Electronic Supplementary Material (ESI) for Molecular BioSystems.

Computational Characterization of Parallel Dimeric and Trimeric Coiled-coils Using Effective Amino Acid Indices

Chen Li, Xiao-Feng Wang, Zhen Chen, Ziding Zhang and Jiangning Song

Electronic Supplemental Information

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	A	R	N	D	C	Q	E	G	H	I	L	K	M	F	P	S	T	W	Y	V
#1	4.35	4.38	4.75	4.76	4.65	4.37	4.29	3.97	4.63	3.95	4.17	4.36	4.52	4.66	4.44	4.5	4.35	4.7	4.6	3.95
#2	0.61	0.6	0.06	0.46	1.07	0	0.47	0.07	0.61	2.22	1.53	1.15	1.18	2.02	1.95	0.05	0.05	2.65	1.88	1.32
#3	1.18	0.2	0.23	0.05	1.89	0.72	0.11	0.49	0.31	1.45	3.23	0.06	2.67	1.96	0.76	0.97	0.84	0.77	0.39	1.08
#4	1.56	0.45	0.27	0.14	1.23	0.51	0.23	0.62	0.29	1.67	2.93	0.15	2.96	2.03	0.76	0.81	0.91	1.08	0.68	1.14
#5	1	0.52	0.35	0.44	0.06	0.44	0.73	0.35	0.6	0.73	1	0.6	1	0.6	0.06	0.35	0.44	0.73	0.44	0.82
#6	0.77	0.72	0.55	0.65	0.65	0.72	0.55	0.65	0.83	0.98	0.83	0.55	0.98	0.98	0.55	0.55	0.83	0.77	0.83	0.98
#7	0.37	0.84	0.97	0.97	0.84	0.64	0.53	0.97	0.75	0.37	0.53	0.75	0.64	0.53	0.97	0.84	0.75	0.97	0.84	0.37
#8	0.357	0.529	0.463	0.511	0.346	0.493	0.497	0.544	0.323	0.462	0.365	0.466	0.295	0.314	0.509	0.507	0.444	0.305	0.42	0.386
#9	52.6	109.1	75.7	68.4	68.3	89.7	84.7	36.3	91.9	102	102	105.1	97.7	113.9	73.6	54.9	71.2	135.4	116.2	85.1
#10	16	-70	-74	-78	168	-73	-106	-13	50	151	145	-141	124	189	-20	-70	-38	145	53	123
#11	44	-68	-72	-91	90	-117	-139	-8	47	100	108	-188	121	148	-36	-60	-54	163	22	117
#12	7.3	-3.6	-5.7	-2.9	-9.2	-0.3	-7.1	-1.2	-2.1	6.6	20	-3.7	5.6	19.2	5.1	-4.1	0.8	16.3	5.9	3.5
#13	3.9	3.2	-2.8	-2.8	-14.3	1.8	-7.5	-2.3	2	11	15	-2.5	4.1	14.7	5.6	-3.5	1.1	17.8	3.8	2.1
#14	-0.2	-0.12	0.08	-0.2	-0.45	0.16	-0.3	0	-0.12	-2.26	-2.46	-0.35	-1.47	-2.33	-0.98	-0.39	-0.52	-2.01	-2.24	-1.56
#15	0.691	0.728	0.596	0.558	0.624	0.649	0.632	0.592	0.646	0.809	0.842	0.767	0.709	0.756	0.73	0.594	0.655	0.743	0.743	0.777
#16	8.249	8.274	8.747	8.41	8.312	8.411	8.368	8.391	8.415	8.195	8.423	8.408	8.418	8.228	0	8.38	8.236	8.094	8.183	8.436
#17	4.349	4.396	4.755	4.765	4.686	4.373	4.295	3.972	4.63	4.224	4.385	4.358	4.513	4.663	4.471	4.498	4.346	4.702	4.604	4.184
#18	6.5	6.9	7.5	7	7.7	6	7	5.6	8	7	6.5	6.5	0	9.4	0	6.5	6.9	0	6.8	7
#19	0.486	0.262	0.193	0.288	0.2	0.418	0.538	0.12	0.4	0.37	0.42	0.402	0.417	0.318	0.208	0.2	0.272	0.462	0.161	0.379
#20	0.288	0.362	0.229	0.271	0.533	0.327	0.262	0.312	0.2	0.411	0.4	0.265	0.375	0.318	0.34	0.354	0.388	0.231	0.429	0.495
#21	0.52	0.68	0.76	0.76	0.62	0.68	0.68	0	0.7	1.02	0.98	0.68	0.78	0.7	0.36	0.53	0.5	0.7	0.7	0.76
#22	0.046	0.291	0.134	0.105	0.128	0.18	0.151	0	0.23	0.186	0.186	0.219	0.221	0.29	0.131	0.062	0.108	0.409	0.298	0.14
#23	-0.368	-1.03	0	2.06	4.53	0.731	1.77	-0.525	0	0.791	1.07	0	0.656	1.06	-2.24	-0.524	0	1.6	4.91	0.401
#24	0.71	1.06	1.37	1.21	1.19	0.87	0.84	1.52	1.07	0.66	0.69	0.99	0.59	0.71	1.61	1.34	1.08	0.76	1.07	0.63
#25	-0.118	0.124	0.289	0.048	0.083	-0.105	-0.245	0.104	0.138	0.23	-0.052	0.032	-0.258	0.015	0	0.225	0.166	0.158	0.094	0.513
#26	0	1	1	1	1	1	1	0	1	2	1	1	1	1	0	1	2	1	1	2

#27	0	1	1	1	0	1	1	0	1	1	2	1	1	1	0	0	0	1	1	0
#28	0	1	0	0	0	1	1	0	1	0	0	1	1	1	0	0	0	1.5	1	0
#29	0	5	2	2	1	3	3	0	3	2	2	4	3	4	0	1	1	5	5	1
#30	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
#31	0	1	1	0	1	1	0	0	1	0	0	1	1	1	0	0	0	1	1	0
#32	91.5	202	135.2	124.5	117.7	161.1	155.1	66.4	167.3	168.8	167.9	171.3	170.8	203.4	129.3	99.1	122.1	237.6	203.6	141.7
#33	115	225	160	150	135	180	190	75	195	175	170	200	185	210	145	115	140	255	230	155
#34	25	90	63	50	19	71	49	23	43	18	23	97	31	24	50	44	47	32	60	18
#35	0.38	0.01	0.12	0.15	0.45	0.07	0.18	0.36	0.17	0.6	0.45	0.03	0.4	0.5	0.18	0.22	0.23	0.27	0.15	0.54
#36	0.2	0	0.03	0.04	0.22	0.01	0.03	0.18	0.02	0.19	0.16	0	0.11	0.14	0.04	0.08	0.08	0.04	0.03	0.18
#37	0.66	0.95	1.56	1.46	1.19	0.98	0.74	1.56	0.95	0.47	0.59	1.01	0.6	0.6	1.52	1.43	0.96	0.96	1.14	0.5
#38	1.42	0.98	0.67	1.01	0.7	1.11	1.51	0.57	1	1.08	1.21	1.16	1.45	1.13	0.57	0.77	0.83	1.08	0.69	1.06
#39	0.83	0.93	0.89	0.54	1.19	1.1	0.37	0.75	0.87	1.6	1.3	0.74	1.05	1.38	0.55	0.75	1.19	1.37	1.47	1.7
#40	0.74	1.01	1.46	1.52	0.96	0.96	0.95	1.56	0.95	0.47	0.5	1.19	0.6	0.66	1.56	1.43	0.98	0.6	1.14	0.59
#41	1.29	0.44	0.81	2.02	0.66	1.22	2.44	0.76	0.73	0.67	0.58	0.66	0.71	0.61	2.01	0.74	1.08	1.47	0.68	0.61
#42	1.2	1.25	0.59	0.61	1.11	1.22	1.24	0.42	1.77	0.98	1.13	1.83	1.57	1.1	0	0.96	0.75	0.4	0.73	1.25
#43	0.7	0.34	1.42	0.98	0.65	0.75	1.04	1.41	1.22	0.78	0.85	1.01	0.83	0.93	1.1	1.55	1.09	0.62	0.99	0.75
#44	0.52	1.24	1.64	1.06	0.94	0.7	0.59	1.64	1.86	0.87	0.84	1.49	0.52	1.04	1.58	0.93	0.86	0.16	0.96	0.32
#45	0.86	0.9	0.66	0.38	0.87	1.65	0.35	0.63	0.54	1.94	1.3	1	1.43	1.5	0.66	0.63	1.17	1.49	1.07	1.69
#46	0.75	0.9	1.21	0.85	1.11	0.65	0.55	0.74	0.9	1.35	1.27	0.74	0.95	1.5	0.4	0.79	0.75	1.19	1.96	1.79
#47	0.67	0.89	1.86	1.39	1.34	1.09	0.92	1.46	0.78	0.59	0.46	1.09	0.52	0.3	1.58	1.41	1.09	0.48	1.23	0.42
#48	0.74	1.05	1.13	1.32	0.53	0.77	0.85	1.68	0.96	0.53	0.59	0.82	0.85	0.44	1.69	1.49	1.16	1.59	1.01	0.59
#49	0.06	0.07	0.161	0.147	0.149	0.074	0.056	0.102	0.14	0.043	0.061	0.055	0.068	0.059	0.102	0.12	0.086	0.077	0.082	0.062
#50	0.076	0.106	0.083	0.11	0.053	0.098	0.06	0.085	0.047	0.034	0.025	0.115	0.082	0.041	0.301	0.139	0.108	0.013	0.065	0.048
#51	0.035	0.099	0.191	0.179	0.117	0.037	0.077	0.19	0.093	0.013	0.036	0.072	0.014	0.065	0.034	0.125	0.065	0.064	0.114	0.028
#52	0.058	0.085	0.091	0.081	0.128	0.098	0.064	0.152	0.054	0.056	0.07	0.095	0.055	0.065	0.068	0.106	0.079	0.167	0.125	0.053
#53	0.64	1.05	1.56	1.61	0.92	0.84	0.8	1.63	0.77	0.29	0.36	1.13	0.51	0.62	2.04	1.52	0.98	0.48	1.08	0.43
#54	-0.45	-0.24	-0.2	-1.52	0.79	-0.99	-0.8	-1	1.07	0.76	1.29	-0.36	1.37	1.48	-0.12	-0.98	-0.7	1.38	1.49	1.26

#55	-0.08	-0.09	-0.7	-0.71	0.76	-0.4	-1.31	-0.84	0.43	1.39	1.24	-0.09	1.27	1.53	-0.01	-0.93	-0.59	2.25	1.53	1.09
#56	0.36	-0.52	-0.9	-1.09	0.7	-1.05	-0.83	-0.82	0.16	2.17	1.18	-0.56	1.21	1.01	-0.06	-0.6	-1.2	1.31	1.05	1.21
#57	0.17	-0.7	-0.9	-1.05	1.24	-1.2	-1.19	-0.57	-0.25	2.06	0.96	-0.62	0.6	1.29	-0.21	-0.83	-0.62	1.51	0.66	1.21
#58	0.02	-0.42	-0.77	-1.04	0.77	-1.1	-1.14	-0.8	0.26	1.81	1.14	-0.41	1	1.35	-0.09	-0.97	-0.77	1.71	1.11	1.13
#59	0.75	0.7	0.61	0.6	0.61	0.67	0.66	0.64	0.67	0.9	0.9	0.82	0.75	0.77	0.76	0.68	0.7	0.74	0.71	0.86
#60	1.33	0.79	0.72	0.97	0.93	1.42	1.66	0.58	1.49	0.99	1.29	1.03	1.4	1.15	0.49	0.83	0.94	1.33	0.49	0.96
#61	1	0.74	0.75	0.89	0.99	0.87	0.37	0.56	0.36	1.75	1.53	1.18	1.4	1.26	0.36	0.65	1.15	0.84	1.41	1.61
#62	0.6	0.79	1.42	1.24	1.29	0.92	0.64	1.38	0.95	0.67	0.7	1.1	0.67	1.05	1.47	1.26	1.05	1.23	1.35	0.48
#63	2.5	7.5	5	2.5	3	6	5	0.5	6	5.5	5.5	7	6	6.5	5.5	3	5	7	7	5
#64	8.6	4.9	4.3	5.5	2.9	3.9	6	8.4	2	4.5	7.4	6.6	1.7	3.6	5.2	7	6.1	1.3	3.4	6.6
#65	100	65	134	106	20	93	102	49	66	96	40	56	94	41	56	120	97	18	41	74
#66	1.56	0.59	0.51	0.23	1.8	0.39	0.19	1.03	1	1.27	1.38	0.15	1.93	1.42	0.27	0.96	1.11	0.91	1.1	1.58
#67	1.26	0.38	0.59	0.27	1.6	0.39	0.23	1.08	1	1.44	1.36	0.33	1.52	1.46	0.54	0.98	1.01	1.06	0.89	1.33
#68	0.25	-1.76	-0.64	-0.72	0.04	-0.69	-0.62	0.16	-0.4	0.73	0.53	-1.1	0.26	0.61	-0.07	-0.26	-0.18	0.37	0.02	0.54
#69	0.67	-2.1	-0.6	-1.2	0.38	-0.22	-0.76	0	0.64	1.9	1.9	-0.57	2.4	2.3	1.2	0.01	0.52	2.6	1.6	1.5
#70	0	10	1.3	1.9	0.17	1.9	3	0	0.99	1.2	1	5.7	1.9	1.1	0.18	0.73	1.5	1.6	1.8	0.48
#71	0	-0.96	-0.86	-0.98	0.76	-1	-0.89	0	-0.75	0.99	0.89	-0.99	0.94	0.92	0.22	-0.67	0.09	0.67	-0.93	0.84
#72	89.09	174.2	132.12	133.1	121.15	146.15	147.13	75.07	155.16	131.17	131.17	146.19	149.21	165.19	115.13	105.09	119.12	204.24	181.19	117.15
#73	297	238	236	270	178	185	249	290	277	284	337	224	283	284	222	228	253	282	344	293
#74	1.8	12.5	-5.6	5.05	-16.5	6.3	12	0	-38.5	12.4	-11	14.6	-10	-34.5	-86.2	-7.5	-28	-33.7	-10	5.63
#75	9.69	8.99	8.8	9.6	8.35	9.13	9.67	9.78	9.17	9.68	9.6	9.18	9.21	9.18	10.64	9.21	9.1	9.44	9.11	9.62
#76	2.34	1.82	2.02	1.88	1.92	2.17	2.1	2.35	1.82	2.36	2.36	2.16	2.28	2.16	1.95	2.19	2.09	2.43	2.2	2.32
#77	0.31	-1.01	-0.6	-0.77	1.54	-0.22	-0.64	0	0.13	1.8	1.7	-0.99	1.23	1.79	0.72	-0.04	0.26	2.25	0.96	1.22
#78	1.28	2.34	1.6	1.6	1.77	1.56	1.56	0	2.99	4.19	2.59	1.89	2.35	2.94	2.67	1.31	3.03	3.21	2.94	3.67
#79	0.53	0.69	0.58	0.59	0.66	0.71	0.72	0	0.64	0.96	0.92	0.78	0.77	0.71	0	0.55	0.63	0.84	0.71	0.89
#80	1	6.13	2.95	2.78	2.43	3.95	3.78	0	4.66	4	4	4.77	4.43	5.89	2.72	1.6	2.6	8.08	6.47	3
#81	2.87	7.82	4.58	4.74	4.47	6.11	5.97	2.06	5.23	4.92	4.92	6.89	6.36	4.62	4.11	3.97	4.11	7.68	4.73	4.11
#82	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1	1.52	1.9	1.52	1.52	1.52	1.52	1.52	1.52	1.73	1.52	1.52	1.9

#83	2.04	6.24	4.37	3.78	3.41	3.53	3.31	1	5.66	3.49	4.45	4.87	4.8	6.02	4.31	2.7	3.17	5.9	6.72	3.17
#84	7.3	11.1	8	9.2	14.4	10.6	11.4	0	10.2	16.1	10.1	10.9	10.4	13.9	17.8	13.1	16.7	13.2	13.9	17.2
#85	-0.01	0.04	0.06	0.15	0.12	0.05	0.07	0	0.08	-0.01	-0.01	0	0.04	0.03	0	0.11	0.04	0	0.03	0.01
#86	0	4	2	1	0	2	1	0	1	0	0	2	0	0	0	1	1	1	1	0
#87	0	3	3	4	0	3	4	0	1	0	0	1	0	0	0	2	2	0	2	0
#88	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
#89	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
#90	4.76	4.3	3.64	5.69	3.67	4.54	5.48	3.77	2.84	4.81	4.79	4.27	4.25	4.31	0	3.83	3.87	4.75	4.3	4.86
#91	1.08	1.05	0.85	0.85	0.95	0.95	1.15	0.55	1	1.05	1.25	1.15	1.15	1.1	0.71	0.75	0.75	1.1	1.1	0.95
#92	1	0.7	1.7	3.2	1	1	1.7	1	1	0.6	1	0.7	1	1	1	1.7	1.7	1	1	0.6
#93	1	0.7	1	1.7	1	1	1.7	1.3	1	1	1	0.7	1	1	13	1	1	1	1	1
#94	1.2	1.7	1.2	0.7	1	1	0.7	0.8	1.2	0.8	1	1.7	1	1	1	1.5	1	1	1	0.8
#95	1	1.7	1	0.7	1	1	0.7	1.5	1	1	1	1.7	1	1	0.1	1	1	1	1	1
#96	0.28	0.1	0.25	0.21	0.28	0.35	0.33	0.17	0.21	0.82	1	0.09	0.74	2.18	0.39	0.12	0.21	5.7	1.26	0.6
#97	1.29	1	0.81	1.1	0.79	1.07	1.49	0.63	1.33	1.05	1.31	1.33	1.54	1.13	0.63	0.78	0.77	1.18	0.71	0.81
#98	1.13	1.09	1.06	0.94	1.32	0.93	1.2	0.83	1.09	1.05	1.13	1.08	1.23	1.01	0.82	1.01	1.17	1.32	0.88	1.13
#99	1.55	0.2	1.2	1.55	1.44	1.13	1.67	0.59	1.21	1.27	1.25	1.2	1.37	0.4	0.21	1.01	0.55	1.86	1.08	0.64
#100	1.19	1	0.94	1.07	0.95	1.32	1.64	0.6	1.03	1.12	1.18	1.27	1.49	1.02	0.68	0.81	0.85	1.18	0.77	0.74
#101	0.84	1.04	0.66	0.59	1.27	1.02	0.57	0.94	0.81	1.29	1.1	0.86	0.88	1.15	0.8	1.05	1.2	1.15	1.39	1.56
#102	0.86	1.15	0.6	0.66	0.91	1.11	0.37	0.86	1.07	1.17	1.28	1.01	1.15	1.34	0.61	0.91	1.14	1.13	1.37	1.31
#103	0.91	0.99	0.72	0.74	1.12	0.9	0.41	0.91	1.01	1.29	1.23	0.86	0.96	1.26	0.65	0.93	1.05	1.15	1.21	1.58
#104	0.91	1	1.64	1.4	0.93	0.94	0.97	1.51	0.9	0.65	0.59	0.82	0.58	0.72	1.66	1.23	1.04	0.67	0.92	0.6
#105	0.8	0.96	1.1	1.6	0	1.6	0.4	2	0.96	0.85	0.8	0.94	0.39	1.2	2.1	1.3	0.6	0	1.8	0.8
#106	1.1	0.93	1.57	1.41	1.05	0.81	1.4	1.3	0.85	0.67	0.52	0.94	0.69	0.6	1.77	1.13	0.88	0.62	0.41	0.58
#107	0.93	1.01	1.36	1.22	0.92	0.83	1.05	1.45	0.96	0.58	0.59	0.91	0.6	0.71	1.67	1.25	1.08	0.68	0.98	0.62
#108	0.75	0.75	0.69	0	1	0.59	0	0	0	2.95	2.4	1.5	1.3	2.65	2.6	0	0.45	3	2.85	1.7
#109	88.3	181.2	125.1	110.8	112.4	148.7	140.5	60	152.6	168.5	168.5	175.6	162.2	189	122.2	88.7	118.2	227	193	141.4
#110	0	0.65	1.33	1.38	2.75	0.89	0.92	0.74	0.58	0	0	0.33	0	0	0.39	1.42	0.71	0.13	0.2	0

#111	8.1	10.5	11.6	13	5.5	10.5	12.3	9	10.4	5.2	4.9	11.3	5.7	5.2	8	9.2	8.6	5.4	6.2	5.9
#112	31	124	56	54	55	85	83	3	96	111	111	119	105	132	32.5	32	61	170	136	84
#113	0.1	1.91	0.48	0.78	-1.42	0.95	0.83	0.33	-0.5	-1.13	-1.18	1.4	-1.59	-2.12	0.73	0.52	0.07	-0.51	-0.21	-1.27
#114	1	2.3	2.2	6.5	0.1	2.1	6.2	1.1	2.8	0.8	0.8	5.3	0.7	1.4	0.9	1.7	1.5	1.9	2.1	0.9
#115	-0.5	3	0.2	3	-1	0.2	3	0	-0.5	-1.8	-1.8	3	-1.3	-2.5	0	0.3	-0.4	-3.4	-2.3	-1.5
#116	29.22	26.37	38.3	37.09	50.7	44.02	41.84	23.71	59.64	45	48.03	57.1	69.32	48.52	36.13	32.4	35.2	56.92	51.73	40.35
#117	30.88	68.43	41.7	40.66	53.83	46.62	44.98	24.74	65.99	49.71	50.62	63.21	55.32	51.06	39.21	35.65	36.5	60	51.15	42.75
#118	154.33	341.01	207.9	194.91	219.79	235.51	223.16	127.9	242.54	233.21	232.3	300.46	202.65	204.74	179.93	174.06	205.8	237.01	229.15	207.6
#119	1.53	1.17	0.6	1	0.89	1.27	1.63	0.44	1.03	1.07	1.32	1.26	1.66	1.22	0.25	0.65	0.86	1.05	0.7	0.93
#120	0.86	0.98	0.74	0.69	1.39	0.89	0.66	0.7	1.06	1.31	1.01	0.77	1.06	1.16	1.16	1.09	1.24	1.17	1.28	1.4
#121	0.78	1.06	1.56	1.5	0.6	0.78	0.97	1.73	0.83	0.4	0.57	1.01	0.3	0.67	1.55	1.19	1.09	0.74	1.14	0.44
#122	1.09	0.97	1.14	0.77	0.5	0.83	0.92	1.25	0.67	0.66	0.44	1.25	0.45	0.5	2.96	1.21	1.33	0.62	0.94	0.56
#123	0.35	0.75	2.12	2.16	0.5	0.73	0.65	2.4	1.19	0.12	0.58	0.83	0.22	0.89	0.43	1.24	0.85	0.62	1.44	0.43
#124	1.09	1.07	0.88	1.24	1.04	1.09	1.14	0.27	1.07	0.97	1.3	1.2	0.55	0.8	1.78	1.2	0.99	1.03	0.69	0.77
#125	1.34	2.78	0.92	1.77	1.44	0.79	2.54	0.95	0	0.52	1.05	0.79	0	0.43	0.37	0.87	1.14	1.79	0.73	0
#126	0.47	0.52	2.16	1.15	0.41	0.95	0.64	3.03	0.89	0.62	0.53	0.98	0.68	0.61	0.63	1.03	0.39	0.63	0.83	0.76
#127	27.8	94.7	60.1	60.6	15.5	68.7	68.2	24.5	50.7	22.8	27.6	103	33.5	25.5	51.5	42	45	34.7	55.2	23.7
#128	51	5	22	19	74	16	16	52	34	66	60	3	52	58	25	35	30	49	24	64
#129	15	67	49	50	5	56	55	10	34	13	16	85	20	10	45	32	32	17	41	14
#130	1.7	0.1	0.4	0.4	4.6	0.3	0.3	1.8	0.8	3.1	2.4	0.05	1.9	2.2	0.6	0.8	0.7	1.6	0.5	2.9
#131	0.3	-1.4	-0.5	-0.6	0.9	-0.7	-0.7	0.3	-0.1	0.7	0.5	-1.8	0.4	0.5	-0.3	-0.1	-0.2	0.3	-0.4	0.6
#132	0.87	0.85	0.09	0.66	1.52	0	0.67	0.1	0.87	3.15	2.17	1.64	1.67	2.87	2.77	0.07	0.07	3.77	2.67	1.87
#133	2.34	1.18	2.02	2.01	1.65	2.17	2.19	2.34	1.82	2.36	2.36	2.18	2.28	1.83	1.99	2.21	2.1	2.38	2.2	2.32
#134	0.077	0.051	0.043	0.052	0.02	0.041	0.062	0.074	0.023	0.053	0.091	0.059	0.024	0.04	0.051	0.069	0.059	0.014	0.032	0.066
#135	100	83	104	86	44	84	77	50	91	103	54	72	93	51	58	117	107	25	50	98
#136	5.3	2.6	3	3.6	1.3	2.4	3.3	4.8	1.4	3.1	4.7	4.1	1.1	2.3	2.5	4.5	3.7	0.8	2.3	4.2
#137	685	382	397	400	241	313	427	707	155	394	581	575	132	303	366	593	490	99	292	553
#138	1.36	1	0.89	1.04	0.82	1.14	1.48	0.63	1.11	1.08	1.21	1.22	1.45	1.05	0.52	0.74	0.81	0.97	0.79	0.94

#139	0.81	0.85	0.62	0.71	1.17	0.98	0.53	0.88	0.92	1.48	1.24	0.77	1.05	1.2	0.61	0.92	1.18	1.18	1.23	1.66
#140	1.45	1.15	0.64	0.91	0.7	1.14	1.29	0.53	1.13	1.23	1.56	1.27	1.83	1.2	0.21	0.48	0.77	1.17	0.74	1.1
#141	0.75	0.79	0.33	0.31	1.46	0.75	0.46	0.83	0.83	1.87	1.56	0.66	0.86	1.37	0.52	0.82	1.36	0.79	1.08	2
#142	1.041	1.038	1.117	1.033	0.96	1.165	1.094	1.142	0.982	1.002	0.967	1.093	0.947	0.93	1.055	1.169	1.073	0.925	0.961	0.982
#143	0.946	1.028	1.006	1.089	0.878	1.025	1.036	1.042	0.952	0.892	0.961	1.082	0.862	0.912	1.085	1.048	1.051	0.917	0.93	0.927
#144	0.892	0.901	0.93	0.932	0.925	0.885	0.933	0.923	0.894	0.872	0.921	1.057	0.804	0.914	0.932	0.923	0.934	0.803	0.837	0.913
#145	49.1	133	-3.6	0	0	20	0	64.6	75.7	18.9	15.6	0	6.8	54.7	43.8	44.4	31	70.5	0	29.5
#146	0	1	0	-1	0	0	-1	0	0	0	0	1	0	0	0	0	0	0	0	0
#147	4.6	6.5	5.9	5.7	-1	6.1	5.6	7.6	4.5	2.6	3.25	7.9	1.4	3.2	7	5.25	4.8	4	4.35	3.4
#148	4.32	6.55	6.24	6.04	1.73	6.13	6.17	6.09	5.66	2.31	3.93	7.92	2.44	2.59	7.19	5.37	5.16	2.78	3.58	3.31
#149	0.28	0.34	0.31	0.33	0.11	0.39	0.37	0.28	0.23	0.12	0.16	0.59	0.08	0.1	0.46	0.27	0.26	0.15	0.25	0.22
#150	27.5	105	58.7	40	44.6	80.7	62	0	79	93.5	93.5	100	94.1	115.5	41.9	29.3	51.3	145.5	117.3	71.5
#151	1.8	-4.5	-3.5	-3.5	2.5	-3.5	-3.5	-0.4	-3.2	4.5	3.8	-3.9	1.9	2.8	-1.6	-0.8	-0.7	-0.9	-1.3	4.2
#152	-0.48	-0.06	-0.87	-0.75	-0.32	-0.32	-0.71	0	-0.51	0.81	1.02	-0.09	0.81	1.03	2.03	0.05	-0.35	0.66	1.24	0.56
#153	-0.5	3	0.2	2.5	-1	0.2	2.5	0	-0.5	-1.8	-1.8	3	-1.3	-2.5	-1.4	0.3	-0.4	-3.4	-2.3	-1.5
#154	0.77	3.72	1.98	1.99	1.38	2.58	2.63	0	2.76	1.83	2.08	2.94	2.34	2.97	1.42	1.28	1.43	3.58	3.36	1.49
#155	121.9	121.4	117.5	121.2	113.7	118	118.2	0	118.2	118.9	118.1	122	113.1	118.2	81.9	117.9	117.1	118.4	110	121.7
#156	243.2	206.6	207.1	215	209.4	205.4	213.6	300	219.9	217.9	205.6	210.9	204	203.7	237.4	232	226.7	203.7	195.6	220.3
#157	0.77	2.38	1.45	1.43	1.22	1.75	1.77	0.58	1.78	1.56	1.54	2.08	1.8	1.9	1.25	1.08	1.24	2.21	2.13	1.29
#158	5.2	6	5	5	6.1	6	6	4.2	6	7	7	6	6.8	7.1	6.2	4.9	5	7.6	7.1	6.4
#159	0.025	0.2	0.1	0.1	0.1	0.1	0.1	0.025	0.1	0.19	0.19	0.2	0.19	0.39	0.17	0.025	0.1	0.56	0.39	0.15
#160	1.29	0.96	0.9	1.04	1.11	1.27	1.44	0.56	1.22	0.97	1.3	1.23	1.47	1.07	0.52	0.82	0.82	0.99	0.72	0.91
#161	0.9	0.99	0.76	0.72	0.74	0.8	0.75	0.92	1.08	1.45	1.02	0.77	0.97	1.32	0.64	0.95	1.21	1.14	1.25	1.49
#162	0.77	0.88	1.28	1.41	0.81	0.98	0.99	1.64	0.68	0.51	0.58	0.96	0.41	0.59	1.91	1.32	1.04	0.76	1.05	0.47
#163	1.32	0.98	0.95	1.03	0.92	1.1	1.44	0.61	1.31	0.93	1.31	1.25	1.39	1.02	0.58	0.76	0.79	0.97	0.73	0.93
#164	0.86	0.97	0.73	0.69	1.04	1	0.66	0.89	0.85	1.47	1.04	0.77	0.93	1.21	0.68	1.02	1.27	1.26	1.31	1.43
#165	0.79	0.9	1.25	1.47	0.79	0.92	1.02	1.67	0.81	0.5	0.57	0.99	0.51	0.77	1.78	1.3	0.97	0.79	0.93	0.46
#166	0.22	0.28	0.42	0.73	0.2	0.26	0.08	0.58	0.14	0.22	0.19	0.27	0.38	0.08	0.46	0.55	0.49	0.43	0.46	0.08

#167	0.92	0.93	0.6	0.48	1.16	0.95	0.61	0.61	0.93	1.81	1.3	0.7	1.19	1.25	0.4	0.82	1.12	1.54	1.53	1.81
#168	1	0.68	0.54	0.5	0.91	0.28	0.59	0.79	0.38	2.6	1.42	0.59	1.49	1.3	0.35	0.7	0.59	0.89	1.08	2.63
#169	0.9	1.02	0.62	0.47	1.24	1.18	0.62	0.56	1.12	1.54	1.26	0.74	1.09	1.23	0.42	0.87	1.3	1.75	1.68	1.53
#170	12.97	11.72	11.42	10.85	14.63	11.76	11.89	12.43	12.16	15.67	14.9	11.36	14.39	14	11.37	11.23	11.69	13.93	13.42	15.71
#171	1.43	1.18	0.64	0.92	0.94	1.22	1.67	0.46	0.98	1.04	1.36	1.27	1.53	1.19	0.49	0.7	0.78	1.01	0.69	0.98
#172	0.86	0.94	0.74	0.72	1.17	0.89	0.62	0.97	1.06	1.24	0.98	0.79	1.08	1.16	1.22	1.04	1.18	1.07	1.25	1.33
#173	0.64	0.62	3.14	1.92	0.32	0.8	1.01	0.63	2.05	0.92	0.37	0.89	1.07	0.86	0.5	1.01	0.92	1	1.31	0.87
#174	0.17	0.76	2.62	1.08	0.95	0.91	0.28	5.02	0.57	0.26	0.21	1.17	0	0.28	0.12	0.57	0.23	0	0.97	0.24
#175	1.13	0.48	1.11	1.18	0.38	0.41	1.02	3.84	0.3	0.4	0.65	1.13	0	0.45	0	0.81	0.71	0.93	0.38	0.48
#176	1	1.18	0.87	1.39	1.09	1.13	1.04	0.46	0.71	0.68	1.01	1.05	0.36	0.65	1.95	1.56	1.23	1.1	0.87	0.58
#177	4.34	26.66	13.28	12	35.77	17.56	17.26	0	21.81	19.06	18.78	21.29	21.64	29.4	10.93	6.35	11.01	42.53	31.53	13.92
#178	0.5	0.8	0.8	-8.2	-6.8	-4.8	-16.9	0	-3.5	13.9	8.8	0.1	4.8	13.2	6.1	1.2	2.7	14.9	6.1	2.7
#179	-0.1	-4.5	-1.6	-2.8	-2.2	-2.5	-7.5	-0.5	0.8	11.8	10	-3.2	7.1	13.9	8	-3.7	1.5	18.1	8.2	3.3
#180	1.1	-0.4	-4.2	-1.6	7.1	-2.9	0.7	-0.2	-0.7	8.5	11	-1.9	5.4	13.4	4.4	-3.2	-1.7	17.1	7.4	5.9
#181	1	-2	-3	-0.5	4.6	-2	1.1	0.2	-2.2	7	9.6	-3	4	12.6	3.1	-2.9	-0.6	15.1	6.7	4.6
#182	0.93	0.98	0.98	1.01	0.88	1.02	1.02	1.01	0.89	0.79	0.85	1.05	0.84	0.78	1	1.02	0.99	0.83	0.93	0.81
#183	0.94	1.09	1.04	1.08	0.84	1.11	1.12	1.01	0.92	0.76	0.82	1.23	0.83	0.73	1.04	1.04	1.02	0.87	1.03	0.81
#184	87	81	70	71	104	66	72	90	90	105	104	65	100	108	78	83	83	94	83	94
#185	2.36	1.92	1.7	1.67	3.36	1.75	1.74	2.06	2.41	4.17	3.93	1.23	4.22	4.37	1.89	1.81	2.04	3.82	2.91	3.49
#186	1.29	0.83	0.77	1	0.94	1.1	1.54	0.72	1.29	0.94	1.23	1.23	1.23	1.23	0.7	0.78	0.87	1.06	0.63	0.97
#187	0.96	0.67	0.72	0.9	1.13	1.18	0.33	0.9	0.87	1.54	1.26	0.81	1.29	1.37	0.75	0.77	1.23	1.13	1.07	1.41
#188	0.72	1.33	1.38	1.04	1.01	0.81	0.75	1.35	0.76	0.8	0.63	0.84	0.62	0.58	1.43	1.34	1.03	0.87	1.35	0.83
#189	7.99	5.86	4.33	5.14	1.81	3.98	6.1	6.91	2.17	5.48	9.16	6.01	2.5	3.83	4.95	6.84	5.77	1.34	3.15	6.65
#190	3.73	3.34	2.33	2.23	2.3	2.36	3	3.36	1.55	2.52	3.4	3.36	1.37	1.94	3.18	2.83	2.63	1.15	1.76	2.53
#191	5.74	1.92	5.25	2.11	1.03	2.3	2.63	5.66	2.3	9.12	15.36	3.2	5.3	6.51	4.79	7.55	7.51	2.51	4.08	5.12
#192	-0.6	-1.18	0.39	-1.36	-0.34	-0.71	-1.16	-0.37	0.08	1.44	1.82	-0.84	2.04	1.38	-0.05	0.25	0.66	1.02	0.53	-0.6
#193	5.88	1.54	4.38	1.7	1.11	2.3	2.6	5.29	2.33	8.78	16.52	2.58	6	6.58	5.29	7.68	8.38	2.89	3.51	4.66
#194	-0.57	-1.29	0.02	-1.54	-0.3	-0.71	-1.17	-0.48	0.1	1.31	2.16	-1.02	2.55	1.42	0.11	0.3	0.99	1.35	0.2	-0.79

#195	5.39	2.81	7.31	3.07	0.86	2.31	2.7	6.52	2.23	9.94	12.64	4.67	3.68	6.34	3.62	7.24	5.44	1.64	5.42	6.18
#196	-0.7	-0.91	1.28	-0.93	-0.41	-0.71	-1.13	-0.12	0.04	1.77	1.02	-0.4	0.86	1.29	-0.42	0.14	-0.13	0.26	1.29	-0.19
#197	9.25	3.96	3.71	3.89	1.07	3.17	4.8	8.51	1.88	6.47	10.94	3.5	3.14	6.36	4.36	6.26	5.66	2.22	3.28	7.55
#198	0.34	-0.57	-0.27	-0.56	-0.32	-0.34	-0.43	0.48	-0.19	0.39	0.52	-0.75	0.47	1.3	-0.19	-0.2	-0.04	0.77	0.07	0.36
#199	10.17	1.21	1.36	1.18	1.48	1.57	1.15	8.87	1.07	10.91	16.22	1.04	4.12	9.6	2.24	5.38	5.61	2.67	2.68	11.44
#200	6.61	0.41	1.84	0.59	0.83	1.2	1.63	4.88	1.14	12.91	21.66	1.15	7.17	7.76	3.51	6.84	8.89	2.11	2.57	6.3
#201	1.61	0.4	0.73	0.75	0.37	0.61	1.5	3.12	0.46	1.61	1.37	0.62	1.59	1.24	0.67	0.68	0.92	1.63	0.67	1.3
#202	8.63	6.75	4.18	6.24	1.03	4.76	7.82	6.8	2.7	3.48	8.44	6.25	2.14	2.73	6.28	8.53	4.43	0.8	2.54	5.44
#203	10.88	6.01	5.75	6.13	0.69	4.68	9.34	7.72	2.15	1.8	8.03	6.11	3.79	2.93	7.21	7.25	3.51	0.47	1.01	4.57
#204	5.15	4.38	4.81	5.75	3.24	4.45	7.05	6.38	2.69	4.4	8.11	5.25	1.6	3.52	5.65	8.04	7.41	1.68	3.42	7
#205	5.04	3.73	5.94	5.26	2.2	4.5	6.07	7.09	2.99	4.32	9.88	6.31	1.85	3.72	6.22	8.05	5.2	2.1	3.32	6.19
#206	9.9	0.09	0.94	0.35	2.55	0.87	0.08	8.14	0.2	15.25	22.28	0.16	1.85	6.47	2.38	4.17	4.33	2.21	3.42	14.34
#207	6.69	6.65	4.49	4.97	1.7	5.39	7.76	6.32	2.11	4.51	8.23	8.36	2.46	3.59	5.2	7.4	5.18	1.06	2.75	5.27
#208	5.08	4.75	5.75	5.96	2.95	4.24	6.04	8.2	2.1	4.95	8.03	4.93	2.61	4.36	4.84	6.41	5.87	2.31	4.55	6.07
#209	9.36	0.27	2.31	0.94	2.56	1.14	0.94	6.17	0.47	13.73	16.64	0.58	3.93	10.99	1.96	5.58	4.68	2.2	3.13	12.43
#210	0.23	-0.26	-0.94	-1.13	1.78	-0.57	-0.75	-0.07	0.11	1.19	1.03	-1.05	0.66	0.48	-0.76	-0.67	-0.36	0.9	0.59	1.24
#211	-0.22	-0.93	-2.65	-4.12	4.66	-2.76	-3.64	-1.62	1.28	5.58	5.01	-4.18	3.51	5.27	-3.03	-2.84	-1.2	5.2	2.15	4.45
#212	0.5	0	0	0	0	0	0	0	0.5	1.8	1.8	0	1.3	2.5	0	0	0.4	3.4	2.3	1.5
#213	-1.895	-1.475	-1.56	-1.518	-2.035	-1.521	-1.535	-1.898	-1.755	-1.951	-1.966	-1.374	-1.963	-1.864	-1.699	-1.753	-1.767	-1.869	-1.686	-1.981
#214	-1.404	-0.921	-1.178	-1.162	-1.365	-1.116	-1.163	-1.364	-1.215	-1.189	-1.315	-1.074	-1.303	-1.135	-1.236	-1.297	-1.252	-1.03	-1.03	-1.254
#215	-0.491	-0.554	-0.382	-0.356	-0.67	-0.405	-0.371	-0.534	-0.54	-0.762	-0.65	-0.3	-0.659	-0.729	-0.463	-0.455	-0.515	-0.839	-0.656	-0.728
#216	-9.475	-16.225	-12.48	-12.144	-12.21	-13.689	-13.815	-7.592	-17.55	-15.608	-15.728	-12.366	-15.704	-20.504	-11.893	-10.518	-12.369	-26.166	-20.232	-13.867
#217	-7.02	-10.131	-9.424	-9.296	-8.19	-10.044	-10.467	-5.456	-12.15	-9.512	-10.52	-9.666	-10.424	-12.485	-8.652	-7.782	-8.764	-14.42	-12.36	-8.778
#218	2.01	0.84	0.03	-2.05	1.98	1.02	0.93	0.12	-0.14	3.7	2.73	2.55	1.75	2.68	0.41	1.47	2.39	2.49	2.23	3.5
#219	1.34	0.95	2.49	3.32	1.07	1.49	2.2	2.07	1.27	0.66	0.54	0.61	0.7	0.8	2.12	0.94	1.09	-4.65	-0.17	1.32
#220	0.46	-1.54	1.31	-0.33	0.2	-1.12	0.48	0.64	-1.31	3.28	0.43	-1.71	0.15	0.52	-0.58	-0.83	-1.52	1.25	-2.21	0.54

#221	-2.49	2.55	2.27	8.86	-3.13	1.79	4.04	-0.56	4.22	-10.87	-7.16	-9.97	-4.96	-6.64	5.19	-1.6	-4.75	-17.84	9.25	-3.97
#222	4.55	5.97	5.56	2.85	-0.78	4.15	5.16	9.14	4.48	2.1	3.24	10.68	2.18	4.37	5.14	6.78	8.6	1.97	2.4	3.81
#223	1.3	0.93	0.9	1.02	0.92	1.04	1.43	0.63	1.33	0.87	1.3	1.23	1.32	1.09	0.63	0.78	0.8	1.03	0.71	0.95
#224	1.32	1.04	0.74	0.97	0.7	1.25	1.48	0.59	1.06	1.01	1.22	1.13	1.47	1.1	0.57	0.77	0.86	1.02	0.72	1.05
#225	0.81	1.03	0.81	0.71	1.12	1.03	0.59	0.94	0.85	1.47	1.03	0.77	0.96	1.13	0.75	1.02	1.19	1.24	1.35	1.44
#226	0.9	0.75	0.82	0.75	1.12	0.95	0.44	0.83	0.86	1.59	1.24	0.75	0.94	1.41	0.46	0.7	1.2	1.28	1.45	1.73
#227	0.84	0.91	1.48	1.28	0.69	1	0.78	1.76	0.53	0.55	0.49	0.95	0.52	0.88	1.47	1.29	1.05	0.88	1.28	0.51
#228	0.65	0.93	1.45	1.47	1.43	0.94	0.75	1.53	0.96	0.57	0.56	0.95	0.71	0.72	1.51	1.46	0.96	0.9	1.12	0.55
#229	1.08	0.93	1.05	0.86	1.22	0.95	1.09	0.85	1.02	0.98	1.04	1.01	1.11	0.96	0.91	0.95	1.15	1.17	0.8	1.03
#230	1.34	0.91	0.83	1.06	1.27	1.13	1.69	0.47	1.11	0.84	1.39	1.08	0.9	1.02	0.48	1.05	0.74	0.64	0.73	1.18
#231	1.15	1.06	0.87	1	1.03	1.43	1.37	0.64	0.95	0.99	1.22	1.2	1.45	0.92	0.72	0.84	0.97	1.11	0.72	0.82
#232	0.89	1.06	0.67	0.71	1.04	1.06	0.72	0.87	1.04	1.14	1.02	1	1.41	1.32	0.69	0.86	1.15	1.06	1.35	1.66
#233	0.82	0.99	1.27	0.98	0.71	1.01	0.54	0.94	1.26	1.67	0.94	0.73	1.3	1.56	0.69	0.65	0.98	1.25	1.26	1.22
#234	0.98	1.03	0.66	0.74	1.01	0.63	0.59	0.9	1.17	1.38	1.05	0.83	0.82	1.23	0.73	0.98	1.2	1.26	1.23	1.62
#235	0.69	0	1.52	2.42	0	1.44	0.63	2.64	0.22	0.43	0	1.18	0.88	2.2	1.34	1.43	0.28	0	1.53	0.14
#236	0.87	1.3	1.36	1.24	0.83	1.06	0.91	1.69	0.91	0.27	0.67	0.66	0	0.47	1.54	1.08	1.12	1.24	0.54	0.69
#237	0.91	0.77	1.32	0.9	0.5	1.06	0.53	1.61	1.08	0.36	0.77	1.27	0.76	0.37	1.62	1.34	0.87	1.1	1.24	0.52
#238	0.92	0.9	1.57	1.22	0.62	0.66	0.92	1.61	0.39	0.79	0.5	0.86	0.5	0.96	1.3	1.4	1.11	0.57	1.78	0.5
#239	2.1	4.2	7	10	1.4	6	7.8	5.7	2.1	-8	-9.2	5.7	-4.2	-9.2	2.1	6.5	5.2	-10	-1.9	-3.7
#240	-2.89	-3.3	-3.41	-3.38	-2.49	-3.15	-2.94	-3.25	-2.84	-1.72	-1.61	-3.31	-1.84	-1.63	-2.5	-3.3	-2.91	-1.75	-2.42	-2.08
#241	12.28	11.49	11	10.97	14.93	11.28	11.19	12.01	12.84	14.77	14.1	10.8	14.33	13.43	11.19	11.26	11.65	12.95	13.29	15.07
#242	7.62	6.81	6.17	6.18	10.93	6.67	6.38	7.31	7.85	9.99	9.37	5.72	9.83	8.99	6.64	6.93	7.08	8.41	8.53	10.38
#243	2.63	2.45	2.27	2.29	3.36	2.45	2.31	2.55	2.57	3.08	2.98	2.12	3.18	3.02	2.46	2.6	2.55	2.85	2.79	3.21
#244	13.65	11.28	12.24	10.98	14.49	11.3	12.55	15.36	11.59	14.63	14.01	11.96	13.4	14.08	11.51	11.26	13	12.06	12.64	12.88
#245	14.6	13.24	11.79	13.78	15.9	12.02	13.59	14.18	15.35	14.1	16.49	13.28	16.23	14.18	14.1	13.36	14.5	13.9	14.76	16.3
#246	10.67	11.05	10.85	10.21	14.15	11.71	11.71	10.95	12.07	12.95	13.07	9.93	15	13.27	10.62	11.18	10.53	11.41	11.52	13.86
#247	3.7	2.53	2.12	2.6	3.03	2.7	3.3	3.13	3.57	7.69	5.88	1.79	5.21	6.6	2.12	2.43	2.6	6.25	3.03	7.14
#248	6.05	5.7	5.04	4.95	7.86	5.45	5.1	6.16	5.8	7.51	7.37	4.88	6.39	6.62	5.65	5.53	5.81	6.98	6.73	7.62

#249	0.305	0.227	0.322	0.335	0.339	0.306	0.282	0.352	0.215	0.278	0.262	0.391	0.28	0.195	0.346	0.326	0.251	0.291	0.293	0.291
#250	0.175	0.083	0.09	0.14	0.074	0.093	0.135	0.201	0.125	0.1	0.104	0.058	0.054	0.104	0.136	0.155	0.152	0.092	0.081	0.096
#251	0.687	0.59	0.489	0.632	0.263	0.527	0.669	0.67	0.594	0.564	0.541	0.407	0.328	0.577	0.6	0.692	0.713	0.632	0.495	0.529
#252	-6.7	51.5	20.1	38.5	-8.4	17.2	34.3	-4.2	12.6	-13	-11.7	36.8	-14.2	-15.5	0.8	-2.5	-5	-7.9	2.9	-10.9
#253	1.29	0.96	0.9	1.04	1.11	1.27	1.44	0.56	1.22	0.97	1.3	1.23	1.47	1.07	0.52	0.82	0.82	0.99	0.72	0.91
#254	0.9	0.99	0.76	0.72	0.74	0.8	0.75	0.92	1.08	1.45	1.02	0.77	0.97	1.32	0.64	0.95	1.21	1.14	1.25	1.49
#255	0.78	0.88	1.28	1.41	0.8	0.97	1	1.64	0.69	0.51	0.59	0.96	0.39	0.58	1.91	1.33	1.03	0.75	1.05	0.47
#256	1.1	0.95	0.8	0.65	0.95	1	1	0.6	0.85	1.1	1.25	1	1.15	1.1	0.1	0.75	0.75	1.1	1.1	0.95
#257	1	0.7	0.6	0.5	1.9	1	0.7	0.3	0.8	4	2	0.7	1.9	3.1	0.2	0.9	1.7	2.2	2.8	4
#258	0.12	0.04	-0.1	0.01	-0.25	-0.03	-0.02	-0.02	-0.06	-0.07	0.05	0.26	0	0.05	-0.19	-0.19	-0.04	-0.06	-0.14	-0.03
#259	0.26	-0.14	-0.03	0.15	-0.15	-0.13	0.21	-0.37	0.1	-0.03	-0.02	0.12	0	0.12	-0.08	0.01	-0.34	-0.01	-0.29	0.02
#260	0.64	-0.1	0.09	0.33	0.03	-0.23	0.51	-0.09	-0.23	-0.22	0.41	-0.17	0.13	-0.03	-0.43	-0.1	-0.07	-0.02	-0.38	-0.01
#261	0.29	-0.03	-0.04	0.11	-0.05	0.26	0.28	-0.67	-0.26	0	0.47	-0.19	0.27	0.24	-0.34	-0.17	-0.2	0.25	-0.3	-0.01
#262	0.68	-0.22	-0.09	-0.02	-0.15	-0.15	0.44	-0.73	-0.14	-0.08	0.61	0.03	0.39	0.06	-0.76	-0.26	-0.1	0.2	-0.04	0.12
#263	0.34	0.22	-0.33	0.06	-0.18	0.01	0.2	-0.88	-0.09	-0.03	0.2	-0.11	0.43	0.15	-0.81	-0.35	-0.37	0.07	-0.31	0.13
#264	0.57	0.23	-0.36	-0.46	-0.15	0.15	0.26	-0.71	-0.05	0	0.48	0.16	0.41	0.03	-1.12	-0.47	-0.54	-0.1	-0.35	0.31
#265	0.33	0.1	-0.19	-0.44	-0.03	0.19	0.21	-0.46	0.27	-0.33	0.57	0.23	0.79	0.48	-1.86	-0.23	-0.33	0.15	-0.19	0.24
#266	0.13	0.08	-0.07	-0.71	-0.09	0.12	0.13	-0.39	0.32	0	0.5	0.37	0.63	0.15	-1.4	-0.28	-0.21	0.02	-0.1	0.17
#267	0.31	0.18	-0.1	-0.81	-0.26	0.41	-0.06	-0.42	0.51	-0.15	0.56	0.47	0.58	0.1	-1.33	-0.49	-0.44	0.14	-0.08	-0.01
#268	0.21	0.07	-0.04	-0.58	-0.12	0.13	-0.23	-0.15	0.37	0.31	0.7	0.28	0.61	-0.06	-1.03	-0.28	-0.25	0.21	0.16	0
#269	0.18	0.21	-0.03	-0.32	-0.29	-0.27	-0.25	-0.4	0.28	-0.03	0.62	0.41	0.21	0.05	-0.84	-0.05	-0.16	0.32	0.11	0.06
#270	-0.08	0.05	-0.08	-0.24	-0.25	-0.28	-0.19	-0.1	0.29	-0.01	0.28	0.45	0.11	0	-0.42	0.07	-0.33	0.36	0	-0.13
#271	-0.18	-0.13	0.28	0.05	-0.26	0.21	-0.06	0.23	0.24	-0.42	-0.23	0.03	-0.42	-0.18	-0.13	0.41	0.33	-0.1	-0.1	-0.07
#272	-0.01	0.02	0.41	-0.09	-0.27	0.01	0.09	0.13	0.22	-0.27	-0.25	0.08	-0.57	-0.12	0.26	0.44	0.35	-0.15	0.15	-0.09
#273	-0.19	0.03	0.02	-0.06	-0.29	0.02	-0.1	0.19	-0.16	-0.08	-0.42	-0.09	-0.38	-0.32	0.05	0.25	0.22	-0.19	0.05	-0.15
#274	-0.14	0.14	-0.27	-0.1	-0.64	-0.11	-0.39	0.46	-0.04	0.16	-0.57	0.04	0.24	0.08	0.02	-0.12	0	-0.1	0.18	0.29
#275	-0.31	0.25	-0.53	-0.54	-0.06	0.07	-0.52	0.37	-0.32	0.57	0.09	-0.29	0.29	0.24	-0.31	0.11	0.03	0.15	0.29	0.48
#276	-0.1	0.19	-0.89	-0.89	0.13	-0.04	-0.34	-0.45	-0.34	0.95	0.32	-0.46	0.43	0.36	-0.91	-0.12	0.49	0.34	0.42	0.76

#277	-0.25	-0.02	-0.77	-1.01	0.13	-0.12	-0.62	-0.72	-0.16	1.1	0.23	-0.59	0.32	0.48	-1.24	-0.31	0.17	0.45	0.77	0.69
#278	-0.26	-0.09	-0.34	-0.55	0.47	-0.33	-0.75	-0.56	-0.04	0.94	0.25	-0.55	-0.05	0.2	-1.28	-0.28	0.08	0.22	0.53	0.67
#279	0.05	-0.11	-0.4	-0.11	0.36	-0.67	-0.35	0.14	0.02	0.47	0.32	-0.51	-0.1	0.2	-0.79	0.03	-0.15	0.09	0.34	0.58
#280	-0.44	-0.13	0.05	-0.2	0.13	-0.58	-0.28	0.08	0.09	-0.04	-0.12	-0.33	-0.21	-0.13	-0.48	0.27	0.47	-0.22	-0.11	0.06
#281	-0.31	-0.1	0.06	0.13	-0.11	-0.47	-0.05	0.45	-0.06	-0.25	-0.44	-0.44	-0.28	-0.04	-0.29	0.34	0.27	-0.08	0.06	0.11
#282	-0.02	0.04	0.03	0.11	-0.02	-0.17	0.1	0.38	-0.09	-0.48	-0.26	-0.39	-0.14	-0.03	-0.04	0.41	0.36	-0.01	-0.08	-0.18
#283	-0.06	0.02	0.1	0.24	-0.19	-0.04	-0.04	0.17	0.19	-0.2	-0.46	-0.43	-0.52	-0.33	0.37	0.43	0.5	-0.32	0.35	0
#284	-0.05	0.06	0	0.15	0.3	-0.08	-0.02	-0.14	-0.07	0.26	0.04	-0.42	0.25	0.09	0.31	-0.11	-0.06	0.19	0.33	0.04
#285	-0.19	0.17	-0.38	0.09	0.41	0.04	-0.2	0.28	-0.19	-0.06	0.34	-0.2	0.45	0.07	0.04	-0.23	-0.02	0.16	0.22	0.05
#286	-0.43	0.06	0	-0.31	0.19	0.14	-0.41	-0.21	0.21	0.29	-0.1	0.33	-0.01	0.25	0.28	-0.23	-0.26	0.15	0.09	-0.1
#287	-0.19	-0.07	0.17	-0.27	0.42	-0.29	-0.22	0.17	0.17	-0.34	-0.22	0	-0.53	-0.31	0.14	0.22	0.1	-0.15	-0.02	-0.33
#288	-0.25	0.12	0.61	0.6	0.18	0.09	-0.12	0.09	0.42	-0.54	-0.55	0.14	-0.47	-0.29	0.89	0.24	0.16	-0.44	-0.19	-0.45
#289	-0.27	-0.4	0.71	0.54	0	-0.08	-0.12	1.14	0.18	-0.74	-0.54	0.45	-0.76	-0.47	1.4	0.4	-0.1	-0.46	-0.05	-0.86
#290	-0.42	-0.23	0.81	0.95	-0.18	-0.01	-0.09	1.24	0.05	-1.17	-0.69	0.09	-0.86	-0.39	1.77	0.63	0.29	-0.37	-0.41	-1.32
#291	-0.24	-0.04	0.45	0.65	-0.38	0.01	0.07	0.85	-0.21	-0.65	-0.8	0.17	-0.71	-0.61	2.27	0.33	0.13	-0.44	-0.49	-0.99
#292	-0.14	0.21	0.35	0.66	-0.09	0.11	0.06	0.36	-0.31	-0.51	-0.8	-0.14	-0.56	-0.25	1.59	0.32	0.21	-0.17	-0.35	-0.7
#293	0.01	-0.13	-0.11	0.78	-0.31	-0.13	0.09	0.14	-0.56	-0.09	-0.81	-0.43	-0.49	-0.2	1.14	0.13	-0.02	-0.2	0.1	-0.11
#294	-0.3	-0.09	-0.12	0.44	0.03	0.24	0.18	-0.12	-0.2	-0.07	-0.18	0.06	-0.44	0.11	0.77	-0.09	-0.27	-0.09	-0.25	-0.06
#295	-0.23	-0.2	0.06	0.34	0.19	0.47	0.28	0.14	-0.22	0.42	-0.36	-0.15	-0.19	-0.02	0.78	-0.29	-0.3	-0.18	0.07	0.29
#296	0.08	-0.01	-0.06	0.04	0.37	0.48	0.36	-0.02	-0.45	0.09	0.24	-0.27	0.16	0.34	0.16	-0.35	-0.04	-0.06	-0.2	0.18
#297	0.934	0.962	0.986	0.994	0.9	1.047	0.986	1.015	0.882	0.766	0.825	1.04	0.804	0.773	1.047	1.056	1.008	0.848	0.931	0.825
#298	0.941	1.112	1.038	1.071	0.866	1.15	1.1	1.055	0.911	0.742	0.798	1.232	0.781	0.723	1.093	1.082	1.043	0.867	1.05	0.817
#299	1.16	1.72	1.97	2.66	0.5	3.87	2.4	1.63	0.86	0.57	0.51	3.9	0.4	0.43	2.04	1.61	1.48	0.75	1.72	0.59
#300	0.85	2.02	0.88	1.5	0.9	1.71	1.79	1.54	1.59	0.67	1.03	0.88	1.17	0.85	1.47	1.5	1.96	0.83	1.34	0.89
#301	1.58	1.14	0.77	0.98	1.04	1.24	1.49	0.66	0.99	1.09	1.21	1.27	1.41	1	1.46	1.05	0.87	1.23	0.68	0.88
#302	0.82	2.6	2.07	2.64	0	0	2.62	1.63	0	2.32	0	2.86	0	0	0	1.23	2.48	0	1.9	1.62
#303	0.78	1.75	1.32	1.25	3.14	0.93	0.94	1.13	1.03	1.26	0.91	0.85	0.41	1.07	1.73	1.31	1.57	0.98	1.31	1.11
#304	0.88	0.99	1.02	1.16	1.14	0.93	1.01	0.7	1.87	1.61	1.09	0.83	1.71	1.52	0.87	1.14	0.96	1.96	1.68	1.56

#305	0.3	0.9	2.73	1.26	0.72	0.97	1.33	3.09	1.33	0.45	0.96	0.71	1.89	1.2	0.83	1.16	0.97	1.58	0.86	0.64
#306	0.4	1.2	1.24	1.59	2.98	0.5	1.26	1.89	2.71	1.31	0.57	0.87	0	1.27	0.38	0.92	1.38	1.53	1.79	0.95
#307	1.48	1.02	0.99	1.19	0.86	1.42	1.43	0.46	1.27	1.12	1.33	1.36	1.41	1.3	0.25	0.89	0.81	1.27	0.91	0.93
#308	0	0	4.14	2.15	0	0	0	6.49	0	0	0	0	0	2.11	1.99	0	1.24	0	1.9	0
#309	1.02	1	1.31	1.76	1.05	1.05	0.83	2.39	0.4	0.83	1.06	0.94	1.33	0.41	2.73	1.18	0.77	1.22	1.09	0.88
#310	0.93	1.52	0.92	0.6	1.08	0.94	0.73	0.78	1.08	1.74	1.03	1	1.31	1.51	1.37	0.97	1.38	1.12	1.65	1.7
#311	0.99	1.19	1.15	1.18	2.32	1.52	1.36	1.4	1.06	0.81	1.26	0.91	1	1.25	0	1.5	1.18	1.33	1.09	1.01
#312	17.05	21.25	34.81	19.27	28.84	15.42	20.12	38.14	23.07	16.66	10.89	16.46	20.61	16.26	23.94	19.95	18.92	23.36	26.49	17.06
#313	14.53	17.82	13.59	19.78	30.57	22.18	18.19	37.16	22.63	20.28	14.3	14.07	20.61	19.61	52.63	18.56	21.09	19.78	26.36	21.87
#314	1.81	-14.92	-6.64	-8.72	1.28	-5.54	-6.81	0.94	-4.66	4.92	4.92	-5.55	2.35	2.98	0	-3.4	-2.57	2.33	-0.14	4.04
#315	0.52	-1.32	-0.01	0	0	-0.07	-0.79	0	0.95	2.04	1.76	0.08	1.32	2.09	0	0.04	0.27	2.51	1.63	1.18
#316	0.13	-5	-3.04	-2.23	-2.52	-3.84	-3.43	1.45	-5.61	-2.77	-2.64	-3.97	-3.83	-3.74	0	-1.66	-2.31	-8.21	-5.97	-2.05
#317	1.29	-13.6	-6.63	0	0	-5.47	-6.02	0.94	-5.61	2.88	3.16	-5.63	1.03	0.89	0	-3.44	-2.84	-0.18	-1.77	2.86
#318	1.42	-18.6	-9.67	0	0	-9.31	-9.45	2.39	-11.22	0.11	0.52	-9.6	-2.8	-2.85	0	-5.1	-5.15	-8.39	-7.74	0.81
#319	93.7	250.4	146.3	142.6	135.2	177.7	182.9	52.6	188.1	182.2	173.7	215.2	197.6	228.6	0	109.5	142.1	271.6	239.9	157.2
#320	-0.29	-2.71	-1.18	-1.02	0	-1.53	-0.9	-0.34	-0.94	0.24	-0.12	-2.05	-0.24	0	0	-0.75	-0.71	-0.59	-1.02	0.09
#321	-0.06	-0.84	-0.48	-0.8	1.36	-0.73	-0.77	-0.41	0.49	1.31	1.21	-1.18	1.27	1.27	0	-0.5	-0.27	0.88	0.33	1.09
#322	0.7	0.4	1.2	1.4	0.6	1	1	1.6	1.2	0.9	0.9	1	0.3	1.2	0.7	1.6	0.3	1.1	1.9	0.7
#323	0.7	0.4	1.2	1.4	0.6	1	1	1.6	1.2	0.9	0.9	1	0.3	1.2	0.7	1.6	0.3	1.1	1.9	0.7
#324	0.5	0.4	3.5	2.1	0.6	0.4	0.4	1.8	1.1	0.2	0.2	0.7	0.8	0.2	0.8	2.3	1.6	0.3	0.8	0.1
#325	1.2	0.7	0.7	0.8	0.8	0.7	2.2	0.3	0.7	0.9	0.9	0.6	0.3	0.5	2.6	0.7	0.8	2.1	1.8	1.1
#326	1.6	0.9	0.7	2.6	1.2	0.8	2	0.9	0.7	0.7	0.3	1	1	0.9	0.5	0.8	0.7	1.7	0.4	0.6
#327	1	0.4	0.7	2.2	0.6	1.5	3.3	0.6	0.7	0.4	0.6	0.8	1	0.6	0.4	0.4	1	1.4	1.2	1.1
#328	1.1	1.5	0	0.3	1.1	1.3	0.5	0.4	1.5	1.1	2.6	0.8	1.7	1.9	0.1	0.4	0.5	3.1	0.6	1.5
#329	1.4	1.2	1.2	0.6	1.6	1.4	0.9	0.6	0.9	0.9	1.1	1.9	1.7	1	0.3	1.1	0.6	1.4	0.2	0.8
#330	1.8	1.3	0.9	1	0.7	1.3	0.8	0.5	1	1.2	1.2	1.1	1.5	1.3	0.3	0.6	1	1.5	0.8	1.2
#331	1.8	1	0.6	0.7	0	1	1.1	0.5	2.4	1.3	1.2	1.4	2.7	1.9	0.3	0.5	0.5	1.1	1.3	0.4
#332	1.3	0.8	0.6	0.5	0.7	0.2	0.7	0.5	1.9	1.6	1.4	1	2.8	2.9	0	0.5	0.6	2.1	0.8	1.4

#333	0.7	0.8	0.8	0.6	0.2	1.3	1.6	0.1	1.1	1.4	1.9	2.2	1	1.8	0	0.6	0.7	0.4	1.1	1.3
#334	1.4	2.1	0.9	0.7	1.2	1.6	1.7	0.2	1.8	0.4	0.8	1.9	1.3	0.3	0.2	1.6	0.9	0.4	0.3	0.7
#335	1.1	1	1.2	0.4	1.6	2.1	0.8	0.2	3.4	0.7	0.7	2	1	0.7	0	1.7	1	0	1.2	0.7
#336	0.8	0.9	1.6	0.7	0.4	0.9	0.3	3.9	1.3	0.7	0.7	1.3	0.8	0.5	0.7	0.8	0.3	0	0.8	0.2
#337	1	1.4	0.9	1.4	0.8	1.4	0.8	1.2	1.2	1.1	0.9	1.2	0.8	0.1	1.9	0.7	0.8	0.4	0.9	0.6
#338	0.7	1.1	1.5	1.4	0.4	1.1	0.7	0.6	1	0.7	0.5	1.3	0	1.2	1.5	0.9	2.1	2.7	0.5	1
#339	6.5	-0.9	-5.1	0.5	-1.3	1	7.8	-8.6	1.2	0.6	3.2	2.3	5.3	1.6	-7.7	-3.9	-2.6	1.2	-4.5	1.4
#340	2.3	-5.2	0.3	7.4	0.8	-0.7	10.3	-5.2	-2.8	-4	-2.1	-4.1	-3.5	-1.1	8.1	-3.5	2.3	-0.9	-3.7	-4.4
#341	6.7	0.3	-6.1	-3.1	-4.9	0.6	2.2	-6.8	-1	3.2	5.5	0.5	7.2	2.8	-22.8	-3	-4	4	-4.6	2.5
#342	2.3	1.4	-3.3	-4.4	6.1	2.7	2.5	-8.3	5.9	-0.5	0.1	7.3	3.5	1.6	-24.4	-1.9	-3.7	-0.9	-0.6	2.3
#343	-2.3	0.4	-4.1	-4.4	4.4	1.2	-5	-4.2	-2.5	6.7	2.3	-3.3	2.3	2.6	-1.8	-1.7	1.3	-1	4	6.8
#344	-2.7	0.4	-4.2	-4.4	3.7	0.8	-8.1	-3.9	-3	7.7	3.7	-2.9	3.7	3	-6.6	-2.4	1.7	0.3	3.3	7.1
#345	0	1.1	-2	-2.6	5.4	2.4	3.1	-3.4	0.8	-0.1	-3.7	-3.1	-2.1	0.7	7.4	1.3	0	-3.4	4.8	2.7
#346	-5	2.1	4.2	3.1	4.4	0.4	-4.7	5.7	-0.3	-4.6	-5.6	1	-4.8	-1.8	2.6	2.6	0.3	3.4	2.9	-6
#347	-3.3	0	5.4	3.9	-0.3	-0.4	-1.8	-1.2	3	-0.5	-2.3	-1.2	-4.3	0.8	6.5	1.8	-0.7	-0.8	3.1	-3.5
#348	-4.7	2	3.9	1.9	6.2	-2	-4.2	5.7	-2.6	-7	-6.2	2.8	-4.8	-3.7	3.6	2.1	0.6	3.3	3.8	-6.2
#349	-3.7	1	-0.6	-0.6	4	3.4	-4.3	5.9	-0.8	-0.5	-2.8	1.3	-1.6	1.6	-6	1.5	1.2	6.5	1.3	-4.6
#350	-2.5	-1.2	4.6	0	-4.7	-0.5	-4.4	4.9	1.6	-3.3	-2	-0.8	-4.1	-4.1	5.8	2.5	1.7	1.2	-0.6	-3.5
#351	-5.1	2.6	4.7	3.1	3.8	0.2	-5.2	5.6	-0.9	-4.5	-5.4	1	-5.3	-2.4	3.5	3.2	0	2.9	3.2	-6.3
#352	-1	0.3	-0.7	-1.2	2.1	-0.1	-0.7	0.3	1.1	4	2	-0.9	1.8	2.8	0.4	-1.2	-0.5	3	2.1	1.4
#353	86.6	162.2	103.3	97.8	132.3	119.2	113.9	62.9	155.8	158	164.1	115.5	172.9	194.1	92.9	85.6	106.5	224.6	177.7	141
#354	0.74	0.64	0.63	0.62	0.91	0.62	0.62	0.72	0.78	0.88	0.85	0.52	0.85	0.88	0.64	0.66	0.7	0.85	0.76	0.86
#355	-0.67	12.1	7.23	8.72	-0.34	6.39	7.35	0	3.82	-3.02	-3.02	6.13	-1.3	-3.24	-1.75	4.35	3.86	-2.86	0.98	-2.18
#356	-0.67	3.89	2.27	1.57	-2	2.12	1.78	0	1.09	-3.02	-3.02	2.46	-1.67	-3.24	-1.75	0.1	-0.42	-2.86	0.98	-2.18
#357	0.4	0.3	0.9	0.8	0.5	0.7	1.3	0	1	0.4	0.6	0.4	0.3	0.7	0.9	0.4	0.4	0.6	1.2	0.4
#358	0.73	0.73	-0.01	0.54	0.7	-0.1	0.55	0	1.1	2.97	2.49	1.5	1.3	2.65	2.6	0.04	0.44	3	2.97	1.69
#359	0.239	0.211	0.249	0.171	0.22	0.26	0.187	0.16	0.205	0.273	0.281	0.228	0.253	0.234	0.165	0.236	0.213	0.183	0.193	0.255
#360	0.33	-0.176	-0.233	-0.371	0.074	-0.254	-0.409	0.37	-0.078	0.149	0.129	-0.075	-0.092	-0.011	0.37	0.022	0.136	-0.011	-0.138	0.245

#361	-0.11	0.079	-0.136	-0.285	-0.184	-0.067	-0.246	-0.073	0.32	0.001	-0.008	0.049	-0.041	0.438	-0.016	-0.153	-0.208	0.493	0.381	-0.155
#362	-0.062	-0.167	0.166	-0.079	0.38	-0.025	-0.184	-0.017	0.056	-0.309	-0.264	-0.371	0.077	0.074	-0.036	0.47	0.348	0.05	0.22	-0.212
#363	1.071	1.033	0.784	0.68	0.922	0.977	0.97	0.591	0.85	1.14	1.14	0.939	1.2	1.086	0.659	0.76	0.817	1.107	1.02	0.95
#364	8	0.1	0.1	70	26	33	6	0.1	0.1	55	33	1	54	18	42	0.1	0.1	77	66	0.1
#365	-0.4	-0.59	-0.92	-1.31	0.17	-0.91	-1.22	-0.67	-0.64	1.25	1.22	-0.67	1.02	1.92	-0.49	-0.55	-0.28	0.5	1.67	0.91
#366	1.42	1.06	0.71	1.01	0.73	1.02	1.63	0.5	1.2	1.12	1.29	1.24	1.21	1.16	0.65	0.71	0.78	1.05	0.67	0.99
#367	0.946	1.128	0.432	1.311	0.481	1.615	0.698	0.36	2.168	1.283	1.192	1.203	0	0.963	2.093	0.523	1.961	1.925	0.802	0.409
#368	0.79	1.087	0.832	0.53	1.268	1.038	0.643	0.725	0.864	1.361	1.111	0.735	1.092	1.052	1.249	1.093	1.214	1.114	1.34	1.428
#369	1.194	0.795	0.659	1.056	0.678	1.29	0.928	1.015	0.611	0.603	0.595	1.06	0.831	0.377	3.159	1.444	1.172	0.452	0.816	0.64
#370	0.497	0.677	2.072	1.498	1.348	0.711	0.651	1.848	1.474	0.471	0.656	0.932	0.425	1.348	0.179	1.151	0.749	1.283	1.283	0.654
#371	0.937	1.725	1.08	1.64	1.004	1.078	0.679	0.901	1.085	0.178	0.808	1.254	0.886	0.803	0.748	1.145	1.487	0.803	1.227	0.625
#372	0.289	1.38	3.169	0.917	1.767	2.372	0.285	4.259	1.061	0.262	0	1.288	0	0.393	0	0.16	0.218	0	0.654	0.167
#373	0.328	2.088	1.498	3.379	0	0	0	0.5	1.204	2.078	0.414	0.835	0.982	1.336	0.415	1.089	1.732	1.781	0	0.946
#374	0.945	0.364	1.202	1.315	0.932	0.704	1.014	2.355	0.525	0.673	0.758	0.947	1.028	0.622	0.579	1.14	0.863	0.777	0.907	0.561
#375	0.842	0.936	1.352	1.366	1.032	0.998	0.758	1.349	1.079	0.459	0.665	1.045	0.668	0.881	1.385	1.257	1.055	0.881	1.101	0.643
#376	0.135	0.296	0.196	0.289	0.159	0.236	0.184	0.051	0.223	0.173	0.215	0.17	0.239	0.087	0.151	0.01	0.1	0.166	0.066	0.285
#377	0.507	0.459	0.287	0.223	0.592	0.383	0.445	0.39	0.31	0.111	0.619	0.559	0.431	0.077	0.739	0.689	0.785	0.16	0.06	0.356
#378	0.159	0.194	0.385	0.283	0.187	0.236	0.206	0.049	0.233	0.581	0.083	0.159	0.198	0.682	0.366	0.15	0.074	0.463	0.737	0.301
#379	0.037 31	0.095 93	0.003 59	0.126 3	0.082 92	0.076 06	0.005 8	0.004 99	0.024 15	0	0	0.037 1	0.082 26	0.094 6	0.019 79	0.082 92	0.094 08	0.054 81	0.051 59	0.005 69
#380	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	1	1	1
#381	-12.04	39.23	4.25	23.22	3.95	2.16	16.81	-7.85	6.28	-18.32	-17.79	9.71	-8.86	-21.98	5.82	-1.54	-4.15	-16.19	-1.51	-16.22
#382	10.04	6.18	5.63	5.76	8.89	5.41	5.37	7.99	7.49	8.72	8.79	4.4	9.15	7.98	7.79	7.08	7	8.07	6.9	8.88
#383	0.89	0.88	0.89	0.87	0.85	0.82	0.84	0.92	0.83	0.76	0.73	0.97	0.74	0.52	0.82	0.96	0.92	0.2	0.49	0.85
#384	0.52	0.49	0.42	0.37	0.83	0.35	0.38	0.41	0.7	0.79	0.77	0.31	0.76	0.87	0.35	0.49	0.38	0.86	0.64	0.72
#385	0.16	-0.2	1.03	-0.24	-0.12	-0.55	-0.45	-0.16	-0.18	-0.19	-0.44	-0.12	-0.79	-0.25	-0.59	-0.01	0.05	-0.33	-0.42	-0.46
#386	0.15	-0.37	0.69	-0.22	-0.19	-0.06	0.14	0.36	-0.25	0.02	0.06	-0.16	0.11	1.18	0.11	0.13	0.28	-0.12	0.19	-0.08
#387	-0.07	-0.4	-0.57	-0.8	0.17	-0.26	-0.63	0.27	-0.49	0.06	-0.17	-0.45	0.03	0.4	-0.47	-0.11	0.09	-0.61	-0.61	-0.11
#388	7	9.1	10	13	5.5	8.6	12.5	7.9	8.4	4.9	4.9	10.1	5.3	5	6.6	7.5	6.6	5.3	5.7	5.6

#389	1.94	-19.92	-9.68	-10.95	-1.24	-9.38	-10.2	2.39	-10.27	2.15	2.28	-9.52	-1.48	-0.76	-3.68	-5.06	-4.88	-5.88	-6.11	1.99
#390	0.07	2.88	3.22	3.64	0.71	2.18	3.08	2.23	2.41	-4.44	-4.19	2.84	-2.49	-4.92	-1.22	1.96	0.92	-4.75	-1.39	-2.69
#391	-1.73	2.52	1.45	1.13	-0.97	0.53	0.39	-5.36	1.74	-1.68	-1.03	1.41	-0.27	1.3	0.88	-1.63	-2.09	3.65	2.32	-2.53
#392	0.09	-3.44	0.84	2.36	4.13	-1.14	-0.07	0.3	1.11	-1.03	-0.98	-3.14	-0.41	0.45	2.23	0.57	-1.4	0.85	0.01	-1.29
#393	8.5	0	8.2	8.5	11	6.3	8.8	7.1	10.1	16.8	15	7.9	13.3	11.2	8.2	7.4	8.8	9.9	8.8	12
#394	6.8	0	6.2	7	8.3	8.5	4.9	6.4	9.2	10	12.2	7.5	8.4	8.3	6.9	8	7	5.7	6.8	9.4
#395	-0.152	-0.089	-0.203	-0.355	0	-0.181	-0.411	-0.19	0	-0.086	-0.102	-0.062	-0.107	0.001	-0.181	-0.203	-0.17	0.275	0	-0.125
#396	0.83	0.83	0.09	0.64	1.48	0	0.65	0.1	1.1	3.07	2.52	1.6	1.4	2.75	2.7	0.14	0.54	0.31	2.97	1.79
#397	11.5	14.28	12.82	11.68	13.46	14.45	13.57	3.4	13.69	21.4	21.4	15.71	16.25	19.8	17.43	9.47	15.77	21.67	18.03	21.57
#398	0	52	3.38	49.7	1.48	3.53	49.9	0	51.6	0.13	0.13	49.5	1.43	0.35	1.58	1.67	1.66	2.1	1.61	0.13
#399	6	10.76	5.41	2.77	5.05	5.65	3.22	5.97	7.59	6.02	5.98	9.74	5.74	5.48	6.3	5.68	5.66	5.89	5.66	5.96
#400	9.9	4.6	5.4	2.8	2.8	9	3.2	5.6	8.2	17.1	17.6	3.5	14.9	18.8	14.8	6.9	9.5	17.1	15	14.3
#401	0.94	1.15	0.79	1.19	0.6	0.94	1.41	1.18	1.15	1.07	0.95	1.03	0.88	1.06	1.18	0.69	0.87	0.91	1.04	0.9
#402	0.98	1.14	1.05	1.05	0.41	0.9	1.04	1.25	1.01	0.88	0.8	1.06	1.12	1.12	1.31	1.02	0.8	0.9	1.12	0.87
#403	1.05	0.81	0.91	1.39	0.6	0.87	1.11	1.26	1.43	0.95	0.96	0.97	0.99	0.95	1.05	0.96	1.03	1.06	0.94	0.62
#404	0.75	0.9	1.24	1.72	0.66	1.08	1.1	1.14	0.96	0.8	1.01	0.66	1.02	0.88	1.33	1.2	1.13	0.68	0.8	0.58
#405	0.67	0.76	1.28	1.58	0.37	1.05	0.94	0.98	0.83	0.78	0.79	0.84	0.98	0.96	1.12	1.25	1.41	0.94	0.82	0.67
#406	1.1	1.05	0.72	1.14	0.26	1.31	2.3	0.55	0.83	1.06	0.84	1.08	0.9	0.9	1.67	0.81	0.77	1.26	0.99	0.76
#407	1.39	0.95	0.67	1.64	0.52	1.6	2.07	0.65	1.36	0.64	0.91	0.8	1.1	1	0.94	0.69	0.92	1.1	0.73	0.7
#408	1.43	1.33	0.55	0.9	0.52	1.43	1.7	0.56	0.66	1.18	1.52	0.82	1.68	1.1	0.15	0.61	0.75	1.68	0.65	1.14
#409	1.55	1.39	0.6	0.61	0.59	1.43	1.34	0.37	0.89	1.47	1.36	1.27	2.13	1.39	0.03	0.44	0.65	1.1	0.93	1.18
#410	1.8	1.73	0.73	0.9	0.55	0.97	1.73	0.32	0.46	1.09	1.47	1.24	1.64	0.96	0.15	0.67	0.7	0.68	0.91	0.81
#411	1.52	1.49	0.58	1.04	0.26	1.41	1.76	0.3	0.83	1.25	1.26	1.1	1.14	1.14	0.44	0.66	0.73	0.68	1.04	1.03
#412	1.49	1.41	0.67	0.94	0.37	1.52	1.55	0.29	0.96	1.04	1.4	1.17	1.84	0.86	0.2	0.68	0.79	1.52	1.06	0.94
#413	1.73	1.24	0.7	0.68	0.63	0.88	1.16	0.32	0.76	1.15	1.8	1.22	2.21	1.35	0.07	0.65	0.46	1.57	1.1	0.94
#414	1.33	1.39	0.64	0.6	0.44	1.37	1.43	0.2	1.02	1.58	1.63	1.71	1.76	1.22	0.07	0.42	0.57	1	1.02	1.08
#415	1.87	1.66	0.7	0.91	0.33	1.24	1.88	0.33	0.89	0.9	1.65	1.63	1.35	0.67	0.03	0.71	0.5	1	0.73	0.51
#416	1.19	1.45	1.33	0.72	0.44	1.43	1.27	0.74	1.55	0.61	1.36	1.45	1.35	1.2	0.1	1.02	0.82	0.58	1.06	0.46

#417	0.77	1.11	1.39	0.79	0.44	0.95	0.92	2.74	1.65	0.64	0.66	1.19	0.74	1.04	0.66	0.64	0.82	0.58	0.93	0.53
#418	0.93	0.96	0.82	1.15	0.67	1.02	1.07	1.08	1.4	1.14	1.16	1.27	1.11	1.05	1.01	0.71	0.84	1.06	1.15	0.74
#419	1.09	1.29	1.03	1.17	0.26	1.08	1.31	0.97	0.88	0.97	0.87	1.13	0.96	0.84	2.01	0.76	0.79	0.91	0.64	0.77
#420	0.71	1.09	0.95	1.43	0.65	0.87	1.19	1.07	1.13	1.05	0.84	1.1	0.8	0.95	1.7	0.65	0.086	1.25	0.85	1.12
#421	13.4	13.3	12	11.7	11.6	12.8	12.2	11.3	11.6	12	13	13	12.8	12.1	6.5	12.2	11.7	12.4	12.1	11.9
#422	-0.77	-0.68	-0.07	-0.15	-0.23	-0.33	-0.27	0	-0.06	-0.23	-0.62	-0.65	-0.5	-0.41	3	-0.35	-0.11	-0.45	-0.17	-0.14
#423	0.984	1.008	1.048	1.068	0.906	1.037	1.094	1.031	0.95	0.927	0.935	1.102	0.952	0.915	1.049	1.046	0.997	0.904	0.929	0.931
#424	1.315	1.31	1.38	1.372	1.196	1.342	1.376	1.382	1.279	1.241	1.234	1.367	1.269	1.247	1.342	1.381	1.324	1.186	1.199	1.235
#425	0.994	1.026	1.022	1.022	0.939	1.041	1.052	1.018	0.967	0.977	0.982	1.029	0.963	0.934	1.05	1.025	0.998	0.938	0.981	0.968
#426	0.783	0.807	0.799	0.822	0.785	0.817	0.826	0.784	0.777	0.776	0.783	0.834	0.806	0.774	0.809	0.811	0.795	0.796	0.788	0.781
#427	0.423	0.503	0.906	0.87	0.877	0.594	0.167	1.162	0.802	0.566	0.494	0.615	0.444	0.706	1.945	0.928	0.884	0.69	0.778	0.706
#428	0.619	0.753	1.089	0.932	1.107	0.77	0.675	1.361	1.034	0.876	0.74	0.784	0.736	0.968	1.78	0.969	1.053	0.91	1.009	0.939
#429	1.08	0.976	1.197	1.266	0.733	1.05	1.085	1.104	0.906	0.583	0.789	1.026	0.812	0.685	1.412	0.987	0.784	0.755	0.665	0.546
#430	0.978	0.784	0.915	1.038	0.573	0.863	0.962	1.405	0.724	0.502	0.766	0.841	0.729	0.585	2.613	0.784	0.569	0.671	0.56	0.444
#431	1.4	1.23	1.61	1.89	1.14	1.33	1.42	2.06	1.25	1.02	1.33	1.34	1.12	1.07	3.9	1.2	0.99	1.1	0.98	0.87
#432	4.08	3.91	3.83	3.02	4.49	3.67	2.23	4.24	4.08	4.52	4.81	3.77	4.48	5.38	3.8	4.12	4.11	6.1	5.19	4.18
#433	-0.35	-0.44	-0.38	-0.41	-0.47	-0.4	-0.41	0	-0.46	-0.56	-0.48	-0.41	-0.46	-0.55	-0.23	-0.39	-0.48	-0.48	-0.5	-0.53
#434	0.5	1.7	1.7	1.6	0.6	1.6	1.6	1.3	1.6	0.6	0.4	1.6	0.5	0.4	1.7	0.7	0.4	0.7	0.6	0.5
#435	0.96	0.77	0.39	0.42	0.42	0.8	0.53	0	0.57	0.84	0.92	0.73	0.86	0.59	-2.5	0.53	0.54	0.58	0.72	0.63
#436	0.343	0.353	0.409	0.429	0.319	0.395	0.405	0.389	0.307	0.296	0.287	0.429	0.293	0.292	0.432	0.416	0.362	0.268	0.22	0.307
#437	0.32	0.327	0.384	0.424	0.198	0.436	0.514	0.374	0.299	0.306	0.34	0.446	0.313	0.314	0.354	0.376	0.339	0.291	0.287	0.294
#438	8.9	4.6	4.4	6.3	0.6	2.8	6.9	9.4	2.2	7	7.4	6.1	2.3	3.3	4.2	4	5.7	1.3	4.5	8.2
#439	9.2	3.6	5.1	6	1	2.9	6	9.4	2.1	6	7.7	6.5	2.4	3.4	4.2	5.5	5.7	1.2	3.7	8.2
#440	14.1	5.5	3.2	5.7	0.1	3.7	8.8	4.1	2	7.1	9.1	7.7	3.3	5	0.7	3.9	4.4	1.2	4.5	5.9
#441	13.4	3.9	3.7	4.6	0.8	4.8	7.8	4.6	3.3	6.5	10.6	7.5	3	4.5	1.3	3.8	4.6	1	3.3	7.1
#442	9.8	7.3	3.6	4.9	3	2.4	4.4	0	11.9	17.2	17	10.5	11.9	23	15	2.6	6.9	24.2	17.2	15.3
#443	0.7	0.95	1.47	0.87	1.17	0.73	0.96	0.64	1.39	1.29	1.44	0.91	0.91	1.34	0.12	0.84	0.74	1.8	1.68	1.2
#444	58	-184	-93	-97	116	-139	-131	-11	-73	107	95	-24	78	92	-79	-34	-7	59	-11	100

#445	51	-144	-84	-78	137	-128	-115	-13	-55	106	103	-205	73	108	-79	-26	-3	69	11	108
#446	41	-109	-74	-47	169	-104	-90	-18	-35	104	103	-148	77	128	-81	-31	10	102	36	116
#447	32	-95	-73	-29	182	-95	-74	-22	-25	106	104	-124	82	132	-82	-34	20	118	44	113
#448	24	-79	-76	0	194	-87	-57	-28	-31	102	103	-9	90	131	-85	-36	34	116	43	111
#449	5	-57	-77	45	224	-67	-8	-47	-50	83	82	-38	83	117	-103	-41	79	130	27	117
#450	-2	-41	-97	248	329	-37	117	-66	-70	28	36	115	62	120	-132	-52	174	179	-7	114
#451	0.4	1.5	1.6	15	0.7	1.4	1.3	1.1	1.4	0.5	0.3	1.4	0.5	0.3	1.6	0.9	0.7	0.9	0.9	0.4
#452	-0.04	-0.3	0.25	0.27	0.57	-0.02	-0.33	1.24	-0.11	-0.26	-0.38	-0.18	-0.09	-0.01	0	0.15	0.39	0.21	0.05	-0.06
#453	-0.12	0.34	1.05	1.12	-0.63	1.67	0.91	0.76	1.34	-0.77	0.15	0.29	-0.71	-0.67	0	1.45	-0.7	-0.14	-0.49	-0.7
#454	8.6	4.2	4.6	4.9	2.9	4	5.1	7.8	2.1	4.6	8.8	6.3	2.5	3.7	4.9	7.3	6	1.4	3.6	6.7
#455	7.6	5	4.4	5.2	2.2	4.1	6.2	6.9	2.1	5.1	9.4	5.8	2.1	4	5.4	7.2	6.1	1.4	3.2	6.7
#456	8.1	4.6	3.7	3.8	2	3.1	4.6	7	2	6.7	11	4.4	2.8	5.6	4.7	7.3	5.6	1.8	3.3	7.7
#457	7.9	4.9	4	5.5	1.9	4.4	7.1	7.1	2.1	5.2	8.6	6.7	2.4	3.9	5.3	6.6	5.3	1.2	3.1	6.8
#458	8.3	8.7	3.7	4.7	1.6	4.7	6.5	6.3	2.1	3.7	7.4	7.9	2.3	2.7	6.9	8.8	5.1	0.7	2.4	5.3
#459	4.47	8.48	3.89	7.05	0.29	2.87	16.56	8.29	1.74	3.3	5.06	12.98	1.71	2.32	5.41	4.27	3.83	0.67	2.75	4.05
#460	6.77	6.87	5.5	8.57	0.31	5.24	12.93	7.95	2.8	2.72	4.43	10.2	1.87	1.92	4.79	5.41	5.36	0.54	2.26	3.57
#461	7.43	4.51	9.12	8.71	0.42	5.42	5.86	9.4	1.49	1.76	2.74	9.67	0.6	1.18	5.6	9.6	8.95	1.18	3.26	3.1
#462	5.22	7.3	6.06	7.91	1.01	6	10.66	5.81	2.27	2.36	4.52	12.68	1.85	1.68	5.7	6.99	5.16	0.56	2.16	4.1
#463	9.88	3.71	2.35	3.5	1.12	1.66	4.02	6.88	1.88	10.08	13.21	3.39	2.44	5.27	3.8	4.1	4.98	1.11	4.07	12.53
#464	10.98	3.26	2.85	3.37	1.47	2.3	3.51	7.48	2.2	9.74	12.79	2.54	3.1	4.97	3.42	4.93	5.55	1.28	3.55	10.69
#465	9.95	3.05	4.84	4.46	1.3	2.64	2.58	8.87	1.99	7.73	9.66	2	2.45	5.41	3.2	6.03	5.62	2.6	6.15	9.46
#466	8.26	2.8	2.54	2.8	2.67	2.86	2.67	5.62	1.98	8.95	16.46	1.89	2.67	7.32	3.3	6	5	2.01	3.96	10.24
#467	7.39	5.91	3.06	5.14	0.74	2.22	9.8	7.53	1.82	6.96	9.45	7.81	2.1	3.91	4.54	4.18	4.45	0.9	3.46	8.62
#468	9.07	4.9	4.05	5.73	0.95	3.63	7.77	7.69	2.47	6.56	9	6.01	2.54	3.59	4.04	5.15	5.46	0.95	2.96	7.47
#469	8.82	3.71	6.77	6.38	0.9	3.89	4.05	9.11	1.77	5.05	6.54	5.45	1.62	3.51	4.28	7.64	7.12	1.96	4.85	6.6
#470	6.65	5.17	4.4	5.5	1.79	4.52	6.89	5.72	2.13	5.47	10.15	7.59	2.24	4.34	4.56	6.52	5.08	1.24	3.01	7
#471	0	2.45	0	0	0	1.25	1.27	0	1.45	0	0	3.67	0	0	0	0	0	6.93	5.06	0
#472	89.3	190.3	122.4	114.4	102.5	146.9	138.8	63.8	157.5	163	163.1	165.1	165.8	190.8	121.6	94.2	119.6	226.4	194.6	138.2

#473	90	194	124.7	117.3	103.3	149.4	142.2	64.9	160	163.9	164	167.3	167	191.9	122.9	95.4	121.5	228.2	197	139
#474	0.0373	0.0959	0.0036	0.1263	0.0829	0.0761	0.0058	0.005	0.0242	0	0	0.0371	0.0823	0.0946	0.0198	0.0829	0.0941	0.0548	0.0516	0.0057
#475	0.85	0.2	-0.48	-1.1	2.1	-0.42	-0.79	0	0.22	3.14	1.99	-1.19	1.42	1.69	-1.14	-0.52	-0.08	1.76	1.37	2.53
#476	0.06	-0.85	0.25	-0.2	0.49	0.31	-0.1	0.21	-2.24	3.48	3.5	-1.62	0.21	4.8	0.71	-0.62	0.65	2.29	1.89	1.59
#477	2.62	1.26	-1.27	-2.84	0.73	-1.69	-0.45	-1.15	-0.74	4.38	6.57	-2.78	-3.12	9.14	-0.12	-1.39	1.81	5.91	1.39	2.3
#478	-1.64	-3.28	0.83	0.7	9.3	-0.04	1.18	-1.85	7.17	3.02	0.83	-2.36	4.26	-1.36	3.12	1.59	2.31	2.61	2.37	0.52
#479	-2.34	1.6	2.81	-0.48	5.03	0.16	1.3	-1.06	-3	7.26	1.09	1.56	0.62	2.57	-0.15	1.93	0.19	3.59	-2.58	2.06
#480	0.78	1.58	1.2	1.35	0.55	1.19	1.45	0.68	0.99	0.47	0.56	1.1	0.66	0.47	0.69	1	1.05	0.7	1	0.51
#481	25	-7	-7	2	32	0	14	-2	-26	91	100	-26	68	100	25	-2	7	109	56	62
#482	1.1	-5.1	-3.5	-3.6	2.5	-3.68	-3.2	-0.64	-3.2	4.5	3.8	-4.11	1.9	2.8	-1.9	-0.5	-0.7	-0.46	-1.3	4.2
#483	0.1366	0.0363	-0.0345	-0.1233	0.2745	0.0325	-0.0484	-0.0464	0.0549	0.4172	0.4251	-0.0101	0.1747	0.4076	0.0019	-0.0433	0.0589	0.2362	0.3167	0.4084
#484	0.0728	0.0394	-0.039	-0.0552	0.3557	0.0126	-0.0295	-0.0589	0.0874	0.3805	0.3819	-0.0053	0.1613	0.4201	-0.0492	-0.0282	0.0239	0.4114	0.3113	0.2947
#485	0.151	-0.0103	0.0381	0.0047	0.3222	0.0246	-0.0639	0.0248	0.1335	0.4238	0.3926	-0.0158	0.216	0.3455	0.0844	0.004	0.1462	0.2657	0.2998	0.3997
#486	-0.058	0	0.027	0.016	0.447	-0.073	-0.128	0.331	0.195	0.06	0.138	-0.112	0.275	0.24	-0.478	-0.177	-0.163	0.564	0.322	-0.052
#487	-0.17	0.37	0.18	0.37	-0.06	0.26	0.15	0.01	-0.02	-0.28	-0.28	0.32	-0.26	-0.41	0.13	0.05	0.02	-0.15	-0.09	-0.17
#488	-0.15	0.32	0.22	0.41	-0.15	0.03	0.3	0.08	0.06	-0.29	-0.36	0.24	-0.19	-0.22	0.15	0.16	-0.08	-0.28	-0.03	-0.24
#489	0.964	1.143	0.944	0.916	0.778	1.047	1.051	0.835	1.014	0.922	1.085	0.944	1.032	1.119	1.299	0.947	1.017	0.895	1	0.955
#490	0.974	1.129	0.988	0.892	0.972	1.092	1.054	0.845	0.949	0.928	1.11	0.946	0.923	1.122	1.362	0.932	1.023	0.879	0.902	0.923
#491	0.938	1.137	0.902	0.857	0.6856	0.916	1.139	0.892	1.109	0.986	1	0.952	1.077	1.11	1.266	0.956	1.018	0.971	1.157	0.959
#492	1.042	1.069	0.828	0.97	0.5	1.111	0.992	0.743	1.034	0.852	1.193	0.979	0.998	0.981	1.332	0.984	0.992	0.96	1.12	1.001
#493	1.065	1.131	0.762	0.836	1.015	0.861	0.736	1.022	0.973	1.189	1.192	0.478	1.369	1.368	1.241	1.097	0.822	1.017	0.836	1.14
#494	0.99	1.132	0.873	0.915	0.644	0.999	1.053	0.785	1.054	0.95	1.106	1.003	1.093	1.121	1.314	0.911	0.988	0.939	1.09	0.957
#495	0.892	1.154	1.144	0.925	1.035	1.2	1.115	0.917	0.992	0.817	0.994	0.944	0.782	1.058	1.309	0.986	1.11	0.841	0.866	0.9
#496	1.092	1.239	0.927	0.919	0.662	1.124	1.199	0.698	1.012	0.912	1.276	1.008	1.171	1.09	0.8	0.886	0.832	0.981	1.075	0.908
#497	0.843	1.038	0.956	0.906	0.896	0.968	0.9	0.978	1.05	0.946	0.885	0.893	0.878	1.151	1.816	1.003	1.189	0.852	0.945	0.999

#498	2.18	2.71	1.85	1.75	3.89	2.16	1.89	1.17	2.51	4.5	4.71	2.12	3.63	5.88	2.09	1.66	2.18	6.46	5.01	3.77
#499	1.79	3.2	2.83	2.33	2.22	2.37	2.52	0.7	3.06	4.59	4.72	2.5	3.91	4.84	2.45	1.82	2.45	5.64	4.46	3.67
#500	13.4	8.5	7.6	8.2	22.6	8.5	7.3	7	11.3	20.3	20.8	6.1	15.7	23.9	9.9	8.2	10.3	24.5	19.5	19.5
#501	0.0166	-0.0762	-0.0786	-0.1278	0.5724	-0.1051	-0.1794	-0.0442	0.1643	0.2758	0.2523	-0.2134	0.0197	0.3561	-0.4188	-0.1629	-0.0701	0.3836	0.25	0.1782
#502	90.1	192.8	127.5	117.1	113.2	149.4	140.8	63.8	159.3	164.9	164.6	170	167.7	193.5	123.1	94.2	120	197.1	231.7	139.1
#503	91.5	196.1	138.3	135.2	114.4	156.4	154.6	67.5	163.2	162.6	163.4	162.5	165.9	198.8	123.4	102	126	209.8	237.2	138.4
#504	1.076	1.361	1.056	1.29	0.753	0.729	1.118	1.346	0.985	0.926	1.054	1.105	0.974	0.869	0.82	1.342	0.871	0.666	0.531	1.131
#505	1.12	-2.55	-0.83	-0.83	0.59	-0.78	-0.92	1.2	-0.93	1.16	1.18	-0.8	0.55	0.67	0.54	-0.05	-0.02	-0.19	-0.23	1.13
#506	1.38	0	0.37	0.52	1.43	0.22	0.71	1.34	0.66	2.32	1.47	0.15	1.78	1.72	0.85	0.86	0.89	0.82	0.47	1.99
#507	-0.27	1.87	0.81	0.81	-1.05	1.1	1.17	-0.16	0.28	-0.77	-1.1	1.7	-0.73	-1.43	-0.75	0.42	0.63	-1.57	-0.56	-0.4
#508	0.05	0.12	0.29	0.41	-0.84	0.46	0.38	0.31	-0.41	-0.69	-0.62	0.57	-0.38	-0.45	0.46	0.12	0.38	-0.98	-0.25	-0.46
#509	-0.31	1.3	0.49	0.58	-0.87	0.7	0.68	-0.33	0.13	-0.66	-0.53	1.79	-0.38	-0.45	0.34	0.1	0.21	-0.27	0.4	-0.62
#510	-0.27	2	0.61	0.5	-0.23	1	0.33	-0.22	0.37	-0.8	-0.44	1.17	-0.31	-0.55	0.36	0.17	0.18	0.05	0.48	-0.65
#511	0.18	-5.4	-1.3	-2.36	0.27	-1.22	-2.1	0.09	-1.48	0.37	0.41	-2.53	0.44	0.5	-0.2	-0.4	-0.34	-0.01	-0.08	0.32
#512	0.42	-1.56	-1.03	-0.51	0.84	-0.96	-0.37	0	-2.28	1.81	1.8	-2.03	1.18	1.74	0.86	-0.64	-0.26	1.46	0.51	1.34
#513	0.616	0	0.236	0.028	0.68	0.251	0.043	0.501	0.165	0.943	0.943	0.283	0.738	1	0.711	0.359	0.45	0.878	0.88	0.825
#514	0.2	-0.7	-0.5	-1.4	1.9	-1.1	-1.3	-0.1	0.4	1.4	0.5	-1.6	0.5	1	-1	-0.7	-0.4	1.6	0.5	0.7
#515	50.76	48.66	45.8	43.17	58.74	46.09	43.48	50.27	49.33	57.3	53.89	42.92	52.75	53.45	45.39	47.24	49.26	53.59	51.79	56.12
#516	-0.414	-0.584	-0.916	-1.31	0.162	-0.905	-1.218	-0.684	-0.63	1.237	1.215	-0.67	1.02	1.938	-0.503	-0.563	-0.289	0.514	1.699	0.899
#517	-0.96	0.75	-1.94	-5.68	4.54	-5.3	-3.86	-1.28	-0.62	5.54	6.81	-5.62	4.76	5.06	-4.47	-1.92	-3.99	0.21	3.34	5.39
#518	-0.26	0.08	-0.46	-1.3	0.83	-0.83	-0.73	-0.4	-0.18	1.1	1.52	-1.01	1.09	1.09	-0.62	-0.55	-0.71	-0.13	0.69	1.15
#519	-0.73	-1.03	-5.29	-6.13	0.64	-0.96	-2.9	-2.67	3.03	5.04	4.91	-5.99	3.34	5.2	-4.32	-3	-1.91	0.51	2.87	3.98
#520	-1.35	-3.89	-10.96	-11.88	4.37	-1.34	-4.56	-5.82	6.54	10.93	9.88	-11.92	7.47	11.35	-10.86	-6.21	-4.83	1.8	7.61	8.2
#521	-0.56	-0.26	-2.87	-4.31	1.78	-2.31	-2.35	-1.35	0.81	3.83	4.09	-4.08	3.11	3.67	-3.22	-1.85	-1.97	-0.11	2.17	3.31
#522	1.37	1.33	6.29	8.93	-4.47	3.88	4.04	3.39	-1.65	-7.92	-8.68	7.7	-7.13	-7.96	6.25	4.08	4.02	0.79	-4.73	-6.94
#523	-0.02	0.44	0.63	0.72	-0.96	0.56	0.74	0.38	0	-1.89	-2.29	1.01	-1.36	-2.22	0.47	0.55	0.25	-1.28	-0.88	-1.34
#524	0	0.07	0.1	0.12	-0.16	0.09	0.12	0.06	0	-0.31	-0.37	0.17	-0.22	-0.36	0.08	0.09	0.04	-0.21	-0.14	-0.22

#525	-0.03	0.09	0.13	0.17	-0.36	0.13	0.23	0.09	-0.04	-0.33	-0.38	0.32	-0.3	-0.34	0.2	0.1	0.01	-0.24	-0.23	-0.29
#526	-0.04	0.07	0.13	0.19	-0.38	0.14	0.23	0.09	-0.04	-0.34	-0.37	0.33	-0.3	-0.38	0.19	0.12	0.03	-0.33	-0.29	-0.29
#527	-0.02	0.08	0.1	0.19	-0.32	0.15	0.21	-0.02	-0.02	-0.28	-0.32	0.3	-0.25	-0.33	0.11	0.11	0.05	-0.27	-0.23	-0.23
#528	-1.6	12.3	4.8	9.2	-2	4.1	8.2	-1	3	-3.1	-2.8	8.8	-3.4	-3.7	0.2	-0.6	-1.2	-1.9	0.7	-2.6
#529	-0.21	2.11	0.96	1.36	-6.04	1.52	2.3	0	-1.23	-4.81	-4.68	3.88	-3.66	-4.65	0.75	1.74	0.78	-3.32	-1.01	-3.5

Table S3 Final selected feature set

Feature	AAindex number	Heptad register	Gini decrease	AAindex
f107	107	a	5.86113239	Aperiodic indices for alpha/beta-proteins
f400	400	a	5.58690775	RF rank
f529	529	a	4.854953766	Hydrophobicity index
f506	506	a	4.498634238	Average internal preferences
f275	275	a	3.088757842	Weights for beta-sheet at the window position of -2
f2335	219	e	2.966099912	Optimized propensity to form reverse turn
f1419	361	c	2.791926444	Principal component III
f2415	299	e	2.776276893	Side chain orientational preference
f2226	110	e	2.595129415	Composition
f2611	495	e	2.362975221	Linker propensity from long dataset
f1	1	a	2.288527022	alpha-CH chemical shifts
f1604	17	d	2.111479815	alpha-CH chemical shifts
f2411	295	e	2.099546085	Weights for coil at the window position of 5
f1681	94	d	2.087453196	Helix termination parameter at posision j-2,j-1,j
f1807	220	d	1.980425379	Optimized transfer energy parameter
f3510	336	g	1.941153434	Relative preference value at C-cap
f2718	73	f	1.828779624	Melting point
f1981	394	d	1.813115348	Unfolding Gibbs energy in water, pH9.0
f3272	98	g	1.809993088	Alpha-helix indices for alpha-proteins
f44	44	a	1.754574363	Normalized frequency of C-terminal non helical region
f1820	233	d	1.687140619	Normalized frequency of beta-sheet in alpha+beta class
f2694	49	f	1.670388237	Frequency of the 1st residue in turn
f2488	372	e	1.630905623	Normalized frequency of left-handed helix
f1862	275	d	1.628047665	Weights for beta-sheet at the window position of -2
f3329	155	g	1.616169134	Side chain angle theta(AAR)
f2885	240	f	1.592334156	Partition coefficient
f2645	529	e	1.586232699	Hydrophobicity index
f3582	408	g	1.569950051	Normalized positional residue frequency at helix termini N3
f176	176	a	1.568507704	Normalized frequency of alpha region
f1294	236	c	1.535933549	Normalized frequency of turn in all-beta class
f2976	331	f	1.482437951	Relative preference value at C5
f1193	135	c	1.476440436	Relative mutability
f1429	371	c	1.461674709	Normalized frequency of chain reversal D
f374	374	a	1.437050401	Normalized frequency of coil

f3470	296	g	1.431676735	Weights for coil at the window position of 6
f3224	50	g	1.418084715	Frequency of the 2nd residue in turn
f1929	342	d	1.391922868	Information measure for C-terminal helix
f301	301	a	1.389330181	Average relative fractional occurrence in AR(i)
f1398	340	c	1.383638667	Information measure for N-terminal helix
f1827	240	d	1.374761355	Partition coefficient
f2476	360	e	1.336229412	Principal component II
f1199	141	c	1.312088867	Average relative probability of inner beta-sheet
f802	273	b	1.296518245	Weights for beta-sheet at the window position of -4
f1318	260	c	1.294888338	Weights for alpha-helix at the window position of -4
f125	125	a	1.29341868	Normalized relative frequency of double bend
f2009	422	d	1.287962397	Helix formation parameters (delta delta G)
f934	405	b	1.283393111	Normalized positional residue frequency at helix termini Nc
f1117	59	c	1.277449649	Partial specific volume
f714	185	b	1.270654971	Effective partition energy
f1913	326	d	1.268996754	Relative preference value at N2
f2983	338	f	1.256126356	Relative preference value at C"
f3544	370	g	1.249293675	Normalized frequency of chain reversal S
f1076	18	c	1.218637502	Spin-spin coupling constants 3JHalpha-NH
f1351	293	c	1.210079264	Weights for coil at the window position of 3
f1954	367	d	1.206313973	Normalized frequency of isolated helix
f1782	195	d	1.202061827	AA composition of mt-proteins from fungi and plant
f2697	52	f	1.200741204	Frequency of the 4th residue in turn
f3483	309	g	1.196103055	Average relative fractional occurrence in EL(i-1)
f1762	175	d	1.186546496	Normalized frequency of zeta L
f2661	16	f	1.18052575	alpha-NH chemical shifts
f1650	63	d	1.173482009	Size
f594	65	b	1.172963431	Relative mutability
f1846	259	d	1.171992395	Weights for alpha-helix at the window position of -5
f18	18	a	1.15719692	Spin-spin coupling constants 3JHalpha-NH
f2271	155	e	1.142219062	Side chain angle theta(AAR)
f2190	74	e	1.137115528	Optical rotation
f1384	326	c	1.119733823	Relative preference value at N2
f1463	405	c	1.09705488	Normalized positional residue frequency

				at helix termini Nc
f2956	311	f	1.094036759	Average relative fractional occurrence in ER(i-1)
f294	294	a	1.085914631	Weights for coil at the window position of 4
f1007	478	b	1.07834291	Hydrophobicity coefficient in RP-HPLC, C4 with 0.1%TFA/MeCN/H2O
f3349	175	g	1.071706148	Normalized frequency of zeta L
f719	190	b	1.070427113	SD of AA composition of total proteins
f1148	90	c	1.060189506	pK-a(RCOOH)
f3186	12	g	1.034910472	Retention coefficient in TFA
f3448	274	g	1.033040284	Weights for beta-sheet at the window position of -3
f1476	418	c	1.02114684	Normalized positional residue frequency at helix termini C"
f3235	61	g	1.016438036	Normalized frequency of beta-sheet
f2412	296	e	0.998767708	Weights for coil at the window position of 6
f3375	201	g	0.994046394	Ratio of average and computed composition
f99	99	a	0.993416374	Alpha-helix indices for beta-proteins
f858	329	b	0.985809908	Relative preference value at N5
f813	284	b	0.978431001	Weights for coil at the window position of -6
f337	337	a	0.977815186	Relative preference value at C'
f1385	327	c	0.969632308	Relative preference value at N3
f1361	303	c	0.960860713	Average relative fractional occurrence in EL(i)
f2291	175	e	0.950326666	Normalized frequency of zeta L
f1191	133	c	0.948335889	pK (-COOH)
f386	386	a	0.942697429	Free energy change of alpha(Ri) to alpha(Rh)
f1252	194	c	0.932997382	Normalized composition from animal
f3030	385	f	0.922432965	Free energy change of epsilon(i) to epsilon(ex)
f1661	74	d	0.918175381	Optical rotation
f547	18	b	0.84262173	Spin-spin coupling constants 3JHalpha-NH
f1912	325	d	0.808098299	Relative preference value at N1
f1988	401	d	0.786240988	RF rank

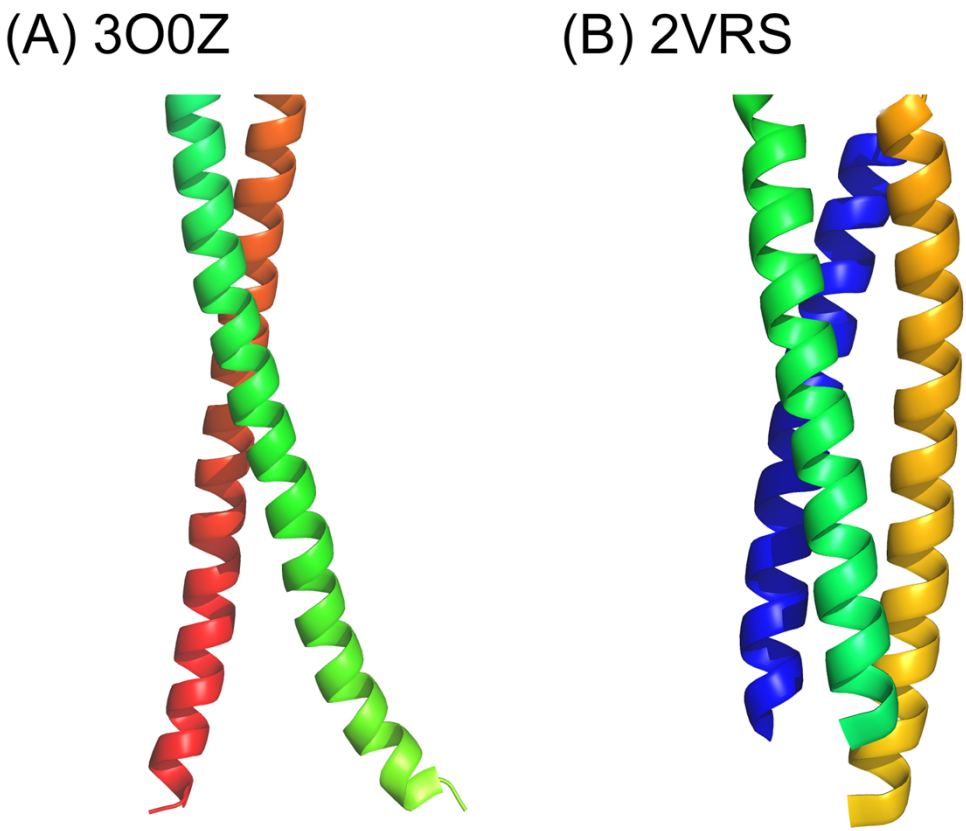

Fig. S1 Graphical representations of two coiled-coil structures. Panel A represents the dimeric coiled-coil structure of the Rho-associated protein kinase 1 (PDB ID: 3O0Z), while panel B shows the trimeric coiled-coil structure of the avian reovirus S1133 fibre (PDB ID: 2VRS).