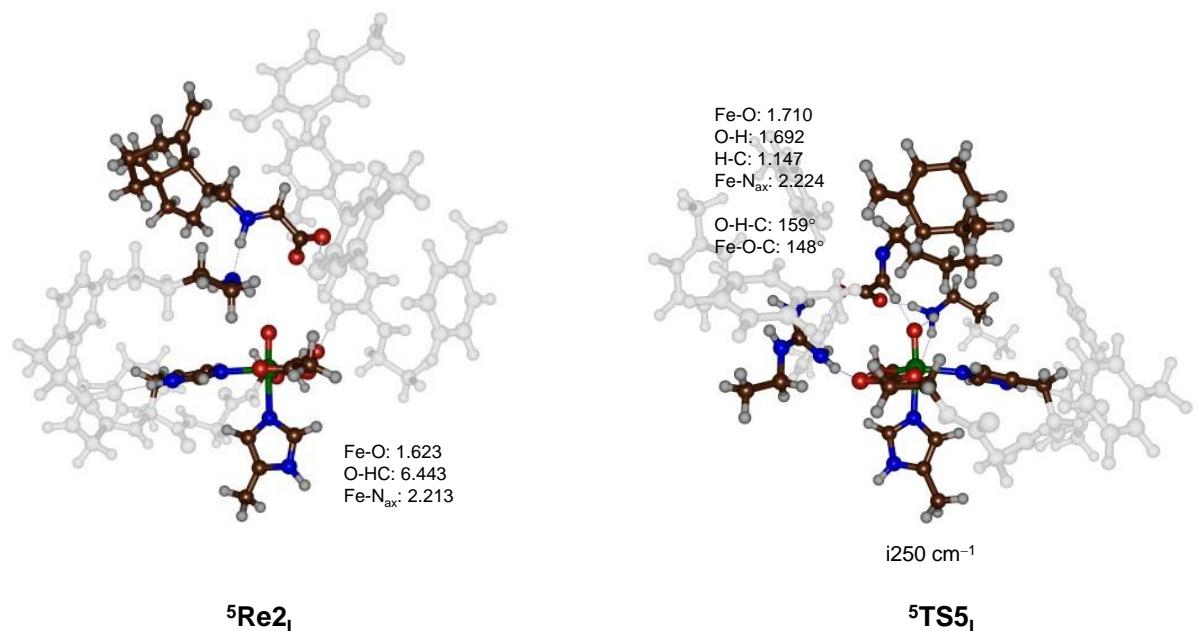
Fig. S12: UB3LYP/BS1 optimized geometries along the reaction mechanism. Bond lengths in angstroms, bond angles in degrees and the imaginary frequency in cm⁻¹.

Fe-O: 1.883
O-H: 0.978
C-C: 1.507
Fe-N$_{ax}$: 2.270

Fe-O: 2.201
O-H: 0.970
O-H: 1.026
Fe-N$_{ax}$: 2.239

⁵IM5$_I$

⁵Prod$_I$
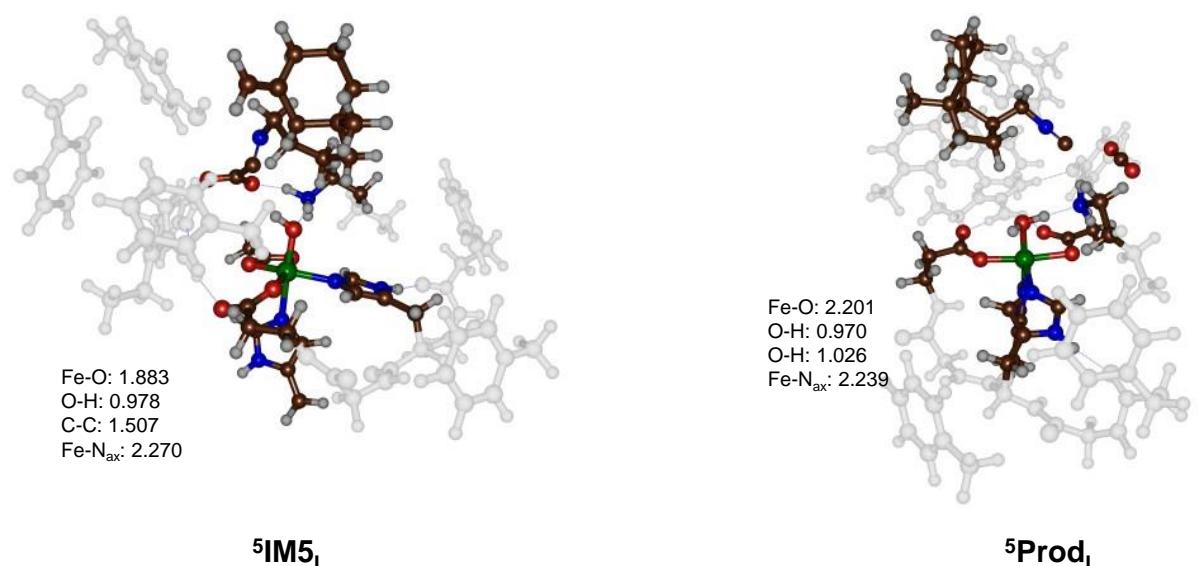
Fig. S13: UB3LYP/BS1 optimized geometries along the reaction mechanism. Bond lengths in angstroms, bond angles in degrees and the imaginary frequency in cm⁻¹.
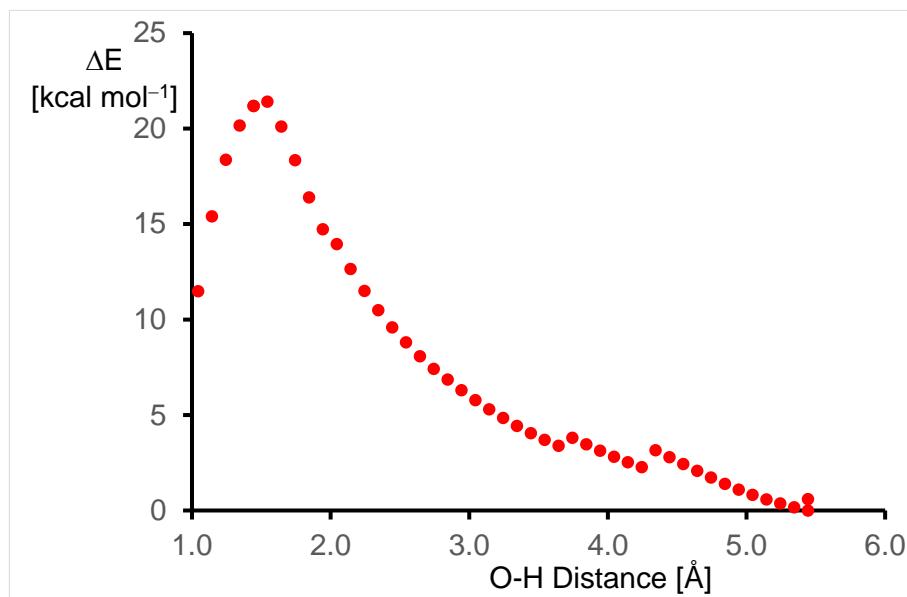
Fig. S14: UB3LYP/BS1 calculated geometry scan for the pathway from ^{5}Re2$_I$ to ^{5}IM5$_I$. Each data point represents a full geometry optimization with fixed O−H distance. The maximum of the scan was used as a starting point for the transition state geometry optimization.
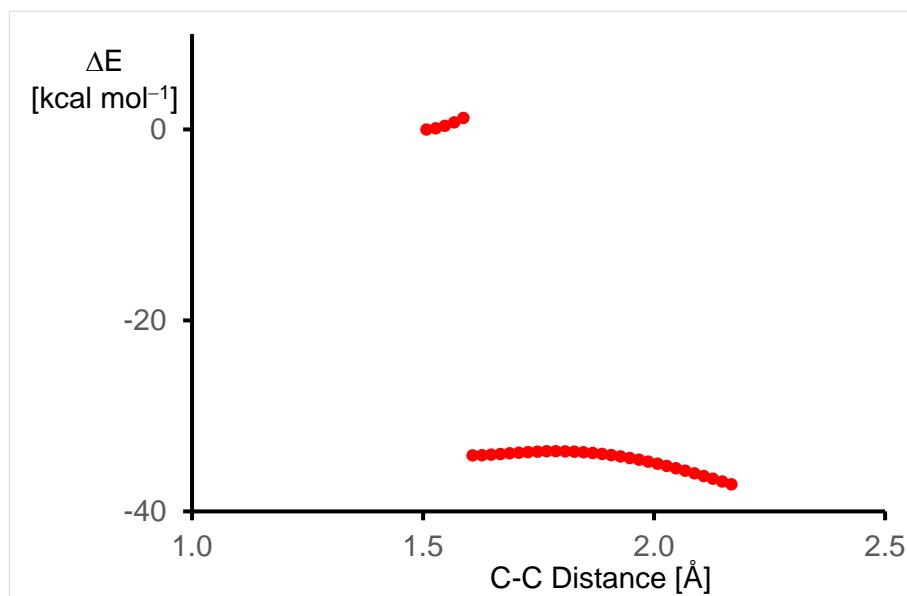
Fig. S15: UB3LYP/BS1 calculated geometry scan for the pathway from ^{5}IM5$_I$ to ^{5}Prod$_I$. Each data point represents a full geometry optimization with fixed O−H distance. The maximum of the scan is about 1.2 kcal mol^{-1} above the energy of ^{5}IM5$_I$.
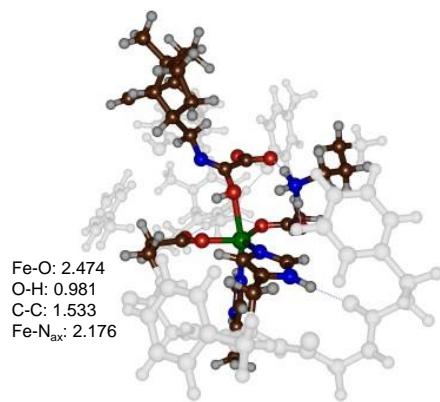
⁵Prod2ₗ

Fig. S16: UB3LYP/BS1 optimized geometries along the reaction mechanism. Bond lengths in angstroms, bond angles in degrees and the imaginary frequency in cm⁻¹.
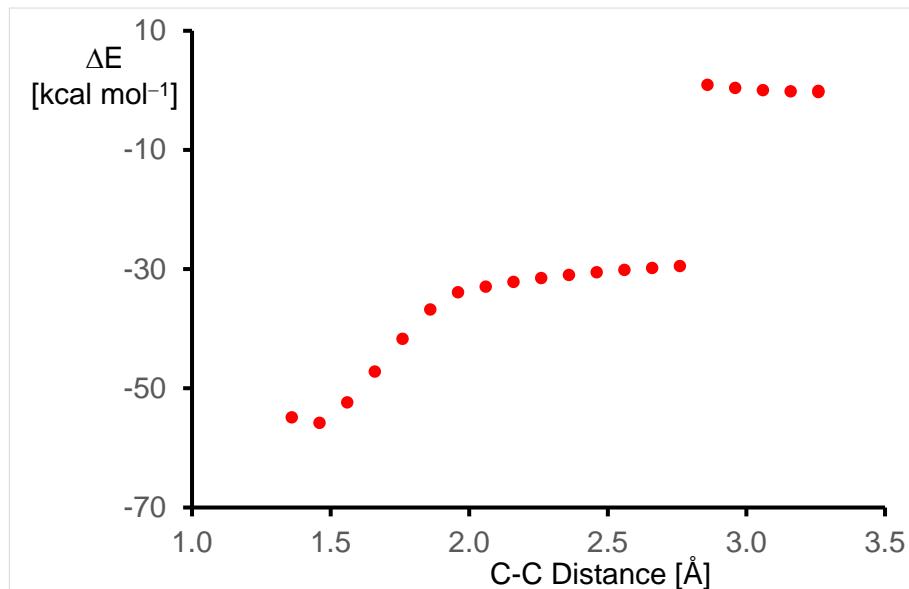

Fig. S17: UB3LYP/BS1 calculated geometry scan for the pathway from ⁵IM5ₗ to ⁵Prod2ₗ. Each data point represents a full geometry optimization with fixed O−H distance. The maximum of the scan is about 1.0 kcal mol⁻¹ above the energy of ⁵IM5ₗ.

Fe-O: 1.767
O-H: 1.203
H-C: 1.320
Fe-N$_{ax}$: 2.234

O-H-C: 165°
Fe-O-C: 152°

i1652 cm^{-1}

^{5}TS3$_I$

Fe-O: 1.782
O-H: 1.218
H-C: 1.310
Fe-N$_{ax}$: 2.173

O-H-C: 164°
Fe-O-C: 154°

i1507 cm^{-1}

^{5}TS3$_{I,6-31G}$

Fig. S18: Optimized geometries along the reaction mechanism as calculated with a different basis set. Left-hand-side UB3LYP/BS1 and right-hand-side UB3LYP/BS0 optimized geometry of ^{5}TS3$_I$. BS0 stands for LANL2DZ with core potential on iron and 6-31G on the rest of the atoms. Bond lengths in angstroms, bond angles in degrees and the imaginary frequency in cm^{-1}. As can be seen an enlarged basis set has little effect on the optimized geometries.

Table S1: Absolute (free) energies of UB3LYP/BS1 optimized geometries for the reaction pathway of γ-Gly-A activation by the iron(IV)-oxo species of ScoE for cycle 1 as obtained in Gaussian-09.

	E [BS1, au]	ZPE [au]	G [au]	E [BS2, au]	E [BS2, solv]	E [BS3, solv]
$^5\text{Re}_\text{I}$	-5086.37245	1.97268	-5084.60447	-5087.67023	-5087.74486	-5087.24294
$^3\text{Re}_\text{I}$	-5086.36832	1.97420	-5084.59716	-5087.66261	-5087.73812	-5087.23730
$^5\text{TS1}_\text{I}$	-5086.35770	1.96363	-5084.60194	-5087.65817	-5087.72184	-5087.22077
$^5\text{IM1}_\text{I}$	-5086.38561	1.96845	-5084.62180	-5087.68674	-5087.75192	-5087.24928
$^5\text{TS2}_\text{I}$	-5086.37727	1.96991	-5084.60951	-5087.67510	-5087.73956	-5087.23360
$^5\text{IM2}_\text{I}$	-5086.45495	1.96918	-5084.69374	-5087.76040	-5087.82636	-5087.31418
$^5\text{TS3}_\text{I}$	-5086.38570	1.96991	-5084.61729	-5087.69227	-5087.76519	-5087.22379
$^5\text{IM3}_\text{I}$	-5086.38570	1.96991	-5084.61729	-5087.69227	-5087.76519	-5087.26173

Table S2: Relative (free) energies of UB3LYP/BS1 optimized geometries for the reaction pathway of γ-Gly-A activation by the iron(IV)-oxo species of ScoE for cycle 1 as obtained in Gaussian-09.

	BS1			BS2			BS2+solvent			BS3+solvent		
	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE	ΔG
$^5\text{Re}_\text{I}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$^3\text{Re}_\text{I}$	2.59	3.54	4.59	4.78	5.73	6.78	4.23	5.18	6.23	3.53	4.49	5.53
$^5\text{TS1}_\text{I}$	9.25	3.57	1.59	7.57	1.89	-0.09	14.44	8.76	6.78	13.91	8.23	6.25
$^5\text{IM1}_\text{I}$	-8.26	-10.92	-10.87	-10.36	-13.02	-12.97	-4.43	-7.09	-7.04	-3.98	-6.64	-6.59
$^5\text{TS2}_\text{I}$	-3.03	-4.77	-3.16	-3.06	-4.80	-3.19	3.33	1.59	3.19	5.86	4.12	5.73
$^5\text{IM2}_\text{I}$	-51.77	-53.97	-56.02	-56.58	-58.78	-60.83	-51.14	-53.34	-55.39	-44.70	-46.90	-48.95
$^5\text{TS3}_\text{I}$	12.68	8.40	9.90	8.78	4.50	5.99	12.76	8.48	9.98	12.01	7.73	9.23
$^5\text{IM3}_\text{I}$	-8.32	-10.06	-8.04	-13.83	-15.57	-13.55	-12.76	-14.50	-12.48	-11.79	-13.54	-11.52

Table S3: Group spin densities of UB3LYP/BS1 optimized geometries for the reaction pathway of γ-Gly-A activation by the iron(IV)-oxo species of ScoE for cycle 1 as obtained in Gaussian-09.

	Fe	O	Succ	Sub	His(ax)	Lys	Prot	Total
$^5\text{Re}_\text{I}$	3.01	0.69	0.15	0.00	-0.01	0.00	0.16	4.00
$^3\text{Re}_\text{I}$	1.15	0.89	-0.02	0.00	-0.01	0.00	-0.02	2.00
$^5\text{TS1}_\text{I}$	3.81	0.41	0.15	-0.22	0.03	-0.01	-0.16	4.00
$^5\text{IM1}_\text{I}$	4.06	0.40	0.21	-0.96	0.05	0.01	0.23	4.00
$^5\text{TS2}_\text{I}$	2.82	0.02	0.10	1.00	-0.02	-0.02	0.10	4.00
$^5\text{IM2}_\text{I}$	3.76	0.02	0.08	0.00	0.04	0.00	0.10	4.00
$^5\text{TS3}_\text{I}$	3.91	0.04	0.24	-0.42	0.05	-0.02	0.20	4.00
$^5\text{IM3}_\text{I}$	4.06	0.42	0.22	-0.98	0.05	-0.01	0.23	4.00

Table S4: Group charges of UB3LYP/BS1 optimized geometries for the reaction pathway of γ-Gly-A activation by the iron(IV)-oxo species of ScoE for cycle 1 as obtained in Gaussian-09.

	Fe	O	Succ	Sub	His(ax)	Lys	Prot	Total
$^5\text{Re}_\text{I}$	0.73	-0.40	-0.32	-0.51	0.28	0.70	0.51	1.00
$^3\text{Re}_\text{I}$	0.61	-0.40	-0.25	-0.51	0.27	0.70	0.58	1.00
$^5\text{TS1}_\text{I}$	0.76	-0.70	-0.36	-0.25	0.25	0.49	0.81	1.00
$^5\text{IM1}_\text{I}$	0.78	-0.80	-0.38	0.10	0.21	0.56	0.53	1.00
$^5\text{TS2}_\text{I}$	0.69	-0.75	-0.34	0.10	0.27	0.52	0.50	1.00
$^5\text{IM2}_\text{I}$	0.57	-0.81	-0.48	0.55	0.17	0.57	0.43	1.00
$^5\text{TS3}_\text{I}$	0.80	-0.69	-0.34	-0.10	0.23	0.58	0.53	1.00
$^5\text{IM3}_\text{I}$	0.80	-0.83	-0.36	-0.06	0.22	0.78	0.46	1.00

Table S5: Absolute (free) energies of UB3LYP/BS1 optimized geometries for the reaction pathway of γ-Gly-A activation by the iron(IV)-oxo species of ScoE for cycle 2 as obtained in Gaussian-09.

	E [BS1, au]	ZPE [au]	G [au]	E [BS2, au]	E [BS2, solv]	E [BS3, solv]
$^5Re2_I$	-5085.16000	1.94823	-5083.41475	-5086.45801	-5086.52479	-5086.02235
$^5TS5_I$	-5085.14073	1.94611	-5083.39354	-5086.43998	-5086.50713	-5086.00525
$^5IM5_I$	-5085.16503	1.94693	-5083.42008	-5086.46716	-5086.53360	-5086.03194
$^5Prod_I$	-5085.22873	1.94320	-5083.49690	-5086.53701	-5086.59841	-5086.08614
$^5Prod2_I$	-5085.25367	1.95015	-5083.50182	-5086.55510	-5086.62381	-5086.11286

Table S6: Relative (free) energies of UB3LYP/BS1 optimized geometries for the reaction pathway of γ-Gly-A activation by the iron(IV)-oxo species of ScoE for cycle 2 as obtained in Gaussian-09.

	BS1			BS2			BS2+solvent			BS3+solvent		
	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE	ΔG
$^5Re2_I$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
$^5TS5_I$	12.09	10.76	13.31	11.31	9.98	12.52	11.09	9.76	12.30	10.73	9.40	11.94
$^5IM5_I$	-3.16	-3.98	-3.35	-5.74	-6.56	-5.93	-5.53	-6.34	-5.71	-6.02	-6.83	-6.20
$^5Prod_I$	-43.13	-46.29	-51.55	-49.57	-52.73	-58.00	-46.20	-49.35	-54.62	-40.03	-43.19	-48.45
$^5Prod2_I$	-58.78	-57.57	-54.64	-60.93	-59.72	-56.79	-62.14	-60.93	-57.99	-56.80	-55.59	-52.65

Table S7: Group spin densities of UB3LYP/BS1 optimized geometries for the reaction pathway of γ-Gly-A activation by the iron(IV)-oxo species of ScoE for cycle 2 as obtained in Gaussian-09.

	Fe	O	Succ	Sub	His(ax)	Lys	Prot	Total
$^5Re2_I$	3.02	0.68	0.14	0.00	-0.01	0.00	0.17	4.00
$^5TS5_I$	3.74	0.29	0.15	-0.40	0.03	0.01	0.17	4.00
$^5IM5_I$	4.08	0.29	0.23	-0.95	0.07	0.00	0.28	4.00
$^5Prod_I$	3.76	0.03	0.07	0.00	0.04	0.00	0.10	4.00
$^5Prod2_I$	3.76	0.01	0.07	0.00	0.05	0.00	0.11	4.00

Table S8: Group charges of UB3LYP/BS1 optimized geometries for the reaction pathway of γ-Gly-A activation by the iron(IV)-oxo species of ScoE for cycle 2 as obtained in Gaussian-09.

	Fe	O	Succ	Sub	His(ax)	Lys	Prot	Total
$^5Re2_I$	0.72	-0.41	-0.35	-0.36	0.27	0.55	0.58	1.00
$^5TS5_I$	0.74	-0.59	-0.38	-0.32	0.24	0.73	0.58	1.00
$^5IM5_I$	0.81	-0.81	-0.37	-0.14	0.22	0.72	0.56	1.00
$^5Prod_I$	0.58	-0.80	-0.48	0.51	0.16	0.54	0.48	1.00
$^5Prod2_I$	0.63	-0.64	-0.50	0.10	0.19	0.74	0.49	1.00

Cartesian coordinates of optimized geometries

γ-Gly-A:

7	-2.092202000	1.366153000	0.202312000
6	1.905450000	-0.634697000	0.420144000
6	0.752069000	0.367359000	0.051066000
6	-0.490292000	-0.523282000	-0.334816000
6	1.118068000	-1.801171000	1.047884000
6	-0.126973000	-1.962974000	0.158693000
6	2.659512000	-1.145827000	-0.839978000
6	1.192347000	1.378565000	-0.997684000
6	-1.854602000	-0.072260000	0.276001000
6	2.896147000	-0.004466000	1.410835000
6	3.082766000	-0.041170000	-1.817932000
6	1.861005000	0.801221000	-2.226541000
6	-3.025580000	-0.877150000	-0.387288000
6	1.089378000	2.702563000	-0.809906000
6	-4.313192000	-0.846189000	0.454360000
6	-3.330474000	-0.407835000	-1.819148000
6	-2.828807000	1.964755000	1.328285000
1	0.500797000	0.921581000	0.963940000
1	-0.592489000	-0.527299000	-1.426189000
1	0.813651000	-1.523629000	2.066955000
1	1.714762000	-2.721917000	1.125936000
1	0.086649000	-2.626207000	-0.689696000
1	-0.950911000	-2.428197000	0.711005000
1	2.018211000	-1.849319000	-1.388913000
1	3.536788000	-1.724385000	-0.512522000
1	-1.823592000	-0.389842000	1.341288000
1	2.377293000	0.331510000	2.316590000
1	3.398765000	0.870930000	0.983233000
1	3.668861000	-0.728324000	1.707679000
1	3.554898000	-0.490581000	-2.704264000
1	3.833762000	0.615047000	-1.356764000
1	1.161639000	0.153010000	-2.780089000
1	2.155764000	1.607425000	-2.910266000
1	-2.708065000	-1.930023000	-0.437919000
1	0.629281000	3.127837000	0.081162000
1	1.436198000	3.394985000	-1.578219000
1	-5.071580000	-1.515032000	0.022764000
1	-4.127286000	-1.169549000	1.486889000
1	-4.738390000	0.162148000	0.494396000
1	-4.155392000	-0.994414000	-2.248053000
1	-2.466450000	-0.516720000	-2.486241000
1	-3.610199000	0.650531000	-1.815190000
6	-2.028677000	3.097510000	2.061143000
1	-1.210365000	1.876819000	0.191413000
1	-3.789014000	2.387371000	1.002728000
1	-3.064034000	1.206957000	2.091864000
8	-2.678575000	3.732449000	2.924585000
8	-0.816922000	3.230730000	1.717466000

γ-Gly-B:

1	2.592910000	-0.932888000	-0.186374000
8	2.249974000	-0.030025000	-0.272081000
6	0.869788000	-0.070831000	-0.257209000
6	0.153369000	-1.263834000	-0.136857000
6	-1.241804000	-1.239123000	-0.130987000
6	-1.962572000	-0.033416000	-0.239091000
6	-1.209102000	1.153471000	-0.368742000
6	0.182753000	1.142049000	-0.375561000
6	-3.427122000	-0.085632000	-0.214752000
6	-4.272351000	0.969503000	-0.137871000
6	-5.739949000	0.882118000	-0.126950000
6	-6.436736000	2.005148000	0.265833000
6	-7.861782000	2.300099000	0.200452000
6	-8.365711000	3.418125000	0.902295000
6	-9.704135000	3.803001000	0.823052000
6	-10.590304000	3.076204000	0.023479000
6	-10.122796000	1.973283000	-0.695420000
6	-8.786632000	1.590658000	-0.604331000
8	-11.929503000	3.408251000	-0.094006000
1	-12.117560000	4.159536000	0.488847000
7	-6.318336000	-0.314867000	-0.509029000
1	-5.828895000	2.818292000	0.659730000
1	-3.847033000	-1.092161000	-0.221011000
6	-7.218527000	-1.076575000	0.370860000
1	-5.649032000	-1.007509000	-0.853086000
6	-6.682252000	-2.547363000	0.535782000
1	-8.239531000	-1.131330000	-0.027890000
1	-7.282937000	-0.603865000	1.357708000
8	-7.377752000	-3.278383000	1.273589000
8	-5.619228000	-2.817681000	-0.098300000
1	-3.873064000	1.980591000	-0.061680000
1	0.750034000	2.063117000	-0.479229000
1	-1.721011000	2.105780000	-0.476722000
1	-1.792438000	-2.171905000	-0.035191000
1	0.680500000	-2.213579000	-0.047671000
1	-8.436143000	0.741988000	-1.179538000
1	-10.816420000	1.416997000	-1.320411000
1	-7.687538000	3.997045000	1.526748000
1	-10.056249000	4.668549000	1.385345000

⁵Reᵢ:

26	2.599402000	-3.002737000	0.601966000
8	3.633968000	-2.180794000	2.079517000
6	3.233544000	-2.119181000	3.333206000
8	2.298332000	-2.750055000	3.811996000
6	4.083287000	-1.196313000	4.217123000
6	4.328374000	0.204487000	3.643530000
7	5.198381000	0.162530000	2.470254000
6	5.786819000	1.283790000	1.984216000
8	5.682048000	2.391153000	2.508301000
6	6.606082000	1.111519000	0.698184000
7	5.979793000	1.905156000	-0.351365000
1	5.049620000	-1.685466000	4.402501000
1	3.572019000	-1.109409000	5.178885000
1	3.370705000	0.684184000	3.395291000
1	5.116940000	-0.671002000	1.897947000
1	4.810566000	0.838745000	4.392142000
1	6.656966000	0.080690000	0.343059000
1	5.687073000	2.846122000	-0.103162000
1	7.626254000	1.461611000	0.896979000
6	5.726936000	1.410051000	-1.582742000
8	6.144342000	0.324892000	-1.990926000
6	4.760933000	2.245064000	-2.443422000
6	3.306074000	2.106183000	-1.881864000
6	2.908575000	0.684333000	-1.635667000
6	2.946798000	-0.066968000	-0.480978000
7	2.588227000	-0.217031000	-2.638934000
6	2.462328000	-1.442159000	-2.083995000
7	2.679401000	-1.383532000	-0.777457000
1	5.026589000	3.307607000	-2.427777000
1	3.247369000	2.664926000	-0.943258000
1	2.639106000	2.598087000	-2.595966000
1	3.183335000	0.245456000	0.524739000
1	2.472770000	-0.006809000	-3.638010000
1	2.187895000	-2.335231000	-2.624212000
7	4.862549000	1.722667000	-3.791911000
6	4.218448000	2.258114000	-4.853256000
8	3.547327000	3.287674000	-4.803723000
6	4.392767000	1.475226000	-6.168101000
7	3.160796000	1.427536000	-6.931102000
1	5.360768000	0.838550000	-3.850894000
1	4.740555000	0.455831000	-5.970691000
1	5.149441000	1.978296000	-6.777196000
1	3.074124000	2.019321000	-7.744723000
6	2.052155000	0.809687000	-6.445325000
8	2.074798000	0.187727000	-5.377624000
6	0.796927000	0.929190000	-7.293012000
6	0.065124000	2.289790000	-7.121999000
1	1.058047000	0.801121000	-8.350988000
1	0.133564000	0.108861000	-7.007609000
1	0.770712000	3.106868000	-7.316812000
1	-0.698028000	2.345026000	-7.906607000
6	-0.593805000	2.497586000	-5.772918000
6	0.094204000	3.113261000	-4.717561000
6	-1.924237000	2.102931000	-5.570686000
6	-0.544522000	3.341995000	-3.495376000
6	-2.564905000	2.330625000	-4.352423000
6	-1.877856000	2.959843000	-3.308325000
1	1.124478000	3.431583000	-4.858294000
1	-2.473498000	1.636255000	-6.385727000
1	-0.009055000	3.858510000	-2.701266000
1	-3.607094000	2.052827000	-4.223767000
1	-2.402010000	3.189496000	-2.383210000
7	4.495919000	-3.651528000	-0.073368000
6	5.570619000	-3.758797000	0.689807000
7	6.595289000	-4.286395000	-0.020565000
6	6.159990000	-4.536169000	-1.313833000
6	4.849835000	-4.134788000	-1.319888000
6	7.036955000	-5.116633000	-2.373495000
1	7.425747000	-6.101797000	-2.087757000
1	6.467491000	-5.240456000	-3.298202000
1	4.133081000	-4.178268000	-2.123770000
1	7.521099000	-4.473686000	0.339040000
1	5.627006000	-3.473915000	1.727724000
1	7.894005000	-4.468266000	-2.593858000
8	2.177652000	-5.023757000	0.909817000
6	1.787400000	-5.196370000	-0.292111000
8	1.835975000	-4.223023000	-1.102900000
6	1.249842000	-6.539979000	-0.719693000
1	0.173199000	-6.571046000	-0.513650000
1	1.396066000	-6.687214000	-1.792040000
1	1.727290000	-7.342911000	-0.153418000
7	-0.599160000	-2.387777000	3.651726000
6	-1.587146000	-3.278080000	3.581960000
7	-2.844625000	-2.859889000	3.380840000
7	-1.347155000	-4.595852000	3.748075000
6	-0.007666000	-5.180752000	3.880220000
6	-0.113876000	-6.642905000	4.303353000
1	-0.624477000	-6.742643000	5.267426000
1	0.887568000	-7.072842000	4.399386000
1	0.546847000	-4.613485000	4.634049000
1	0.546197000	-5.092820000	2.937392000
1	-2.117651000	-5.226607000	3.559007000
1	-0.804773000	-1.402277000	3.424428000
1	0.375674000	-2.675707000	3.586877000
1	-3.619866000	-3.507589000	3.433244000
1	-3.047779000	-1.856858000	3.237653000
1	-0.659873000	-7.236390000	3.559713000
8	1.136676000	-2.537308000	1.117988000
6	-4.925718000	-6.296616000	5.964122000
6	-4.916318000	-6.032636000	4.476175000
6	-4.186142000	-6.851866000	3.600566000
6	-5.667307000	-4.981777000	3.926036000
6	-4.210891000	-6.632621000	2.218616000
6	-5.698849000	-4.759737000	2.545588000
6	-4.967506000	-5.585623000	1.686869000
1	-5.014713000	-5.367526000	6.536807000
1	-4.015193000	-6.810933000	6.288866000
1	-3.608564000	-7.681047000	4.004211000
1	-6.242312000	-4.330154000	4.579184000
1	-3.646599000	-7.287413000	1.559210000
1	-6.293101000	-3.940702000	2.149726000
1	-4.991105000	-5.416638000	0.613980000
1	-5.775953000	-6.932524000	6.243318000
6	-8.677442000	2.261657000	-4.310853000
6	-7.532114000	2.648386000	-3.403124000
6	-6.814923000	3.833820000	-3.600670000
6	-7.169020000	1.843039000	-2.312565000
6	-5.772295000	4.206981000	-2.749246000
6	-6.138063000	2.200087000	-1.445277000
6	-5.434893000	3.389114000	-1.667771000
8	-4.401834000	3.691474000	-0.807602000
1	-8.649083000	2.820911000	-5.251872000
1	-9.648663000	2.464059000	-3.840240000
1	-7.070249000	4.481608000	-4.436186000
1	-7.712955000	0.919055000	-2.127856000
1	-5.222526000	5.128231000	-2.929308000
1	-5.889526000	1.579982000	-0.588332000
1	-4.188537000	4.643008000	-0.855519000
1	-8.655977000	1.193113000	-4.554603000
6	-9.900179000	-2.664415000	4.254141000
6	-8.762108000	-1.991192000	3.520933000
6	-7.600330000	-1.582902000	4.187400000
6	-8.843679000	-1.726214000	2.144963000

6	-6.558548000	-0.932652000	3.521219000
6	-7.816375000	-1.078245000	1.462939000
6	-6.662453000	-0.673038000	2.147796000
8	-5.683381000	-0.026881000	1.449447000
1	-9.581744000	-3.033661000	5.234846000
1	-10.297345000	-3.516009000	3.689164000
1	-7.508651000	-1.762326000	5.257125000
1	-9.731601000	-2.031815000	1.595057000
1	-5.669249000	-0.618154000	4.060229000
1	-7.894245000	-0.877238000	0.398195000
1	-4.853429000	0.013697000	1.998260000
1	-10.736710000	-1.973166000	4.422765000
6	-4.535135000	-1.430730000	-1.966830000
6	-3.120150000	-0.841104000	-1.927519000
6	-2.451725000	-1.061963000	-0.562984000
6	-0.972309000	-0.699234000	-0.483810000
7	-0.692700000	0.771242000	-0.708724000
1	-5.146371000	-1.025853000	-1.152978000
1	-4.505728000	-2.521315000	-1.852938000
1	-3.179963000	0.232445000	-2.155691000
1	-2.505237000	-1.293387000	-2.719485000
1	-3.020494000	-0.550875000	0.220766000
1	-2.502342000	-2.128826000	-0.306909000
1	-0.399991000	-1.246422000	-1.237728000
1	-0.556088000	-0.936177000	0.495266000
1	-1.117558000	1.115949000	-1.578136000
1	0.321413000	0.900564000	-0.802425000
1	-1.016727000	1.438140000	0.134417000
1	-5.033930000	-1.204933000	-2.915255000
6	-5.802672000	7.672461000	4.250061000
6	-5.828099000	6.249590000	3.738891000
6	-5.324833000	5.195266000	4.513652000
6	-6.393856000	5.942198000	2.491653000
6	-5.396961000	3.873697000	4.064140000
6	-6.459478000	4.624473000	2.034104000
6	-5.964440000	3.581583000	2.821339000
1	-5.685995000	8.393276000	3.433178000
1	-4.985390000	7.830404000	4.962090000
1	-4.886112000	5.410287000	5.485901000
1	-6.799716000	6.745611000	1.879504000
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1	-6.021431000	2.555544000	2.468560000
1	-6.736974000	7.923169000	4.769759000
6	3.763972000	6.511506000	-2.963973000
6	4.506600000	6.085755000	-1.718203000
6	3.818677000	5.617663000	-0.587994000
6	5.909144000	6.113920000	-1.670824000
6	4.506427000	5.175899000	0.546092000
6	6.602426000	5.680077000	-0.538635000
6	5.904845000	5.204613000	0.575970000
1	2.762715000	6.886486000	-2.724674000
1	4.300422000	7.302820000	-3.498173000
1	2.730327000	5.608325000	-0.595430000
1	6.462400000	6.486787000	-2.529880000
1	3.960671000	4.816050000	1.414333000
1	7.688494000	5.719601000	-0.524443000
1	6.431018000	4.851511000	1.457510000
1	3.645555000	5.666937000	-3.655736000
8	-1.159028000	0.265593000	2.786282000
6	-2.356824000	0.566411000	2.566091000
8	-3.376239000	-0.146573000	2.825132000
6	-2.630305000	1.937723000	1.929723000
7	-1.393386000	2.466394000	1.327568000
6	-1.450540000	3.876980000	0.879309000
1	-3.036146000	2.592053000	2.712527000
1	-3.404273000	1.866562000	1.159463000

1	-0.651220000	2.317882000	2.014414000
1	-0.495304000	4.082678000	0.378151000
6	-0.883305000	7.300279000	2.082446000
6	-2.032047000	6.394367000	1.517239000
6	-1.699549000	4.914369000	1.985573000
6	-0.463975000	6.535006000	3.358743000
6	-0.513074000	5.046797000	2.976597000
6	0.306048000	7.384055000	1.091512000
6	-2.325824000	6.640604000	0.047280000
6	-1.398608000	8.710176000	2.413522000
6	-0.109003000	7.768721000	-0.333983000
6	-1.141907000	6.769565000	-0.887814000
6	-3.581774000	6.842068000	-0.386014000
1	-2.941968000	6.667206000	2.062734000
1	0.425076000	4.749176000	2.487036000
1	-0.625793000	4.398780000	3.852728000
1	-2.216660000	8.662931000	3.142118000
1	-1.779841000	9.229393000	1.527458000
1	-0.601591000	9.327367000	2.845596000
1	0.771357000	7.792399000	-0.988833000
1	-0.534675000	8.779393000	-0.350154000
1	-0.646405000	5.793991000	-1.003959000
1	-1.480089000	7.070131000	-1.886003000
1	-3.790182000	7.097514000	-1.423840000
1	-2.586347000	4.585452000	2.536194000
1	-4.431451000	6.814352000	0.293036000
1	0.518253000	6.848390000	3.732428000
1	0.823080000	6.414476000	1.050246000
1	1.040619000	8.101930000	1.478714000
1	-1.191191000	6.736726000	4.156354000
1	-2.238786000	3.930629000	0.125061000

³Reı:

26	2.580929000	-3.046068000	0.401482000
8	3.533598000	-2.098143000	1.796324000
6	3.211997000	-2.188803000	3.066842000
8	2.278566000	-2.829290000	3.538304000
6	4.154923000	-1.409243000	3.997671000
6	4.486963000	0.019026000	3.552712000
7	5.337745000	0.034869000	2.364773000
6	6.004849000	1.156064000	1.988883000
8	6.007290000	2.198461000	2.639812000
6	6.764882000	1.069413000	0.657779000
7	6.042868000	1.844495000	-0.344967000
1	5.087281000	-1.980837000	4.108306000
1	3.677413000	-1.379412000	4.980210000
1	3.560489000	0.582726000	3.370295000
1	5.167840000	-0.710738000	1.698610000
1	5.021926000	0.546846000	4.346568000
1	6.860679000	0.052371000	0.273710000
1	5.760863000	2.786569000	-0.088536000
1	7.767533000	1.481585000	0.817647000
6	5.755231000	1.357263000	-1.571812000
8	6.168534000	0.280013000	-2.004470000
6	4.763396000	2.196650000	-2.398064000
6	3.319216000	2.036052000	-1.817427000
6	2.930722000	0.607155000	-1.600466000
6	2.969422000	-0.164163000	-0.460003000
7	2.616132000	-0.274224000	-2.623862000
6	2.489996000	-1.509361000	-2.095345000
7	2.705375000	-1.472177000	-0.786915000
1	5.019966000	3.261106000	-2.367130000
1	3.272367000	2.570176000	-0.863868000
1	2.640001000	2.543036000	-2.509618000
1	3.191053000	0.121103000	0.555367000
1	2.504671000	-0.045759000	-3.619472000
1	2.221847000	-2.391898000	-2.655753000

7	4.848919000	1.701857000	-3.757910000	6	-5.690867000	-4.920104000	4.046802000
6	4.194687000	2.260470000	-4.800980000	6	-4.287257000	-6.621982000	2.345635000
8	3.518179000	3.284412000	-4.719905000	6	-5.752061000	-4.729471000	2.662685000
6	4.368704000	1.513425000	-6.136183000	6	-5.047273000	-5.580900000	1.807064000
7	3.130151000	1.457273000	-6.887771000	1	-4.986157000	-5.252020000	6.650687000
1	5.355567000	0.824730000	-3.842808000	1	-3.998253000	-6.705208000	6.413874000
1	4.741597000	0.497498000	-5.967854000	1	-3.653111000	-7.634755000	4.140856000
1	5.107222000	2.048250000	-6.740416000	1	-6.245612000	-4.249007000	4.697870000
1	3.030832000	2.047563000	-7.700974000	1	-3.743605000	-7.296485000	1.688730000
6	2.039303000	0.803695000	-6.409751000	1	-6.347230000	-3.913708000	2.261610000
8	2.078514000	0.170874000	-5.348685000	1	-5.093060000	-5.435690000	0.731478000
6	0.783689000	0.891901000	-7.261428000	1	-5.760042000	-6.819735000	6.410026000
6	0.041724000	2.251649000	-7.137400000	6	-8.650481000	2.257205000	-4.418485000
1	1.049321000	0.730999000	-8.313941000	6	-7.524958000	2.653700000	-3.490422000
1	0.125341000	0.076443000	-6.951857000	6	-6.832382000	3.858112000	-3.659366000
1	0.740338000	3.068113000	-7.358839000	6	-7.157614000	1.838858000	-2.408346000
1	-0.720759000	2.275207000	-7.924125000	6	-5.809162000	4.240421000	-2.788710000
6	-0.620007000	2.497587000	-5.796071000	6	-6.145938000	2.204707000	-1.522059000
6	0.070599000	3.128912000	-4.751533000	6	-5.466519000	3.412390000	-1.716575000
6	-1.954685000	2.119669000	-5.590375000	8	-4.450499000	3.722364000	-0.839476000
6	-0.570480000	3.389851000	-3.537124000	1	-8.611706000	2.818576000	-5.357900000
6	-2.597556000	2.378997000	-4.379585000	1	-9.631670000	2.449138000	-3.964364000
6	-1.908129000	3.024141000	-3.346916000	1	-7.091862000	4.513764000	-4.487446000
1	1.104902000	3.433614000	-4.892814000	1	-7.683141000	0.900323000	-2.245206000
1	-2.505212000	1.640471000	-6.397224000	1	-5.278157000	5.176602000	-2.946903000
1	-0.032620000	3.917788000	-2.752199000	1	-5.895745000	1.577395000	-0.670828000
1	-3.642319000	2.112518000	-4.248595000	1	-4.251378000	4.677573000	-0.874289000
1	-2.432519000	3.276380000	-2.427902000	1	-8.614030000	1.189431000	-4.663458000
7	4.549317000	-3.623953000	-0.254467000	6	-9.934322000	-2.494883000	4.363537000
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7	6.692830000	-4.101534000	-0.195276000	6	-7.606646000	-1.482315000	4.222697000
6	6.267652000	-4.446374000	-1.468759000	6	-8.907808000	-1.612738000	2.215801000
6	4.930478000	-4.142058000	-1.477727000	6	-6.564077000	-0.871803000	3.520836000
6	7.176492000	-5.013859000	-2.508650000	6	-7.880534000	-1.004209000	1.498651000
1	7.634358000	-5.955842000	-2.182138000	6	-6.697074000	-0.625763000	2.147513000
1	6.612063000	-5.219039000	-3.422009000	8	-5.718492000	-0.017365000	1.415197000
1	4.216170000	-4.276002000	-2.274904000	1	-9.607819000	-2.832091000	5.353031000
1	7.632348000	-4.202949000	0.162926000	1	-10.349383000	-3.361669000	3.835421000
1	5.677794000	-3.281876000	1.522439000	1	-7.491704000	-1.651460000	5.291866000
1	7.985876000	-4.319422000	-2.765981000	1	-9.818842000	-1.898062000	1.693475000
8	2.433297000	-4.950626000	1.081575000	1	-5.651542000	-0.577931000	4.031890000
6	2.025756000	-5.290581000	-0.071794000	1	-7.980820000	-0.813205000	0.433955000
8	1.962709000	-4.369751000	-0.962681000	1	-4.875171000	0.011546000	1.944159000
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1	0.515663000	-6.762945000	-0.356601000	6	-4.589944000	-1.396185000	-1.973693000
1	1.932823000	-6.972372000	-1.393855000	6	-3.196616000	-0.756309000	-1.955277000
1	2.023795000	-7.391758000	0.349380000	6	-2.454518000	-1.049271000	-0.643476000
7	-0.585773000	-2.401500000	3.507590000	6	-0.981088000	-0.656278000	-0.611186000
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7	-2.845969000	-2.860719000	3.341903000	1	-5.176271000	-1.071500000	-1.107056000
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6	-0.012299000	-5.175258000	3.882883000	1	-3.308006000	0.327894000	-2.096950000
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1	-0.647145000	-6.689780000	5.313586000	1	-2.993558000	-0.604888000	0.199424000
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1	0.534536000	-4.580782000	4.621405000	1	-0.431821000	-1.160273000	-1.411555000
1	0.555850000	-5.116346000	2.946625000	1	-0.518334000	-0.926335000	0.338100000
1	-2.125991000	-5.227926000	3.568813000	1	-1.184175000	1.186530000	-1.647343000
1	-0.795521000	-1.417541000	3.280550000	1	0.269441000	0.979990000	-0.900914000
1	0.382463000	-2.700622000	3.388075000	1	-1.060111000	1.470561000	0.068238000
1	-3.623391000	-3.493318000	3.477836000	1	-5.140052000	-1.123017000	-2.880388000
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1	-0.661249000	-7.241214000	3.623849000	6	-5.891291000	6.244512000	3.714755000
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1	-4.942003000	5.385697000	5.448377000
1	-6.867742000	6.761443000	1.863683000
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1	-6.954753000	4.435131000	1.015386000
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1	-6.804945000	7.887849000	4.788941000
6	3.761130000	6.442691000	-2.711806000
6	4.512692000	5.987891000	-1.481524000
6	3.832623000	5.501216000	-0.354248000
6	5.915665000	6.010017000	-1.445395000
6	4.528307000	5.036373000	0.765681000
6	6.616723000	5.552606000	-0.327123000
6	5.927211000	5.058903000	0.784999000
1	2.761487000	6.811470000	-2.456439000
1	4.293487000	7.247156000	-3.230229000
1	2.744226000	5.496528000	-0.352203000
1	6.463289000	6.397772000	-2.301470000
1	3.986710000	4.665271000	1.631905000
1	7.703015000	5.587941000	-0.321343000
1	6.460444000	4.684171000	1.653278000
1	3.637669000	5.616520000	-3.424808000
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6	-2.371154000	0.564131000	2.481588000
8	-3.384372000	-0.157202000	2.743416000
6	-2.659424000	1.946066000	1.875357000
7	-1.430955000	2.490941000	1.270853000
6	-1.500212000	3.905340000	0.837182000
1	-3.059699000	2.583517000	2.674794000
1	-3.441024000	1.885525000	1.111905000
1	-0.682653000	2.339487000	1.950212000
1	-0.545458000	4.124900000	0.340936000
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6	-1.762228000	4.929532000	1.952861000
6	-0.544985000	6.543635000	3.350176000
6	-0.582526000	5.059198000	2.952199000
6	0.231827000	7.421648000	1.096260000
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6	-1.488567000	8.722676000	2.422527000
6	-0.177786000	7.817847000	-0.327715000
6	-1.201487000	6.818107000	-0.897412000
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1	0.360438000	4.772509000	2.465307000
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1	0.433146000	6.859473000	3.732461000
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1	-2.287051000	3.959404000	0.081440000

⁵TS1ᵢ:

26	1.114499000	-1.094954000	0.695719000
8	2.484301000	-0.292076000	1.948075000

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6	4.248036000	1.249533000	3.421788000
7	5.119974000	0.765780000	2.354956000
6	6.228233000	1.446031000	1.962918000
8	6.637813000	2.467246000	2.508303000
6	6.966940000	0.854699000	0.751825000
7	6.617792000	1.594977000	-0.455957000
1	4.192905000	-0.633076000	4.504471000
1	2.912504000	0.485687000	4.935140000
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8	6.079397000	-0.231038000	-1.718658000
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6	4.306822000	2.539568000	-2.366026000
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7	2.661909000	0.672998000	-2.907912000
6	1.880471000	-0.187444000	-2.221050000
7	1.962617000	0.050535000	-0.918329000
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1	4.420678000	3.242456000	-1.535253000
1	3.995073000	3.121817000	-3.238345000
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1	1.284298000	-0.965111000	-2.672118000
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6	5.494949000	1.685613000	-5.146909000
8	5.380381000	2.890324000	-5.363295000
6	5.446044000	0.655630000	-6.290417000
7	4.395456000	0.956306000	-7.243380000
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1	5.300682000	-0.356890000	-5.899959000
1	6.402580000	0.681288000	-6.820632000
1	4.647489000	1.392043000	-8.118762000
6	3.085385000	0.911313000	-6.879725000
8	2.744288000	0.530611000	-5.755406000
6	2.084931000	1.349149000	-7.936082000
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6	-0.625772000	4.211518000	-5.518423000
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1	-1.366494000	-4.313455000	-1.485000000	6	-3.649181000	1.524483000	-4.355698000
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1	0.937965000	-3.817887000	4.929162000	1	-3.651642000	-1.377588000	-2.379475000
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1	0.302682000	-5.590128000	6.639857000	6	-4.794092000	4.017530000	4.890197000
8	-0.157383000	0.009525000	1.099069000	6	-4.751460000	2.685019000	4.454571000
6	-4.612133000	-4.739075000	8.649645000	6	-5.841707000	4.832013000	4.434540000
6	-4.339918000	-5.269592000	7.261453000	6	-5.734707000	2.177637000	3.601419000
6	-3.246960000	-6.113224000	7.010947000	6	-6.822873000	4.329313000	3.576919000
6	-5.194570000	-4.961821000	6.191057000	6	-6.775264000	2.997166000	3.158325000
6	-3.017553000	-6.638718000	5.734679000	1	-3.610741000	5.629954000	5.731855000
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1	-5.094202000	-3.756530000	8.617977000	1	-5.891602000	5.868947000	4.760493000
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1	-6.051752000	-4.314860000	6.363915000	1	-7.537160000	2.607289000	2.489820000
1	-2.174626000	-7.305357000	5.569583000	1	-4.063890000	4.384491000	6.896318000
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1	-3.702726000	-6.731183000	3.687625000	6	6.993480000	5.680985000	-2.585190000
1	-5.281539000	-5.412186000	9.200976000	6	5.959822000	5.937568000	-1.670540000
6	-11.170707000	2.597846000	-0.276855000	6	8.158350000	5.062988000	-2.105876000
6	-9.668862000	2.732542000	-0.373465000	6	6.075754000	5.571988000	-0.327581000
6	-9.041359000	3.980539000	-0.271235000	6	8.282024000	4.699057000	-0.761826000
6	-8.852578000	1.611202000	-0.593097000	6	7.237783000	4.945021000	0.136691000
6	-7.657320000	4.115198000	-0.387854000	1	6.175417000	6.883785000	-4.190046000
6	-7.470536000	1.725648000	-0.712142000	1	7.809024000	6.273123000	-4.502179000
6	-6.865105000	2.983619000	-0.608403000	1	5.056727000	6.435804000	-2.016820000
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1	-11.618246000	3.457512000	0.232473000	1	5.264920000	5.787653000	0.363682000
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1	-9.644004000	4.869397000	-0.099510000	1	7.323745000	4.645350000	1.177219000
1	-9.306310000	0.625359000	-0.667440000	1	6.420544000	5.181187000	-4.607062000
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6	-7.838475000	-3.781545000	-0.963867000	1	-3.854293000	-0.146534000	0.081381000
6	-6.893779000	-2.288282000	1.202270000	1	-1.074164000	0.525495000	0.739769000
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1	-0.160878000	6.730155000	-1.323672000
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6	-6.782860000	-2.408615000	1.324182000
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6	-5.941788000	-2.873154000	0.286325000
8	-4.620818000	-2.662607000	0.282659000
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1	-8.293616000	-4.384841000	-1.659873000
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6	-3.210221000	0.387037000	0.710036000
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7	6.928557000	0.940896000	-0.680175000	6	-1.709711000	-3.465046000	-0.635869000
1	4.107413000	-0.707835000	4.319286000	1	-2.707039000	-3.085611000	-0.378633000
1	3.003553000	0.599071000	4.705912000	1	-1.689797000	-3.724793000	-1.696449000
1	3.739311000	1.868175000	2.675801000	1	-1.532656000	-4.356552000	-0.027109000
1	4.706581000	-0.259915000	1.505726000	7	-0.991022000	-1.421065000	4.150209000
1	5.072933000	1.572213000	3.795723000	6	-1.750497000	-2.330411000	4.752942000
1	6.629189000	-0.819781000	0.356086000	7	-3.089027000	-2.206714000	4.708398000
1	7.221451000	1.914100000	-0.650602000	7	-1.207181000	-3.336469000	5.467825000
1	8.117893000	0.041782000	0.809211000	6	0.227693000	-3.546180000	5.668634000
6	6.446540000	0.418101000	-1.827551000	6	0.480312000	-4.305805000	6.968808000
8	6.166107000	-0.776035000	-1.978835000	1	0.109455000	-3.743578000	7.831886000
6	6.177129000	1.428292000	-2.954226000	1	1.553953000	-4.471556000	7.101245000
6	4.900751000	2.272414000	-2.632644000	1	0.719807000	-2.571133000	5.692378000
6	3.707187000	1.448833000	-2.271338000	1	0.655706000	-4.091027000	4.816091000
6	3.157565000	1.160658000	-1.045632000	1	-1.831777000	-4.085362000	5.746747000
7	2.965109000	0.714235000	-3.182448000	1	-1.454986000	-0.671539000	3.623153000
6	2.026992000	0.021342000	-2.505688000	1	-0.007658000	-1.595217000	3.916758000
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1	4.704457000	2.898296000	-3.508015000	8	-0.268984000	0.694251000	0.496274000
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1	3.083460000	0.698097000	-4.201477000	6	-4.689332000	-4.811646000	7.122611000
1	1.315128000	-0.650322000	-2.960134000	6	-3.623419000	-5.696630000	6.893355000
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8	6.046432000	2.416487000	-5.620205000	6	-5.270600000	-4.988601000	4.756887000
6	5.718347000	0.206110000	-6.547572000	6	-4.208392000	-5.871111000	4.546064000
7	4.739482000	0.689290000	-7.502113000	1	-5.460334000	-3.300961000	8.472902000
1	5.888773000	-0.339859000	-4.021771000	1	-4.061015000	-4.189160000	9.102811000
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1	6.666047000	0.064717000	-7.075336000	1	-6.339614000	-3.785699000	6.189825000
1	5.067081000	1.079525000	-8.373876000	1	-2.567699000	-6.925514000	5.470804000
6	3.440754000	0.872386000	-7.141793000	1	-5.915333000	-4.704364000	3.929101000
8	3.034373000	0.551019000	-6.020503000	1	-4.027323000	-6.281721000	3.557033000
6	2.535331000	1.485899000	-8.196315000	1	-5.648883000	-4.957585000	9.052591000
6	2.647896000	3.034286000	-8.271411000	6	-10.487995000	0.102721000	0.533386000
1	2.774498000	1.063837000	-9.180537000	6	-9.348715000	0.997027000	0.101677000
1	1.510597000	1.200237000	-7.945262000	6	-9.292608000	2.343348000	0.479669000
1	3.688607000	3.311862000	-8.479140000	6	-8.317062000	0.506602000	-0.713736000
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6	3.060417000	4.139200000	-6.023818000	6	-7.230601000	2.664293000	-0.738062000
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6	2.604087000	4.804604000	-4.883442000	1	-11.014163000	0.515639000	1.400490000
6	0.345355000	4.714179000	-5.728559000	1	-10.128345000	-0.897841000	0.798291000
6	1.246395000	5.092697000	-4.730717000	1	-10.080825000	2.756901000	1.104854000
1	4.119209000	3.916477000	-6.131467000	1	-8.326094000	-0.537351000	-1.017684000
1	0.097669000	3.775653000	-7.649600000	1	-8.230009000	4.220410000	0.376053000
1	3.314464000	5.111268000	-4.119752000	1	-6.482888000	0.935187000	-1.773138000
1	-0.711530000	4.947587000	-5.628092000	1	-6.179628000	4.292071000	-0.716069000
1	0.895095000	5.620814000	-3.848154000	1	-11.227660000	-0.020329000	-0.268977000
7	2.486472000	-2.362308000	0.232024000	6	-10.082277000	-4.705998000	0.747626000
6	2.397688000	-3.458572000	0.963172000	6	-8.734113000	-4.028129000	0.653902000
7	3.522011000	-4.209161000	0.830745000	6	-8.215805000	-3.279883000	1.718117000
6	4.389622000	-3.556202000	-0.032874000	6	-7.944430000	-4.142950000	-0.501073000
6	3.722695000	-2.410816000	-0.389004000	6	-6.958599000	-2.673871000	1.645979000
6	5.725639000	-4.090740000	-0.432677000	6	-6.688042000	-3.548701000	-0.591268000
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6	-4.075557000	3.796282000	-4.528945000		6	-5.465340000	6.060744000	0.706960000
6	-3.011515000	2.754494000	-4.164122000		1	-3.910795000	5.277016000	2.554295000
6	-3.628231000	1.419855000	-3.723418000		1	-0.668762000	3.711949000	1.043410000
6	-2.615382000	0.325854000	-3.372452000		1	-1.100851000	2.866394000	2.515039000
7	-1.773048000	0.682427000	-2.210984000		1	-2.806918000	6.939720000	3.839494000
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1	-2.343353000	2.585900000	-5.021122000		1	-2.642759000	8.261767000	0.196939000
1	-4.283792000	1.595606000	-2.859255000		1	-3.015057000	5.601931000	-1.264230000
1	-4.272618000	1.040854000	-4.528712000		1	-4.123649000	6.967196000	-1.318242000
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1	-1.240465000	-0.131004000	-1.891005000		1	-0.065552000	5.370275000	2.739778000
1	-2.442659000	1.274926000	-0.764651000		1	-0.848460000	5.775517000	0.168122000
1	-3.621181000	4.753547000	-4.810163000		1	-0.476356000	7.281177000	0.989522000
6	-3.535333000	4.039481000	6.390784000		1	-1.459966000	4.941109000	3.733464000
6	-4.660871000	3.672918000	5.450091000		1	-4.056558000	3.451973000	-0.269417000
6	-4.712264000	2.407148000	4.847350000					
6	-5.700665000	4.575621000	5.184236000		**⁵TS2ᵢ:**			
6	-5.774783000	2.049491000	4.013130000		26	0.728432000	-1.562447000	-0.151733000
6	-6.763358000	4.224181000	4.347850000		8	2.395612000	-1.508461000	1.075054000
6	-6.805360000	2.958320000	3.758062000		6	2.534768000	-1.181765000	2.344778000
1	-3.351724000	5.119343000	6.399114000		8	1.577410000	-0.798105000	3.085247000
1	-2.601356000	3.537213000	6.115804000		6	3.947061000	-1.286362000	2.902890000
1	-3.912631000	1.693016000	5.031475000		6	4.975660000	-0.437683000	2.134445000
1	-5.681846000	5.561278000	5.644413000		7	5.166385000	-0.929514000	0.763390000
1	-5.792912000	1.058658000	3.566947000		6	6.208083000	-0.496529000	0.007079000
1	-7.562667000	4.938241000	4.164848000		8	7.047989000	0.340505000	0.421822000
1	-7.628995000	2.681727000	3.106065000		6	6.306798000	-1.048472000	-1.414687000
1	-3.769494000	3.744318000	7.422379000		7	6.046706000	0.040342000	-2.366107000
6	8.093710000	5.216735000	-4.322354000		1	4.255702000	-2.339788000	2.878378000
6	8.087388000	4.893681000	-2.846104000		1	3.926127000	-0.962347000	3.945975000
6	7.070080000	5.372877000	-2.005332000		1	4.662655000	0.615424000	2.118351000
6	9.079609000	4.079576000	-2.279811000		1	4.411783000	-1.489820000	0.378858000
6	7.032334000	5.035258000	-0.650873000		1	5.942269000	-0.466457000	2.646178000
6	9.049702000	3.741753000	-0.923292000		1	5.589267000	-1.845034000	-1.614863000
6	8.020740000	4.211670000	-0.099642000		1	6.511219000	0.927919000	-2.189751000
1	7.645635000	6.196582000	-4.519078000		1	7.317702000	-1.447996000	-1.553409000
1	9.111929000	5.223994000	-4.725481000		6	5.247824000	-0.114512000	-3.444589000
1	6.302578000	6.023635000	-2.419145000		8	4.763650000	-1.227338000	-3.795930000
1	9.890469000	3.714571000	-2.906438000		6	4.848527000	1.162674000	-4.189219000
1	6.238775000	5.425405000	-0.018457000		6	3.833538000	2.000086000	-3.326152000
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8	-2.244817000	0.567052000	2.501596000		6	0.793463000	0.000866000	-2.798497000
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8	-4.088092000	-0.729904000	2.466986000		1	5.720131000	1.796986000	-4.384913000
6	-3.924594000	0.903949000	0.744121000		1	4.383130000	2.443116000	-2.490201000
7	-3.011301000	1.726593000	0.030586000		1	3.488608000	2.825525000	-3.956324000
6	-3.050762000	3.167682000	0.080417000		1	3.214499000	0.528615000	-0.741245000
1	-4.785237000	1.483353000	1.092175000		1	1.350000000	1.146352000	-4.499554000
1	-4.273360000	0.101918000	0.084388000		1	-0.141616000	-0.433609000	-3.107404000
1	-0.853667000	0.710726000	1.283953000		7	4.245120000	0.741374000	-5.447643000
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6	-1.117810000	5.063797000	2.696971000		1	4.001065000	-0.243461000	-5.487291000

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6	1.039776000	2.124267000	-7.281655000	1	-4.894707000	-4.444693000	5.160772000
8	0.960476000	1.617627000	-6.130461000	1	-2.928749000	-5.960682000	5.406551000
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1	-0.394420000	4.906558000	-8.824078000	6	-6.594236000	0.381317000	-2.885903000
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6	1.968303000	5.291028000	-6.396148000	6	-5.981412000	0.185997000	-1.644747000
6	-0.239985000	6.262440000	-6.583755000	8	-5.358217000	1.226725000	-0.941777000
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6	1.668969000	-4.465470000	-0.799457000	6	-7.836056000	-3.545227000	4.159336000
7	2.558426000	-5.206825000	-1.525036000	6	-7.288561000	-2.279180000	4.423019000
6	3.289613000	-4.353449000	-2.359226000	6	-7.231255000	-4.320552000	3.151395000
6	2.800173000	-3.094404000	-2.095803000	6	-6.184572000	-1.792559000	3.711695000
6	4.345826000	-4.816084000	-3.306318000	6	-6.129634000	-3.851456000	2.433717000
1	3.935860000	-5.453123000	-4.100304000	6	-5.600271000	-2.581769000	2.709737000
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6	0.746277000	-2.605205000	6.618764000	1	1.399822000	1.931656000	4.204108000
6	1.013694000	-3.636475000	7.716399000	1	2.552553000	3.195522000	4.628243000
1	0.467039000	-3.386721000	8.631472000	1	-0.345439000	3.724709000	3.763227000
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8	-1.629578000	1.412249000	3.496491000	6	2.047493000	0.083477000	-1.930903000
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6	-2.593770000	3.139239000	-0.164929000	1	3.690900000	1.386538000	0.463321000
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1	-5.015102000	4.890583000	-2.120545000	6	-0.658774000	3.588967000	-6.361736000
1	-6.171087000	6.210030000	-2.236222000	6	0.449768000	4.146909000	-5.720862000
1	-7.044100000	6.864414000	-0.149179000	1	2.918732000	2.510252000	-7.398880000
1	-3.138644000	4.524344000	1.674396000	1	-1.345986000	2.236888000	-7.887522000
1	-5.986614000	6.902202000	1.369394000	1	2.604831000	4.195470000	-5.618290000
1	-0.397771000	6.122856000	-0.763047000	1	-1.663561000	3.890571000	-6.078156000
1	-2.476180000	5.401125000	-2.360144000	1	0.311763000	4.891822000	-4.941211000
1	-1.948259000	7.043257000	-2.683290000	7	2.281761000	-2.511757000	0.441608000
1	-0.974013000	6.419862000	0.879229000	6	2.316888000	-3.482580000	1.336092000
1	-5.046694000	3.508754000	0.413785000	7	3.413610000	-4.259273000	1.144103000
				6	4.128833000	-3.757111000	0.065913000

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26	0.805444000	-0.835458000	0.474436000	6	3.404329000	-2.669468000	-0.352097000
8	2.246825000	0.106464000	1.526409000	6	5.389257000	-4.366646000	-0.453678000
6	2.610016000	-0.187894000	2.731990000	1	5.221413000	-5.373231000	-0.857576000
8	2.070388000	-1.034983000	3.459058000	1	5.782852000	-3.739685000	-1.257988000
6	3.808114000	0.605170000	3.275504000	1	3.623111000	-2.015070000	-1.181202000
6	4.587354000	1.422694000	2.248775000	1	3.665844000	-5.067020000	1.696062000
7	5.243987000	0.565167000	1.264278000	1	1.587115000	-3.631822000	2.115734000
6	6.322196000	0.990490000	0.553948000	1	6.158330000	-4.446331000	0.325253000
8	6.862412000	2.080117000	0.722581000	8	-0.399571000	-2.247584000	1.426212000
6	6.839431000	0.019695000	-0.518049000	6	-0.885086000	-2.670136000	0.313880000
7	6.482434000	0.524512000	-1.838598000	8	-0.448719000	-2.171316000	-0.762526000
1	4.465938000	-0.099756000	3.796313000	6	-1.976849000	-3.702623000	0.316019000
1	3.416457000	1.281241000	4.046941000	1	-2.930727000	-3.179221000	0.458759000
1	3.914604000	2.130485000	1.747705000	1	-2.000845000	-4.237070000	-0.636314000
1	4.736802000	-0.251712000	0.946644000	1	-1.843049000	-4.400035000	1.147526000
1	5.371622000	2.007678000	2.735335000	7	-0.443731000	-0.976558000	4.855202000
1	6.422079000	-0.984263000	-0.429686000	6	-1.150955000	-2.107218000	4.959102000
1	6.758912000	1.476894000	-2.062412000	7	-2.487133000	-2.070267000	4.850368000
1	7.928355000	-0.038818000	-0.414490000	7	-0.526403000	-3.262332000	5.253485000
6	5.794653000	-0.206874000	-2.742245000	6	0.874943000	-3.345234000	5.678753000
8	5.499055000	-1.396619000	-2.587360000	6	1.200586000	-4.755175000	6.161991000
6	5.309996000	0.561141000	-3.981144000	1	0.576167000	-5.038895000	7.016201000
6	4.096773000	1.477310000	-3.611402000	1	2.246853000	-4.807414000	6.477659000
6	2.990348000	0.767854000	-2.897325000	1	1.040631000	-2.617403000	6.482583000
6	2.704683000	0.675857000	-1.556188000	1	1.533553000	-3.060426000	4.850534000
7	2.055111000	-0.041703000	-3.521742000	1	-1.081400000	-4.110483000	5.257703000
6	1.261192000	-0.585482000	-2.577607000	1	-0.957885000	-0.115136000	4.633118000
7	1.632982000	-0.173534000	-1.370742000	1	0.506695000	-1.024336000	4.479067000
1	6.101619000	1.208076000	-4.374265000	1	-3.024015000	-2.922383000	4.961569000
1	4.463731000	2.293644000	-2.981902000	1	-2.896382000	-1.324689000	4.267843000
1	3.741533000	1.927283000	-4.543379000	1	1.050725000	-5.494769000	5.366405000
1	3.203938000	1.134636000	-0.716973000	8	-0.371507000	0.480150000	0.558917000
1	1.973132000	-0.220655000	-4.528701000	6	-4.362241000	-4.839481000	7.883557000
1	0.444001000	-1.262340000	-2.772559000	6	-3.912186000	-5.211081000	6.489728000
7	4.955667000	-0.431543000	-4.976280000	6	-2.775908000	-6.008540000	6.284373000
6	4.689717000	-0.121210000	-6.266822000	6	-4.640900000	-4.796865000	5.362763000
8	4.781866000	1.013569000	-6.729886000	6	-2.386770000	-6.390544000	4.995516000
6	4.267267000	-1.312757000	-7.145207000	6	-4.254719000	-5.170146000	4.071315000
7	3.141281000	-0.977376000	-7.996067000	6	-3.124618000	-5.971128000	3.884373000
1	4.828384000	-1.369747000	-4.611254000	1	-4.800027000	-3.836008000	7.911181000
1	4.011133000	-2.182738000	-6.531911000	1	-3.532326000	-4.868713000	8.596935000
1	5.109389000	-1.584710000	-7.788174000	1	-2.202864000	-6.350665000	7.143530000
1	3.312436000	-0.781356000	-8.971703000	1	-5.527704000	-4.180742000	5.491222000
				1	-1.516742000	-7.029396000	4.863243000

1	-4.840846000	-4.836438000	3.219803000
1	-2.829583000	-6.275378000	2.883913000
1	-5.128630000	-5.537059000	8.245605000
6	-5.785386000	0.644651000	-5.464622000
6	-5.616237000	1.135738000	-4.044792000
6	-5.836919000	2.475182000	-3.706928000
6	-5.258981000	0.254301000	-3.012527000
6	-5.707587000	2.926397000	-2.391408000
6	-5.131184000	0.680812000	-1.692680000
6	-5.355357000	2.026370000	-1.383654000
8	-5.197499000	2.414288000	-0.069828000
1	-5.763542000	1.473375000	-6.180266000
1	-6.742710000	0.123646000	-5.599085000
1	-6.116245000	3.184909000	-4.482494000
1	-5.084889000	-0.794508000	-3.243137000
1	-5.879058000	3.973872000	-2.152960000
1	-4.879504000	-0.018542000	-0.899657000
1	-5.525104000	3.326488000	0.050608000
1	-4.994413000	-0.061447000	-5.743354000
6	-9.087284000	-4.377479000	3.136588000
6	-7.873715000	-3.644027000	2.612299000
6	-7.262936000	-2.619629000	3.344362000
6	-7.328445000	-3.952406000	1.355433000
6	-6.151971000	-1.925302000	2.856511000
6	-6.225189000	-3.269555000	0.849985000
6	-5.625982000	-2.246463000	1.599198000
8	-4.547470000	-1.607093000	1.059355000
1	-9.985682000	-4.140626000	2.551789000
1	-9.295494000	-4.110147000	4.177815000
1	-7.668821000	-2.342396000	4.315330000
1	-7.779927000	-4.741351000	0.757214000
1	-5.706213000	-1.126631000	3.441144000
1	-5.818903000	-3.511944000	-0.127878000
1	-4.136170000	-0.995216000	1.719872000
1	-8.954590000	-5.465476000	3.091838000
6	0.979697000	7.514842000	-1.082839000
6	1.132751000	5.991862000	-1.005110000
6	-0.126294000	5.241058000	-1.462864000
6	0.008757000	3.715916000	-1.477951000
7	0.214961000	3.150574000	-0.128094000
1	0.149805000	7.862300000	-0.455451000
1	0.776266000	7.840105000	-2.110026000
1	1.381677000	5.712279000	0.028663000
1	1.985560000	5.676554000	-1.623679000
1	-0.975326000	5.523022000	-0.823034000
1	-0.386982000	5.566823000	-2.479369000
1	0.825296000	3.423090000	-2.155450000
1	-0.907816000	3.268113000	-1.877721000
1	1.106747000	3.458427000	0.258461000
1	0.245963000	2.121371000	-0.157933000
1	-0.988927000	3.109349000	1.003633000
1	1.888225000	8.024725000	-0.744915000
6	-8.317666000	3.714242000	6.885378000
6	-7.809163000	3.088541000	5.606402000
6	-6.597305000	2.383585000	5.577757000
6	-8.555664000	3.168355000	4.421295000
6	-6.144962000	1.771447000	4.405410000
6	-8.109531000	2.558521000	3.247015000
6	-6.899286000	1.858531000	3.231611000
1	-8.861581000	4.644928000	6.690201000
1	-7.499075000	3.938778000	7.577224000
1	-6.004649000	2.306522000	6.487120000
1	-9.499987000	3.708540000	4.421507000
1	-5.204964000	1.225209000	4.406200000
1	-8.712456000	2.622414000	2.344355000
1	-6.546560000	1.391241000	2.316623000
1	-9.009613000	3.040340000	7.407886000

6	6.982467000	3.921165000	-6.465048000
6	7.232478000	3.902607000	-4.975004000
6	6.362952000	4.557040000	-4.087886000
6	8.321689000	3.204170000	-4.433080000
6	6.562273000	4.500897000	-2.707011000
6	8.529039000	3.148192000	-3.051585000
6	7.646083000	3.791225000	-2.177128000
1	6.494291000	4.850750000	-6.776905000
1	7.916771000	3.824874000	-7.028068000
1	5.524774000	5.123535000	-4.488589000
1	9.020631000	2.706855000	-5.101940000
1	5.880949000	5.023749000	-2.040264000
1	9.388661000	2.611694000	-2.657403000
1	7.794885000	3.734462000	-1.102870000
1	6.329662000	3.088456000	-6.757719000
8	-1.785580000	1.344641000	3.845170000
6	-2.507293000	0.890261000	2.920212000
8	-3.292618000	-0.098948000	2.970634000
6	-2.363873000	1.594722000	1.580574000
7	-1.785632000	2.939717000	1.739083000
6	-2.745586000	4.102069000	1.635186000
1	-3.210147000	1.572639000	0.894973000
1	-1.409871000	0.875434000	1.020140000
1	-1.356820000	2.898178000	2.683152000
1	-2.113612000	4.987918000	1.522122000
6	-4.535670000	6.397767000	3.746748000
6	-4.860711000	5.247556000	2.735684000
6	-3.666233000	4.212975000	2.850603000
6	-3.792160000	5.633248000	4.864088000
6	-2.899573000	4.606698000	4.146814000
6	-3.618510000	7.461585000	3.092297000
6	-5.253600000	5.756217000	1.360911000
6	-5.820953000	7.052440000	4.279068000
6	-4.159367000	7.991616000	1.756195000
6	-4.392819000	6.844282000	0.752000000
6	-6.386901000	5.343672000	0.768009000
1	-5.728168000	4.714095000	3.138402000
1	-1.933007000	5.063297000	3.889710000
1	-2.676625000	3.733450000	4.766296000
1	-6.466835000	6.304509000	4.753552000
1	-6.403643000	7.531449000	3.484926000
1	-5.584592000	7.818094000	5.027914000
1	-3.457120000	8.716914000	1.327489000
1	-5.101940000	8.528798000	1.915004000
1	-3.413414000	6.441335000	0.455790000
1	-4.859998000	7.223876000	-0.163698000
1	-6.716264000	5.757559000	-0.183096000
1	-4.133579000	3.231737000	2.982650000
1	-7.052241000	4.628725000	1.247967000
1	-3.224136000	6.300047000	5.523626000
1	-2.618756000	7.037547000	2.920691000
1	-3.476861000	8.292317000	3.795763000
1	-4.527697000	5.108883000	5.487004000
1	-3.302071000	3.947466000	0.708745000

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26	0.791302000	-0.732925000	0.337999000
8	2.192172000	0.104092000	1.422785000
6	2.442847000	-0.180464000	2.658547000
8	1.874333000	-1.040191000	3.349091000
6	3.574420000	0.646356000	3.292524000
6	4.475483000	1.404139000	2.320969000
7	5.176255000	0.490498000	1.420316000
6	6.363106000	0.815959000	0.842511000
8	6.985763000	1.844658000	1.089722000
6	6.890149000	-0.186102000	-0.196925000
7	6.635324000	0.333811000	-1.536007000

1	4.162431000	-0.031114000	3.921438000	1	-3.119012000	-2.612435000	0.557368000
1	3.100323000	1.365817000	3.973310000	1	-2.176243000	-3.790353000	-0.389755000
1	3.881920000	2.124903000	1.743976000	1	-2.110324000	-3.795422000	1.408808000
1	4.637439000	-0.277204000	1.038558000	7	-0.600300000	-0.887113000	4.749560000
1	5.240119000	1.967469000	2.860857000	6	-1.282258000	-2.034430000	4.822148000
1	6.414055000	-1.165709000	-0.133194000	7	-2.607027000	-2.041192000	4.617726000
1	6.982179000	1.266435000	-1.745262000	7	-0.644904000	-3.171637000	5.170751000
1	7.966455000	-0.300778000	-0.032798000	6	0.697443000	-3.192342000	5.766828000
6	5.925358000	-0.340351000	-2.465770000	6	1.078881000	-4.615688000	6.162013000
8	5.526980000	-1.502025000	-2.326638000	1	0.387309000	-5.024647000	6.907353000
6	5.552185000	0.465607000	-3.718803000	1	2.082361000	-4.624258000	6.597754000
6	4.383173000	1.454822000	-3.393488000	1	0.714422000	-2.533751000	6.645155000
6	3.210037000	0.801633000	-2.736307000	1	1.418837000	-2.790973000	5.047793000
6	2.865314000	0.709199000	-1.408308000	1	-1.205627000	-4.013625000	5.243101000
7	2.272517000	0.038659000	-3.411574000	1	-1.117000000	-0.056629000	4.427676000
6	1.418164000	-0.482957000	-2.508078000	1	0.366222000	-0.929954000	4.412751000
7	1.758785000	-0.100238000	-1.282061000	1	-3.131318000	-2.902145000	4.718243000
1	6.400533000	1.061734000	-4.070893000	1	-3.002469000	-1.311427000	4.004695000
1	4.769696000	2.241828000	-2.739087000	1	1.080098000	-5.284211000	5.292980000
1	4.097789000	1.932872000	-4.335634000	8	-0.126992000	0.755076000	0.312298000
1	3.336843000	1.145711000	-0.543341000	6	-4.396339000	-4.852172000	7.631177000
1	2.224583000	-0.123399000	-4.423655000	6	-3.965954000	-5.208169000	6.227066000
1	0.579430000	-1.117390000	-2.749526000	6	-2.819972000	-5.985035000	5.994477000
7	5.177176000	-0.494243000	-4.738820000	6	-4.723715000	-4.800244000	5.117219000
6	5.003313000	-0.158522000	-6.038778000	6	-2.449147000	-6.352078000	4.695776000
8	5.213713000	0.966733000	-6.486062000	6	-4.357308000	-5.161699000	3.816691000
6	4.526484000	-1.307037000	-6.946243000	6	-3.217284000	-5.941892000	3.602385000
7	3.470349000	-0.881222000	-7.845069000	1	-4.815924000	-3.841583000	7.679613000
1	4.963014000	-1.422278000	-4.389121000	1	-3.560988000	-4.908619000	8.336491000
1	4.174257000	-2.156717000	-6.352332000	1	-2.227190000	-6.326403000	6.840657000
1	5.372652000	-1.642237000	-7.553091000	1	-5.617772000	-4.199732000	5.266022000
1	3.701412000	-0.695921000	-8.810374000	1	-1.568936000	-6.971803000	4.542517000
6	2.251409000	-0.508916000	-7.370342000	1	-4.968060000	-4.835171000	2.979604000
8	1.985206000	-0.586718000	-6.166908000	1	-2.938145000	-6.237909000	2.594848000
6	1.245965000	-0.025366000	-8.404044000	1	-5.172307000	-5.541778000	7.987973000
6	1.549980000	1.389820000	-8.967933000	6	-5.952040000	0.893270000	-5.722940000
1	1.212992000	-0.740292000	-9.236474000	6	-5.825146000	1.280482000	-4.266879000
1	0.267293000	-0.029096000	-7.917623000	6	-6.053283000	2.591579000	-3.837662000
1	2.550786000	1.399026000	-9.418515000	6	-5.481028000	0.327706000	-3.294115000
1	0.842821000	1.568825000	-9.786376000	6	-5.937646000	2.950361000	-2.491905000
6	1.438745000	2.504429000	-7.947541000	6	-5.367865000	0.661170000	-1.947071000
6	2.556514000	2.921773000	-7.210987000	6	-5.595370000	1.982582000	-1.545303000
6	0.209318000	3.139665000	-7.724069000	8	-5.451776000	2.270272000	-0.207147000
6	2.444106000	3.953751000	-6.276500000	1	-6.245883000	1.749259000	-6.339109000
6	0.094771000	4.169630000	-6.789281000	1	-6.705307000	0.108581000	-5.867086000
6	1.214849000	4.582092000	-6.063500000	1	-6.328312000	3.352819000	-4.564287000
1	3.519167000	2.440777000	-7.365169000	1	-5.309819000	-0.703686000	-3.595911000
1	-0.664328000	2.834533000	-8.296997000	1	-6.117996000	3.977640000	-2.182431000
1	3.325396000	4.277925000	-5.728064000	1	-5.137039000	-0.088394000	-1.194968000
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1	0.719986000	6.049860000	4.041535000
1	1.050284000	6.015158000	1.324352000
1	1.223507000	7.631870000	1.985088000
1	-0.990075000	5.841676000	4.427744000
1	-1.889935000	3.650261000	-0.013869000

⁵Re2ᵢ:

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6	7.466104000	-0.085211000	0.781364000
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1	4.714575000	-1.379325000	4.607585000
1	3.645031000	-0.116784000	5.204690000
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1	8.536334000	-0.196161000	0.988976000
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^{5}TS5$_{I}$:

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1	7.731222000	6.558062000	-3.385798000		8	5.973115000	-0.708075000	-1.408436000
1	9.231485000	5.624242000	-3.256338000		6	6.578963000	1.247343000	-2.682910000
1	5.893951000	6.230149000	-1.707118000		6	5.401945000	2.258749000	-2.884256000
1	9.623184000	4.137512000	-1.315454000		6	4.046822000	1.645683000	-2.733057000
1	5.270518000	5.558239000	0.592671000		6	3.184080000	1.632409000	-1.662203000
1	9.011001000	3.470053000	0.987082000		7	3.439332000	0.853941000	-3.691018000
1	6.808289000	4.138432000	1.944474000		6	2.271554000	0.398309000	-3.182661000
1	7.745277000	4.842251000	-3.816869000		7	2.084941000	0.849101000	-1.948894000
8	-4.117300000	-0.954033000	-1.590801000		1	7.511458000	1.821428000	-2.655936000
6	-4.422545000	-0.522755000	-0.449968000		1	5.513137000	3.064886000	-2.153005000
8	-4.913596000	-1.191955000	0.504481000		1	5.531142000	2.705720000	-3.874418000
6	-4.117981000	0.921263000	-0.143628000		1	3.293628000	2.117163000	-0.703508000
7	-4.819464000	1.912264000	-0.334890000		1	3.798039000	0.642669000	-4.627290000
6	-4.734184000	3.313366000	0.041000000		1	1.591567000	-0.251020000	-3.712977000
1	-1.678982000	0.646543000	-0.004765000		7	6.636315000	0.268849000	-3.752380000
1	-5.037615000	3.898323000	-0.835210000		6	6.961596000	0.579583000	-5.028264000
6	-2.537154000	6.144421000	0.521095000		8	7.320432000	1.697344000	-5.393146000
6	-3.334202000	5.118333000	1.393044000		6	6.863308000	-0.593814000	-6.020997000
6	-3.361567000	3.765468000	0.568961000		7	6.263396000	-0.189039000	-7.277857000
6	-1.527471000	5.227201000	-0.204439000		1	6.297158000	-0.652329000	-3.493717000
6	-2.302276000	3.944468000	-0.554949000		1	6.285180000	-1.420303000	-5.595274000
6	-3.476228000	6.841740000	-0.495779000		1	7.873584000	-0.957803000	-6.230014000
6	-4.646747000	5.669916000	1.920287000		1	6.868605000	-0.017370000	-8.067707000
6	-1.823514000	7.188543000	1.394763000		6	4.966517000	0.218445000	-7.340165000
6	-4.715190000	7.472539000	0.155006000		8	4.234080000	0.176709000	-6.346600000
6	-5.524106000	6.420153000	0.938804000		6	4.484204000	0.704190000	-8.696982000
6	-4.967732000	5.579270000	3.221617000		6	4.921787000	2.158599000	-9.026919000
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1	-2.807414000	4.062167000	-1.523823000		1	3.393478000	0.636732000	-8.691620000
1	-1.643411000	3.075188000	-0.641548000		1	6.016395000	2.225514000	-8.992320000
1	-1.129126000	6.702745000	2.091215000		1	4.632219000	2.352720000	-10.066362000
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1	-5.352823000	7.925445000	-0.613626000		6	3.063719000	3.768392000	-8.423543000
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1	-5.966889000	5.720091000	0.216521000		6	2.494728000	4.738923000	-7.597507000
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				6	3.976070000	-2.910405000	0.942081000
⁵Prod2ₗ:				6	3.468522000	-1.838283000	0.253851000
26	0.759175000	-0.217344000	-0.295689000	6	5.376007000	-3.398024000	1.120389000
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7	3.621700000	0.524453000	-3.411251000	1	-1.793895000	-1.649691000	1.001086000
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7	2.120650000	0.540821000	-1.795643000	1	-4.572977000	-3.228179000	2.534540000

1	-4.095563000	-2.383406000	1.095930000	6	-0.221285000	1.614245000	6.650087000
1	-1.674870000	-3.714079000	6.152422000	6	-1.337830000	1.025200000	7.483228000
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6	-5.972005000	-3.483014000	5.575389000	6	-3.697976000	0.513042000	7.786399000
6	-5.128059000	-4.569819000	5.857860000	6	-2.119097000	-0.067981000	9.515704000
6	-6.619022000	-3.455728000	4.329173000	6	-3.431534000	-0.043433000	9.041427000
6	-4.947155000	-5.602961000	4.933918000	1	0.755086000	1.451161000	7.118606000
6	-6.448866000	-4.491587000	3.404884000	1	-0.349780000	2.697230000	6.524895000
6	-5.609952000	-5.570310000	3.705078000	1	-2.888540000	1.470205000	6.040634000
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1	-7.263081000	-2.615694000	4.084766000	1	-4.240111000	-0.444412000	9.647038000
1	-4.294544000	-6.436750000	5.178603000	1	-0.191266000	1.176539000	5.644361000
1	-6.971199000	-4.452028000	2.451772000	6	8.763153000	5.038479000	-4.089210000
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6	-9.469022000	-0.371979000	3.688384000	6	9.059043000	4.632061000	-1.602492000
6	-8.115293000	0.290790000	3.817689000	6	6.580229000	5.767425000	-1.032308000
6	-7.831058000	1.155910000	4.883975000	6	8.600809000	4.684153000	-0.282602000
6	-7.101452000	0.061408000	2.875255000	6	7.353711000	5.246680000	0.011589000
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6	-5.851014000	0.674104000	2.977920000	1	9.856274000	5.067553000	-4.149453000
6	-5.595351000	1.541124000	4.042728000	1	6.440781000	6.137170000	-3.149126000
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1	-9.671225000	-0.662314000	2.652031000	1	9.223991000	4.296917000	0.519807000
1	-8.597408000	1.359949000	5.628753000	1	6.989046000	5.273444000	1.034379000
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