

# Computational Simulation of the Eigenvalues of a Stochastic Matrix

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## Eigenvalues of a Normal Matrix

## [1] 2.359468 1.569176 0.375787 -2.477303

##		x1	x2	x3	x4	time	element_index
## 21	-22891112.49	-5.919984e+06	16294299.08	31140348.92	20	1	
## 42	-5221465.90	-6.100184e+06	3436922.99	-7461348.99	20	2	
## 63	8931267.25	4.805969e+06	-6207151.24	-4484700.09	20	3	
## 84	49521642.18	2.335285e+07	-34643154.79	-35078469.00	20	4	
## 105	-18397754.26	-7.620294e+05	13325275.66	37260180.59	20	5	
## 126	110042.65	-7.503214e+06	-519112.57	-23234304.47	20	6	
## 147	-21248618.46	8.532895e+05	15489792.38	48340773.03	20	7	
## 168	-12743586.59	-9.679854e+06	8699604.89	-2224347.18	20	8	
## 189	-28812029.96	-5.623651e+06	20611799.20	44782692.18	20	9	
## 210	-4690903.66	6.888766e+06	3805804.52	31188572.48	20	10	
## 231	55744778.80	2.187689e+07	-39249291.69	-52986740.40	20	11	
## 252	-11216363.50	1.517561e+06	8248768.45	28821414.35	20	12	
## 273	-22542501.58	-6.622534e+06	16012594.72	28279980.05	20	13	
## 294	5250743.50	8.819241e+06	-3298769.73	15733274.74	20	14	
## 315	733413.71	-7.828201e+06	-993886.17	-25581314.77	20	15	
## 336	12050936.91	2.870430e+06	-8593738.22	-17152367.36	20	16	
## 357	33031974.27	8.826876e+06	-23497790.35	-44069952.00	20	17	
## 378	44574684.20	1.435562e+07	-31564496.91	-51973575.69	20	18	
## 399	-45390259.10	-1.474615e+07	32132453.22	52525516.39	20	19	
## 420	30490263.82	1.493311e+07	-21292147.94	-19879997.61	20	20	
## 441	-25773862.07	-8.466890e+06	18241808.75	29543893.91	20	21	
## 462	-2997144.74	3.544359e+05	2206777.19	7563858.20	20	22	
## 483	9598959.94	2.640756e+06	-6829281.82	-12592661.04	20	23	
## 504	2938731.34	-4.750195e+05	-2167335.54	-7794001.87	20	24	
## 525	41300852.14	1.305806e+07	-29257170.60	-48890625.29	20	25	
## 546	18458192.57	1.267992e+06	-13352335.82	-35882706.04	20	26	
## 567	56345978.64	2.514267e+07	-39501030.39	-44291224.91	20	27	
## 588	21371528.27	1.116141e+07	-14884457.64	-11808988.24	20	28	
## 609	-26643064.04	-1.977023e+07	18224250.97	-3188489.31	20	29	
## 630	-24650812.98	-1.125354e+07	17269674.81	18609776.09	20	30	
## 651	50512265.45	3.095682e+07	-34920961.25	-13914205.76	20	31	
## 672	-25153342.05	-3.812177e+06	18055244.87	42447874.50	20	32	
## 693	-6411430.52	-6.589471e+06	4279783.12	-6377135.80	20	33	
## 714	19176525.38	1.915354e+07	-12822770.78	17407025.69	20	34	
## 735	27393881.39	1.462783e+07	-19063117.32	-14162738.71	20	35	
## 756	22826904.49	3.066017e+06	-16421669.68	-39773334.59	20	36	
## 777	-2247677.87	2.525379e+06	1784927.38	12590373.12	20	37	
## 798	5108513.16	1.475803e+07	-2851244.81	34230293.46	20	38	
## 819	38183958.76	1.322051e+07	-26988375.25	-41704149.33	20	39	

## 840	-3578426.65	-6.281822e+06	2234613.29	-11546308.63	20	40
## 861	-18692840.45	-1.595920e+06	13505976.76	35390451.36	20	41
## 882	16118616.31	1.455150e+07	-10870734.79	9880123.76	20	42
## 903	-23233413.87	-1.153005e+06	16825791.82	46500597.62	20	43
## 924	-29328025.93	-1.040474e+07	20707398.13	31240611.69	20	44
## 945	-33067637.88	-8.946159e+06	23514742.20	43774376.96	20	45
## 966	-7876339.08	-1.057980e+07	5119560.96	-15425093.45	20	46
## 987	-33705054.16	-5.640780e+06	24164433.40	55253596.49	20	47
## 1008	2994119.37	-4.904279e+06	-2461638.13	-21471391.87	20	48
## 1029	31571506.93	1.085078e+07	-22313555.20	-34708369.80	20	49
## 1050	-857095.24	2.487456e+06	770552.12	9475880.29	20	50
## 1071	6662004.57	7.084182e+06	-4428204.76	7370146.03	20	51
## 1092	14620309.08	-3.533314e+06	-10830287.08	-42291325.72	20	52
## 1113	-28314288.75	-1.162361e+07	19901692.12	25330871.56	20	53
## 1134	-3663307.74	-1.429450e+06	2580302.59	3508997.77	20	54
## 1155	3624978.50	-1.574591e+06	-2725978.78	-12626181.75	20	55
## 1176	53343300.48	2.353054e+07	-37406977.66	-42748621.13	20	56
## 1197	29176382.08	1.131548e+07	-20546738.53	-28132446.04	20	57
## 1218	-21239490.91	3.043975e+05	15455066.14	46652436.43	20	58
## 1239	33729807.00	2.443623e+07	-23101405.67	2236966.72	20	59
## 1260	6534291.11	1.359221e+06	-4670724.13	-9902978.37	20	60
## 1281	9407688.92	-7.740217e+06	-7279220.73	-43935676.18	20	61
## 1302	-16404033.97	-1.411348e+07	11097239.60	-7945505.72	20	62
## 1323	25581764.05	7.789144e+06	-18143574.39	-31213522.25	20	63
## 1344	9384625.84	6.874709e+05	-6780583.34	-18093604.16	20	64
## 1365	-53753447.35	-2.166077e+07	37819908.05	49380638.18	20	65
## 1386	-13830357.29	1.055663e+06	10112962.53	33003092.06	20	66
## 1407	-67495371.33	-2.841123e+07	47416460.94	58283546.21	20	67
## 1428	79139173.46	3.091508e+07	-55733898.08	-75676872.92	20	68
## 1449	-5262061.38	-1.193741e+07	3128603.71	-25252232.99	20	69
## 1470	8332010.45	2.976864e+06	-5874711.32	-8787631.29	20	70
## 1491	-1038541.83	2.094257e+06	868525.19	8624366.38	20	71
## 1512	-13446406.89	-3.858898e+06	9540692.84	17094516.60	20	72
## 1533	-11847317.93	-9.702056e+06	8045542.04	-4226216.71	20	73
## 1554	-4649011.31	-5.022405e+06	3080766.26	-5400919.36	20	74
## 1575	-118587.97	2.956742e+06	264017.84	9333921.96	20	75
## 1596	17178646.31	2.024413e+07	-11314568.16	25024082.79	20	76
## 1617	-23554987.97	-9.648937e+06	16558046.43	21138310.81	20	77
## 1638	21824685.01	1.795916e+07	-14824200.68	8022842.69	20	78
## 1659	-15684321.17	6.416324e+05	11442548.91	35746304.02	20	79
## 1680	5816442.09	1.498749e+06	-4139150.34	-7924469.26	20	80
## 1701	-13608542.10	-4.048100e+06	9660197.45	16906793.80	20	81
## 1722	-7134035.04	-4.586720e+06	4917707.35	1301549.06	20	82
## 1743	-25050879.43	-1.176891e+07	17522420.58	17864671.08	20	83
## 1764	18354939.07	-3.898851e+05	-13363644.19	-40705668.46	20	84
## 1785	-49861101.24	-1.760217e+07	35223979.97	53426720.25	20	85
## 1806	-35831311.95	-6.882954e+06	25649600.73	56065491.09	20	86
## 1827	2960437.77	-5.040791e+06	-2438144.14	-21793557.70	20	87
## 1848	-24537046.65	-1.830791e+07	16769633.18	-3272050.57	20	88
## 1869	11726011.07	1.485767e+07	-7655920.95	20288394.37	20	89
## 1890	-50552272.30	-2.124192e+07	35511812.68	43753564.27	20	90
## 1911	-4877543.66	4.945883e+06	3834046.97	25656723.38	20	91
## 1932	18038365.51	6.632072e+06	-12725845.31	-18512897.26	20	92
## 1953	9034811.10	6.257933e+06	-6200183.98	-266631.53	20	93

## 1974	-27821463.98	-8.979886e+06	19708561.11	32408117.12	20	94
## 1995	-31382265.61	-2.178882e+07	21545459.51	808378.99	20	95
## 2016	-31129192.24	-1.309458e+07	21865357.10	26894588.86	20	96
## 2037	-7202096.34	-1.024296e+06	5177116.49	12371828.73	20	97
## 2058	-47560627.91	-3.107526e+07	32769083.46	7198807.88	20	98
## 2079	-414553.26	-2.306644e+06	164432.61	-6183886.54	20	99
## 2100	-13902491.60	-1.486794e+07	9241143.53	-15621557.86	20	100
## 2121	-12168667.79	3.181635e+06	9022570.11	35918345.81	20	101
## 2142	-31961610.51	-1.737907e+07	22227166.62	15580000.79	20	102
## 2163	2433433.40	3.993431e+06	-1540125.36	6984213.87	20	103
## 2184	-53767094.24	-2.715386e+07	37505129.86	32562775.32	20	104
## 2205	-22984797.44	-1.269680e+07	15965205.01	10569071.59	20	105
## 2226	-37670562.06	-3.062731e+07	25605423.69	-12722681.66	20	106
## 2247	20681772.56	3.066696e+06	-14848345.35	-35105691.71	20	107
## 2268	28217067.54	1.319908e+07	-19747232.42	-20321264.60	20	108
## 2289	-10921758.86	-1.444272e+07	7101031.55	-20729545.90	20	109
## 2310	-15083913.78	4.144506e+06	11208311.40	45180537.92	20	110
## 2331	-14456400.31	-9.457746e+06	9965068.95	2168999.51	20	111
## 2352	-16523428.44	-6.877244e+06	11611017.12	14502486.29	20	112
## 2373	3344283.90	5.061962e+06	-2134348.65	8316446.38	20	113
## 2394	-7156265.99	-1.230189e+07	4482600.45	-22296757.00	20	114
## 2415	24800735.82	1.101491e+07	-17384808.22	-19637464.25	20	115
## 2436	-29957417.00	-1.260236e+07	21047350.90	25897395.19	20	116
## 2457	-20255410.30	-6.677529e+05	14678455.65	41539340.19	20	117
## 2478	26593269.63	5.154158e+06	-19027323.89	-41447976.19	20	118
## 2499	29341069.51	2.634886e+07	-19797485.51	17553600.43	20	119
## 2520	-18093302.65	-7.293427e+06	12732781.44	16623463.55	20	120
## 2541	29793236.94	7.036640e+06	-21241285.23	-42560667.89	20	121
## 2562	-890126.18	-5.330517e+06	329617.08	-14440240.79	20	122
## 2583	14087809.00	-1.441295e+06	-10316406.49	-34718064.13	20	123
## 2604	-37873452.05	-2.227690e+07	26237859.82	13295459.86	20	124
## 2625	22301763.22	1.848801e+07	-15140100.00	8616482.24	20	125
## 2646	37145438.00	7.431327e+06	-26570346.86	-57205700.18	20	126
## 2667	242398.58	8.055334e+06	296278.20	24171336.85	20	127
## 2688	-14266582.05	-1.491604e+07	9502920.75	-14985361.92	20	128
## 2709	-6329409.90	-1.963542e+06	4479342.76	7585630.54	20	129
## 2730	-42135316.91	-1.199565e+07	29926851.46	53946546.95	20	130
## 2751	-27494999.26	-1.015300e+07	19393355.30	28078358.56	20	131
## 2772	24002547.53	5.456154e+06	-17140749.93	-34993400.59	20	132
## 2793	42087881.89	2.478095e+07	-29157410.57	-14702470.40	20	133
## 2814	21290725.76	5.044715e+06	-15182468.84	-30378571.04	20	134
## 2835	-3389139.22	-9.596023e+05	2407245.27	4354563.64	20	135
## 2856	16884702.15	-3.291044e+06	-12459375.86	-46414433.95	20	136
## 2877	6472092.79	2.920294e+06	-4537317.86	-4995112.17	20	137
## 2898	67836046.92	2.597899e+07	-47805765.74	-66469502.02	20	138
## 2919	25429781.36	1.245893e+07	-17755497.58	-16558802.52	20	139
## 2940	-20028076.57	-1.287965e+07	13807488.49	3650822.92	20	140
## 2961	26863176.08	8.247369e+06	-19046796.06	-32562929.04	20	141
## 2982	-30389561.68	-9.649661e+06	21537418.51	35888396.80	20	142
## 3003	-56521425.85	-2.391362e+07	39700462.09	48435884.69	20	143
## 3024	15851973.88	9.744970e+06	-10961075.63	-4287595.87	20	144
## 3045	-7285712.72	-7.035906e+06	4880011.77	-5894322.32	20	145
## 3066	15265366.61	5.713393e+06	-10759720.85	-15344588.18	20	146
## 3087	4317188.02	8.151056e+06	-2660975.70	15689312.74	20	147

## 3108	-10513531.74	-5.582098e+06	7316855.83	5529110.85	20	148
## 3129	30567062.66	1.367347e+07	-21421246.64	-23904629.46	20	149
## 3150	-9371551.56	-2.956480e+06	6647276.25	11141406.52	20	150
## 3171	-8088673.06	5.185203e+06	6186981.38	33319438.48	20	151
## 3192	34263969.24	1.470664e+07	-24057545.13	-28728956.96	20	152
## 3213	16265722.10	1.879712e+07	-10731907.99	22567066.90	20	153
## 3234	-12887057.17	-1.510393e+06	9270531.19	23085063.00	20	154
## 3255	-1160277.49	8.681591e+06	1348187.36	29095823.96	20	155
## 3276	-8511774.40	2.362265e+06	6324213.62	25560666.29	20	156
## 3297	-12319469.49	-3.685806e+06	8738768.52	15223050.78	20	157
## 3318	39110398.00	2.110385e+07	-27200051.35	-19534852.35	20	158
## 3339	-25016820.56	-7.847367e+06	17721141.16	29790459.49	20	159
## 3360	-62356668.65	-2.376970e+07	43950899.92	61440661.13	20	160
## 3381	19872063.24	5.126254e+06	-14150470.91	-27088055.04	20	161
## 3402	8661869.38	-6.349978e+06	-6661250.09	-38087695.25	20	162
## 3423	12114358.80	7.274189e+05	-8755596.92	-23824491.38	20	163
## 3444	2692842.99	1.824122e+05	-1948398.16	-5243761.02	20	164
## 3465	-2303477.70	1.774087e+06	1777865.70	10395397.54	20	165
## 3486	-8599590.93	2.190614e+06	6387378.90	25255403.46	20	166
## 3507	-24412061.43	-9.276821e+06	17201536.91	24119610.05	20	167
## 3528	-34349542.37	-1.003454e+07	24379866.53	43188060.52	20	168
## 3549	17096436.65	-1.918987e+06	-12539263.53	-42686182.95	20	169
## 3570	38653699.82	1.495372e+07	-27228532.57	-37403595.93	20	170
## 3591	-20756674.81	-2.450912e+06	14957600.68	37217964.13	20	171
## 3612	11943615.91	1.769699e+07	-7655619.06	28496378.26	20	172
## 3633	10771928.24	5.795942e+06	-7498882.16	-5452725.47	20	173
## 3654	12365417.60	1.390545e+07	-8182169.18	15973828.43	20	174
## 3675	-9578643.98	-5.585952e+06	6644210.81	3528871.71	20	175
## 3696	-15010317.54	-5.358062e+06	10593182.17	15878025.14	20	176
## 3717	12432608.30	-7.426345e+05	-9084539.93	-29054594.06	20	177
## 3738	-24810739.79	-8.934906e+06	17516213.77	26042375.36	20	178
## 3759	72988201.10	2.910542e+07	-51369852.23	-67985402.44	20	179
## 3780	-6462368.06	3.961734e+06	4936982.38	26081079.71	20	180
## 3801	-16559179.68	3.619070e+06	12237524.55	46704027.92	20	181
## 3822	14281478.71	9.566852e+06	-9819618.60	-1417612.90	20	182
## 3843	-24974131.74	-1.931856e+07	17033924.22	-5409318.70	20	183
## 3864	45336712.66	1.611554e+07	-32024497.16	-48250711.65	20	184
## 3885	18842929.86	1.644842e+07	-12737179.72	9838793.43	20	185
## 3906	34790122.13	9.114162e+06	-24754964.00	-46960841.43	20	186
## 3927	35840349.25	1.335309e+07	-25284167.49	-36276513.79	20	187
## 3948	16814055.62	9.685696e+06	-11659798.81	-6526642.10	20	188
## 3969	-7465011.28	7.236638e+06	5849812.89	38251269.70	20	189
## 3990	-53681114.34	-1.898824e+07	37919077.30	57400460.29	20	190
## 4011	35662846.58	1.180541e+07	-25231991.08	-40591491.83	20	191
## 4032	-53690466.01	-1.617413e+07	38088928.22	66040282.95	20	192
## 4053	-47839782.41	-1.844180e+07	33710038.18	46516898.40	20	193
## 4074	-40712740.92	-1.504870e+07	28717629.27	41538302.74	20	194
## 4095	-20020983.40	-7.943658e+06	14086818.63	18749512.33	20	195
## 4116	-9543691.98	-3.095059e+06	6757554.40	11064401.40	20	196
## 4137	4541822.86	1.004140e+07	-2709732.73	21012849.09	20	197
## 4158	29264378.23	1.255741e+07	-20540215.78	-24522833.44	20	198
## 4179	12209828.51	1.047557e+07	-8262396.51	5821301.41	20	199
## 4200	43621398.25	1.274861e+07	-30966918.21	-54851240.54	20	200
## 4221	-39518783.13	-2.487922e+07	27278766.90	8852038.84	20	201

##	4242	1768416.27	-1.021388e+07	-1873331.70	-35079202.36	20	202
##	4263	7017360.10	5.019055e+06	-4809972.16	266681.30	20	203
##	4284	35324107.75	1.514499e+07	-24794810.93	-29641635.63	20	204
##	4305	38151975.32	9.284527e+06	-27189528.21	-53678944.35	20	205
##	4326	-24636196.70	-1.618786e+06	17805983.57	48051480.16	20	206
##	4347	14807059.60	9.699148e+06	-10191150.47	-2134228.43	20	207
##	4368	21453317.94	1.206252e+07	-14892113.05	-9226362.80	20	208
##	4389	-5986234.78	5.204231e+06	4654609.92	28833828.97	20	209
##	4410	36682036.92	9.592148e+06	-26102129.38	-49568494.11	20	210
##	4431	41644772.99	2.931691e+07	-28567695.86	161531.86	20	211
##	4452	12832719.15	3.489726e+06	-9134649.94	-16967378.84	20	212
##	4473	3664994.25	4.893675e+06	-2374954.43	7118232.51	20	213
##	4494	14808384.00	-1.998317e+06	-10885797.86	-38020721.33	20	214
##	4515	-33116974.22	-2.612205e+07	22556525.89	-8725876.96	20	215
##	4536	-23488548.70	-1.449383e+07	16230371.32	6159757.50	20	216
##	4557	5714118.36	4.646219e+06	-3882192.20	1937324.63	20	217
##	4578	-49730910.56	-2.201154e+07	34871076.43	39630995.08	20	218
##	4599	-31652445.20	-2.166870e+07	21746518.01	1750161.54	20	219
##	4620	-30100286.92	-1.516906e+07	21004203.05	18348895.00	20	220
##	4641	-46655753.41	-3.003023e+07	32171892.70	8451762.38	20	221
##	4662	25847164.05	8.651412e+06	-18278260.34	-29115689.98	20	222
##	4683	21251416.40	1.884573e+07	-14347941.48	12000332.75	20	223
##	4704	3028823.80	3.151198e+06	-2018684.17	3132920.31	20	224
##	4725	14074777.96	3.251086e+06	-10031890.08	-20306392.13	20	225
##	4746	13742529.81	9.206254e+06	-9450887.59	-1369109.79	20	226
##	4767	6854704.95	-8.791548e+05	-5030630.84	-17439845.88	20	227
##	4788	-53234112.59	-2.782007e+07	37083075.35	29388171.19	20	228
##	4809	-7258164.88	-8.562118e+05	5226736.95	13004416.05	20	229
##	4830	-16738112.23	-7.532395e+06	11731546.12	12966180.26	20	230
##	4851	-1872823.64	-4.188852e+05	1336392.55	2746495.18	20	231
##	4872	-22636954.62	-1.722801e+07	15453596.66	-4046179.63	20	232
##	4893	15465793.25	-2.421796e+06	-11381921.71	-40711844.61	20	233
##	4914	20114691.56	8.544570e+06	-14118255.29	-17104327.38	20	234
##	4935	2112952.06	-1.122565e+07	-2187428.53	-38937047.74	20	235
##	4956	54756280.03	1.936845e+07	-38679353.59	-58553132.27	20	236
##	4977	-15044568.59	-1.657663e+07	9972993.11	-18394317.83	20	237
##	4998	-57918996.27	-2.243585e+07	40795506.53	55949154.92	20	238
##	5019	-27489257.42	-9.425062e+06	19435692.98	30310380.74	20	239
##	5040	-19476252.77	-9.513941e+06	13603703.68	12779968.24	20	240
##	5061	-30215716.94	-2.274223e+07	20644363.70	-4616182.50	20	241
##	5082	6757471.71	9.863852e+06	-4348367.46	15638737.05	20	242
##	5103	-53423902.55	-2.787555e+07	37216597.68	29622689.94	20	243
##	5124	34652825.73	2.182242e+07	-23919348.77	-7741251.09	20	244
##	5145	-30780373.87	-2.095285e+07	21157775.83	2077917.34	20	245
##	5166	38340396.87	1.242967e+07	-27146820.54	-44459599.52	20	246
##	5187	-16129109.67	-5.187277e+06	11421435.74	18827048.37	20	247
##	5208	-23838710.18	-1.050812e+07	16712804.24	19111649.97	20	248
##	5229	30283096.72	2.314374e+07	-20665422.88	5716744.11	20	249
##	5250	43890188.89	1.179861e+07	-31220494.96	-58350453.84	20	250
##	5271	-1895423.56	7.304853e+06	1799956.17	26451867.34	20	251
##	5292	-22294647.61	-9.766450e+06	15632881.17	18057537.58	20	252
##	5313	6737067.59	7.132787e+06	-4473923.72	7377863.59	20	253
##	5334	17719142.40	3.209451e+06	-12686144.94	-28289009.77	20	254
##	5355	-288986.04	-4.693474e+06	-65081.04	-13764948.34	20	255

##	5376	7747005.77	9.380866e+06	-5084836.62	12065665.31	20	256
##	5397	35098072.40	1.320703e+07	-24741102.34	-35085337.33	20	257
##	5418	11702128.99	1.752585e+07	-7488317.01	28497760.47	20	258
##	5439	-27787026.56	-1.613962e+07	19261036.08	10377578.43	20	259
##	5460	-48986303.76	-1.384488e+07	34799476.07	63030709.59	20	260
##	5481	-21689487.32	-8.101288e+06	15301068.20	21894476.54	20	261
##	5502	-3634908.14	5.850360e+06	2982534.79	25749766.41	20	262
##	5523	-7507331.60	2.129069e+06	5572294.12	22655904.99	20	263
##	5544	822591.13	3.952685e+06	-373041.53	10322295.10	20	264
##	5565	-2173710.76	4.665551e+06	1848150.68	18962757.72	20	265
##	5586	41633329.92	1.502820e+07	-29385869.30	-43575768.44	20	266
##	5607	21371283.96	1.990138e+07	-14380524.39	14953325.66	20	267
##	5628	-38397093.43	-1.298896e+07	27159232.82	42880787.54	20	268
##	5649	-15514894.56	-1.033891e+07	10684940.68	1753852.34	20	269
##	5670	16939561.88	1.720990e+07	-11315862.09	16247318.82	20	270
##	5691	-24902061.31	-1.460186e+07	17253002.86	8876717.31	20	271
##	5712	22501197.63	7.967133e+06	-15895592.24	-24041759.11	20	272
##	5733	-22771686.20	-4.400738e+06	16297162.90	35542324.56	20	273
##	5754	55227439.32	1.948200e+07	-39009253.36	-59199279.41	20	274
##	5775	-39234732.34	-1.507053e+07	27647173.53	38307066.79	20	275
##	5796	-8716689.53	-1.663264e+06	6236430.40	13659668.23	20	276
##	5817	-17985766.82	-1.267541e+07	12346640.95	-80112.60	20	277
##	5838	-23979958.70	-1.551452e+07	16532100.92	4103725.65	20	278
##	5859	-25366339.28	-1.227887e+07	17733601.97	17020504.77	20	279
##	5880	12622742.35	5.747403e+06	-8850054.86	-9596101.02	20	280
##	5901	3170453.89	4.069413e+06	-2078296.98	5607086.54	20	281
##	5922	-41867132.46	-2.145854e+07	29187595.12	24397573.61	20	282
##	5943	21442456.97	1.124564e+07	-14928363.08	-11694293.47	20	283
##	5964	28541601.53	6.246391e+06	-20379689.77	-42294885.88	20	284
##	5985	26609155.62	2.492042e+07	-17893111.46	19064072.80	20	285
##	6006	43293738.60	1.884751e+07	-30375958.17	-35466742.65	20	286
##	6027	-57122145.81	-2.513759e+07	40062562.56	45967733.12	20	287
##	6048	4898855.69	2.865583e+05	-3539293.21	-9651513.80	20	288
##	6069	-10094836.83	-7.580633e+06	6902779.79	-1473260.23	20	289
##	6090	-3219324.23	4.632987e+06	2608304.97	21120787.56	20	290
##	6111	-20031142.96	-4.177953e+06	14328283.56	30359719.98	20	291
##	6132	-70880538.20	-2.676598e+07	49970757.18	70604957.86	20	292
##	6153	18514547.68	1.716931e+07	-12459618.25	12743999.62	20	293
##	6174	33435875.55	2.085866e+07	-23090939.82	-8074567.00	20	294
##	6195	-52268412.55	-2.380298e+07	36613139.57	39611180.72	20	295
##	6216	19989326.13	5.487123e+06	-14219804.92	-26252118.98	20	296
##	6237	-36034298.36	-1.057650e+07	25574957.58	45161287.96	20	297
##	6258	-24324167.42	-1.083293e+07	17053559.67	19184587.29	20	298
##	6279	34244140.33	1.287768e+07	-24144329.70	-34272254.44	20	299
##	6300	-9370879.04	-6.226360e+05	6781577.24	18287112.64	20	300
##	6321	-27548175.92	-3.220288e+06	19830780.91	49418032.96	20	301
##	6342	25300235.15	1.832321e+06	-18285305.18	-48857519.11	20	302
##	6363	-35300805.92	-1.206408e+07	24956625.63	39029225.81	20	303
##	6384	2419834.71	2.364889e+06	-1614404.01	2059787.12	20	304
##	6405	-62639747.68	-2.242608e+07	44231743.81	66156211.90	20	305
##	6426	46414358.36	1.440372e+07	-32898809.69	-55786246.54	20	306
##	6447	-25774646.64	-3.348508e+06	18541636.22	45232460.93	20	307
##	6468	8371009.01	4.597095e+06	-5823314.68	-3956690.93	20	308
##	6489	14581980.40	-2.236107e+06	-10732650.79	-38253691.51	20	309

## 6510	-25904977.16	-6.564770e+05	18789506.93	53749160.57	20	310
## 6531	13819241.54	9.289969e+06	-9504794.12	-1287991.10	20	311
## 6552	58250423.69	2.350633e+07	-40979639.85	-53401539.46	20	312
## 6573	-13846556.07	-9.627848e+06	9503640.63	307010.78	20	313
## 6594	-7926716.13	8.657595e+06	6263896.80	43584591.24	20	314
## 6615	48869306.79	2.771705e+07	-33916229.70	-20306856.83	20	315
## 6636	15021127.11	1.441175e+07	-10080890.27	11815379.57	20	316
## 6657	14373912.23	1.471357e+07	-9587736.33	14150878.47	20	317
## 6678	22585638.55	1.272393e+07	-15673639.17	-9627175.26	20	318
## 6699	-30382458.12	-1.088571e+07	21457186.26	32075358.69	20	319
## 6720	16436198.78	1.121809e+07	-11292748.71	-1007199.09	20	320
## 6741	26596906.35	1.316152e+07	-18575081.01	-16959790.26	20	321
## 6762	33543130.06	7.288203e+06	-23960437.05	-49889950.69	20	322
## 6783	-18010165.20	-2.667148e+05	13071872.74	37941691.66	20	323
## 6804	-37628336.25	-1.797223e+07	26307370.66	25947239.77	20	324
## 6825	29012375.48	1.125083e+07	-20443108.89	-28017544.22	20	325
## 6846	-30798088.04	-9.307249e+06	21844792.60	37784759.46	20	326
## 6867	-25641975.25	-9.414355e+06	18098844.14	26384300.12	20	327
## 6888	-8019097.88	3.249681e+06	6010579.15	27194709.40	20	328
## 6909	-1531983.19	-8.244588e+06	645043.98	-21924273.96	20	329
## 6930	-17756876.57	-1.935612e+07	11778452.48	-21085995.04	20	330
## 6951	-47400820.14	-2.667141e+07	32909320.75	20348086.60	20	331
## 6972	-34439787.85	-2.411415e+07	23638718.33	286752.33	20	332
## 6993	-8157164.55	6.626208e+06	6304158.45	37826133.59	20	333
## 7014	11493124.80	1.671133e+06	-8262458.30	-19640917.14	20	334
## 7035	-19955230.78	-1.163043e+07	13829654.12	7329663.37	20	335
## 7056	-10886245.91	-9.493660e+06	7358233.12	-5659577.44	20	336
## 7077	-7973703.88	-1.584475e+07	4871299.93	-31389568.15	20	337
## 7098	25990205.07	3.854673e+06	-18662607.51	-44124461.78	20	338
## 7119	2051502.34	-9.400678e+06	-2041874.67	-33231287.27	20	339
## 7140	5618040.95	2.418344e+06	-3941793.65	-4681082.94	20	340
## 7161	11730479.82	-3.655205e+06	-8737450.40	-36445760.67	20	341
## 7182	-1433981.12	-2.203777e+06	909119.40	-3681916.27	20	342
## 7203	6031036.12	-9.324032e+06	-4925182.53	-41546972.89	20	343
## 7224	28273361.08	1.869856e+07	-19472753.71	-3608401.08	20	344
## 7245	25000941.40	1.725938e+07	-17167739.42	-938812.02	20	345
## 7266	-28747443.60	-9.083124e+06	20363182.06	34043036.53	20	346
## 7287	4163659.23	1.797580e+06	-2918023.15	-3442801.23	20	347
## 7308	8864212.65	2.467917e+06	-6304361.12	-11537399.27	20	348
## 7329	-65425036.72	-3.143414e+07	45733549.50	44557576.12	20	349
## 7350	-68392679.84	-2.565579e+07	48223157.31	68637654.10	20	350
## 7371	-4725184.23	-8.910410e+06	2915142.96	-17131483.27	20	351
## 7392	-9064928.38	2.800146e+06	6749903.96	28086766.86	20	352
## 7413	-54778724.90	-2.560372e+07	38331151.53	39491644.14	20	353
## 7434	27194307.13	3.386325e+06	-19562125.74	-48141503.55	20	354
## 7455	4137890.83	-3.250481e+06	-3192473.34	-18852021.41	20	355
## 7476	-3989972.09	2.021283e+06	3015135.25	14773273.42	20	356
## 7497	-1831737.54	7.394599e+06	1762955.55	26603531.45	20	357
## 7518	31077328.91	2.088498e+07	-21373364.34	-2910869.77	20	358
## 7539	-3882152.83	5.497603e+06	3135704.72	25180817.16	20	359
## 7560	6317716.21	-1.041115e+06	-4660885.00	-16817876.41	20	360
## 7581	-21009634.30	-6.462557e+06	14900573.24	25446067.89	20	361
## 7602	18437955.24	1.346663e+07	-12613918.68	1582939.68	20	362
## 7623	-21565672.13	-3.333469e+06	15488166.54	36234757.79	20	363

## 7644	-31174984.58	-5.237653e+06	22360362.52	51081134.59	20	364
## 7665	42532937.08	1.682295e+07	-29943813.49	-40042276.31	20	365
## 7686	43173285.35	1.880927e+07	-30290065.86	-35322698.78	20	366
## 7707	8100751.19	6.769844e+06	-5492116.88	3310348.73	20	367
## 7728	-26984479.16	-1.222202e+07	18904007.77	20647338.58	20	368
## 7749	-33569690.21	-1.050950e+07	23794028.38	40083375.43	20	369
## 7770	-17134579.28	-9.992863e+06	11882478.94	6301207.93	20	370
## 7791	-28281396.04	-1.211738e+07	19856181.31	23771372.72	20	371
## 7812	-17830279.00	2.356001e+06	13088716.26	45573093.76	20	372
## 7833	4633620.88	8.796415e+06	-2862821.79	16953561.82	20	373
## 7854	24723574.72	1.209851e+07	-17262051.64	-16139080.03	20	374
## 7875	3014110.91	-4.545384e+06	-2443991.49	-20376528.14	20	375
## 7896	-21718420.57	-5.209241e+06	15484826.50	30798772.27	20	376
## 7917	-10130395.71	-1.266160e+05	7364244.15	21447776.63	20	377
## 7938	8008652.41	6.077660e+06	-5471426.56	1367591.86	20	378
## 7959	15626292.40	5.051794e+06	-11073111.72	-18191160.25	20	379
## 7980	-19879667.92	-1.025795e+07	13854428.92	11371547.97	20	380
## 8001	19165291.35	1.171620e+07	-13244202.45	-5345067.64	20	381
## 8022	-34070733.24	-2.570081e+07	23277570.25	-5370955.25	20	382
## 8043	-10847333.34	-1.260332e+07	7152385.16	-15259471.28	20	383
## 8064	2200489.68	1.090268e+06	-1540079.85	-1410388.23	20	384
## 8085	4827910.34	1.406695e+07	-2691177.59	32704500.69	20	385
## 8106	4042212.84	9.482505e+06	-2379349.94	20375155.13	20	386
## 8127	15803406.78	1.146252e+07	-10815148.88	1115533.32	20	387
## 8148	2213769.54	7.935761e+06	-1147632.83	19547488.14	20	388
## 8169	-32414987.23	-1.283557e+07	22822357.01	30480985.67	20	389
## 8190	-41672396.18	-1.356637e+07	29502242.99	48148630.46	20	390
## 8211	32176278.10	1.377517e+07	-22590743.36	-27076657.25	20	391
## 8232	37540475.92	2.050564e+07	-26099311.21	-18006962.86	20	392
## 8253	-7128558.42	-1.515116e+07	4302936.68	-31064920.08	20	393
## 8274	-6983664.11	-4.298959e+06	4831845.25	1882192.69	20	394
## 8295	30123110.53	1.024321e+07	-21308995.87	-33495537.97	20	395
## 8316	-32648133.24	-1.052451e+07	23119245.29	38039743.24	20	396
## 8337	30696214.01	1.715457e+07	-21317965.74	-13535345.99	20	397
## 8358	-29710105.80	-1.423959e+07	20766301.57	20328338.96	20	398
## 8379	-144098.98	-8.010886e+06	-361856.24	-24235627.63	20	399
## 8400	-39048657.23	-9.301088e+06	27845429.40	55575801.81	20	400
## 8421	-58933188.47	-2.155248e+07	41590876.21	60861960.74	20	401
## 8442	3468093.28	-2.466459e+06	-2662195.48	-15015436.57	20	402
## 8463	-23610211.42	-1.725552e+07	16162503.91	-2024849.38	20	403
## 8484	35015194.46	1.635640e+07	-24503281.04	-25276902.60	20	404
## 8505	20355767.21	3.583348e+06	-14595570.50	-32869251.03	20	405
## 8526	-17997821.37	-1.570209e+07	12166103.23	-9372178.19	20	406
## 8547	-33723516.67	-6.894744e+06	24116043.54	51489186.74	20	407
## 8568	-885305.73	-5.017196e+06	360633.24	-13435419.00	20	408
## 8589	10700177.08	2.256120e+06	-7655616.19	-16153675.06	20	409
## 8610	-27447021.72	-1.953444e+07	18813386.58	-765703.43	20	410
## 8631	-40977237.50	-1.321208e+07	29024323.77	47760529.81	20	411
## 8652	27575003.99	1.422192e+07	-19214238.51	-15782231.76	20	412
## 8673	25931121.58	1.251083e+07	-18117795.25	-17482124.48	20	413
## 8694	-3962902.92	5.830732e+06	3213231.96	26373444.04	20	414
## 8715	-5329084.99	-9.703085e+06	3304499.34	-18271875.51	20	415
## 8736	-9598495.66	-7.443061e+06	6543461.03	-2142454.96	20	416
## 8757	-35331493.03	-7.611782e+06	25235002.08	52726350.88	20	417



## 8778	3432134.50	1.174620e+06	-2424750.86	-3784148.46	20	418
## 8799	-2423987.23	-2.497471e+06	1616701.43	-2433348.92	20	419
## 8820	17494387.95	3.996908e+06	-12475510.95	-25387607.71	20	420
## 8841	-37951890.96	-1.076090e+07	26967197.56	48755350.97	20	421
## 8862	-12796629.53	-5.164595e+06	9008108.93	11748447.51	20	422
## 8883	2406552.60	-1.051314e+06	-1809586.46	-8398933.28	20	423
## 8904	1809002.07	5.548569e+05	-1285857.29	-2205275.25	20	424
## 8925	12493834.78	8.470840e+06	-8584052.68	-927458.22	20	425
## 8946	-13007863.31	-1.174484e+07	8772325.43	-7979622.03	20	426
## 8967	-22264639.42	-6.488540e+06	15804945.00	28046662.48	20	427
## 8988	-5594448.83	9.795200e+04	4074680.81	12352150.93	20	428
## 9009	45239789.89	1.487107e+07	-32024063.11	-51846841.58	20	429
## 9030	-45747230.48	-3.204277e+07	31394141.89	328892.00	20	430
## 9051	30037108.29	2.033056e+07	-20649194.67	-2369105.52	20	431
## 9072	-15037601.09	-4.050062e+06	10695773.70	19966840.34	20	432
## 9093	-39488800.45	-2.898712e+07	27018913.84	-3795263.75	20	433
## 9114	13029489.24	6.063040e+06	-9117780.16	-9472240.09	20	434
## 9135	-5666148.32	3.755999e+05	4146251.70	13368361.88	20	435
## 9156	-37670266.66	-1.153983e+07	26705555.09	45723186.75	20	436
## 9177	-53961746.39	-2.473483e+07	37786523.83	40390503.62	20	437
## 9198	13607672.70	1.511109e+06	-9807904.09	-24680348.29	20	438
## 9219	6766852.42	-7.449445e+05	-4952725.20	-16818367.64	20	439
## 9240	37943269.47	1.519294e+07	-26706903.66	-35170734.82	20	440
## 9261	9469092.42	6.772747e+06	-6490765.49	359276.22	20	441
## 9282	-2885573.70	-4.702979e+06	1815999.86	-8223770.89	20	442
## 9303	-30330918.13	-1.387143e+07	21239794.35	22795543.83	20	443
## 9324	42555211.84	1.240807e+07	-30208961.70	-53589921.07	20	444
## 9345	78607863.83	3.435352e+07	-55147844.77	-63998904.78	20	445
## 9366	-50851801.65	-2.335902e+07	35606489.02	37912360.31	20	446
## 9387	-7201785.55	2.454823e+06	5376521.89	23021179.29	20	447
## 9408	5489460.11	-1.847068e+05	-4006747.91	-12403239.51	20	448
## 9429	13607959.85	3.122866e+06	-9713675.97	-19740550.16	20	449
## 9450	-16223494.30	-8.582082e+06	11288112.86	8614120.50	20	450
## 9471	-52409647.44	-2.326603e+07	36742477.34	41544890.25	20	451
## 9492	29077567.05	1.025972e+07	-20539100.53	-31163775.86	20	452
## 9513	9160136.29	3.370734e+06	-6468728.01	-9414448.63	20	453
## 9534	-15735311.68	-1.678766e+07	10457081.34	-17573266.27	20	454
## 9555	17726799.01	4.103768e+06	-12645853.69	-25586386.35	20	455
## 9576	22655339.28	1.567084e+07	-15555096.74	-755991.93	20	456
## 9597	12049628.36	2.681657e+06	-8600249.03	-17715982.39	20	457
## 9618	5938675.85	-5.877551e+06	-4661027.01	-30800533.81	20	458
## 9639	-21345576.12	-1.314535e+07	14746631.37	5662671.16	20	459
## 9660	-12551838.36	7.070093e+05	9164352.19	29185910.42	20	460
## 9681	-12183142.25	-1.211980e+07	8145560.63	-10922444.81	20	461
## 9702	72340682.41	3.211792e+07	-50721408.02	-57353136.82	20	462
## 9723	-9237802.99	1.060518e+06	6775028.05	23131282.40	20	463
## 9744	9746175.66	1.404079e+07	-6267171.41	22038157.34	20	464
## 9765	24977444.45	6.208963e+06	-17798300.78	-34760957.38	20	465
## 9786	16346671.11	1.363214e+07	-11084366.51	6591473.52	20	466
## 9807	-38281388.51	-8.461844e+06	27328664.65	56468634.56	20	467
## 9828	-18241726.12	-1.159469e+07	12589433.90	3761272.29	20	468
## 9849	-4314912.67	2.238547e+06	3273766.66	16171677.54	20	469
## 9870	13184511.54	-1.319527e+06	-9652993.98	-32401271.42	20	470
## 9891	40661761.37	1.521467e+07	-28673595.16	-40929133.44	20	471

## 9912	-41140755.88	-9.536277e+06	29345211.70	59334499.12	20	472
## 9933	-49473942.63	-1.662907e+07	35000854.43	55580373.19	20	473
## 9954	-19809876.35	4.486731e+05	14418259.88	43996346.68	20	474
## 9975	40879681.35	1.384979e+07	-28910258.95	-45576159.61	20	475
## 9996	-1571351.75	-8.165388e+06	672815.40	-21615353.19	20	476
## 10017	-13324344.98	-2.588153e+06	9539474.35	20771121.03	20	477
## 10038	4436337.36	-1.733493e+06	-3321409.92	-14847587.48	20	478
## 10059	-8370203.79	-1.113168e+06	6019221.86	14608117.77	20	479
## 10080	-48871694.94	-2.681895e+07	33968449.63	23057648.28	20	480
## 10101	24851827.51	3.840498e+06	-17835841.16	-41716787.58	20	481
## 10122	43306738.89	1.407672e+07	-30658486.50	-50096462.19	20	482
## 10143	10830740.00	5.268862e+06	-7562613.57	-7161390.91	20	483
## 10164	17348772.22	2.963410e+06	-12443017.29	-28285429.69	20	484
## 10185	-5581668.62	1.007485e+06	4124907.15	15133675.34	20	485
## 10206	-11968113.99	-8.341757e+06	8218822.84	223044.27	20	486
## 10227	202458.79	1.861955e+06	-36561.72	5276586.33	20	487
## 10248	-30519218.01	-2.007109e+07	21020317.59	4220916.37	20	488
## 10269	11184516.49	1.010971e+06	-8071849.85	-20983261.31	20	489
## 10290	22659210.14	4.749678e+06	-16193630.51	-34226094.08	20	490
## 10311	43743787.93	1.704296e+07	-30804759.26	-41953211.98	20	491
## 10332	-26391821.97	-1.380655e+07	18379736.36	14512348.76	20	492
## 10353	-32652088.09	-1.680001e+07	22759192.03	18828530.08	20	493
## 10374	-8243456.22	-5.180688e+06	5691702.20	1877305.36	20	494
## 10395	63414736.91	2.354758e+07	-44730617.84	-64391215.63	20	495
## 10416	13577774.78	7.430357e+06	-9437533.92	-6465937.59	20	496
## 10437	42566214.65	8.482298e+06	-30448693.29	-65652838.01	20	497
## 10458	15593044.45	1.787444e+07	-10300116.28	21176432.41	20	498
## 10479	3826421.05	5.039064e+04	-2777301.58	-8079261.71	20	499
## 10500	20474808.17	8.522456e+06	-14384253.61	-17957334.00	20	500
## 10521	1203062.49	8.977677e+06	-352526.21	24914984.77	20	501
## 10542	97352.14	-2.166281e+06	-192961.88	-6833708.39	20	502
## 10563	30135125.61	1.029748e+07	-21307220.55	-33330209.25	20	503
## 10584	-15684822.93	-2.019216e+07	10226431.13	-28098816.61	20	504
## 10605	21908116.86	1.614677e+07	-14994900.73	2274731.84	20	505
## 10626	22835950.25	4.770240e+06	-16327303.76	-34565277.22	20	506
## 10647	7205898.93	1.928459e+06	-5124195.09	-9599359.50	20	507
## 10668	-2236293.94	8.055848e+06	2097485.29	29507172.98	20	508
## 10689	28175357.05	9.154779e+06	-19950802.72	-32617783.86	20	509
## 10710	-21350647.37	-1.102945e+07	14887575.89	12204344.91	20	510
## 10731	-20127782.78	3.111873e+06	14803456.41	52837534.83	20	511
## 10752	20247719.59	6.091653e+06	-14363569.14	-24926076.31	20	512
## 10773	-5094987.17	8.721522e+06	4206287.18	37674193.52	20	513
## 10794	-40811316.46	-2.201894e+07	28386379.94	20403734.12	20	514
## 10815	44395217.57	1.482476e+07	-31407758.11	-50153268.40	20	515
## 10836	65699743.01	2.538233e+07	-46282596.55	-63681467.23	20	516
## 10857	-33385158.15	-6.382594e+06	23893152.77	52307064.59	20	517
## 10878	17943588.61	1.462509e+07	-12196619.58	6164529.64	20	518
## 10899	-3264871.94	-5.186415e+04	2370755.19	6871682.06	20	519
## 10920	-31854351.84	-2.169792e+07	21897812.22	2116436.02	20	520
## 10941	-9621769.50	6.773426e+06	7377982.17	41432414.79	20	521
## 10962	-15168253.42	8.960832e+05	11081873.25	35413699.60	20	522
## 10983	10259662.98	2.702703e+06	-7308021.69	-13832304.75	20	523
## 11004	-11354414.55	-1.932635e+06	8134863.19	18501927.52	20	524
## 11025	7702700.42	-8.026492e+06	-6068344.25	-41182288.92	20	525

##	11046	37695081.82	1.863765e+07	-26316233.50	-24048988.12	20	526
##	11067	-8876997.72	-6.243345e+06	6084797.92	-33573.76	20	527
##	11088	-5967990.84	-1.006977e+07	3748441.45	-18016962.36	20	528
##	11109	39107333.63	1.725574e+07	-27421451.50	-31317368.50	20	529
##	11130	-24839195.11	-1.089559e+07	17421388.42	20091533.62	20	530
##	11151	-39981366.20	-1.369731e+07	28261779.40	44094590.79	20	531
##	11172	-26188352.83	-1.368928e+06	18957184.51	52187044.04	20	532
##	11193	-31317403.72	-1.908771e+07	21654531.05	8941339.23	20	533
##	11214	-29002198.56	-1.303426e+07	20328879.72	22521091.05	20	534
##	11235	-24647808.75	-1.038267e+07	17305805.26	21229636.53	20	535
##	11256	-9331833.39	-9.420780e+06	6234358.92	-8776633.71	20	536
##	11277	21735605.20	1.995068e+07	-14638201.56	14334562.47	20	537
##	11298	8835307.99	-2.918814e+06	-6593480.44	-27968159.75	20	538
##	11319	-63673736.24	-2.466156e+07	44853623.14	61534219.16	20	539
##	11340	-35196217.88	-1.631702e+07	24642306.44	25804737.93	20	540
##	11361	16363104.65	1.953166e+07	-10764897.98	24591193.12	20	541
##	11382	35021669.63	1.637215e+07	-24505492.55	-25237242.95	20	542
##	11403	-55854290.88	-1.546021e+07	39697430.45	72865941.66	20	543
##	11424	21780907.14	1.551898e+07	-14926657.04	666867.49	20	544
##	11445	14914412.29	5.071553e+06	-10546602.90	-16571292.08	20	545
##	11466	-10959565.65	3.010145e+06	8144590.15	32826851.93	20	546
##	11487	3857643.62	5.867452e+06	-2463716.86	9668743.14	20	547
##	11508	29499322.96	2.590626e+07	-19938548.36	15855883.94	20	548
##	11529	-29829249.27	-7.104862e+06	21270487.92	42452891.34	20	549
##	11550	-29792336.12	-1.088883e+07	21024742.26	30784158.20	20	550
##	11571	7008674.76	-2.600235e+05	-5111757.67	-15892123.44	20	551
##	11592	14108394.85	4.926327e+06	-9963594.39	-15262145.63	20	552
##	11613	-4394686.82	5.942424e+06	3533496.04	27644882.31	20	553
##	11634	-6879724.30	1.266063e+06	5075128.08	18692018.61	20	554
##	11655	32484659.08	2.037019e+07	-22431057.86	-7533988.36	20	555
##	11676	-12974569.99	-1.232136e+07	8712152.01	-9825903.43	20	556
##	11697	32370131.00	2.299323e+07	-22192942.93	756791.83	20	557
##	11718	-19358199.20	2.949321e+06	14232000.90	50673932.43	20	558
##	11739	16677429.15	1.843886e+07	-11048977.09	20593400.40	20	559
##	11760	-2520319.15	-1.241117e+07	1106484.25	-32611675.63	20	560
##	11781	47749768.80	1.437902e+07	-33873131.05	-58744200.82	20	561
##	11802	-28439652.44	-1.062679e+07	20066892.64	28709374.27	20	562
##	11823	-10637794.89	-7.862471e+06	7275600.31	-1186367.80	20	563
##	11844	14196037.03	2.368785e+06	-10187051.25	-23323853.25	20	564
##	11865	-16991593.71	5.238755e+05	12390640.58	38215760.01	20	565
##	11886	-4254408.78	-5.209124e+06	2784985.75	-6816007.66	20	566
##	11907	-44076208.40	-2.365402e+07	30663745.64	22420370.64	20	567
##	11928	10416202.36	-2.192815e+06	-7689643.11	-29110787.28	20	568
##	11949	53028238.19	2.408568e+07	-37148481.99	-40379034.45	20	569
##	11970	-19672911.50	-8.992488e+06	13781023.65	14814656.49	20	570
##	11991	5522422.91	-3.523986e+06	-4215538.91	-22673179.36	20	571
##	12012	32025562.09	5.551323e+06	-22949089.96	-51912922.54	20	572
##	12033	-20357427.13	-1.756924e+07	13782176.89	-9980744.60	20	573
##	12054	17940036.84	-6.981648e+05	-13074661.68	-40738910.78	20	574
##	12075	-9714914.89	3.939032e+06	7288992.95	32976647.15	20	575
##	12096	53020349.94	3.039808e+07	-36779184.29	-21034400.29	20	576
##	12117	33023626.37	2.307932e+07	-22662445.94	-384571.44	20	577
##	12138	2713809.00	-2.839379e+06	-2138320.29	-14543360.07	20	578
##	12159	50165402.36	1.531213e+07	-35575674.38	-61088884.47	20	579

##	12180	-6470686.19	-4.437354e+04	4699388.27	13789103.33	20	580
##	12201	15042717.09	-3.753038e+06	-11141815.59	-43845753.76	20	581
##	12222	24240628.00	1.192125e+07	-16923588.68	-15650190.02	20	582
##	12243	25913245.70	2.131492e+07	-17600596.84	9503480.71	20	583
##	12264	-8412236.13	-2.717005e+06	5954081.75	9776635.51	20	584
##	12285	-5281904.89	4.011545e+06	4080594.10	23688245.83	20	585
##	12306	6981007.97	-3.490174e+06	-5282513.44	-25739176.56	20	586
##	12327	32725904.94	8.805717e+06	-23284169.70	-43501728.14	20	587
##	12348	36979842.86	2.095567e+07	-25664464.49	-15417335.60	20	588
##	12369	-22607244.27	-1.100903e+07	15792593.35	14939649.55	20	589
##	12390	19862021.61	5.829045e+06	-14097511.30	-24897019.70	20	590
##	12411	59857418.93	2.446067e+07	-42096231.55	-53950712.20	20	591
##	12432	-57230.24	-7.306105e+06	-382415.59	-22257944.57	20	592
##	12453	12888752.75	1.338402e+06	-9291311.76	-23648013.68	20	593
##	12474	48930003.61	2.339855e+07	-34208490.04	-33658167.14	20	594
##	12495	-15265341.26	-1.265263e+06	11017532.73	28969620.40	20	595
##	12516	-1754370.48	-1.744586e+06	1181388.35	-1542349.72	20	596
##	12537	1190510.15	-5.494095e+06	-1192949.25	-19422855.70	20	597
##	12558	15719574.43	1.843041e+07	-10350872.51	22637527.48	20	598
##	12579	7563987.79	-2.233457e+06	-5623075.46	-23109652.34	20	599
##	12600	-18626671.70	-1.760216e+07	12516819.96	-13825804.95	20	600
##	12621	-54947040.69	-2.103206e+07	38717929.11	53855593.26	20	601
##	12642	-22970332.84	-3.030764e+06	16517410.61	40154293.99	20	602
##	12663	46916846.97	2.455797e+07	-32677641.81	-25771768.69	20	603
##	12684	-29063023.39	-4.484413e+06	20864945.56	48828462.46	20	604
##	12705	21477078.57	-2.735777e+06	-15772542.21	-54624521.59	20	605
##	12726	27096187.72	7.007426e+06	-19289303.42	-36866914.59	20	606
##	12747	-29152867.09	-1.081214e+07	20562970.47	29637692.47	20	607
##	12768	20924534.68	5.305343e+06	-14900825.76	-28790696.33	20	608
##	12789	-9485905.36	-6.425058e+06	6524672.32	747121.38	20	609
##	12810	-20580795.85	-4.102020e+06	14718942.81	31730588.26	20	610
##	12831	7649083.64	-3.843602e+06	-5791523.20	-28269855.56	20	611
##	12852	-1770834.00	-8.432934e+06	795609.66	-22028140.64	20	612
##	12873	7845867.84	6.099578e+06	-5342065.03	1818277.85	20	613
##	12894	9819234.85	1.550370e+07	-6237598.88	26354744.47	20	614
##	12915	-31674471.30	-1.094870e+07	22384068.54	34634660.25	20	615
##	12936	23409442.34	-7.674655e+05	-17051798.75	-52717186.08	20	616
##	12957	-16592382.39	3.863397e+04	12058008.90	35821428.56	20	617
##	12978	12935787.39	7.774768e+06	-8956648.21	-4048326.56	20	618
##	12999	-26976699.96	-1.600461e+07	18680350.65	9048365.17	20	619
##	13020	-6356425.02	-9.709700e+06	4064538.82	-16034158.93	20	620
##	13041	6660294.60	9.509227e+06	-4284794.32	14807428.02	20	621
##	13062	-3829496.89	-4.873825e+06	2503732.92	-6675987.39	20	622
##	13083	-21371058.95	-1.320272e+07	14770449.66	5571004.39	20	623
##	13104	-17457144.06	-3.137463e+06	12507858.22	27972554.41	20	624
##	13125	43647974.24	2.293361e+07	-30393711.95	-23703400.60	20	625
##	13146	23137427.95	-2.475599e+05	-16822687.72	-50534824.32	20	626
##	13167	-2855695.05	-3.697534e+06	1861282.43	-5178741.77	20	627
##	13188	22199514.96	1.160253e+07	-15456903.06	-12227266.59	20	628
##	13209	-9644497.48	4.511338e+06	7270338.56	34575911.22	20	629
##	13230	39164632.11	1.116165e+07	-27824963.73	-50136819.95	20	630
##	13251	-23877918.70	-1.090692e+07	16719469.62	17978837.85	20	631
##	13272	23200454.74	1.092398e+07	-16229121.99	-16478598.68	20	632
##	13293	-21336950.45	-5.930483e+06	15156389.65	27736620.38	20	633

## 13314	-17347565.97	-1.373830e+07	11819571.66	-4715069.53	20	634
## 13335	-3433461.34	-7.060622e+06	2081731.59	-14251958.98	20	635
## 13356	10682475.47	2.378906e+06	-7629501.22	-15718676.26	20	636
## 13377	4312100.46	2.300533e+06	-2995051.94	-2215943.36	20	637
## 13398	-14974025.74	-4.919463e+06	10595899.34	17155826.46	20	638
## 13419	-48616754.66	-2.515477e+07	33877896.27	27600591.22	20	639
## 13440	8355255.07	-5.043248e+06	-6370973.90	-33453243.17	20	640
## 13461	-5934669.98	3.999320e+05	4336178.49	13998358.61	20	641
## 13482	-44571168.97	-1.024088e+07	31802041.26	64575292.30	20	642
## 13503	-51534820.63	-1.485624e+07	36596538.03	65430090.33	20	643
## 13524	38468968.92	1.149893e+07	-27290858.43	-47575923.78	20	644
## 13545	28938429.10	1.777032e+07	-20007512.06	-7875057.76	20	645
## 13566	21185186.29	5.253819e+06	-15089667.63	-29497414.36	20	646
## 13587	-16856460.15	-5.281289e+06	11954193.62	20137148.07	20	647
## 13608	39976572.36	1.716230e+07	-28061592.75	-33484665.41	20	648
## 13629	28292568.18	9.381326e+06	-20018629.98	-32161800.02	20	649
## 13650	-75142492.64	-3.345238e+07	52680763.87	59297632.33	20	650
## 13671	23439750.83	1.393919e+07	-16223216.21	-7740646.56	20	651
## 13692	9759215.01	7.262802e+06	-6673686.15	1234297.66	20	652
## 13713	26286430.60	8.219657e+06	-18636895.95	-31432378.14	20	653
## 13734	-6178258.89	-1.991173e+06	4377073.07	7206791.37	20	654
## 13755	-17542068.37	9.367363e+05	12804222.67	40629921.13	20	655
## 13776	23772627.73	7.981542e+06	-16812823.76	-26714012.10	20	656
## 13797	-48902028.58	-2.523599e+07	34086038.83	27984538.11	20	657
## 13818	-50485051.81	-1.457086e+07	35848784.19	64040131.75	20	658
## 13839	-32893273.10	-2.081645e+07	22701781.46	7045254.50	20	659
## 13860	-26514334.04	-3.147255e+06	19083241.06	47415112.14	20	660
## 13881	-16441864.96	-3.560796e+06	11745915.08	24492142.68	20	661
## 13902	-654444.01	-7.242319e+06	54918.46	-20778473.52	20	662
## 13923	41383557.40	2.974900e+07	-28354049.10	2043075.17	20	663
## 13944	1667195.66	4.453746e+06	-954966.95	10048878.86	20	664
## 13965	42047255.05	1.678948e+07	-29589850.08	-39089506.99	20	665
## 13986	-40266219.92	-2.075517e+07	28062938.83	23099718.83	20	666
## 14007	36299176.60	2.147468e+07	-25137414.08	-12354754.33	20	667
## 14028	15977801.63	8.551308e+06	-11111806.69	-8181154.93	20	668
## 14049	9669244.36	7.803187e+06	-6574397.95	3091945.21	20	669
## 14070	-9487860.92	6.263900e+05	6929747.68	22333452.39	20	670
## 14091	-13952552.45	-4.491890e+06	9888795.69	16302466.12	20	671
## 14112	46964283.01	2.243988e+07	-32832292.20	-32353008.33	20	672
## 14133	-37607253.53	-6.917507e+06	26934216.63	59768355.50	20	673
## 14154	32286702.77	8.781148e+06	-22954771.36	-42592237.27	20	674
## 14175	1775368.85	-4.793281e+06	-1579154.61	-18541040.78	20	675
## 14196	1510078.89	-8.841403e+06	-1615070.80	-30349768.82	20	676
## 14217	26319469.15	2.218346e+07	-17840972.23	11304851.93	20	677
## 14238	-27366247.86	-1.078294e+07	19261381.70	25865269.77	20	678
## 14259	2807259.23	9.040646e+06	-1509110.62	21674131.02	20	679
## 14280	19735478.07	2.119311e+07	-13119606.28	22421416.72	20	680
## 14301	-38439600.04	-8.190502e+06	27458943.13	57638851.41	20	681
## 14322	29732761.66	8.096326e+06	-21149167.53	-39229519.71	20	682
## 14343	-19591220.13	-4.430585e+06	13997048.22	28649605.54	20	683
## 14364	6342425.16	-4.134712e+06	-4852236.34	-26326993.67	20	684
## 14385	-17634887.00	-9.123118e+06	12281976.03	9992946.80	20	685
## 14406	3139899.20	1.069708e+07	-1666405.48	25992819.44	20	686
## 14427	25498195.14	7.474872e+06	-18100712.07	-31995131.50	20	687

## 14448	-46018383.27	-9.636966e+06	32886779.59	69533148.95	20	688
## 14469	8255496.70	4.263967e+05	-5975554.78	-16464504.41	20	689
## 14490	5133213.46	1.279557e+07	-2991502.95	28136888.32	20	690
## 14511	3943539.14	-2.830937e+06	-3032342.50	-17167022.48	20	691
## 14532	-63731970.05	-2.621180e+07	44805294.49	56908317.36	20	692
## 14553	29737751.88	6.417313e+06	-21239945.62	-44348771.08	20	693
## 14574	-7366789.99	-1.100774e+07	4707089.78	-17891463.40	20	694
## 14595	-33534153.66	-2.126034e+07	23143824.94	7071790.11	20	695
## 14616	-11658281.92	-1.462423e+07	7623961.69	-19706450.72	20	696
## 14637	25215118.10	1.431857e+07	-17492841.55	-10404384.41	20	697
## 14658	3073173.58	7.568993e+06	-1786775.04	16596988.57	20	698
## 14679	379380.80	1.008737e+07	308677.46	30081073.42	20	699
## 14700	-32766353.62	-2.229806e+07	22522746.66	2230649.01	20	700
## 14721	10157689.34	7.037421e+06	-6972928.67	-302146.43	20	701
## 14742	8730007.80	-5.384473e+06	-6659597.55	-35293156.43	20	702
## 14763	23138327.40	6.717044e+02	-16814849.39	-49796391.99	20	703
## 14784	-8889584.88	1.015249e+06	6525213.92	22263061.75	20	704
## 14805	274349.58	-3.094339e+05	-217220.58	-1537985.81	20	705
## 14826	-42958092.44	-2.176947e+07	29959191.88	25782319.26	20	706
## 14847	-5898193.29	-8.608329e+06	3794579.55	-13649453.65	20	707
## 14868	17562924.40	-3.072768e+06	-12941518.80	-47212024.90	20	708
## 14889	6894513.04	1.039852e+07	-4404329.94	17024388.64	20	709
## 14910	3148801.84	-6.719227e+06	-2677451.56	-27357581.88	20	710
## 14931	52323898.76	2.373879e+07	-36655573.06	-39921779.78	20	711
## 14952	-47263228.10	-1.891414e+07	33259329.58	43814514.05	20	712
## 14973	26175111.63	1.540984e+07	-18131795.27	-9143299.30	20	713
## 14994	-30610359.48	-1.607719e+07	21324743.75	16673490.66	20	714
## 15015	-7358960.29	-5.528269e+05	5310335.33	14126114.94	20	715
## 15036	30887179.79	8.316353e+06	-21966724.39	-41010880.63	20	716
## 15057	-38006234.84	-1.260674e+07	26895975.39	43205689.76	20	717
## 15078	-15400756.63	-1.191525e+07	10496407.33	-3368485.02	20	718
## 15099	-6644204.87	-1.370950e+06	4761460.41	10142733.98	20	719
## 15120	45778749.66	2.053223e+07	-32081233.32	-35644502.08	20	720
## 15141	13944672.42	5.786796e+06	-9790958.40	-12261256.82	20	721
## 15162	22879288.18	1.798329e+07	-15583485.20	5846388.47	20	722
## 15183	-16566868.60	-2.324907e+06	11903198.10	28529219.16	20	723
## 15204	-4703835.64	-8.192646e+06	2944150.04	-14968952.61	20	724
## 15225	-15071619.97	-5.627852e+06	10635400.18	15228680.83	20	725
## 15246	-20093065.88	-8.839106e+06	14097975.80	16197999.03	20	726
## 15267	13414548.43	3.688182e+06	-9527479.12	-17549016.08	20	727
## 15288	-15081508.49	-9.368211e+06	10415372.91	3757562.02	20	728
## 15309	11003256.82	8.600516e+05	-7952888.03	-21069044.19	20	729
## 15330	-14467230.09	-1.063191e+07	9895801.82	-1435073.29	20	730
## 15351	20150105.60	1.936632e+07	-13517877.27	15963685.47	20	731
## 15372	21056984.98	1.460884e+07	-14457539.83	-577233.60	20	732
## 15393	-8243188.71	-1.163538e+07	5318565.02	-17890615.38	20	733
## 15414	-37276253.90	-2.245758e+07	25791152.55	11449125.70	20	734
## 15435	41720969.40	2.815881e+07	-28694024.60	-3562833.34	20	735
## 15456	-41677505.51	-2.640662e+07	28762991.28	8833003.54	20	736
## 15477	-34788273.25	-1.141555e+07	24618056.14	39900113.17	20	737
## 15498	-3286617.91	6.254643e+06	2748928.62	26225201.73	20	738
## 15519	29020376.41	1.128213e+07	-20439500.79	-27913080.02	20	739
## 15540	-62125818.08	-2.345984e+07	43795208.18	61872992.37	20	740
## 15561	36241582.36	8.092052e+06	-25873373.59	-53230332.21	20	741

##	15582	-45102933.95	-2.137066e+07	31542867.13	31626417.42	20	742
##	15603	-23758676.69	-8.111281e+06	16802431.41	26311217.70	20	743
##	15624	34028381.29	1.826344e+07	-23673189.10	-17303393.32	20	744
##	15645	-38348839.60	-1.847914e+07	26800444.79	25941315.84	20	745
##	15666	-3538795.25	-5.084069e+06	2275082.08	-7963292.21	20	746
##	15687	-15086015.44	2.448864e+06	11112751.34	39995194.71	20	747
##	15708	-47541061.26	-1.711289e+07	33564304.46	49925336.30	20	748
##	15729	-30850749.61	-7.938536e+06	21962578.37	42091219.64	20	749
##	15750	-27657825.33	-9.906242e+06	19528132.19	29191911.43	20	750
##	15771	52024335.90	1.500463e+07	-36941148.48	-66020547.74	20	751
##	15792	5950235.22	2.932961e+06	-4151054.69	-3811843.05	20	752
##	15813	-5514360.54	-1.022710e+07	3413427.89	-19462428.95	20	753
##	15834	42719729.08	2.167986e+07	-29792776.62	-25549262.95	20	754
##	15855	20543494.31	1.470896e+07	-14081885.73	823354.46	20	755
##	15876	-1130.58	-1.157619e+07	-673610.67	-35468289.26	20	756
##	15897	61616097.03	3.110471e+07	-42983951.45	-37366694.19	20	757
##	15918	33153125.67	2.140165e+07	-22861590.54	-5828565.49	20	758
##	15939	-2231241.18	-3.751583e+06	1402588.95	-6694229.72	20	759
##	15960	-77735234.72	-3.401085e+07	54532267.11	63166086.35	20	760
##	15981	-13227042.04	-4.484677e+05	9587624.42	27098281.82	20	761
##	16002	16800901.44	1.383208e+07	-11411473.30	6197156.12	20	762
##	16023	-605328.97	-4.145403e+06	207348.98	-11368794.14	20	763
##	16044	-3719429.56	-1.091927e+07	2068078.06	-25448516.23	20	764
##	16065	23133971.51	1.176261e+07	-16126978.06	-13748992.86	20	765
##	16086	-14747465.76	-5.978508e+06	10369895.79	13424345.78	20	766
##	16107	36550739.63	2.318601e+07	-25224395.00	-7665586.06	20	767
##	16128	-37114038.89	-1.902406e+07	25868578.45	21604670.65	20	768
##	16149	-41763522.77	-1.237192e+07	29634882.03	51993907.46	20	769
##	16170	5442771.19	6.307330e+06	-3591044.33	7601584.68	20	770
##	16191	-57110132.24	-3.395406e+07	39543262.20	18937698.13	20	771
##	16212	-3198428.06	6.582629e+06	2713878.65	27074049.11	20	772
##	16233	-17003170.98	-9.974764e+06	11778485.40	6041462.21	20	773
##	16254	8843989.39	7.833457e+06	-5981687.27	4931064.11	20	774
##	16275	-11082455.42	3.680740e+06	8272887.48	35145852.57	20	775
##	16296	51549439.35	1.800585e+07	-36434338.81	-55846996.99	20	776
##	16317	-27488252.17	-6.711410e+06	19598755.27	38642452.85	20	777
##	16338	-53792488.01	-2.693428e+07	37536865.46	33291893.80	20	778
##	16359	-23506301.33	-6.404601e+06	16712062.21	30975823.35	20	779
##	16380	-25311975.10	-1.618286e+07	17460011.31	4918759.07	20	780
##	16401	25435922.52	9.190425e+06	-17958178.40	-26613514.66	20	781
##	16422	-1150710.88	-1.066886e+07	226833.86	-30172730.58	20	782
##	16443	-13376043.51	-7.944721e+06	9269516.42	4484689.84	20	783
##	16464	1492814.25	7.393080e+06	-653793.13	19441483.79	20	784
##	16485	47116580.66	1.672064e+07	-33283591.83	-50230324.26	20	785
##	16506	-20294608.46	-1.540691e+07	13863540.32	-3486797.81	20	786
##	16527	47082609.76	1.746081e+07	-33207382.47	-47860759.11	20	787
##	16548	-42092871.29	-2.098201e+07	29376900.57	26335068.60	20	788
##	16569	28961228.12	2.027371e+07	-19870956.43	-228815.50	20	789
##	16590	-42444600.80	-1.326708e+07	30083736.11	50737398.80	20	790
##	16611	-46415603.73	-2.520448e+07	32275553.96	22711452.81	20	791
##	16632	13333463.41	-6.193700e+06	-10050491.91	-47674759.30	20	792
##	16653	-29339882.86	-5.594093e+06	20999631.31	46017829.19	20	793
##	16674	17267064.69	4.647384e+06	-12281886.23	-22937340.55	20	794
##	16695	51997047.01	1.932385e+07	-36678934.29	-52758641.27	20	795

##	16716	35882375.73	1.273911e+07	-25336107.36	-38199539.49	20	796
##	16737	24256523.02	1.823005e+07	-16572910.96	3628394.29	20	797
##	16758	-8846073.13	-1.395006e+07	5614337.08	-23710932.43	20	798
##	16779	18470047.07	8.115735e+05	-13379328.44	-37278889.76	20	799
##	16800	3786369.79	3.410359e+05	-2735592.25	-7117172.58	20	800
##	16821	-6633845.73	-1.114883e+07	4177244.65	-19863882.27	20	801
##	16842	15615160.67	4.570120e+06	-11079016.85	-19595408.86	20	802
##	16863	-29013507.80	-1.895795e+07	19984256.37	4368394.38	20	803
##	16884	-1067727.74	-2.835197e+06	601714.67	-6420020.89	20	804
##	16905	42674748.56	1.434206e+07	-30194098.28	-47958329.95	20	805
##	16926	11901156.37	3.254493e+06	-8463982.52	-15658173.25	20	806
##	16947	-14787100.44	-1.448727e+07	9905772.48	-12552649.65	20	807
##	16968	7900104.77	6.432391e+06	-5365026.74	2711368.22	20	808
##	16989	-12319217.61	-1.622982e+07	8015828.69	-23186415.41	20	809
##	17010	-35684284.99	-1.804648e+07	24889954.45	21534602.33	20	810
##	17031	28895460.04	8.211358e+06	-20530256.32	-37062348.55	20	811
##	17052	-129178.32	4.375218e+06	346258.47	13675630.05	20	812
##	17073	-51951477.33	-1.857022e+07	36689847.04	54970170.54	20	813
##	17094	-1138526.15	-5.569859e+06	503087.86	-14615607.96	20	814
##	17115	27288306.05	1.341397e+07	-19056013.96	-17651208.98	20	815
##	17136	-26736238.78	-4.939740e+05	19396652.99	56014405.44	20	816
##	17157	8920619.02	-7.220549e+06	-6900504.14	-41313792.95	20	817
##	17178	-17699655.61	-1.131456e+07	12202745.26	3422192.61	20	818
##	17199	-14363089.08	-9.915672e+06	9865331.30	547243.63	20	819
##	17220	29890406.21	1.923926e+07	-20608374.45	-5404717.79	20	820
##	17241	31006850.53	2.560921e+07	-21053514.73	11693987.58	20	821
##	17262	-51599472.54	-1.764397e+07	36488572.57	57052652.07	20	822
##	17283	-46649344.11	-2.244087e+07	32603200.62	31671610.85	20	823
##	17304	39551736.83	2.682020e+07	-27190404.52	-2978214.28	20	824
##	17325	-26027241.41	-2.065785e+07	17725379.65	-7232373.92	20	825
##	17346	-31785785.60	-4.631202e+06	22833932.81	54234821.51	20	826
##	17367	-23488960.11	-1.153099e+07	16403695.18	15240515.36	20	827
##	17388	-19634133.27	-1.252142e+07	13539536.78	3892023.91	20	828
##	17409	-48371267.31	-1.880653e+07	34077028.04	46550001.38	20	829
##	17430	-13190613.97	-1.202090e+07	8887581.07	-8437138.85	20	830
##	17451	338578.78	-4.542486e+06	-513361.03	-14656405.11	20	831
##	17472	-43219285.51	-8.504885e+06	30918231.20	66976491.44	20	832
##	17493	2897004.21	1.717707e+06	-2005288.49	-971964.00	20	833
##	17514	-18943501.47	-2.130904e+07	12530225.67	-24505175.90	20	834
##	17535	-62470034.00	-2.835571e+07	43762412.09	47620104.55	20	835
##	17556	-11563556.50	3.189358e+06	8579022.35	34625254.36	20	836
##	17577	49118720.31	2.330209e+07	-34350538.34	-34357479.26	20	837
##	17598	-25874370.07	-5.301688e+06	18503678.82	39473737.37	20	838
##	17619	-40231169.47	-1.404074e+07	28433766.55	43615374.71	20	839
##	17640	-37917675.54	-1.692331e+07	26576063.38	29774841.50	20	840
##	17661	24527339.95	1.086628e+07	-17204687.81	-19538047.14	20	841
##	17682	12775401.27	1.019020e+07	-8689369.51	3731905.18	20	842
##	17703	14009677.64	1.611152e+07	-9248229.70	19195759.28	20	843
##	17724	44264090.02	1.967036e+07	-31030385.72	-35024355.47	20	844
##	17745	-37752976.76	-2.384761e+07	26055549.98	8212345.34	20	845
##	17766	34142659.80	9.731077e+06	-24260545.95	-43717900.86	20	846
##	17787	-44365683.95	-2.893616e+07	30570169.33	6871181.90	20	847
##	17808	808562.85	-8.871274e+06	-1100618.59	-28909815.85	20	848
##	17829	23319807.33	1.772039e+07	-15918687.77	4093573.91	20	849



## 17850	-33099390.04	-1.701275e+07	23073804.37	19145966.76	20	850
## 17871	-1282783.08	-7.608215e+06	494777.90	-20531858.93	20	851
## 17892	26124423.89	1.492496e+06	-18900139.29	-51659341.15	20	852
## 17913	-24332006.16	-7.831141e+06	17228347.85	28379619.71	20	853
## 17934	27062370.11	1.987098e+07	-18514579.66	2623632.19	20	854
## 17955	10756181.43	-4.452766e+06	-8071505.16	-36777841.57	20	855
## 17976	64657938.51	2.696080e+07	-45433593.52	-56602859.63	20	856
## 17997	-13630670.52	2.020083e+06	10029006.43	35545267.04	20	857
## 18018	16065533.64	6.251340e+06	-11307205.98	-15409350.40	20	858
## 18039	-60645017.12	-2.085467e+07	42875620.08	66684615.57	20	859
## 18060	-19759865.81	-1.314114e+07	13604635.93	2297063.44	20	860
## 18081	-17737284.93	-1.332533e+07	12123407.06	-2622579.43	20	861
## 18102	50590587.21	1.555996e+07	-35866197.27	-61230934.32	20	862
## 18123	-16646337.36	-7.364725e+06	11667656.75	13258808.57	20	863
## 18144	32156587.75	1.695277e+07	-22384773.21	-17275613.43	20	864
## 18165	-8640064.90	1.033768e+06	6344980.47	21782844.23	20	865
## 18186	-11339195.16	-7.767154e+06	7792545.38	620933.43	20	866
## 18207	-5785365.87	-7.477174e+06	3762358.69	-10480981.64	20	867
## 18228	-14657852.87	3.981502e+06	10888597.58	43762091.31	20	868
## 18249	24561062.72	8.078181e+06	-17381118.05	-28118027.94	20	869
## 18270	23870897.87	1.253009e+06	-17280356.45	-47556421.14	20	870
## 18291	-209516.33	1.406812e+06	234681.41	4763117.28	20	871
## 18312	35260339.46	2.050669e+07	-24436393.80	-13076592.41	20	872
## 18333	-15708597.84	-3.766976e+06	11193606.30	22257075.41	20	873
## 18354	8293128.93	-4.565183e+05	-6053658.82	-19248531.36	20	874
## 18375	13417753.02	8.090161e+06	-9280338.07	-4091465.55	20	875
## 18396	14144917.75	1.327908e+07	-9508047.86	10237586.68	20	876
## 18417	42603168.94	2.753243e+07	-29370575.45	-7377248.88	20	877
## 18438	-26808134.38	-1.791868e+07	18452907.83	2842931.59	20	878
## 18459	-558524.87	-4.945560e+04	408636.69	1069616.38	20	879
## 18480	-40955821.42	-2.480342e+07	28327888.15	12178433.41	20	880
## 18501	-13253473.49	-1.007118e+07	9044698.03	-2335024.08	20	881
## 18522	3361553.08	-6.296935e+06	-2818604.68	-26559310.45	20	882
## 18543	-11458193.95	-8.996006e+06	7808914.26	-2883261.94	20	883
## 18564	-18461070.97	1.053678e+06	13482006.26	42976708.37	20	884
## 18585	-34330712.79	-2.317888e+07	23608969.60	2900928.05	20	885
## 18606	-44106811.85	-1.799022e+07	31018803.77	39850379.74	20	886
## 18627	7055676.86	9.252504e+06	-4583992.33	13180322.99	20	887
## 18648	26841500.41	7.874530e+06	-19048443.81	-33644044.68	20	888
## 18669	-14914766.92	-5.944770e+06	10502012.95	13916853.45	20	889
## 18690	-19751991.78	-2.037058e+07	13175872.51	-19877968.22	20	890
## 18711	13772477.25	-1.331318e+06	-10090063.16	-33733678.43	20	891
## 18732	20129569.56	1.270792e+07	-13896245.46	-4412394.62	20	892
## 18753	4001420.28	8.752057e+06	-2392849.20	18222784.83	20	893
## 18774	3329202.62	-8.114169e+06	-2887136.44	-32010999.02	20	894
## 18795	4075871.61	-1.810094e+06	-3063844.10	-14306254.18	20	895
## 18816	-14188137.95	-6.638095e+06	9928650.35	10211892.29	20	896
## 18837	53624901.86	2.574502e+07	-37488183.73	-36588183.59	20	897
## 18858	-3114870.00	-7.202297e+06	1846154.05	-15357500.67	20	898
## 18879	-5263770.08	9.114414e+06	4352120.39	39242285.81	20	899
## 18900	36725517.53	7.977574e+06	-26225894.64	-54602869.44	20	900
## 18921	16107623.70	8.360408e+06	-11222106.95	-9061890.41	20	901
## 18942	-24449405.23	-3.868117e+06	17547890.40	40786754.47	20	902
## 18963	-276654.60	1.119020e+07	845596.96	34858346.65	20	903

## 18984	-3828895.28	-5.480421e+05	2752397.50	6567495.84	20	904
## 19005	-921799.52	9.368148e+06	1213169.07	30680452.01	20	905
## 19026	-55023117.15	-2.005660e+07	38829460.35	57006249.62	20	906
## 19047	-53445456.28	-1.951644e+07	37719645.77	55283618.69	20	907
## 19068	14669926.43	1.226377e+07	-9955633.15	5973251.88	20	908
## 19089	-11857394.56	-1.243033e+07	7903140.35	-12532995.84	20	909
## 19110	8412399.82	1.158436e+07	-5444082.17	17371532.11	20	910
## 19131	-14187844.33	-6.244227e+06	9948531.41	11408445.13	20	911
## 19152	33006245.12	1.895768e+07	-22891055.07	-12980082.43	20	912
## 19173	5197808.48	-2.659495e+06	-3933723.70	-19340738.30	20	913
## 19194	2322241.17	-5.635212e+06	-2004162.09	-22225027.74	20	914
## 19215	-27851751.07	-4.850591e+06	19965891.31	45108106.51	20	915
## 19236	-5638593.25	2.957779e+06	4263608.86	21176872.35	20	916
## 19257	-22837710.52	-1.027098e+07	16000028.18	17686804.78	20	917
## 19278	-20853212.56	-1.175624e+07	14470806.87	8862957.42	20	918
## 19299	26442146.08	1.423374e+07	-18389336.33	-13304655.12	20	919
## 19320	315754.25	5.120501e+06	64391.85	14995063.57	20	920
## 19341	18416480.82	9.521647e+06	-12834033.00	-10478651.37	20	921
## 19362	26795994.75	1.430775e+07	-18641479.40	-13837095.54	20	922
## 19383	7631117.18	-3.370414e+06	-5742330.15	-26752239.27	20	923
## 19404	48575783.57	1.160635e+07	-34630599.96	-69003002.65	20	924
## 19425	41567956.62	1.305351e+07	-29459435.47	-49506176.17	20	925
## 19446	16889602.64	2.825628e+06	-12112110.24	-27701579.42	20	926
## 19467	-2814415.08	-6.322461e+06	1672230.87	-13331412.95	20	927
## 19488	-6344140.41	-6.512013e+06	4242487.66	-6260571.73	20	928
## 19509	-8492179.76	-8.290223e+06	5693322.31	-7108458.74	20	929
## 19530	27350594.04	1.036861e+07	-19280007.03	-27120989.57	20	930
## 19551	6551662.69	8.406947e+06	-4266697.35	11675150.30	20	931
## 19572	-2018062.37	-8.602707e+06	964523.06	-22019169.32	20	932
## 19593	6557107.41	-6.818008e+06	-5152570.58	-34970237.76	20	933
## 19614	7118768.35	-8.774551e+06	-5675866.37	-42177983.06	20	934
## 19635	30135713.22	7.048370e+06	-21496036.59	-43284024.59	20	935
## 19656	-16046920.86	1.386416e+06	11747838.17	38803343.25	20	936
## 19677	-16030939.43	1.369852e+06	11732182.14	38707760.73	20	937
## 19698	-27481867.57	-1.753270e+07	18954070.02	5438553.64	20	938
## 19719	-1869020.31	-7.233914e+06	935374.69	-18147786.37	20	939
## 19740	10836852.33	2.492184e+06	-7738032.57	-15713810.83	20	940
## 19761	-1640210.55	-3.322854e+05	1166979.99	2492855.14	20	941
## 19782	-38432994.74	-2.406847e+07	26538549.17	9004880.85	20	942
## 19803	-25944274.72	-1.656038e+06	18757331.81	50762502.01	20	943
## 19824	35221375.18	1.653295e+07	-24636590.55	-25158536.62	20	944
## 19845	4452207.92	5.477470e+06	-2915083.80	7205802.07	20	945
## 19866	27669997.28	1.352664e+07	-19325720.31	-18123682.32	20	946
## 19887	-25696655.88	-6.215423e+06	18328837.53	36317037.04	20	947
## 19908	-11369411.87	5.998700e+06	8612184.46	42851406.16	20	948
## 19929	60667543.56	2.310210e+07	-42757459.67	-59834554.92	20	949
## 19950	25327253.61	4.515386e+06	-18141886.17	-40671618.42	20	950
## 19971	-11257534.50	-1.352552e+06	8111044.53	20114221.97	20	951
## 19992	24058883.47	4.833557e+06	-17216246.42	-37016536.20	20	952
## 20013	-37812574.61	-1.013755e+07	26894445.95	50339012.33	20	953
## 20034	17673063.15	1.254095e+07	-12118794.32	369709.54	20	954
## 20055	18184395.24	-6.176504e+05	-13256045.60	-41046922.48	20	955
## 20076	5622707.29	2.476999e+06	-3939519.87	-4503780.82	20	956
## 20097	-25878629.16	-1.696890e+07	17824960.37	3726223.09	20	957

##	20118	28770802.05	1.591344e+07	-19983517.55	-13168856.84	20	958
##	20139	28374002.54	6.187956e+06	-20266743.89	-42131694.81	20	959
##	20160	-2874045.84	4.201701e+06	2325868.04	19034496.20	20	960
##	20181	-26278535.02	-1.976023e+07	17955944.07	-3955890.58	20	961
##	20202	-2501990.46	-9.250046e+06	1283106.68	-22945506.35	20	962
##	20223	28128980.51	4.732986e+06	-20166731.15	-46039763.95	20	963
##	20244	-16878554.69	-1.603469e+07	11338377.64	-12783138.71	20	964
##	20265	10454953.79	1.075431e+07	-6967242.85	10464531.27	20	965
##	20286	678166.59	8.037368e+06	-20964.11	23180060.26	20	966
##	20307	-16699960.44	-1.774598e+07	11108967.38	-18410836.24	20	967
##	20328	-15876307.61	-6.990659e+06	11135195.75	12765813.79	20	968
##	20349	-31768553.14	-6.049814e+06	22737039.99	49845114.32	20	969
##	20370	-49607766.05	-2.190224e+07	34785942.48	39694048.18	20	970
##	20391	-21814008.31	-1.649176e+07	14898523.51	-3561126.60	20	971
##	20412	26751035.00	4.608757e+06	-19179204.74	-43477184.45	20	972
##	20433	-20538272.40	1.177188e+06	14994222.34	47810445.75	20	973
##	20454	-46081064.00	-2.571505e+07	32006583.64	20440214.19	20	974
##	20475	-36318741.67	-1.287747e+07	25650212.83	38731888.77	20	975
##	20496	3341258.34	9.481260e+06	-1876666.63	21857442.58	20	976
##	20517	-11209932.31	2.129081e+06	8265919.44	30634540.26	20	977
##	20538	21566702.22	1.654353e+07	-14720728.70	4235255.57	20	978
##	20559	-49718556.09	-2.385900e+07	34756832.57	33951619.70	20	979
##	20580	39827960.97	2.017037e+07	-27778625.38	-23948730.43	20	980
##	20601	389808.89	-8.563422e+06	-779229.64	-27068194.79	20	981
##	20622	-19741405.02	-4.361995e+06	14094024.01	29128209.69	20	982
##	20643	21217293.03	1.219914e+07	-14711131.69	-8294672.59	20	983
##	20664	15329799.55	2.705714e+06	-10979131.82	-24690165.34	20	984
##	20685	17709956.28	9.930501e+06	-12295803.02	-7702000.95	20	985
##	20706	-33630849.67	-6.825747e+06	24051944.88	51498531.48	20	986
##	20727	36506386.24	1.070904e+07	-25911559.06	-45775469.67	20	987
##	20748	-17203866.50	-4.161773e+06	12269386.61	24306701.88	20	988
##	20769	31995341.82	1.528314e+07	-22365567.66	-22046901.18	20	989
##	20790	3296118.87	2.670189e+06	-2243086.38	1076553.31	20	990
##	20811	33574477.26	1.556594e+07	-23506120.79	-24611032.93	20	991
##	20832	11780599.82	8.112329e+06	-8098070.62	-529757.02	20	992
##	20853	24338219.08	1.036091e+07	-17091918.47	-20663338.41	20	993
##	20874	16956465.46	-7.193540e+05	-12358638.73	-38678563.96	20	994
##	20895	-365191.61	3.700485e+06	475913.60	12107483.84	20	995
##	20916	16977072.42	1.240385e+06	-12267417.54	-32745109.40	20	996
##	20937	-43096499.87	-3.192702e+07	29472566.14	-5028147.61	20	997
##	20958	26653993.49	3.718344e+06	-19156738.86	-45983701.41	20	998
##	20979	34029555.47	8.279929e+06	-24248183.99	-47871074.71	20	999
##	21000	-17219419.35	2.415886e+06	12645922.35	44433875.88	20	1000
##		r_x1	r_x2	r_x3	r_x4	eigen_index	
##	21	-2.021807e+00	-1.157095e+00	-2.053819e+00	-3.577811e+00	0	
##	42	3.309865e+00	2.591199e+00	3.412148e+00	1.950629e+00	0	
##	63	-4.011325e+00	-3.325547e+01	-3.846389e+00	-1.027855e+00	0	
##	84	-3.241483e+00	-7.173999e+00	-3.174041e+00	-1.530991e+00	0	
##	105	-1.461200e+00	-1.077504e-01	-1.523966e+00	-6.838893e+00	0	
##	126	-1.655567e-02	1.338173e+00	-1.152629e-01	8.081320e+00	0	
##	147	-1.323360e+00	9.027386e-02	-1.392242e+00	-8.599367e+00	0	
##	168	-1.774563e+01	5.140769e+00	-1.375854e+01	3.039707e-01	0	
##	189	-1.818434e+00	-7.216505e-01	-1.862331e+00	-4.370003e+00	0	
##	210	-4.989807e-01	9.769972e-01	-5.921982e-01	2.304799e+01	0	

## 231	-2.648202e+00	-3.156151e+00	-2.634346e+00	-2.200074e+00	0
## 252	-1.190205e+00	2.623775e-01	-1.267200e+00	-1.129012e+01	0
## 273	-2.152164e+00	-1.486450e+00	-2.179223e+00	-3.185920e+00	0
## 294	1.333744e+00	2.023919e+00	1.266373e+00	3.219816e+00	0
## 315	-9.931863e-02	1.281702e+00	-1.984176e-01	9.049972e+00	0
## 336	-1.950706e+00	-9.979606e-01	-1.987880e+00	-3.823046e+00	0
## 357	-2.052769e+00	-1.230634e+00	-2.083065e+00	-3.478447e+00	0
## 378	-2.277349e+00	-1.824819e+00	-2.291854e+00	-2.880468e+00	0
## 399	-2.290558e+00	-1.862993e+00	-2.303760e+00	-2.851025e+00	0
## 420	-3.420735e+00	-9.384802e+00	-3.332581e+00	-1.388024e+00	0
## 441	-2.306890e+00	-1.913120e+00	-2.319341e+00	-2.814411e+00	0
## 462	-1.207776e+00	2.347842e-01	-1.289530e+00	-1.078701e+01	0
## 483	-2.078798e+00	-1.300803e+00	-2.110903e+00	-3.393957e+00	0
## 504	-1.157366e+00	3.019185e-01	-1.237048e+00	-1.220371e+01	0
## 525	-2.251508e+00	-1.748489e+00	-2.267320e+00	-2.940884e+00	0
## 546	-1.511737e+00	-1.885012e-01	-1.574751e+00	-6.340237e+00	0
## 567	-3.023927e+00	-5.279236e+00	-2.977709e+00	-1.735789e+00	0
## 588	-3.788584e+00	-1.857307e+01	-3.659881e+00	-1.145627e+00	0
## 609	-1.385524e+01	5.511313e+00	-1.137245e+01	2.109227e-01	0
## 630	-3.106847e+00	-5.933752e+00	-3.054258e+00	-1.652569e+00	0
## 651	-5.408244e+00	1.572522e+01	-5.059287e+00	-5.324124e-01	0
## 672	-1.700925e+00	-5.005897e-01	-1.750962e+00	-4.981042e+00	0
## 693	5.631023e+00	2.967511e+00	6.114309e+00	1.467008e+00	0
## 714	6.534926e+00	3.072653e+00	7.251356e+00	1.361184e+00	0
## 735	-3.939310e+00	-2.742902e+01	-3.794619e+00	-1.061947e+00	0
## 756	-1.656045e+00	-4.253984e-01	-1.711225e+00	-5.247445e+00	0
## 777	-5.860153e-01	8.999513e-01	-6.806955e-01	3.608065e+01	0
## 798	5.533121e-01	1.673781e+00	4.601887e-01	4.790053e+00	0
## 819	-2.391924e+00	-2.183053e+00	-2.398562e+00	-2.637232e+00	0
## 840	1.226675e+00	1.981623e+00	1.154676e+00	3.361434e+00	0
## 861	-1.545461e+00	-2.424727e-01	-1.607325e+00	-6.047633e+00	0
## 882	1.453806e+01	3.556450e+00	1.914456e+01	9.734850e-01	0
## 903	-1.475448e+00	-1.311287e-01	-1.539048e+00	-6.687885e+00	0
## 924	-2.437495e+00	-2.331141e+00	-2.438728e+00	-2.551531e+00	0
## 945	-2.065455e+00	-1.260320e+00	-2.094534e+00	-3.439793e+00	0
## 966	2.210569e+00	2.316567e+00	2.196998e+00	2.447796e+00	0
## 987	-1.741656e+00	-5.749785e-01	-1.789643e+00	-4.752922e+00	0
## 1008	-4.643121e-01	1.005494e+00	-5.589763e-01	2.024551e+01	0
## 1029	-2.380768e+00	-2.142429e+00	-2.386811e+00	-2.660714e+00	0
## 1050	-3.063311e-01	1.130547e+00	-4.046901e-01	1.309627e+01	0
## 1071	4.765915e+00	2.850945e+00	5.090589e+00	1.598931e+00	0
## 1092	-1.072924e+00	4.067169e-01	-1.151911e+00	-1.550914e+01	0
## 1113	-2.765608e+00	-3.701846e+00	-2.740296e+00	-2.037607e+00	0
## 1134	-2.633085e+00	-3.095555e+00	-2.621797e+00	-2.221649e+00	0
## 1155	-9.085699e-01	5.893684e-01	-9.929815e-01	-3.113022e+01	0
## 1176	-2.984816e+00	-4.997101e+00	-2.941228e+00	-1.777349e+00	0
## 1197	-2.621491e+00	-3.036595e+00	-2.608648e+00	-2.240960e+00	0
## 1218	-1.363660e+00	3.366107e-02	-1.431375e+00	-8.000846e+00	0
## 1239	-1.144928e+01	5.954490e+00	-9.713898e+00	1.183024e-01	0
## 1260	-1.855525e+00	-7.969334e-01	-1.898073e+00	-4.202553e+00	0
## 1281	-6.948448e-01	8.030474e-01	-7.837788e-01	1.216163e+02	0
## 1302	3.100463e+01	3.865932e+00	6.604899e+01	7.897821e-01	0
## 1323	-2.199672e+00	-1.606374e+00	-2.220328e+00	-3.065903e+00	0
## 1344	-1.522902e+00	-2.030117e-01	-1.582991e+00	-6.250517e+00	0

## 1365	-2.713237e+00	-3.456398e+00	-2.694902e+00	-2.106507e+00	0
## 1386	-1.269866e+00	1.618204e-01	-1.341448e+00	-9.524881e+00	0
## 1407	-2.834370e+00	-4.076460e+00	-2.805370e+00	-1.948976e+00	0
## 1428	-2.636595e+00	-3.107689e+00	-2.624226e+00	-2.216955e+00	0
## 1449	7.910394e-01	1.791716e+00	7.036220e-01	4.141982e+00	0
## 1470	-2.457888e+00	-2.381312e+00	-2.450688e+00	-2.519794e+00	4
## 1491	-4.042829e-01	1.057546e+00	-4.942189e-01	1.661541e+01	0
## 1512	-2.132749e+00	-1.418891e+00	-2.153241e+00	-3.249013e+00	0
## 1533	-2.334344e+02	4.270343e+00	-4.715861e+01	5.973133e-01	0
## 1554	4.421952e+00	2.799399e+00	4.699003e+00	1.662966e+00	0
## 1575	-4.424293e-02	1.318539e+00	-1.455267e-01	8.390031e+00	0
## 1596	3.230318e+00	2.572775e+00	3.317470e+00	1.978195e+00	0
## 1617	-2.759512e+00	-3.671915e+00	-2.734891e+00	-2.045527e+00	0
## 1638	-7.398872e+02	4.229130e+00	-5.568645e+01	6.140047e-01	0
## 1659	-1.320873e+00	9.181049e-02	-1.391604e+00	-8.626588e+00	0
## 1680	-2.019879e+00	-1.149740e+00	-2.050538e+00	-3.586362e+00	0
## 1701	-2.168917e+00	-1.526902e+00	-2.193161e+00	-3.143402e+00	0
## 1722	-6.320216e+00	1.047943e+01	-5.806452e+00	-3.448393e-01	0
## 1743	-3.228094e+00	-7.014178e+00	-3.159677e+00	-1.543548e+00	0
## 1764	-1.352488e+00	4.929686e-02	-1.420727e+00	-8.157612e+00	0
## 1785	-2.426081e+00	-2.298634e+00	-2.430434e+00	-2.571002e+00	0
## 1806	-1.808241e+00	-7.040104e-01	-1.854153e+00	-4.414540e+00	0
## 1827	-4.531083e-01	1.015831e+00	-5.460323e-01	1.942462e+01	0
## 1848	-1.468195e+01	5.415003e+00	-1.186746e+01	2.343559e-01	0
## 1869	2.577742e+00	2.418414e+00	2.598107e+00	2.244774e+00	0
## 1890	-2.830112e+00	-4.048932e+00	-2.800672e+00	-1.954689e+00	0
## 1911	-6.218195e-01	8.691352e-01	-7.139255e-01	4.670936e+01	0
## 1932	-2.504810e+00	-2.576591e+00	-2.502206e+00	-2.429414e+00	4
## 1953	-8.735872e+00	7.049366e+00	-7.695295e+00	-5.382000e-02	0
## 1974	-2.278260e+00	-1.833192e+00	-2.294953e+00	-2.876007e+00	0
## 1995	-8.804053e+00	6.988615e+00	-7.770885e+00	-4.692603e-02	0
## 2016	-2.833815e+00	-4.067158e+00	-2.803603e+00	-1.950399e+00	0
## 2037	-1.675658e+00	-4.590087e-01	-1.729327e+00	-5.125951e+00	0
## 2058	-6.689969e+00	9.469496e+00	-6.117235e+00	-2.839388e-01	0
## 2079	2.406150e-01	1.499535e+00	1.416130e-01	6.124607e+00	0
## 2100	4.659746e+00	2.834012e+00	4.959446e+00	1.618625e+00	0
## 2121	-1.054099e+00	4.295368e-01	-1.132640e+00	-1.649846e+01	0
## 2142	-4.073832e+00	-4.431848e+01	-3.914783e+00	-9.935734e-01	0
## 2163	1.403371e+00	2.050125e+00	1.340020e+00	3.135454e+00	0
## 2184	-3.582394e+00	-1.234302e+01	-3.478319e+00	-1.273298e+00	0
## 2205	-4.211895e+00	-9.621008e+01	-4.029345e+00	-9.308170e-01	0
## 2226	-1.016736e+02	4.340646e+00	-3.775960e+01	5.677219e-01	0
## 2247	-1.692894e+00	-4.858971e-01	-1.743125e+00	-5.028873e+00	0
## 2268	-3.206104e+00	-6.821965e+00	-3.142872e+00	-1.561550e+00	0
## 2289	2.295606e+00	2.341558e+00	2.290198e+00	2.396090e+00	1
## 2310	-1.040029e+00	4.439876e-01	-1.121032e+00	-1.724891e+01	0
## 2331	-6.699007e+00	9.414187e+00	-6.139440e+00	-2.813091e-01	0
## 2352	-2.802560e+00	-3.899663e+00	-2.775459e+00	-1.989127e+00	0
## 2373	1.655310e+00	2.141633e+00	1.605228e+00	2.870599e+00	0
## 2394	1.276115e+00	2.001335e+00	1.206221e+00	3.294181e+00	0
## 2415	-3.009784e+00	-5.164249e+00	-2.962809e+00	-1.751516e+00	0
## 2436	-2.832007e+00	-4.065705e+00	-2.803685e+00	-1.951600e+00	0
## 2457	-1.445917e+00	-8.439362e-02	-1.508995e+00	-7.002130e+00	0
## 2478	-1.814359e+00	-7.138831e-01	-1.858629e+00	-4.388632e+00	0

## 2499	1.548739e+01	3.587721e+00	2.082946e+01	9.529290e-01	0
## 2520	-2.712457e+00	-3.458926e+00	-2.695670e+00	-2.106609e+00	0
## 2541	-1.945558e+00	-9.838078e-01	-1.981453e+00	-3.844712e+00	0
## 2562	2.207696e-01	1.487590e+00	1.212869e-01	6.239224e+00	0
## 2583	-1.235199e+00	2.084545e-01	-1.306910e+00	-1.024587e+01	0
## 2604	-4.842905e+00	2.842532e+01	-4.579748e+00	-6.912702e-01	0
## 2625	2.494961e+02	4.163563e+00	-7.919970e+01	6.427888e-01	0
## 2646	-1.831677e+00	-7.494981e-01	-1.875848e+00	-4.307358e+00	0
## 2667	3.524506e-02	1.372211e+00	-6.364311e-02	7.582609e+00	0
## 2688	5.162970e+00	2.907176e+00	5.557666e+00	1.533542e+00	0
## 2709	-2.232862e+00	-1.678093e+00	-2.242723e+00	-2.993550e+00	0
## 2730	-2.119860e+00	-1.394450e+00	-2.145098e+00	-3.280103e+00	0
## 2751	-2.514121e+00	-2.609879e+00	-2.510328e+00	-2.413781e+00	0
## 2772	-1.913200e+00	-9.207983e-01	-1.954760e+00	-3.961250e+00	0
## 2793	-4.854103e+00	2.787288e+01	-4.590098e+00	-6.875722e-01	0
## 2814	-1.947044e+00	-9.890328e-01	-1.983939e+00	-3.837371e+00	0
## 2835	-2.114184e+00	-1.379219e+00	-2.139391e+00	-3.296749e+00	0
## 2856	-1.122428e+00	3.483695e-01	-1.199254e+00	-1.343307e+01	0
## 2877	-3.060284e+00	-5.575390e+00	-3.014144e+00	-1.697186e+00	0
## 2898	-2.590476e+00	-2.914548e+00	-2.582118e+00	-2.287458e+00	0
## 2919	-3.424142e+00	-9.416820e+00	-3.334265e+00	-1.385977e+00	0
## 2940	-6.320404e+00	1.046853e+01	-5.809680e+00	-3.445131e-01	0
## 2961	-2.210881e+00	-1.636133e+00	-2.230328e+00	-3.038326e+00	0
## 2982	-2.254640e+00	-1.764520e+00	-2.273088e+00	-2.930401e+00	0
## 3003	-2.849496e+00	-4.161524e+00	-2.819238e+00	-1.930514e+00	0
## 3024	-5.446847e+00	1.525785e+01	-5.098569e+00	-5.220699e-01	0
## 3045	7.986156e+00	3.210305e+00	9.187075e+00	1.236752e+00	0
## 3066	-2.544010e+00	-2.717867e+00	-2.536060e+00	-2.364919e+00	0
## 3087	1.073252e+00	1.918240e+00	9.948542e-01	3.593580e+00	0
## 3108	-3.901128e+00	-2.449348e+01	-3.758980e+00	-1.082811e+00	0
## 3129	-3.035265e+00	-5.348355e+00	-2.985891e+00	-1.725189e+00	0
## 3150	-2.242092e+00	-1.736766e+00	-2.264785e+00	-2.956319e+00	0
## 3171	-7.796157e-01	7.198878e-01	-8.690362e-01	-1.297637e+02	0
## 3192	-2.892680e+00	-4.417805e+00	-2.859449e+00	-1.878869e+00	0
## 3213	3.449851e+00	2.619295e+00	3.564841e+00	1.906913e+00	0
## 3234	-1.619860e+00	-3.572538e-01	-1.672389e+00	-5.502496e+00	0
## 3255	-1.376271e-01	1.255410e+00	-2.354453e-01	9.580876e+00	0
## 3276	-1.037773e+00	4.470340e-01	-1.118315e+00	-1.739760e+01	0
## 3297	-2.178858e+00	-1.546986e+00	-2.199591e+00	-3.120836e+00	0
## 3318	-4.019238e+00	-3.532904e+01	-3.863217e+00	-1.021365e+00	0
## 3339	-2.241748e+00	-1.717800e+00	-2.257076e+00	-2.965330e+00	0
## 3360	-2.580059e+00	-2.872198e+00	-2.572562e+00	-2.303897e+00	0
## 3381	-2.018167e+00	-1.151286e+00	-2.051768e+00	-3.587706e+00	0
## 3402	-7.345101e-01	7.650203e-01	-8.231507e-01	1.174136e+03	0
## 3423	-1.498323e+00	-1.620937e-01	-1.557490e+00	-6.481768e+00	0
## 3444	-1.509472e+00	-1.854988e-01	-1.573023e+00	-6.358953e+00	0
## 3465	-7.169497e-01	7.811368e-01	-8.069356e-01	2.481615e+02	0
## 3486	-1.057950e+00	4.215299e-01	-1.140417e+00	-1.619895e+01	0
## 3507	-2.575757e+00	-2.846560e+00	-2.566265e+00	-2.312519e+00	0
## 3528	-2.149937e+00	-1.470743e+00	-2.172689e+00	-3.197505e+00	0
## 3549	-1.220847e+00	2.252299e-01	-1.294835e+00	-1.055254e+01	0
## 3570	-2.614303e+00	-3.010984e+00	-2.603324e+00	-2.251006e+00	0
## 3591	-1.616959e+00	-3.601375e-01	-1.675338e+00	-5.504873e+00	0
## 3612	1.739475e+00	2.170072e+00	1.694320e+00	2.794408e+00	0

## 3633	-3.984029e+00	-3.237463e+01	-3.842619e+00	-1.036525e+00	0
## 3654	3.809128e+00	2.689484e+00	3.971404e+00	1.805438e+00	0
## 3675	-4.723246e+00	3.478357e+01	-4.490365e+00	-7.283540e-01	0
## 3696	-2.450715e+00	-2.371910e+00	-2.449225e+00	-2.528500e+00	0
## 3717	-1.292624e+00	1.299807e-01	-1.364696e+00	-9.096802e+00	0
## 3738	-2.463503e+00	-2.428223e+00	-2.464688e+00	-2.501998e+00	4
## 3759	-2.686634e+00	-3.331681e+00	-2.670396e+00	-2.143853e+00	0
## 3780	-7.941613e-01	7.046737e-01	-8.843771e-01	-9.496644e+01	0
## 3801	-1.097428e+00	3.788242e-01	-1.174505e+00	-1.442553e+01	0
## 3822	-7.441320e+00	8.231061e+00	-6.696693e+00	-1.839820e-01	0
## 3843	-2.249984e+01	4.895006e+00	-1.646448e+01	3.737014e-01	0
## 3864	-2.438107e+00	-2.341706e+00	-2.442105e+00	-2.547919e+00	0
## 3885	2.328506e+01	3.766084e+00	3.839336e+01	8.447311e-01	0
## 3906	-2.034317e+00	-1.185472e+00	-2.065085e+00	-3.537908e+00	0
## 3927	-2.529592e+00	-2.677471e+00	-2.527277e+00	-2.385411e+00	0
## 3948	-4.606771e+00	4.922790e+01	-4.376267e+00	-7.714975e-01	0
## 3969	-6.371851e-01	8.550885e-01	-7.291860e-01	5.373185e+01	0
## 3990	-2.429896e+00	-2.311105e+00	-2.433758e+00	-2.563979e+00	0
## 4011	-2.319482e+00	-1.949423e+00	-2.330243e+00	-2.787818e+00	0
## 4032	-2.186141e+00	-1.569511e+00	-2.207669e+00	-3.100450e+00	0
## 4053	-2.604728e+00	-2.975581e+00	-2.595804e+00	-2.264810e+00	0
## 4074	-2.515661e+00	-2.617107e+00	-2.512186e+00	-2.410795e+00	0
## 4095	-2.677396e+00	-3.277426e+00	-2.658911e+00	-2.159089e+00	0
## 4116	-2.287062e+00	-1.854788e+00	-2.301373e+00	-2.857969e+00	0
## 4137	8.226727e-01	1.806507e+00	7.353874e-01	4.071117e+00	0
## 4158	-2.894812e+00	-4.416702e+00	-2.858806e+00	-1.877837e+00	0
## 4179	3.327285e+01	3.886651e+00	7.697523e+01	7.785972e-01	0
## 4200	-2.149437e+00	-1.471673e+00	-2.173232e+00	-3.197592e+00	0
## 4221	-5.876654e+00	1.225326e+01	-5.447498e+00	-4.275855e-01	0
## 4242	-1.733623e-01	1.230403e+00	-2.700859e-01	1.014105e+01	0
## 4263	-1.047893e+01	6.229109e+00	-9.020845e+00	6.822554e-02	0
## 4284	-2.891974e+00	-4.400710e+00	-2.856412e+00	-1.881026e+00	0
## 4305	-1.968911e+00	-1.036455e+00	-2.004053e+00	-3.758751e+00	0
## 4326	-1.508405e+00	-1.793508e-01	-1.568408e+00	-6.383203e+00	0
## 4347	-6.797499e+00	9.298321e+00	-6.178125e+00	-2.700201e-01	0
## 4368	-4.366981e+00	3.692652e+02	-4.166903e+00	-8.639195e-01	0
## 4389	-6.749848e-01	8.205719e-01	-7.658631e-01	8.511452e+01	0
## 4410	-2.032586e+00	-1.181391e+00	-2.063457e+00	-3.543486e+00	0
## 4431	-9.512821e+00	6.609102e+00	-8.303401e+00	7.018227e-03	0
## 4452	-2.065779e+00	-1.271324e+00	-2.099844e+00	-3.431752e+00	0
## 4473	2.227619e+00	2.323082e+00	2.218656e+00	2.436030e+00	0
## 4494	-1.191240e+00	2.618762e-01	-1.267369e+00	-1.127237e+01	0
## 4515	-3.222836e+01	4.657957e+00	-2.104151e+01	4.500141e-01	0
## 4536	-5.522379e+00	1.464925e+01	-5.152162e+00	-5.052653e-01	0
## 4557	-1.073554e+02	4.337157e+00	-3.810199e+01	5.698492e-01	0
## 4578	-2.996112e+00	-5.077248e+00	-2.951833e+00	-1.765163e+00	0
## 4599	-8.197950e+00	7.427432e+00	-7.302533e+00	-1.014227e-01	0
## 4620	-3.566735e+00	-1.206123e+01	-3.467250e+00	-1.282828e+00	0
## 4641	-6.329832e+00	1.041658e+01	-5.824151e+00	-3.422417e-01	0
## 4662	-2.338011e+00	-2.003915e+00	-2.346385e+00	-2.749324e+00	0
## 4683	1.815078e+01	3.663386e+00	2.613398e+01	9.056718e-01	0
## 4704	5.289076e+00	2.924064e+00	5.707269e+00	1.514573e+00	0
## 4725	-1.931202e+00	-9.476590e-01	-1.965147e+00	-3.903433e+00	0
## 4746	-7.432029e+00	8.233890e+00	-6.695757e+00	-1.846574e-01	0

## 4767	-1.201320e+00	2.514550e-01	-1.274696e+00	-1.103939e+01	0
## 4788	-3.789543e+00	-1.871660e+01	-3.663320e+00	-1.144321e+00	0
## 4809	-1.618605e+00	-3.598949e-01	-1.674686e+00	-5.500326e+00	0
## 4830	-3.053723e+00	-5.505865e+00	-3.005442e+00	-1.705095e+00	0
## 4851	-1.905571e+00	-8.971498e-01	-1.943326e+00	-3.998901e+00	0
## 4872	-1.811686e+01	5.114107e+00	-1.399446e+01	3.109757e-01	0
## 4893	-1.165801e+00	2.947908e-01	-1.241692e+00	-1.199571e+01	0
## 4914	-2.866491e+00	-4.236844e+00	-2.830482e+00	-1.912561e+00	0
## 4935	-1.863100e-01	1.220741e+00	-2.837166e-01	1.036926e+01	0
## 4956	-2.429763e+00	-2.310996e+00	-2.433752e+00	-2.564127e+00	0
## 4977	4.117962e+00	2.745389e+00	4.326931e+00	1.730004e+00	0
## 4998	-2.617690e+00	-3.023964e+00	-2.606085e+00	-2.246081e+00	0
## 5019	-2.374906e+00	-2.128155e+00	-2.383086e+00	-2.670873e+00	0
## 5040	-3.406439e+00	-9.188992e+00	-3.320830e+00	-1.398404e+00	0
## 5061	-1.596265e+01	5.279304e+00	-1.270273e+01	2.673127e-01	0
## 5082	1.805529e+00	2.191576e+00	1.764046e+00	2.738374e+00	0
## 5103	-3.779766e+00	-1.829531e+01	-3.654302e+00	-1.150103e+00	0
## 5124	-5.882680e+00	1.222299e+01	-5.452308e+00	-4.263773e-01	0
## 5145	-7.966665e+00	7.625563e+00	-7.129328e+00	-1.241718e-01	0
## 5166	-2.286733e+00	-1.853364e+00	-2.300892e+00	-2.858892e+00	0
## 5187	-2.275516e+00	-1.818954e+00	-2.289961e+00	-2.884849e+00	0
## 5208	-2.984803e+00	-4.984139e+00	-2.939126e+00	-1.778442e+00	0
## 5229	-1.912219e+01	5.054344e+00	-1.456245e+01	3.277239e-01	0
## 5250	-2.058314e+00	-1.244671e+00	-2.088622e+00	-3.460686e+00	0
## 5271	-2.444897e-01	1.178316e+00	-3.411244e-01	1.151323e+01	0
## 5292	-2.964162e+00	-4.842884e+00	-2.919949e+00	-1.800942e+00	0
## 5313	4.829697e+00	2.862487e+00	5.181044e+00	1.586625e+00	0
## 5334	-1.779804e+00	-6.450516e-01	-1.824698e+00	-4.558037e+00	0
## 5355	7.408965e-02	1.397291e+00	-2.466577e-02	7.249637e+00	0
## 5376	2.954008e+00	2.511027e+00	3.011819e+00	2.079402e+00	0
## 5397	-2.553738e+00	-2.761197e+00	-2.546600e+00	-2.347671e+00	0
## 5418	1.697664e+00	2.155951e+00	1.650010e+00	2.831665e+00	0
## 5439	-4.697695e+00	3.808323e+01	-4.454298e+00	-7.395599e-01	0
## 5460	-2.111666e+00	-1.373990e+00	-2.137563e+00	-3.303247e+00	0
## 5481	-2.534422e+00	-2.697419e+00	-2.532141e+00	-2.376999e+00	0
## 5502	-4.697377e-01	1.000975e+00	-5.643399e-01	2.064188e+01	0
## 5523	-1.033782e+00	4.538046e-01	-1.111886e+00	-1.771034e+01	0
## 5544	2.878731e-01	1.528517e+00	1.932999e-01	5.863686e+00	0
## 5565	-3.851663e-01	1.070370e+00	-4.799226e-01	1.583577e+01	0
## 5586	-2.469030e+00	-2.444893e+00	-2.468810e+00	-2.492851e+00	4
## 5607	1.069641e+01	3.387758e+00	1.293012e+01	1.092147e+00	0
## 5628	-2.352265e+00	-2.056215e+00	-2.362357e+00	-2.716843e+00	0
## 5649	-7.207202e+00	8.491340e+00	-6.552763e+00	-2.100967e-01	0
## 5670	5.968714e+00	3.008849e+00	6.533131e+00	1.424178e+00	0
## 5691	-4.807442e+00	3.028819e+01	-4.548234e+00	-7.029020e-01	0
## 5712	-2.431064e+00	-2.316966e+00	-2.435457e+00	-2.561234e+00	0
## 5733	-1.812038e+00	-7.105993e-01	-1.857220e+00	-4.397814e+00	0
## 5754	-2.425730e+00	-2.294602e+00	-2.429155e+00	-2.572517e+00	0
## 5775	-2.597191e+00	-2.942232e+00	-2.588307e+00	-2.276935e+00	0
## 5796	-1.806746e+00	-6.973079e-01	-1.850381e+00	-4.426662e+00	0
## 5817	-9.505099e+00	6.592387e+00	-8.334584e+00	8.056013e-03	0
## 5838	-6.445638e+00	1.007167e+01	-5.920494e+00	-3.225308e-01	0
## 5859	-3.356129e+00	-8.556939e+00	-3.280629e+00	-1.435346e+00	0
## 5880	-3.090179e+00	-5.838200e+00	-3.044751e+00	-1.666057e+00	0



## 5901	2.517699e+00	2.399674e+00	2.524472e+00	2.277026e+00	0
## 5922	-3.668036e+00	-1.449392e+01	-3.555001e+00	-1.217741e+00	0
## 5943	-3.819112e+00	-1.983320e+01	-3.684762e+00	-1.128714e+00	0
## 5964	-1.889459e+00	-8.652430e-01	-1.929222e+00	-4.061711e+00	0
## 5985	1.016889e+01	3.358377e+00	1.217191e+01	1.114688e+00	0
## 6006	-2.939992e+00	-4.702958e+00	-2.900965e+00	-1.825958e+00	0
## 6027	-2.976183e+00	-4.941018e+00	-2.933818e+00	-1.786384e+00	0
## 6048	-1.496452e+00	-1.574718e-01	-1.554298e+00	-6.505265e+00	0
## 6069	-1.542850e+01	5.320832e+00	-1.243579e+01	2.556827e-01	0
## 6090	-5.052514e-01	9.713791e-01	-5.989070e-01	2.367108e+01	0
## 6111	-1.854575e+00	-7.997778e-01	-1.900024e+00	-4.201062e+00	0
## 6132	-2.559811e+00	-2.790002e+00	-2.553604e+00	-2.336678e+00	0
## 6153	1.107232e+01	3.408633e+00	1.351318e+01	1.076893e+00	0
## 6174	-5.709065e+00	1.323238e+01	-5.308257e+00	-4.629431e-01	0
## 6195	-3.099560e+00	-5.860140e+00	-3.045860e+00	-1.660434e+00	0
## 6216	-2.077293e+00	-1.295458e+00	-2.108695e+00	-3.399575e+00	0
## 6237	-2.155126e+00	-1.485195e+00	-2.177932e+00	-3.183001e+00	0
## 6258	-3.017030e+00	-5.229443e+00	-2.971466e+00	-1.742919e+00	0
## 6279	-2.551112e+00	-2.754997e+00	-2.545376e+00	-2.351050e+00	0
## 6300	-1.506683e+00	-1.814617e-01	-1.570618e+00	-6.383260e+00	0
## 6321	-1.617373e+00	-3.558968e-01	-1.672107e+00	-5.513330e+00	0
## 6342	-1.520669e+00	-2.003320e-01	-1.581526e+00	-6.267555e+00	0
## 6363	-2.370425e+00	-2.111008e+00	-2.377988e+00	-2.680816e+00	0
## 6384	7.235982e+00	3.151641e+00	8.283094e+00	1.291882e+00	0
## 6405	-2.452259e+00	-2.388814e+00	-2.454422e+00	-2.522397e+00	4
## 6426	-2.225363e+00	-1.675834e+00	-2.243577e+00	-3.002920e+00	0
## 6447	-1.646650e+00	-4.073779e-01	-1.701053e+00	-5.311876e+00	0
## 6468	-4.140812e+00	-6.507274e+01	-3.983383e+00	-9.594490e-01	0
## 6489	-1.169140e+00	2.899459e-01	-1.245647e+00	-1.188841e+01	0
## 6510	-1.431477e+00	-6.393703e-02	-1.496022e+00	-7.157172e+00	0
## 6531	-7.528829e+00	8.097744e+00	-6.782477e+00	-1.724717e-01	0
## 6552	-2.717360e+00	-3.474408e+00	-2.698297e+00	-2.101072e+00	0
## 6573	-8.889220e+00	6.942712e+00	-7.826973e+00	-4.036162e-02	0
## 6594	-5.966470e-01	8.919577e-01	-6.888051e-01	3.849226e+01	0
## 6615	-4.446258e+00	1.111236e+02	-4.238523e+00	-8.315868e-01	0
## 6636	8.448615e+00	3.243164e+00	9.752288e+00	1.207158e+00	0
## 6657	5.713119e+00	2.979719e+00	6.233277e+00	1.455248e+00	0
## 6678	-4.389084e+00	2.365185e+02	-4.183343e+00	-8.554973e-01	0
## 6699	-2.452627e+00	-2.393170e+00	-2.455763e+00	-2.520858e+00	4
## 6720	-8.087604e+00	7.526980e+00	-7.212087e+00	-1.125651e-01	0
## 6741	-3.467299e+00	-1.019353e+01	-3.379225e+00	-1.351940e+00	0
## 6762	-1.883578e+00	-8.548544e-01	-1.924747e+00	-4.083798e+00	0
## 6783	-1.413222e+00	-3.664592e-02	-1.478136e+00	-7.370211e+00	0
## 6804	-3.299162e+00	-7.801552e+00	-3.225051e+00	-1.482858e+00	0
## 6825	-2.617249e+00	-3.032298e+00	-2.608421e+00	-2.244769e+00	0
## 6846	-2.190629e+00	-1.580512e+00	-2.211360e+00	-3.089524e+00	0
## 6867	-2.499164e+00	-2.564098e+00	-2.499614e+00	-2.437058e+00	4
## 6888	-9.310667e-01	5.666490e-01	-1.013231e+00	-2.751128e+01	0
## 6909	2.514790e-01	1.507248e+00	1.566781e-01	6.055957e+00	0
## 6930	4.293298e+00	2.775754e+00	4.533099e+00	1.691064e+00	0
## 6951	-4.370040e+00	3.163846e+02	-4.172329e+00	-8.620884e-01	0
## 6972	-9.200669e+00	6.755587e+00	-8.081640e+00	-1.510599e-02	0
## 6993	-6.994983e-01	7.989763e-01	-7.878852e-01	1.351158e+02	0
## 7014	-1.682467e+00	-4.727355e-01	-1.736958e+00	-5.081266e+00	0

## 7035	-4.737028e+00	3.482754e+01	-4.487707e+00	-7.262423e-01	0
## 7056	2.361587e+01	3.772082e+00	3.942834e+01	8.414961e-01	0
## 7077	9.823538e-01	1.878947e+00	9.008461e-01	3.750547e+00	0
## 7098	-1.692474e+00	-4.859738e-01	-1.743296e+00	-5.029844e+00	0
## 7119	-2.113226e-01	1.202186e+00	-3.094002e-01	1.083782e+01	0
## 7140	-2.906925e+00	-4.479908e+00	-2.867974e+00	-1.864896e+00	0
## 7161	-1.006825e+00	4.823312e-01	-1.088112e+00	-1.948750e+01	0
## 7182	1.590928e+00	2.119866e+00	1.537074e+00	2.932264e+00	0
## 7203	-4.823848e-01	9.905162e-01	-5.766214e-01	2.162377e+01	0
## 7224	-7.003053e+00	8.837640e+00	-6.377914e+00	-2.380474e-01	0
## 7245	-8.553895e+00	7.157529e+00	-7.574643e+00	-6.859758e-02	0
## 7266	-2.251001e+00	-1.746060e+00	-2.266451e+00	-2.942517e+00	0
## 7287	-2.925278e+00	-4.549740e+00	-2.876894e+00	-1.848254e+00	0
## 7308	-2.091704e+00	-1.331973e+00	-2.122644e+00	-3.356119e+00	0
## 7329	-3.325588e+00	-8.124421e+00	-3.249424e+00	-1.461109e+00	0
## 7350	-2.546073e+00	-2.734556e+00	-2.540513e+00	-2.359513e+00	0
## 7371	1.076321e+00	1.919532e+00	9.982629e-01	3.588480e+00	0
## 7392	-1.009336e+00	4.796570e-01	-1.090368e+00	-1.930621e+01	0
## 7413	-3.204423e+00	-6.793469e+00	-3.140013e+00	-1.563619e+00	0
## 7434	-1.635279e+00	-3.857832e-01	-1.688757e+00	-5.391718e+00	0
## 7455	-7.109738e-01	7.879524e-01	-7.994030e-01	1.899744e+02	0
## 7476	-8.598051e-01	6.409699e-01	-9.446933e-01	-4.408419e+01	0
## 7497	-2.351083e-01	1.184862e+00	-3.326651e-01	1.131761e+01	0
## 7518	-7.522930e+00	8.108778e+00	-6.774993e+00	-1.733523e-01	0
## 7539	-5.108687e-01	9.672442e-01	-6.033525e-01	2.419299e+01	0
## 7560	-1.153573e+00	3.064571e-01	-1.233540e+00	-1.231865e+01	0
## 7581	-2.211766e+00	-1.642350e+00	-2.232752e+00	-3.034280e+00	0
## 7602	-1.226034e+01	5.787781e+00	-1.023522e+01	1.525070e-01	0
## 7623	-1.706260e+00	-5.140142e-01	-1.758626e+00	-4.943322e+00	0
## 7644	-1.741838e+00	-5.779281e-01	-1.791539e+00	-4.747764e+00	0
## 7665	-2.666161e+00	-3.239440e+00	-2.651778e+00	-2.173121e+00	0
## 7686	-2.942641e+00	-4.719161e+00	-2.903233e+00	-1.823092e+00	0
## 7707	9.422875e+01	4.091404e+00	-1.542861e+02	6.768695e-01	0
## 7728	-3.079966e+00	-5.696052e+00	-3.027263e+00	-1.679946e+00	0
## 7749	-2.236217e+00	-1.708845e+00	-2.254705e+00	-2.975488e+00	0
## 7770	-4.729239e+00	3.461689e+01	-4.491707e+00	-7.269964e-01	0
## 7791	-2.888035e+00	-4.385812e+00	-2.854438e+00	-1.884709e+00	0
## 7812	-1.196542e+00	2.576169e-01	-1.269974e+00	-1.116272e+01	0
## 7833	1.066316e+00	1.915243e+00	9.887327e-01	3.604641e+00	0
## 7854	-3.418986e+00	-9.331099e+00	-3.328998e+00	-1.390082e+00	0
## 7875	-4.914844e-01	9.847317e-01	-5.823643e-01	2.228104e+01	0
## 7896	-1.956475e+00	-1.010197e+00	-1.993060e+00	-3.802378e+00	0
## 7917	-1.406323e+00	-3.077130e-02	-1.475164e+00	-7.433528e+00	0
## 7938	-1.734281e+01	5.160043e+00	-1.360366e+01	2.975567e-01	0
## 7959	-2.278699e+00	-1.839230e+00	-2.297234e+00	-2.873030e+00	0
## 7980	-3.709892e+00	-1.573908e+01	-3.591635e+00	-1.191991e+00	0
## 8001	-5.384874e+00	1.610142e+01	-5.029116e+00	-5.396136e-01	0
## 8022	-1.631495e+01	5.246381e+00	-1.293377e+01	2.755210e-01	0
## 8043	3.385034e+00	2.605981e+00	3.492220e+00	1.927072e+00	0
## 8064	-3.447466e+00	-1.018994e+01	-3.382651e+00	-1.358777e+00	0
## 8085	5.470714e-01	1.670611e+00	4.542078e-01	4.809880e+00	0
## 8106	7.497139e-01	1.771899e+00	6.603585e-01	4.240357e+00	0
## 8127	-1.164273e+01	5.922461e+00	-9.802920e+00	1.258277e-01	0
## 8148	4.140942e-01	1.599347e+00	3.190175e-01	5.293048e+00	0

## 8169	-2.668138e+00	-3.251229e+00	-2.654328e+00	-2.169750e+00	0
## 8190	-2.293042e+00	-1.871906e+00	-2.306654e+00	-2.844861e+00	0
## 8211	-2.885784e+00	-4.371284e+00	-2.852177e+00	-1.887455e+00	0
## 8232	-4.111554e+00	-5.246342e+01	-3.946798e+00	-9.757673e-01	0
## 8253	8.788384e-01	1.832575e+00	7.943954e-01	3.950611e+00	0
## 8274	-5.448517e+00	1.510949e+01	-5.113272e+00	-5.199488e-01	0
## 8295	-2.359439e+00	-2.082733e+00	-2.370341e+00	-2.700781e+00	0
## 8316	-2.278540e+00	-1.828785e+00	-2.293143e+00	-2.877565e+00	0
## 8337	-4.307491e+00	-5.310327e+02	-4.117577e+00	-8.881607e-01	0
## 8358	-3.316250e+00	-7.992701e+00	-3.239398e+00	-1.469306e+00	0
## 8379	2.086952e-02	1.363079e+00	-7.737236e-02	7.712044e+00	0
## 8400	-1.950830e+00	-9.979988e-01	-1.987869e+00	-3.822806e+00	0
## 8421	-2.492983e+00	-2.536356e+00	-2.492380e+00	-2.449096e+00	4
## 8442	-7.451034e-01	7.549852e-01	-8.332749e-01	-9.103133e+02	0
## 8463	-1.222413e+01	5.782731e+00	-1.025749e+01	1.523120e-01	0
## 8484	-3.201492e+00	-6.768031e+00	-3.137723e+00	-1.566067e+00	0
## 8505	-1.762345e+00	-6.180137e-01	-1.812085e+00	-4.637466e+00	0
## 8526	2.350056e+01	3.769690e+00	3.900781e+01	8.427028e-01	0
## 8547	-1.844355e+00	-7.753265e-01	-1.888101e+00	-4.250208e+00	0
## 8568	2.368509e-01	1.498819e+00	1.426564e-01	6.135852e+00	0
## 8589	-1.859959e+00	-8.134407e-01	-1.906707e+00	-4.174781e+00	0
## 8610	-1.018121e+01	6.338586e+00	-8.788618e+00	5.020391e-02	0
## 8631	-2.277528e+00	-1.828997e+00	-2.293468e+00	-2.878525e+00	0
## 8652	-3.709483e+00	-1.566545e+01	-3.589260e+00	-1.192854e+00	0
## 8673	-3.348581e+00	-8.379420e+00	-3.267197e+00	-1.443876e+00	0
## 8694	-4.986065e-01	9.776568e-01	-5.912374e-01	2.299050e+01	0
## 8715	1.145239e+00	1.948447e+00	1.069566e+00	3.479983e+00	0
## 8736	-2.355935e+01	4.861226e+00	-1.695403e+01	3.845991e-01	0
## 8757	-1.878847e+00	-8.433131e-01	-1.919269e+00	-4.105271e+00	0
## 8778	-2.376557e+00	-2.120905e+00	-2.380114e+00	-2.671798e+00	0
## 8799	5.542783e+00	2.957508e+00	6.017012e+00	1.478328e+00	0
## 8820	-1.921890e+00	-9.299218e-01	-1.957630e+00	-3.936933e+00	0
## 8841	-2.113791e+00	-1.382450e+00	-2.141001e+00	-3.295264e+00	0
## 8862	-2.713025e+00	-3.471391e+00	-2.698509e+00	-2.104299e+00	0
## 8883	-9.070200e-01	5.913172e-01	-9.910833e-01	-3.145505e+01	0
## 8904	-2.197281e+00	-1.627327e+00	-2.229877e+00	-3.058175e+00	0
## 8925	-7.860475e+00	7.755795e+00	-7.022121e+00	-1.367919e-01	0
## 8946	1.450628e+01	3.555497e+00	1.909691e+01	9.741696e-01	0
## 8967	-2.146645e+00	-1.463196e+00	-2.170080e+00	-3.205857e+00	0
## 8988	-1.357178e+00	4.088028e-02	-1.426890e+00	-8.080605e+00	0
## 9009	-2.306929e+00	-1.915598e+00	-2.320284e+00	-2.813398e+00	0
## 9030	-9.232729e+00	6.743496e+00	-8.098309e+00	-1.304081e-02	0
## 9051	-7.770139e+00	7.829375e+00	-6.968375e+00	-1.454720e-01	0
## 9072	-2.060404e+00	-1.249267e+00	-2.090365e+00	-3.454531e+00	0
## 9093	-1.269376e+01	5.698487e+00	-1.056293e+01	1.703087e-01	0
## 9114	-3.187181e+00	-6.618635e+00	-3.123435e+00	-1.579459e+00	0
## 9135	-1.281514e+00	1.426645e-01	-1.356158e+00	-9.278698e+00	0
## 9156	-2.208978e+00	-1.628607e+00	-2.227586e+00	-3.044189e+00	0
## 9177	-3.125685e+00	-6.072657e+00	-3.068717e+00	-1.635809e+00	0
## 9198	-1.602009e+00	-3.334905e-01	-1.659992e+00	-5.614609e+00	0
## 9219	-1.226714e+00	2.218315e-01	-1.296313e+00	-1.045951e+01	0
## 9240	-2.695484e+00	-3.378303e+00	-2.679910e+00	-2.130405e+00	0
## 9261	-1.047543e+01	6.229254e+00	-9.020790e+00	6.811570e-02	0
## 9282	1.410803e+00	2.053670e+00	1.346782e+00	3.126469e+00	0

## 9303	-3.117352e+00	-5.998642e+00	-3.060740e+00	-1.643924e+00	0
## 9324	-2.147122e+00	-1.464697e+00	-2.170644e+00	-3.204412e+00	0
## 9345	-2.952406e+00	-4.785104e+00	-2.912561e+00	-1.812067e+00	0
## 9366	-3.133901e+00	-6.144261e+00	-3.076270e+00	-1.628006e+00	0
## 9387	-9.815245e-01	5.104925e-01	-1.063646e+00	-2.158410e+01	0
## 9408	-1.330089e+00	7.639013e-02	-1.402980e+00	-8.465279e+00	0
## 9429	-1.921100e+00	-9.359317e-01	-1.961217e+00	-3.932348e+00	0
## 9450	-3.881199e+00	-2.297043e+01	-3.736900e+00	-1.094859e+00	0
## 9471	-3.007188e+00	-5.150990e+00	-2.961256e+00	-1.753827e+00	0
## 9492	-2.425957e+00	-2.295898e+00	-2.429540e+00	-2.571931e+00	0
## 9513	-2.500091e+00	-2.578485e+00	-2.503849e+00	-2.432688e+00	0
## 9534	4.699454e+00	2.840739e+00	5.010824e+00	1.610978e+00	0
## 9555	-1.929395e+00	-9.503696e-01	-1.967132e+00	-3.903893e+00	0
## 9576	-8.642422e+00	7.097420e+00	-7.641725e+00	-6.089978e-02	0
## 9597	-1.901518e+00	-8.896107e-01	-1.940079e+00	-4.013994e+00	0
## 9618	-6.300285e-01	8.615492e-01	-7.222300e-01	5.024110e+01	0
## 9639	-5.499041e+00	1.491557e+01	-5.126508e+00	-5.115640e-01	0
## 9660	-1.298555e+00	1.232830e-01	-1.369154e+00	-9.003170e+00	0
## 9681	6.667925e+00	3.087474e+00	7.431866e+00	1.347432e+00	0
## 9702	-3.006497e+00	-5.152254e+00	-2.961592e+00	-1.754063e+00	0
## 9723	-1.217927e+00	2.295187e-01	-1.291476e+00	-1.062632e+01	0
## 9744	1.853780e+00	2.207966e+00	1.815994e+00	2.698485e+00	0
## 9765	-1.985571e+00	-1.076121e+00	-2.020932e+00	-3.698200e+00	0
## 9786	1.103155e+02	4.109098e+00	-1.246068e+02	6.686549e-01	0
## 9807	-1.896420e+00	-8.795743e-01	-1.935659e+00	-4.033737e+00	0
## 9828	-6.053737e+00	1.139286e+01	-5.601391e+00	-3.918636e-01	0
## 9849	-8.495628e-01	6.483249e-01	-9.389290e-01	-4.746148e+01	0
## 9870	-1.238215e+00	2.046086e-01	-1.309749e+00	-1.018068e+01	0
## 9891	-2.540465e+00	-2.713560e+00	-2.535576e+00	-2.368615e+00	0
## 9912	-1.930732e+00	-9.525347e-01	-1.967991e+00	-3.899504e+00	0
## 9933	-2.341772e+00	-2.023329e+00	-2.352710e+00	-2.738620e+00	0
## 9954	-1.351076e+00	5.245002e-02	-1.418300e+00	-8.184691e+00	0
## 9975	-2.355489e+00	-2.064525e+00	-2.364641e+00	-2.710864e+00	0
## 9996	2.618007e-01	1.512997e+00	1.660246e-01	6.002033e+00	0
## 10017	-1.813341e+00	-7.158590e-01	-1.860127e+00	-4.388169e+00	0
## 10038	-9.421984e-01	5.547154e-01	-1.023978e+00	-2.596825e+01	0
## 10059	-1.654262e+00	-4.200628e-01	-1.707940e+00	-5.263482e+00	0
## 10080	-4.150132e+00	-6.438929e+01	-3.980005e+00	-9.578411e-01	0
## 10101	-1.708271e+00	-5.141435e-01	-1.758152e+00	-4.937934e+00	0
## 10122	-2.291099e+00	-1.865220e+00	-2.304503e+00	-2.849563e+00	0
## 10143	-3.391710e+00	-8.920240e+00	-3.303085e+00	-1.411337e+00	0
## 10164	-1.748711e+00	-5.917133e-01	-1.798705e+00	-4.709621e+00	0
## 10185	-1.134929e+00	3.284806e-01	-1.216437e+00	-1.291288e+01	0
## 10206	-8.951838e+00	6.885436e+00	-7.904129e+00	-3.388890e-02	0
## 10227	1.362296e-01	1.436033e+00	3.643788e-02	6.782066e+00	0
## 10248	-6.860884e+00	9.113678e+00	-6.255553e+00	-2.586428e-01	0
## 10269	-1.557865e+00	-2.595899e-01	-1.616932e+00	-5.954580e+00	0
## 10290	-1.860601e+00	-8.067817e-01	-1.902584e+00	-4.181242e+00	0
## 10311	-2.631355e+00	-3.081582e+00	-2.618483e+00	-2.225480e+00	0
## 10332	-3.799536e+00	-1.904518e+01	-3.669672e+00	-1.139273e+00	0
## 10353	-3.691688e+00	-1.518046e+01	-3.575803e+00	-1.203072e+00	0
## 10374	-5.838194e+00	1.243783e+01	-5.419270e+00	-4.350830e-01	0
## 10395	-2.524228e+00	-2.652093e+00	-2.520862e+00	-2.395617e+00	0
## 10416	-4.129096e+00	-5.686646e+01	-3.960320e+00	-9.679424e-01	0

## 10437	-1.829496e+00	-7.449460e-01	-1.873656e+00	-4.317497e+00	0
## 10458	3.553859e+00	2.639978e+00	3.680651e+00	1.875980e+00	0
## 10479	-1.410588e+00	-3.249216e-02	-1.475342e+00	-7.403047e+00	0
## 10500	-2.804623e+00	-3.902836e+00	-2.775697e+00	-1.987514e+00	0
## 10521	1.722143e-01	1.458939e+00	7.468473e-02	6.533493e+00	0
## 10542	-4.967712e-02	1.317322e+00	-1.449444e-01	8.425082e+00	0
## 10563	-2.369551e+00	-2.109984e+00	-2.377823e+00	-2.681974e+00	0
## 10584	2.467325e+00	2.389003e+00	2.476958e+00	2.300893e+00	0
## 10605	-1.302693e+01	5.631617e+00	-1.083405e+01	1.836333e-01	0
## 10626	-1.857022e+00	-8.020489e-01	-1.900723e+00	-4.193660e+00	0
## 10647	-2.055649e+00	-1.234621e+00	-2.084319e+00	-3.471543e+00	0
## 10668	-2.581133e-01	1.167584e+00	-3.558393e-01	1.183296e+01	0
## 10689	-2.289399e+00	-1.862951e+00	-2.304018e+00	-2.852227e+00	0
## 10710	-3.708816e+00	-1.589751e+01	-3.597028e+00	-1.190717e+00	0
## 10731	-1.168859e+00	2.919307e-01	-1.243660e+00	-1.191836e+01	0
## 10752	-2.184835e+00	-1.565242e+00	-2.206126e+00	-3.104203e+00	0
## 10773	-4.510540e-01	1.016852e+00	-5.452068e-01	1.932245e+01	0
## 10794	-4.016451e+00	-3.514712e+01	-3.862166e+00	-1.022408e+00	0
## 10815	-2.332326e+00	-1.991224e+00	-2.342978e+00	-2.759506e+00	0
## 10836	-2.611132e+00	-2.997778e+00	-2.600443e+00	-2.255848e+00	0
## 10857	-1.806642e+00	-6.991246e-01	-1.851543e+00	-4.424446e+00	0
## 10878	-1.214890e+02	4.317770e+00	-4.035220e+01	5.767499e-01	0
## 10899	-1.413958e+00	-3.937365e-02	-1.480274e+00	-7.353979e+00	0
## 10920	-7.983559e+00	7.605204e+00	-7.146835e+00	-1.221736e-01	0
## 10941	-7.489519e-01	7.517045e-01	-8.364079e-01	-5.663884e+02	0
## 10962	-1.293749e+00	1.286949e-01	-1.365558e+00	-9.078782e+00	0
## 10983	-2.034575e+00	-1.196299e+00	-2.070486e+00	-3.529472e+00	0
## 11004	-1.750684e+00	-5.892891e-01	-1.796572e+00	-4.708761e+00	0
## 11025	-6.124127e-01	8.775015e-01	-7.048563e-01	4.329691e+01	0
## 11046	-3.467785e+00	-1.014061e+01	-3.375717e+00	-1.352995e+00	0
## 11067	-9.534670e+00	6.620938e+00	-8.280049e+00	6.845527e-03	0
## 11088	1.322632e+00	2.019571e+00	1.254830e+00	3.233837e+00	0
## 11109	-2.986541e+00	-5.004945e+00	-2.942152e+00	-1.775839e+00	0
## 11130	-2.966027e+00	-4.868679e+00	-2.923891e+00	-1.797732e+00	0
## 11151	-2.374956e+00	-2.124609e+00	-2.381808e+00	-2.672021e+00	0
## 11172	-1.481054e+00	-1.388601e-01	-1.543718e+00	-6.635618e+00	0
## 11193	-5.326690e+00	1.669554e+01	-4.988437e+00	-5.532103e-01	0
## 11214	-3.048636e+00	-5.468826e+00	-3.001062e+00	-1.710105e+00	0
## 11235	-2.840851e+00	-4.093555e+00	-2.807470e+00	-1.943283e+00	0
## 11256	6.158790e+00	3.031594e+00	6.778174e+00	1.401612e+00	0
## 11277	1.217920e+01	3.462892e+00	1.523312e+01	1.037732e+00	0
## 11298	-9.900032e-01	5.005106e-01	-1.072557e+00	-2.080838e+01	0
## 11319	-2.616659e+00	-3.021994e+00	-2.605779e+00	-2.247190e+00	0
## 11340	-3.168112e+00	-6.467673e+00	-3.109398e+00	-1.595331e+00	0
## 11361	3.098981e+00	2.543649e+00	3.170533e+00	2.024728e+00	0
## 11382	-3.205420e+00	-6.801378e+00	-3.140706e+00	-1.562824e+00	0
## 11403	-2.089154e+00	-1.317943e+00	-2.116566e+00	-3.368658e+00	0
## 11424	-1.026675e+01	6.310985e+00	-8.843896e+00	5.506656e-02	0
## 11445	-2.361485e+00	-2.083856e+00	-2.370273e+00	-2.698474e+00	0
## 11466	-1.039985e+00	4.438517e-01	-1.121205e+00	-1.724601e+01	0
## 11487	1.641222e+00	2.136474e+00	1.590242e+00	2.884113e+00	0
## 11508	2.117930e+01	3.727320e+00	3.274678e+01	8.667462e-01	0
## 11529	-1.950921e+00	-9.979727e-01	-1.987831e+00	-3.822680e+00	0
## 11550	-2.492079e+00	-2.532175e+00	-2.491277e+00	-2.450902e+00	4

## 11571	-1.326673e+00	8.379209e-02	-1.397213e+00	-8.535030e+00	0
## 11592	-2.410183e+00	-2.234387e+00	-2.412189e+00	-2.604587e+00	0
## 11613	-5.258819e-01	9.544547e-01	-6.180926e-01	2.584953e+01	0
## 11634	-1.133779e+00	3.336384e-01	-1.211284e+00	-1.301242e+01	0
## 11655	-5.797994e+00	1.266680e+01	-5.385254e+00	-4.435452e-01	0
## 11676	9.082349e+00	3.289898e+00	1.064149e+01	1.168993e+00	0
## 11697	-1.004564e+01	6.386348e+00	-8.695369e+00	4.211464e-02	0
## 11718	-1.171853e+00	2.886185e-01	-1.246119e+00	-1.183686e+01	0
## 11739	4.058662e+00	2.735313e+00	4.260259e+00	1.743532e+00	0
## 11760	2.786325e-01	1.522377e+00	1.814365e-01	5.916026e+00	0
## 11781	-2.185904e+00	-1.568318e+00	-2.207207e+00	-3.101348e+00	0
## 11802	-2.533923e+00	-2.699659e+00	-2.532917e+00	-2.376857e+00	0
## 11823	-1.344356e+01	5.575977e+00	-1.106893e+01	1.969411e-01	0
## 11844	-1.737591e+00	-5.721240e-01	-1.788880e+00	-4.767292e+00	0
## 11865	-1.335780e+00	7.035877e-02	-1.406735e+00	-8.390094e+00	0
## 11886	2.843118e+00	2.485707e+00	2.892546e+00	2.123827e+00	0
## 11907	-3.976836e+00	-3.072025e+01	-3.827016e+00	-1.042603e+00	0
## 11928	-1.106508e+00	3.687740e-01	-1.182445e+00	-1.406751e+01	0
## 11949	-3.089709e+00	-5.779248e+00	-3.036824e+00	-1.670055e+00	0
## 11970	-3.112198e+00	-5.975643e+00	-3.058736e+00	-1.647611e+00	0
## 11991	-7.823839e-01	7.187426e-01	-8.695222e-01	-1.242174e+02	0
## 12012	-1.757693e+00	-6.047499e-01	-1.804750e+00	-4.668375e+00	0
## 12033	2.974098e+01	3.847759e+00	5.854318e+01	7.981881e-01	0
## 12054	-1.325539e+00	8.767319e-02	-1.393968e+00	-8.567591e+00	0
## 12075	-9.299728e-01	5.666212e-01	-1.013677e+00	-2.757752e+01	0
## 12096	-4.554838e+00	5.933076e+01	-4.332901e+00	-7.901726e-01	0
## 12117	-9.129223e+00	6.801959e+00	-8.014392e+00	-2.114629e-02	0
## 12138	-6.110944e-01	8.787779e-01	-7.034151e-01	4.283528e+01	0
## 12159	-2.203053e+00	-1.615178e+00	-2.223284e+00	-3.057612e+00	0
## 12180	-1.399493e+00	-1.672579e-02	-1.465007e+00	-7.536478e+00	0
## 12201	-1.066001e+00	4.159550e-01	-1.143902e+00	-1.587953e+01	0
## 12222	-3.442558e+00	-9.706003e+00	-3.351272e+00	-1.372106e+00	0
## 12243	-6.347933e+02	4.232433e+00	-5.487770e+01	6.126912e-01	0
## 12264	-2.283686e+00	-1.838232e+00	-2.295658e+00	-2.868293e+00	0
## 12285	-7.207648e-01	7.761555e-01	-8.126430e-01	3.153590e+02	0
## 12306	-8.626087e-01	6.361347e-01	-9.499891e-01	-4.268407e+01	0
## 12327	-2.058196e+00	-1.246580e+00	-2.089595e+00	-3.459508e+00	0
## 12348	-4.438823e+00	1.191983e+02	-4.231350e+00	-8.346529e-01	0
## 12369	-3.391102e+00	-8.970384e+00	-3.307084e+00	-1.410088e+00	0
## 12390	-2.154777e+00	-1.484740e+00	-2.177813e+00	-3.183684e+00	0
## 12411	-2.750071e+00	-3.636254e+00	-2.728844e+00	-2.056405e+00	0
## 12432	9.014678e-03	1.355426e+00	-8.889568e-02	7.823211e+00	0
## 12453	-1.587071e+00	-3.070233e-01	-1.644535e+00	-5.728645e+00	0
## 12474	-3.304256e+00	-7.864973e+00	-3.229983e+00	-1.478537e+00	0
## 12495	-1.543465e+00	-2.343851e-01	-1.601610e+00	-6.078342e+00	0
## 12516	7.005491e+00	3.105124e+00	7.663447e+00	1.322830e+00	0
## 12537	-2.097500e-01	1.202580e+00	-3.094567e-01	1.081978e+01	0
## 12558	3.277932e+00	2.583726e+00	3.373566e+00	1.961645e+00	0
## 12579	-1.022264e+00	4.659136e-01	-1.101884e+00	-1.842523e+01	0
## 12600	9.461408e+00	3.314331e+00	1.115361e+01	1.148996e+00	0
## 12621	-2.590242e+00	-2.910538e+00	-2.581054e+00	-2.288458e+00	0
## 12642	-1.652187e+00	-4.157782e-01	-1.705478e+00	-5.278295e+00	0
## 12663	-3.801211e+00	-1.918597e+01	-3.672775e+00	-1.137844e+00	0
## 12684	-1.706745e+00	-5.129277e-01	-1.757752e+00	-4.943994e+00	0

## 12705	-1.201288e+00	2.499646e-01	-1.276232e+00	-1.102295e+01	0
## 12726	-2.021418e+00	-1.156961e+00	-2.053849e+00	-3.578489e+00	0
## 12747	-2.522117e+00	-2.642881e+00	-2.518556e+00	-2.399478e+00	0
## 12768	-2.003788e+00	-1.115652e+00	-2.037017e+00	-3.637527e+00	0
## 12789	-7.760634e+00	7.815479e+00	-6.981183e+00	-1.452305e-01	0
## 12810	-1.830311e+00	-7.453189e-01	-1.873665e+00	-4.315371e+00	0
## 12831	-8.606312e-01	6.377513e-01	-9.486248e-01	-4.329876e+01	0
## 12852	2.902097e-01	1.529199e+00	1.933921e-01	5.855954e+00	0
## 12873	-2.521231e+01	4.821532e+00	-1.757115e+01	3.987260e-01	0
## 12894	1.515073e+00	2.091674e+00	1.457110e+00	3.010763e+00	0
## 12915	-2.390238e+00	-2.174359e+00	-2.395901e+00	-2.641580e+00	0
## 12936	-1.335098e+00	7.462392e-02	-1.403018e+00	-8.420830e+00	0
## 12957	-1.384130e+00	5.586609e-03	-1.450093e+00	-7.732155e+00	0
## 12978	-5.107702e+00	1.998281e+01	-4.814865e+00	-6.103398e-01	0
## 12999	-4.950143e+00	2.424942e+01	-4.670921e+00	-6.579287e-01	0
## 13020	1.630373e+00	2.132354e+00	1.578707e+00	2.894720e+00	0
## 13041	1.891030e+00	2.220180e+00	1.855966e+00	2.668892e+00	0
## 13062	2.556923e+00	2.411922e+00	2.572404e+00	2.255846e+00	0
## 13083	-5.533226e+00	1.450468e+01	-5.166946e+00	-5.020018e-01	0
## 13104	-1.773872e+00	-6.373255e-01	-1.821371e+00	-4.582567e+00	0
## 13125	-3.827503e+00	-2.037032e+01	-3.695218e+00	-1.123096e+00	0
## 13146	-1.370593e+00	2.529781e-02	-1.436726e+00	-7.913845e+00	0
## 13167	2.430250e+00	2.378826e+00	2.436188e+00	2.320680e+00	1
## 13188	-3.796982e+00	-1.882051e+01	-3.664613e+00	-1.141553e+00	0
## 13209	-8.852032e-01	6.140873e-01	-9.701034e-01	-3.622277e+01	0
## 13230	-2.119591e+00	-1.396902e+00	-2.146306e+00	-3.278957e+00	0
## 13251	-3.113944e+00	-5.961605e+00	-3.056546e+00	-1.647692e+00	0
## 13272	-3.236118e+00	-7.108684e+00	-3.168209e+00	-1.536037e+00	0
## 13293	-2.095636e+00	-1.329533e+00	-2.120499e+00	-3.352464e+00	0
## 13314	-3.466528e+01	4.616606e+00	-2.222686e+01	4.632850e-01	0
## 13335	9.264264e-01	1.854085e+00	8.427211e-01	3.855841e+00	0
## 13356	-1.899466e+00	-8.899513e-01	-1.940815e+00	-4.017328e+00	0
## 13377	-3.963163e+00	-2.757356e+01	-3.792476e+00	-1.055575e+00	0
## 13398	-2.308115e+00	-1.914050e+00	-2.319410e+00	-2.812820e+00	0
## 13419	-3.726851e+00	-1.630003e+01	-3.606714e+00	-1.181687e+00	0
## 13440	-8.002351e-01	6.996993e-01	-8.888226e-01	-8.653209e+01	0
## 13461	-1.282705e+00	1.449067e-01	-1.353617e+00	-9.286437e+00	0
## 13482	-1.923568e+00	-9.382386e-01	-1.961866e+00	-3.925793e+00	0
## 13503	-2.133479e+00	-1.430389e+00	-2.158351e+00	-3.241292e+00	0
## 13524	-2.177300e+00	-1.543806e+00	-2.198573e+00	-3.124366e+00	0
## 13545	-5.434569e+00	1.541609e+01	-5.084752e+00	-5.255123e-01	0
## 13566	-1.985446e+00	-1.072097e+00	-2.018833e+00	-3.701788e+00	0
## 13587	-2.234439e+00	-1.710581e+00	-2.255849e+00	-2.976632e+00	0
## 13608	-2.895382e+00	-4.424570e+00	-2.860149e+00	-1.876717e+00	0
## 13629	-2.321509e+00	-1.957121e+00	-2.332684e+00	-2.782886e+00	0
## 13650	-3.016027e+00	-5.220270e+00	-2.970253e+00	-1.744113e+00	0
## 13671	-4.989663e+00	2.323209e+01	-4.698230e+00	-6.470384e-01	0
## 13692	-1.424359e+01	5.461667e+00	-1.162085e+01	2.225783e-01	0
## 13713	-2.233332e+00	-1.703711e+00	-2.253272e+00	-2.981029e+00	0
## 13734	-2.275765e+00	-1.826607e+00	-2.292939e+00	-2.881360e+00	0
## 13755	-1.302973e+00	1.174359e-01	-1.373273e+00	-8.928633e+00	0
## 13776	-2.341942e+00	-2.018782e+00	-2.350987e+00	-2.740110e+00	0
## 13797	-3.708203e+00	-1.573902e+01	-3.591930e+00	-1.192476e+00	0
## 13818	-2.135006e+00	-1.433947e+00	-2.159607e+00	-3.237283e+00	0

## 13839	-5.973605e+00	1.176505e+01	-5.530445e+00	-4.078734e-01	0
## 13860	-1.621588e+00	-3.628722e-01	-1.676009e+00	-5.484319e+00	0
## 13881	-1.881214e+00	-8.502651e-01	-1.922701e+00	-4.093202e+00	0
## 13902	1.116238e-01	1.421394e+00	1.384842e-02	6.954574e+00	0
## 13923	-1.085204e+01	6.116139e+00	-9.283296e+00	8.840641e-02	0
## 13944	6.195300e-01	1.707964e+00	5.288395e-01	4.585752e+00	0
## 13965	-2.690525e+00	-3.347633e+00	-2.673482e+00	-2.138663e+00	0
## 13986	-3.703472e+00	-1.552988e+01	-3.585764e+00	-1.195972e+00	0
## 14007	-4.916396e+00	2.545140e+01	-4.640825e+00	-6.684690e-01	0
## 14028	-3.964182e+00	-2.902783e+01	-3.810201e+00	-1.050617e+00	0
## 14049	-6.712427e+01	4.412432e+00	-3.160354e+01	5.396226e-01	0
## 14070	-1.285136e+00	1.422940e-01	-1.355340e+00	-9.247167e+00	0
## 14091	-2.272254e+00	-1.821050e+00	-2.291569e+00	-2.887362e+00	0
## 14112	-3.301465e+00	-7.823427e+00	-3.226656e+00	-1.481153e+00	0
## 14133	-1.785771e+00	-6.596279e-01	-1.832357e+00	-4.523959e+00	0
## 14154	-2.071190e+00	-1.273420e+00	-2.099509e+00	-3.422850e+00	0
## 14175	-3.235552e-01	1.116614e+00	-4.230658e-01	1.363137e+01	0
## 14196	-1.710684e-01	1.231366e+00	-2.693128e-01	1.011253e+01	0
## 14217	6.086282e+01	4.024118e+00	-2.465342e+03	7.082480e-01	0
## 14238	-2.659539e+00	-3.200325e+00	-2.643261e+00	-2.184452e+00	0
## 14259	4.763800e-01	1.632988e+00	3.812941e-01	5.054778e+00	0
## 14280	4.587016e+00	2.822078e+00	4.869356e+00	1.632629e+00	0
## 14301	-1.871741e+00	-8.284132e-01	-1.912413e+00	-4.135259e+00	0
## 14322	-2.070193e+00	-1.275663e+00	-2.100854e+00	-3.422689e+00	0
## 14343	-1.908086e+00	-9.125510e-01	-1.951432e+00	-3.978625e+00	0
## 14364	-7.742962e-01	7.256669e-01	-8.630737e-01	-1.504095e+02	0
## 14385	-3.733575e+00	-1.633731e+01	-3.606702e+00	-1.179433e+00	0
## 14406	4.431739e-01	1.615494e+00	3.494364e-01	5.176892e+00	0
## 14427	-2.152853e+00	-1.481064e+00	-2.176630e+00	-3.188098e+00	0
## 14448	-1.860137e+00	-8.055941e-01	-1.902002e+00	-4.183515e+00	0
## 14469	-1.480137e+00	-1.370501e-01	-1.542508e+00	-6.646068e+00	0
## 14490	6.856782e-01	1.740954e+00	5.962734e-01	4.401857e+00	0
## 14511	-7.411390e-01	7.578340e-01	-8.308040e-01	-2.123274e+03	0
## 14532	-2.768650e+00	-3.725461e+00	-2.744898e+00	-2.032482e+00	0
## 14553	-1.879814e+00	-8.455600e-01	-1.920326e+00	-4.100985e+00	0
## 14574	1.701534e+00	2.157656e+00	1.654307e+00	2.827870e+00	0
## 14595	-6.006440e+00	1.160800e+01	-5.559533e+00	-4.012530e-01	0
## 14616	2.656714e+00	2.438433e+00	2.683769e+00	2.207210e+00	0
## 14637	-4.464956e+00	9.967302e+01	-4.249835e+00	-8.252741e-01	0
## 14658	6.959793e-01	1.745743e+00	6.050575e-01	4.376148e+00	0
## 14679	4.438568e-02	1.378589e+00	-5.332204e-02	7.497430e+00	0
## 14700	-7.956850e+00	7.635722e+00	-7.120820e+00	-1.252371e-01	0
## 14721	-8.722732e+00	7.047640e+00	-7.698886e+00	-5.424307e-02	0
## 14742	-7.933186e-01	7.070947e-01	-8.813577e-01	-9.806717e+01	0
## 14763	-1.387739e+00	-6.993773e-05	-1.453984e+00	-7.683163e+00	0
## 14784	-1.217286e+00	2.284242e-01	-1.292795e+00	-1.062152e+01	0
## 14805	-5.860049e-01	9.017609e-01	-6.777765e-01	3.579954e+01	0
## 14826	-3.602745e+00	-1.279151e+01	-3.495801e+00	-1.260041e+00	0
## 14847	1.805393e+00	2.191593e+00	1.763957e+00	2.738439e+00	0
## 14868	-1.144638e+00	3.211688e-01	-1.220939e+00	-1.265915e+01	0
## 14889	1.669504e+00	2.146447e+00	1.620236e+00	2.857402e+00	0
## 14910	-3.866159e-01	1.068929e+00	-4.818902e-01	1.590774e+01	0
## 14931	-3.085687e+00	-5.745269e+00	-3.032951e+00	-1.674093e+00	0
## 14952	-2.695867e+00	-3.373387e+00	-2.678631e+00	-2.130958e+00	0



## 14973	-4.854956e+00	2.790651e+01	-4.589226e+00	-6.875671e-01	0
## 14994	-3.818556e+00	-2.016303e+01	-3.692229e+00	-1.126765e+00	0
## 15015	-1.529383e+00	-2.091523e-01	-1.585936e+00	-6.206593e+00	0
## 15036	-2.060604e+00	-1.248719e+00	-2.090044e+00	-3.454636e+00	0
## 15057	-2.321125e+00	-1.958354e+00	-2.333241e+00	-2.782794e+00	0
## 15078	-2.293605e+01	4.887294e+00	-1.656309e+01	3.772916e-01	0
## 15099	-1.841969e+00	-7.849544e-01	-1.894533e+00	-4.243347e+00	0
## 15120	-3.043996e+00	-5.417889e+00	-2.994502e+00	-1.715955e+00	0
## 15141	-2.801394e+00	-3.863314e+00	-2.767981e+00	-1.994501e+00	0
## 15162	-3.009898e+01	4.697038e+00	-2.006132e+01	4.372150e-01	0
## 15183	-1.672850e+00	-4.511111e-01	-1.724596e+00	-5.148990e+00	0
## 15204	1.246501e+00	1.989498e+00	1.175621e+00	3.334035e+00	0
## 15225	-2.532063e+00	-2.693846e+00	-2.531605e+00	-2.379648e+00	0
## 15246	-2.971438e+00	-4.927377e+00	-2.932533e+00	-1.789925e+00	0
## 15267	-2.085880e+00	-1.301888e+00	-2.109657e+00	-3.383649e+00	0
## 15288	-5.641007e+00	1.373637e+01	-5.246888e+00	-4.785500e-01	0
## 15309	-1.531095e+00	-2.187042e-01	-1.592968e+00	-6.171072e+00	0
## 15330	-1.284929e+01	5.675291e+00	-1.065125e+01	1.756681e-01	0
## 15351	8.329733e+00	3.234670e+00	9.601797e+00	1.214592e+00	0
## 15372	-8.767180e+00	7.011156e+00	-7.743589e+00	-4.995755e-02	0
## 15393	1.948286e+00	2.237933e+00	1.916584e+00	2.625593e+00	0
## 15414	-5.156623e+00	1.925597e+01	-4.845547e+00	-5.982920e-01	0
## 15435	-7.653928e+00	7.943891e+00	-6.886912e+00	-1.577280e-01	0
## 15456	-5.996416e+00	1.165994e+01	-5.549656e+00	-4.033712e-01	0
## 15477	-2.306206e+00	-1.908523e+00	-2.317734e+00	-2.816908e+00	0
## 15498	-4.194765e-01	1.042739e+00	-5.139152e-01	1.747127e+01	0
## 15519	-2.625687e+00	-3.059318e+00	-2.613806e+00	-2.233655e+00	0
## 15540	-2.560325e+00	-2.790344e+00	-2.553589e+00	-2.336218e+00	0
## 15561	-1.902676e+00	-8.941853e-01	-1.942393e+00	-4.007151e+00	0
## 15582	-3.263412e+00	-7.398849e+00	-3.192858e+00	-1.512677e+00	0
## 15603	-2.366923e+00	-2.104500e+00	-2.376461e+00	-2.686286e+00	0
## 15624	-3.977666e+00	-3.079243e+01	-3.827643e+00	-1.042203e+00	0
## 15645	-3.340578e+00	-8.298761e+00	-3.261811e+00	-1.449529e+00	0
## 15666	1.863950e+00	2.211420e+00	1.827013e+00	2.690239e+00	0
## 15687	-1.158342e+00	3.030941e-01	-1.235473e+00	-1.220729e+01	0
## 15708	-2.462607e+00	-2.425139e+00	-2.463894e+00	-2.503593e+00	4
## 15729	-2.017162e+00	-1.146376e+00	-2.049502e+00	-3.593024e+00	0
## 15750	-2.453578e+00	-2.392000e+00	-2.455164e+00	-2.520388e+00	4
## 15771	-2.134362e+00	-1.431942e+00	-2.158846e+00	-3.239269e+00	0
## 15792	-3.462137e+00	-9.923033e+00	-3.362425e+00	-1.360054e+00	0
## 15813	1.109248e+00	1.933412e+00	1.032581e+00	3.535560e+00	0
## 15834	-3.610333e+00	-1.298282e+01	-3.503116e+00	-1.254887e+00	0
## 15855	-1.054062e+01	6.206735e+00	-9.071435e+00	7.191499e-02	0
## 15876	1.116368e-04	1.349408e+00	-9.816737e-02	7.911360e+00	0
## 15897	-3.579106e+00	-1.228534e+01	-3.476107e+00	-1.275254e+00	0
## 15918	-6.389120e+00	1.022337e+01	-5.877284e+00	-3.316982e-01	0
## 15939	1.332192e+00	2.023253e+00	1.264900e+00	3.221773e+00	0
## 15960	-2.956389e+00	-4.810247e+00	-2.916021e+00	-1.807780e+00	0
## 15981	-1.446922e+00	-8.693313e-02	-1.510833e+00	-6.987099e+00	0
## 16002	-1.005819e+03	4.224638e+00	-5.681741e+01	6.159364e-01	0
## 16023	1.904917e-01	1.471162e+00	9.638045e-02	6.409601e+00	0
## 16044	5.413055e-01	1.667589e+00	4.482723e-01	4.828815e+00	0
## 16065	-3.625777e+00	-1.327825e+01	-3.513370e+00	-1.245970e+00	0
## 16086	-2.731916e+00	-3.534664e+00	-2.709351e+00	-2.082660e+00	0

## 16107	-6.018672e+00	1.155688e+01	-5.569104e+00	-3.989408e-01	0
## 16128	-3.671341e+00	-1.452939e+01	-3.555752e+00	-1.216350e+00	0
## 16149	-2.166210e+00	-1.514444e+00	-2.188297e+00	-3.153410e+00	0
## 16170	3.419753e+00	2.612846e+00	3.529803e+00	1.916390e+00	0
## 16191	-4.976804e+00	2.341152e+01	-4.694014e+00	-6.498263e-01	0
## 16212	-3.961995e-01	1.060308e+00	-4.931436e-01	1.636848e+01	0
## 16233	-4.816104e+00	2.994109e+01	-4.553401e+00	-7.004705e-01	0
## 16254	1.904068e+01	3.677014e+00	2.731708e+01	8.950478e-01	0
## 16275	-9.883266e-01	5.021585e-01	-1.071192e+00	-2.094273e+01	0
## 16296	-2.405975e+00	-2.233488e+00	-2.412845e+00	-2.608596e+00	0
## 16317	-1.969557e+00	-1.041914e+00	-2.006821e+00	-3.752927e+00	0
## 16338	-3.534371e+00	-1.134850e+01	-3.435682e+00	-1.305790e+00	0
## 16359	-2.072886e+00	-1.277831e+00	-2.101236e+00	-3.417508e+00	0
## 16380	-6.182950e+00	1.091080e+01	-5.703122e+00	-3.682927e-01	0
## 16401	-2.469045e+00	-2.450363e+00	-2.470563e+00	-2.491349e+00	4
## 16422	1.355769e-01	1.436915e+00	3.948611e-02	6.776920e+00	0
## 16443	-4.944477e+00	2.398161e+01	-4.680123e+00	-6.574180e-01	0
## 16464	2.768060e-01	1.521367e+00	1.797794e-01	5.925197e+00	0
## 16485	-2.435022e+00	-2.331158e+00	-2.439297e+00	-2.553646e+00	0
## 16506	-1.744148e+01	5.154034e+00	-1.365287e+01	2.993176e-01	0
## 16527	-2.522457e+00	-2.642740e+00	-2.518438e+00	-2.399247e+00	0
## 16548	-3.510656e+00	-1.089120e+01	-3.414079e+00	-1.322432e+00	0
## 16569	-9.221604e+00	6.755500e+00	-8.079784e+00	-1.433479e-02	0
## 16590	-2.234410e+00	-1.702936e+00	-2.252692e+00	-2.980206e+00	0
## 16611	-4.066007e+00	-4.252221e+01	-3.905839e+00	-9.978827e-01	0
## 16632	-8.872762e-01	6.117241e-01	-9.723720e-01	-3.568104e+01	0
## 16653	-1.805055e+00	-6.962451e-01	-1.850175e+00	-4.431682e+00	0
## 16674	-2.059665e+00	-1.247623e+00	-2.089740e+00	-3.456717e+00	0
## 16695	-2.525428e+00	-2.658234e+00	-2.522442e+00	-2.393214e+00	0
## 16716	-2.438461e+00	-2.335461e+00	-2.439947e+00	-2.549439e+00	0
## 16737	-1.574117e+01	5.301294e+00	-1.255488e+01	2.619245e-01	0
## 16758	1.516689e+00	2.092420e+00	1.458736e+00	3.008954e+00	0
## 16779	-1.465185e+00	-1.148398e-01	-1.528664e+00	-6.793857e+00	0
## 16800	-1.554508e+00	-2.582929e-01	-1.616918e+00	-5.970172e+00	0
## 16821	1.336058e+00	2.024604e+00	1.269280e+00	3.216947e+00	0
## 16842	-2.153618e+00	-1.477034e+00	-2.174627e+00	-3.189431e+00	0
## 16863	-6.704472e+00	9.456662e+00	-6.120872e+00	-2.824235e-01	0
## 16884	6.192809e-01	1.706794e+00	5.229700e-01	4.591765e+00	0
## 16905	-2.340971e+00	-2.022407e+00	-2.352556e+00	-2.739723e+00	0
## 16926	-2.074858e+00	-1.286359e+00	-2.104892e+00	-3.409021e+00	0
## 16947	7.343646e+00	3.151413e+00	8.284580e+00	1.287248e+00	0
## 16968	-1.247467e+02	4.322323e+00	-3.974480e+01	5.764066e-01	0
## 16989	2.320288e+00	2.348349e+00	2.316559e+00	2.381891e+00	1
## 17010	-3.590308e+00	-1.251887e+01	-3.485322e+00	-1.268054e+00	0
## 17031	-2.116432e+00	-1.388782e+00	-2.143304e+00	-3.287970e+00	0
## 17052	-3.297570e-02	1.327738e+00	-1.303078e-01	8.249250e+00	0
## 17073	-2.448682e+00	-2.378031e+00	-2.451700e+00	-2.528471e+00	4
## 17094	2.809528e-01	1.523827e+00	1.840994e-01	5.903375e+00	0
## 17115	-3.437534e+00	-9.659423e+00	-3.348970e+00	-1.375018e+00	0
## 17136	-1.419978e+00	-4.603327e-02	-1.484177e+00	-7.293012e+00	0
## 17157	-7.001194e-01	7.975712e-01	-7.897135e-01	1.390299e+02	0
## 17178	-6.200247e+00	1.089719e+01	-5.704527e+00	-3.664302e-01	0
## 17199	-8.536561e+00	7.161559e+00	-7.571394e+00	-6.960397e-02	0
## 17220	-6.335443e+00	1.041052e+01	-5.825300e+00	-3.416022e-01	0

## 17241	7.123297e+02	4.195684e+00	-6.547562e+01	6.286914e-01	0
## 17262	-2.369814e+00	-2.113150e+00	-2.378898e+00	-2.680653e+00	0
## 17283	-3.332755e+00	-8.199761e+00	-3.254700e+00	-1.455811e+00	0
## 17304	-7.829873e+00	7.762863e+00	-7.019181e+00	-1.387594e-01	0
## 17325	-3.701631e+01	4.590094e+00	-2.306042e+01	4.730736e-01	0
## 17346	-1.685322e+00	-4.743224e-01	-1.737254e+00	-5.070597e+00	0
## 17367	-3.430825e+00	-9.555754e+00	-3.342944e+00	-1.380002e+00	0
## 17388	-6.145902e+00	1.108826e+01	-5.662466e+00	-3.761024e-01	0
## 17409	-2.624124e+00	-3.058599e+00	-2.613955e+00	-2.234883e+00	0
## 17430	1.307750e+01	3.502052e+00	1.669863e+01	1.010498e+00	0
## 17451	-8.019212e-02	1.294915e+00	-1.793038e-01	8.804814e+00	0
## 17472	-1.822668e+00	-7.306912e-01	-1.866759e+00	-4.349581e+00	0
## 17493	-4.952852e+00	2.439289e+01	-4.666132e+00	-6.582372e-01	0
## 17514	3.800229e+00	2.688192e+00	3.963177e+00	1.807527e+00	0
## 17535	-3.087573e+00	-5.760035e+00	-3.034610e+00	-1.672271e+00	0
## 17556	-1.040945e+00	4.454298e-01	-1.119037e+00	-1.726826e+01	0
## 17577	-3.268581e+00	-7.457599e+00	-3.197734e+00	-1.508223e+00	0
## 17598	-1.845449e+00	-7.779760e-01	-1.889404e+00	-4.244845e+00	0
## 17619	-2.404848e+00	-2.228755e+00	-2.411473e+00	-2.611081e+00	0
## 17640	-3.026692e+00	-5.288212e+00	-2.978523e+00	-1.733784e+00	0
## 17661	-2.995765e+00	-5.094263e+00	-2.954608e+00	-1.763953e+00	0
## 17682	-4.415598e+01	4.530511e+00	-2.524077e+01	4.959578e-01	0
## 17703	3.509493e+00	2.631394e+00	3.631990e+00	1.888878e+00	0
## 17724	-3.010937e+00	-5.176973e+00	-2.964562e+00	-1.749955e+00	0
## 17745	-5.940978e+00	1.193034e+01	-5.501015e+00	-4.145910e-01	0
## 17766	-2.118996e+00	-1.396846e+00	-2.146427e+00	-3.279755e+00	0
## 17787	-6.645635e+00	9.571499e+00	-6.080797e+00	-2.907779e-01	0
## 17808	-9.696474e-02	1.284043e+00	-1.944012e-01	9.010536e+00	0
## 17829	-1.783890e+01	5.134809e+00	-1.380958e+01	3.056389e-01	0
## 17850	-3.684352e+00	-1.498414e+01	-3.570140e+00	-1.207353e+00	0
## 17871	2.241176e-01	1.490646e+00	1.279570e-01	6.212650e+00	0
## 17892	-1.490850e+00	-1.532491e-01	-1.552541e+00	-6.543245e+00	0
## 17913	-2.277025e+00	-1.822299e+00	-2.290932e+00	-2.881866e+00	0
## 17934	-1.273706e+01	5.692391e+00	-1.058568e+01	1.717665e-01	0
## 17955	-9.240433e-01	5.735649e-01	-1.007171e+00	-2.853164e+01	0
## 17976	-2.807588e+00	-3.927401e+00	-2.780251e+00	-1.982659e+00	0
## 17997	-1.175236e+00	2.822426e-01	-1.251641e+00	-1.171220e+01	0
## 18018	-2.632557e+00	-3.072356e+00	-2.615776e+00	-2.226396e+00	0
## 18039	-2.379743e+00	-2.144398e+00	-2.387746e+00	-2.660996e+00	0
## 18060	-7.166508e+00	8.572738e+00	-6.508117e+00	-2.162501e-01	0
## 18081	-1.559148e+01	5.310553e+00	-1.249798e+01	2.589653e-01	0
## 18102	-2.213583e+00	-1.642807e+00	-2.232507e+00	-3.032005e+00	0
## 18123	-2.998403e+00	-5.072837e+00	-2.950670e+00	-1.764399e+00	0
## 18144	-3.852840e+00	-2.157146e+01	-3.715663e+00	-1.109442e+00	0
## 18165	-1.210227e+00	2.373896e-01	-1.286065e+00	-1.078909e+01	0
## 18186	-8.201665e+00	7.413661e+00	-7.316709e+00	-1.004209e-01	0
## 18207	2.428898e+00	2.379706e+00	2.437849e+00	2.320435e+00	1
## 18228	-1.043051e+00	4.405845e-01	-1.123881e+00	-1.707330e+01	0
## 18249	-2.309278e+00	-1.918971e+00	-2.321025e+00	-2.809727e+00	0
## 18270	-1.481337e+00	-1.394955e-01	-1.544155e+00	-6.632127e+00	0
## 18291	-1.515508e-01	1.245264e+00	-2.499623e-01	9.797344e+00	0
## 18312	-4.715203e+00	3.672011e+01	-4.467176e+00	-7.339534e-01	0
## 18333	-1.958549e+00	-1.010432e+00	-1.992651e+00	-3.798769e+00	0
## 18354	-1.300653e+00	1.207413e-01	-1.370890e+00	-8.969290e+00	0

## 18375	-5.176249e+00	1.900840e+01	-4.856419e+00	-5.937328e-01	0
## 18396	9.951609e+00	3.345912e+00	1.187017e+01	1.124518e+00	0
## 18417	-6.422747e+00	1.014212e+01	-5.899706e+00	-3.265261e-01	0
## 18438	-7.318542e+00	8.349016e+00	-6.630752e+00	-1.967975e-01	0
## 18459	-1.520475e+00	-2.508347e-01	-1.621285e+00	-6.116622e+00	0
## 18480	-5.232530e+00	1.800504e+01	-4.908721e+00	-5.778482e-01	0
## 18501	-1.792551e+01	5.132478e+00	-1.382680e+01	3.067421e-01	0
## 18522	-4.231328e-01	1.038208e+00	-5.203740e-01	1.772900e+01	0
## 18543	-2.898559e+01	4.713714e+00	-1.968854e+01	4.308313e-01	0
## 18564	-1.297136e+00	1.247574e-01	-1.368211e+00	-9.024467e+00	0
## 18585	-7.670479e+00	7.928763e+00	-6.897225e+00	-1.560429e-01	0
## 18606	-2.745573e+00	-3.611655e+00	-2.724203e+00	-2.062743e+00	0
## 18627	2.338666e+00	2.354456e+00	2.338704e+00	2.370613e+00	1
## 18648	-2.155114e+00	-1.483920e+00	-2.177361e+00	-3.183730e+00	0
## 18669	-2.682198e+00	-3.323248e+00	-2.669270e+00	-2.148171e+00	0
## 18690	5.523176e+00	2.954571e+00	5.989310e+00	1.481231e+00	0
## 18711	-1.241308e+00	1.985554e-01	-1.314746e+00	-1.009514e+01	0
## 18732	-5.921531e+00	1.199796e+01	-5.490164e+00	-4.179063e-01	0
## 18753	8.369164e-01	1.813149e+00	7.500471e-01	4.039912e+00	0
## 18774	-3.507709e-01	1.097445e+00	-4.460831e-01	1.449062e+01	0
## 18795	-9.026104e-01	5.969719e-01	-9.855251e-01	-3.243022e+01	0
## 18816	-3.207566e+00	-6.831651e+00	-3.143669e+00	-1.560482e+00	0
## 18837	-3.321444e+00	-8.079361e+00	-3.246202e+00	-1.464252e+00	0
## 18858	7.684176e-01	1.781019e+00	6.807767e-01	4.194562e+00	0
## 18879	-4.475415e-01	1.019701e+00	-5.418198e-01	1.909905e+01	0
## 18900	-1.884502e+00	-8.547411e-01	-1.924437e+00	-4.082213e+00	0
## 18921	-3.747627e+00	-1.700486e+01	-3.624391e+00	-1.169455e+00	0
## 18942	-1.716641e+00	-5.310198e-01	-1.767244e+00	-4.887321e+00	0
## 18963	-2.772336e-02	1.331314e+00	-1.249220e-01	8.192367e+00	0
## 18984	-1.677626e+00	-4.629237e-01	-1.731502e+00	-5.113048e+00	0
## 19005	-1.040765e-01	1.279005e+00	-2.017495e-01	9.105850e+00	0
## 19026	-2.487425e+00	-2.513212e+00	-2.486379e+00	-2.459582e+00	4
## 19047	-2.490035e+00	-2.525511e+00	-2.489652e+00	-2.454272e+00	4
## 19068	1.013226e+02	4.093449e+00	-1.508872e+02	6.744127e-01	0
## 19089	5.120477e+00	2.899883e+00	5.495572e+00	1.540902e+00	0
## 19110	2.069457e+00	2.275343e+00	2.046366e+00	2.539094e+00	0
## 19131	-2.978381e+00	-4.946133e+00	-2.934214e+00	-1.784851e+00	0
## 19152	-4.576261e+00	5.490274e+01	-4.349603e+00	-7.826345e-01	0
## 19173	-8.556628e-01	6.440834e-01	-9.421815e-01	-4.542118e+01	0
## 19194	-3.525585e-01	1.097166e+00	-4.456956e-01	1.452348e+01	0
## 19215	-1.758459e+00	-6.086458e-01	-1.807074e+00	-4.660639e+00	0
## 19236	-8.489377e-01	6.528718e-01	-9.331173e-01	-4.870898e+01	0
## 19257	-3.055599e+00	-5.495907e+00	-3.003624e+00	-1.704922e+00	0
## 19278	-4.395938e+00	2.104870e+02	-4.189176e+00	-8.527526e-01	0
## 19299	-4.003003e+00	-3.321686e+01	-3.847420e+00	-1.029928e+00	0
## 19320	7.436519e-02	1.398203e+00	-2.239021e-02	7.241233e+00	0
## 19341	-3.721718e+00	-1.613673e+01	-3.602462e+00	-1.184699e+00	0
## 19362	-3.943591e+00	-2.749886e+01	-3.794802e+00	-1.060647e+00	0
## 19383	-9.032551e-01	5.948841e-01	-9.879542e-01	-3.214597e+01	0
## 19404	-1.954034e+00	-1.003607e+00	-1.990102e+00	-3.812382e+00	0
## 19425	-2.240681e+00	-1.720919e+00	-2.258616e+00	-2.965062e+00	0
## 19446	-1.740661e+00	-5.745650e-01	-1.789644e+00	-4.755973e+00	0
## 19467	8.017789e-01	1.796674e+00	7.136807e-01	4.118076e+00	0
## 19488	5.720149e+00	2.975445e+00	6.194243e+00	1.456868e+00	0

##	19509	7.539157e+00	3.167755e+00	8.523372e+00	1.272003e+00	0
##	19530	-2.568248e+00	-2.823745e+00	-2.561427e+00	-2.322989e+00	0
##	19551	2.480944e+00	2.393467e+00	2.493926e+00	2.293156e+00	0
##	19572	3.322718e-01	1.553367e+00	2.357453e-01	5.650624e+00	0
##	19593	-6.141772e-01	8.773281e-01	-7.043526e-01	4.358196e+01	0
##	19614	-5.563956e-01	9.280441e-01	-6.481997e-01	3.006480e+01	0
##	19635	-1.936812e+00	-9.670911e-01	-1.974498e+00	-3.875180e+00	0
##	19656	-1.255156e+00	1.802746e-01	-1.328238e+00	-9.806038e+00	0
##	19677	-1.256899e+00	1.785849e-01	-1.329325e+00	-9.776120e+00	0
##	19698	-6.147407e+00	1.106648e+01	-5.667716e+00	-3.754192e-01	0
##	19719	3.749888e-01	1.577475e+00	2.788273e-01	5.457932e+00	0
##	19740	-1.921318e+00	-9.389460e-01	-1.962852e+00	-3.928993e+00	0
##	19761	-1.857232e+00	-7.680532e-01	-1.880284e+00	-4.233667e+00	0
##	19782	-5.775997e+00	1.280432e+01	-5.365527e+00	-4.483590e-01	0
##	19803	-1.504290e+00	-1.735486e-01	-1.564967e+00	-6.418938e+00	0
##	19824	-3.224730e+00	-6.978049e+00	-3.156426e+00	-1.546572e+00	0
##	19845	2.807616e+00	2.476588e+00	2.851633e+00	2.139255e+00	0
##	19866	-3.410485e+00	-9.244291e+00	-3.324190e+00	-1.395443e+00	0
##	19887	-1.960977e+00	-1.024564e+00	-1.999688e+00	-3.782111e+00	0
##	19908	-8.458143e-01	6.545004e-01	-9.321637e-01	-4.974154e+01	0
##	19929	-2.578459e+00	-2.863529e+00	-2.570471e+00	-2.306909e+00	0
##	19950	-1.771151e+00	-6.300385e-01	-1.817433e+00	-4.599426e+00	0
##	19971	-1.621691e+00	-3.681649e-01	-1.679848e+00	-5.472004e+00	0
##	19992	-1.832555e+00	-7.541054e-01	-1.878418e+00	-4.299835e+00	0
##	20013	-2.056359e+00	-1.238501e+00	-2.086063e+00	-3.467790e+00	0
##	20034	-9.971478e+00	6.412054e+00	-8.647055e+00	3.770287e-02	0
##	20055	-1.331991e+00	7.712916e-02	-1.401691e+00	-8.457119e+00	0
##	20076	-2.988505e+00	-4.978879e+00	-2.937526e+00	-1.777051e+00	0
##	20097	-6.787045e+00	9.268134e+00	-6.192818e+00	-2.696484e-01	0
##	20118	-4.222461e+00	-1.059288e+02	-4.038913e+00	-9.260288e-01	0
##	20139	-1.886079e+00	-8.600506e-01	-1.927105e+00	-4.073529e+00	0
##	20160	-5.010227e-01	9.761630e-01	-5.926736e-01	2.318067e+01	0
##	20181	-1.579924e+01	5.294089e+00	-1.260363e+01	2.635259e-01	0
##	20202	3.981209e-01	1.590625e+00	3.032316e-01	5.358089e+00	0
##	20223	-1.743825e+00	-5.793765e-01	-1.791945e+00	-4.740702e+00	0
##	20244	9.093294e+00	3.289371e+00	1.063110e+01	1.168881e+00	0
##	20265	5.559190e+00	2.961340e+00	6.052586e+00	1.475223e+00	0
##	20286	1.035610e-01	1.415953e+00	4.735471e-03	7.018103e+00	0
##	20307	4.796126e+00	2.854403e+00	5.118805e+00	1.594165e+00	0
##	20328	-2.977664e+00	-4.953550e+00	-2.935574e+00	-1.784578e+00	0
##	20349	-1.804590e+00	-6.950030e-01	-1.849526e+00	-4.434343e+00	0
##	20370	-2.987976e+00	-5.018260e+00	-2.944014e+00	-1.774021e+00	0
##	20391	-1.677066e+01	5.211215e+00	-1.319132e+01	2.849901e-01	0
##	20412	-1.753493e+00	-5.992023e-01	-1.802287e+00	-4.686719e+00	0
##	20433	-1.297377e+00	1.252591e-01	-1.367656e+00	-9.026271e+00	0
##	20454	-4.293257e+00	-3.346314e+02	-4.106012e+00	-8.940242e-01	0
##	20475	-2.434907e+00	-2.326546e+00	-2.437784e+00	-2.555100e+00	0
##	20496	5.676484e-01	1.681274e+00	4.750882e-01	4.743998e+00	0
##	20517	-1.128398e+00	3.417691e-01	-1.204356e+00	-1.322759e+01	0
##	20538	-1.988923e+01	5.007178e+00	-1.506652e+01	3.402971e-01	0
##	20559	-3.319742e+00	-8.055394e+00	-3.244382e+00	-1.465743e+00	0
##	20580	-3.598304e+00	-1.270193e+01	-3.492467e+00	-1.262761e+00	0
##	20601	-5.017579e-02	1.315995e+00	-1.478580e-01	8.441317e+00	0
##	20622	-1.895950e+00	-8.789584e-01	-1.935428e+00	-4.035239e+00	0

```

## 20643 -4.591653e+00  5.248774e+01 -4.359685e+00 -7.776271e-01 0
## 20664 -1.767209e+00 -6.210049e-01 -1.812685e+00 -4.621826e+00 0
## 20685 -4.340532e+00  1.512746e+03 -4.144627e+00 -8.746759e-01 0
## 20706 -1.840045e+00 -7.664992e-01 -1.883926e+00 -4.269508e+00 0
## 20727 -2.154237e+00 -1.483354e+00 -2.177322e+00 -3.185120e+00 0
## 20748 -1.961636e+00 -1.024956e+00 -1.999730e+00 -3.780690e+00 0
## 20769 -3.301281e+00 -7.811157e+00 -3.225547e+00 -1.481684e+00 0
## 20790 -7.512401e+01  4.380966e+00 -3.405155e+01  5.501488e-01 0
## 20811 -3.168611e+00 -6.470167e+00 -3.109598e+00 -1.594987e+00 0
## 20832 -8.380911e+00  7.252458e+00 -7.477889e+00 -8.226056e-02 0
## 20853 -2.867936e+00 -4.268315e+00 -2.836269e+00 -1.908285e+00 0
## 20874 -1.320565e+00  9.502928e-02 -1.388699e+00 -8.649789e+00 0
## 20895 -1.045361e-01  1.279438e+00 -2.004506e-01  9.102836e+00 0
## 20916 -1.522324e+00 -2.023867e-01 -1.582667e+00 -6.254702e+00 0
## 20937 -1.371144e+01  5.536250e+00 -1.125093e+01  2.057917e-01 0
## 20958 -1.670108e+00 -4.474671e-01 -1.722815e+00 -5.163706e+00 0
## 20979 -1.969352e+00 -1.036309e+00 -2.003861e+00 -3.758169e+00 0
## 21000 -1.186703e+00  2.703739e-01 -1.260113e+00 -1.142662e+01 0

```











