

**ID,longitude,latitude,total_abundance,total_richness,abund_6sp,
richness_6sp,habitat,woodcover,temperature,precipitation**

1,-5.3581,43.5310,14.0,6.0,2.0,1.0,0.043,2.168,0.827,2.097
2,-5.3567,43.5283,19.0,10.0,3.0,1.0,2.119,2.168,0.827,2.097
3,-5.3535,43.5231,70.0,16.0,7.0,4.0,0.792,1.612,0.657,2.413
4,-5.3494,43.5212,36.0,13.0,10.0,3.0,0.427,1.413,0.676,2.431
5,-5.3202,43.5139,119.0,15.0,16.0,4.0,-0.233,1.532,0.714,2.082
6,-5.3082,43.5110,8.0,3.0,1.0,1.0,1.438,1.532,0.705,2.058
7,-5.3079,43.5108,8.0,3.0,1.0,1.0,1.444,1.532,0.705,2.058
8,-5.3079,43.5108,144.0,17.0,8.0,4.0,-0.484,1.532,0.705,2.058
9,-3.6537,43.4893,8.0,5.0,1.0,1.0,1.645,1.731,0.601,2.300
10,-3.6555,43.4855,191.0,15.0,34.0,3.0,-1.303,1.731,0.601,2.300
11,-3.6555,43.4855,130.0,16.0,17.0,2.0,-0.564,1.731,0.601,2.300
12,-3.6595,43.4826,350.0,16.0,51.0,5.0,-0.411,1.214,0.629,2.235
13,-3.6536,43.4803,8.0,5.0,1.0,1.0,1.645,2.168,0.525,2.374
14,-3.4867,43.4695,35.0,11.0,8.0,1.0,1.257,0.300,0.697,1.248
15,-3.4434,43.4661,9.0,5.0,0.0,0.0,2.003,-0.813,0.442,1.828
16,-3.4368,43.4656,17.0,5.0,3.0,1.0,2.363,2.049,0.470,1.706
17,-3.4839,43.4625,10.0,7.0,2.0,2.0,2.693,1.811,0.527,1.383
18,-3.4878,43.4622,11.0,7.0,1.0,1.0,1.376,1.811,0.527,1.383
19,-3.6157,43.4613,12.0,6.0,3.0,2.0,1.431,-0.773,0.533,1.810
20,-3.6273,43.4606,133.0,16.0,17.0,4.0,-0.153,0.061,0.590,1.892
21,-3.4475,43.4598,46.0,16.0,7.0,3.0,0.228,2.089,0.442,1.828
22,-3.6403,43.4566,67.0,12.0,18.0,3.0,-0.255,-0.773,0.638,1.768
23,-3.6460,43.4559,23.0,12.0,4.0,2.0,2.026,2.049,0.582,2.133
24,-3.6308,43.4533,75.0,15.0,24.0,3.0,-0.646,-0.813,0.666,1.524
25,-2.7938,43.4294,57.0,13.0,17.0,5.0,0.851,2.009,0.601,1.175
26,-2.7945,43.4259,82.0,14.0,21.0,4.0,0.360,2.009,0.601,1.175
27,-2.8552,43.4237,10.0,4.0,0.0,0.0,0.825,2.248,0.289,1.578
28,-2.7981,43.4228,52.0,14.0,22.0,4.0,0.921,2.447,0.460,1.354
29,-2.7737,43.4208,9.0,4.0,0.0,0.0,1.332,2.288,0.167,1.746
30,-2.7771,43.4199,8.0,3.0,0.0,0.0,1.082,2.327,0.157,1.729
31,-2.8376,43.4196,2.0,2.0,1.0,1.0,1.165,2.248,0.130,1.478
32,-2.8573,43.4193,81.0,9.0,46.0,2.0,-1.303,2.248,0.289,1.578
33,-2.7731,43.4170,1.0,1.0,0.0,0.0,1.282,2.288,0.167,1.746
34,-4.8060,43.4170,64.0,13.0,10.0,5.0,1.428,1.811,0.971,1.127
35,-4.3950,43.4167,32.0,8.0,6.0,3.0,-0.962,-0.813,-1.152,
36,-2.8398,43.4156,5.0,3.0,1.0,1.0,0.865,2.129,0.149,1.584
37,-4.8129,43.4151,16.0,9.0,0.0,0.0,,1.254,0.886,1.179
38,-4.8129,43.4151,90.0,10.0,37.0,5.0,0.294,1.254,0.886,1.179
39,-4.8163,43.4123,21.0,9.0,4.0,2.0,1.135,1.254,0.886,1.179
40,-4.8163,43.4123,21.0,9.0,4.0,2.0,1.141,1.254,0.886,1.179
41,-2.7690,43.4100,36.0,14.0,12.0,3.0,0.081,2.049,0.045,1.786
42,-2.7708,43.4096,193.0,13.0,31.0,3.0,-0.232,2.049,0.045,1.786
43,-2.6779,43.4087,42.0,10.0,10.0,3.0,0.323,-0.813,0.723,0.987

44,-2.7641,43.4086,49.0,12.0,19.0,3.0,0.371,2.089,0.234,1.507
45,-2.7816,43.4084,20.0,8.0,1.0,1.0,0.272,2.327,0.157,1.786
46,-2.6652,43.4063,20.0,9.0,7.0,2.0,0.262,2.168,0.440,1.408
47,-2.6542,43.3971,70.0,14.0,27.0,2.0,1.643,1.652,0.402,1.467
48,-2.6474,43.3964,23.0,9.0,1.0,1.0,1.478,2.049,0.544,1.264
49,-2.6474,43.3964,26.0,10.0,4.0,2.0,1.478,2.049,0.544,1.264
50,-2.6524,43.3959,75.0,12.0,31.0,3.0,0.350,1.652,0.402,1.467
51,-2.6461,43.3959,18.0,7.0,4.0,1.0,1.443,2.049,0.544,1.264
52,-2.6461,43.3959,18.0,7.0,4.0,1.0,1.443,2.049,0.544,1.264
53,-4.7206,43.3955,43.0,11.0,3.0,2.0,1.973,1.254,0.952,1.020
54,-5.3567,43.3955,19.0,10.0,3.0,1.0,2.065,1.453,0.082,2.755
55,-4.7206,43.3955,43.0,11.0,3.0,2.0,1.967,1.254,0.952,1.020
56,-4.5259,43.3945,81.0,15.0,10.0,3.0,0.839,2.208,0.944,1.101
57,-4.1656,43.3938,27.0,9.0,7.0,3.0,-1.226,-0.535,0.808,1.474
58,-4.5524,43.3912,82.0,15.0,40.0,4.0,0.227,1.771,0.857,1.198
59,-4.5466,43.3912,119.0,11.0,19.0,3.0,0.286,2.049,0.857,1.172
60,-4.5283,43.3904,22.0,8.0,12.0,4.0,-0.189,0.936,0.830,1.094
61,-4.6248,43.3879,7.0,3.0,2.0,1.0,-0.266,1.691,0.744,1.088
62,-2.5667,43.3870,71.0,6.0,15.0,3.0,-0.176,-0.813,0.610,1.363
63,-4.5433,43.3866,7.0,5.0,2.0,2.0,1.473,0.220,0.857,1.172
64,-4.5433,43.3866,7.0,5.0,2.0,2.0,1.473,0.220,0.857,1.172
65,-4.5448,43.3865,16.0,5.0,4.0,2.0,1.037,0.220,0.857,1.172
66,-4.5456,43.3865,16.0,5.0,4.0,2.0,1.037,0.220,0.857,1.172
67,-2.5993,43.3848,192.0,18.0,48.0,4.0,-0.557,2.089,0.619,1.084
68,-2.6032,43.3828,68.0,11.0,17.0,4.0,-0.106,1.731,0.544,1.188
69,-4.2350,43.3815,91.0,17.0,51.0,5.0,0.230,1.850,0.769,1.516
70,-4.1630,43.3812,19.0,11.0,1.0,1.0,1.580,2.049,0.656,1.622
71,-4.1712,43.3809,107.0,12.0,32.0,2.0,-1.303,1.811,0.798,1.314
72,-2.5743,43.3807,19.0,8.0,0.0,0.0,1.528,1.612,0.489,1.499
73,-4.1670,43.3789,51.0,18.0,12.0,4.0,0.186,1.811,0.798,1.314
74,-4.2644,43.3785,14.0,8.0,4.0,2.0,1.635,0.777,0.882,1.333
75,-4.1616,43.3781,10.0,5.0,1.0,1.0,1.904,2.049,0.656,1.622
76,-2.6383,43.3760,13.0,7.0,2.0,1.0,0.777,1.970,0.402,1.500
77,-2.6409,43.3753,99.0,12.0,17.0,2.0,0.586,1.970,0.402,1.500
78,-1.8284,43.3753,66.0,13.0,14.0,3.0,0.907,1.811,0.476,2.600
79,-2.5858,43.3752,21.0,7.0,4.0,1.0,1.565,1.731,0.638,1.157
80,-1.8103,43.3746,57.0,16.0,22.0,4.0,-1.115,1.731,0.342,2.354
81,-2.6055,43.3723,10.0,3.0,0.0,0.0,1.396,2.208,0.440,1.263
82,-1.8261,43.3712,6.0,5.0,2.0,1.0,1.532,1.532,0.306,2.824
83,-1.8182,43.3690,6.0,6.0,1.0,1.0,1.876,0.896,0.286,2.611
84,-2.6356,43.3684,21.0,9.0,3.0,1.0,-0.226,1.771,0.355,1.714
85,-2.6335,43.3683,4.0,3.0,0.0,0.0,0.819,1.930,0.355,1.714
86,-4.3241,43.3601,16.0,9.0,0.0,0.0,1.585,1.413,0.942,0.856
87,-4.3257,43.3591,41.0,14.0,7.0,2.0,1.307,1.413,0.895,0.935
88,-2.6485,43.3131,20.0,8.0,3.0,2.0,0.015,1.055,0.563,1.326
89,-2.6454,43.3099,23.0,8.0,8.0,2.0,0.328,1.055,0.563,1.326

90,-2.7248,43.2974,10.0,6.0,1.0,1.0,1.163,1.214,0.497,0.897
91,-2.1848,43.2922,68.0,15.0,11.0,3.0,-0.052,-0.813,0.655,1.844
92,-2.1898,43.2913,51.0,11.0,24.0,2.0,1.020,-0.813,0.418,1.964
93,-2.2147,43.2870,83.0,16.0,19.0,5.0,0.212,0.300,0.445,2.707
94,-2.2232,43.2862,115.0,20.0,19.0,5.0,-0.319,1.453,0.540,2.538
95,-2.2276,43.2853,156.0,17.0,42.0,4.0,-0.209,0.459,0.577,2.283
96,-2.2201,43.2850,80.0,14.0,27.0,4.0,-0.526,1.453,0.540,2.538
97,-2.2177,43.2842,83.0,15.0,23.0,3.0,-0.125,1.453,0.540,2.538
98,-2.1154,43.2816,80.0,13.0,21.0,3.0,0.353,0.618,0.560,2.456
99,-2.1091,43.2670,37.0,11.0,13.0,3.0,0.061,1.850,0.532,2.104
100,-2.1007,43.2529,83.0,9.0,50.0,2.0,-1.303,1.970,0.334,2.587
101,-4.3241,43.2478,82.0,11.0,25.0,4.0,-0.277,-0.018,-0.181,1.735
102,-2.1663,43.2466,14.0,7.0,4.0,1.0,0.915,2.208,0.258,2.205
103,-2.1055,43.2304,109.0,13.0,38.0,4.0,-0.353,1.612,0.173,2.840
104,-5.9550,43.1458,21.0,7.0,1.0,1.0,2.000,2.367,-0.364,0.824
105,-5.9508,43.1444,11.0,5.0,1.0,1.0,2.242,2.367,-0.364,0.824
106,-5.9458,43.1443,11.0,6.0,1.0,1.0,2.143,2.486,-0.402,0.975
107,-5.9567,43.1430,9.0,5.0,2.0,1.0,2.197,2.367,-0.364,0.824
108,-5.9407,43.1421,10.0,5.0,0.0,0.0,2.244,2.407,-0.366,0.948
109,-5.9609,43.1406,32.0,11.0,5.0,1.0,1.993,1.413,-0.346,0.726
110,-5.9414,43.1380,18.0,9.0,0.0,0.0,2.096,2.129,-0.649,1.032
111,-5.9427,43.1343,11.0,6.0,0.0,0.0,1.659,2.248,-0.924,1.267
112,-5.9414,43.1296,2.0,2.0,0.0,0.0,1.171,1.890,-0.999,1.236
113,-4.3021,43.1296,5.0,5.0,0.0,0.0,0.393,2.327,-0.341,0.872
114,-4.3012,43.1289,10.0,7.0,1.0,1.0,0.998,2.327,-0.341,0.872
115,-5.9403,43.1279,1.0,1.0,0.0,0.0,1.024,1.890,-0.999,1.236
116,-4.2959,43.1266,7.0,5.0,1.0,1.0,0.651,2.049,-0.143,0.723
117,-4.2988,43.1266,14.0,8.0,1.0,1.0,1.081,2.049,-0.143,0.723
118,-4.3045,43.1259,1.0,1.0,0.0,0.0,0.055,2.327,-0.341,0.872
119,-4.2965,43.1248,6.0,2.0,1.0,1.0,1.067,2.049,-0.285,0.723
120,-4.3037,43.1231,1.0,1.0,0.0,0.0,0.609,2.447,-0.568,0.881
121,-4.3080,43.1215,4.0,4.0,0.0,0.0,1.165,2.447,-0.568,0.881
122,-4.3034,43.1195,0.0,0.0,0.0,0.0,0.499,2.447,-0.568,0.881
123,-4.3004,43.1190,0.0,0.0,0.0,0.0,0.785,2.447,-0.568,0.881
124,-5.2181,43.1130,0.0,0.0,0.0,0.0,1.907,-0.376,-1.308,2.154
125,-5.2211,43.1106,6.0,4.0,0.0,0.0,1.743,-0.376,-1.308,2.154
126,-4.7238,43.1101,18.0,10.0,2.0,1.0,1.277,1.294,-0.684,1.480
127,-4.7274,43.1083,9.0,3.0,0.0,0.0,0.784,0.976,-0.429,1.238
128,-5.2206,43.1061,4.0,2.0,0.0,0.0,1.639,1.453,-1.336,1.970
129,-2.7139,43.1051,7.0,4.0,0.0,0.0,1.786,1.294,-0.097,1.879
130,-4.7283,43.1047,1.0,1.0,0.0,0.0,1.008,2.009,-0.636,1.238
131,-5.2187,43.1044,1.0,1.0,0.0,0.0,1.479,1.453,-1.336,1.970
132,-2.7239,43.1037,1.0,1.0,0.0,0.0,1.415,1.811,-0.155,1.819
133,-5.2192,43.1023,0.0,0.0,0.0,0.0,1.407,1.453,-1.336,1.970
134,-4.7280,43.1010,2.0,1.0,0.0,0.0,1.420,2.009,-0.636,1.238
135,-4.7318,43.0987,6.0,4.0,0.0,0.0,1.166,1.970,-1.052,1.428

136,-2.7246,43.0985,11.0,7.0,1.0,1.0,1.418,1.930,-0.232,1.831
137,-4.7397,43.0951,1.0,1.0,0.0,0.0,1.577,2.089,-0.938,1.397
138,-4.7434,43.0931,2.0,1.0,0.0,0.0,1.406,2.009,-1.194,1.466
139,-4.7397,43.0924,3.0,2.0,0.0,0.0,1.173,2.089,-0.938,1.397
140,-4.7487,43.0923,1.0,1.0,0.0,0.0,1.786,2.009,-1.194,1.466
141,-4.7505,43.0914,5.0,4.0,0.0,0.0,1.008,1.691,-1.486,1.652
142,-2.6981,43.0869,20.0,6.0,0.0,0.0,0.524,2.009,-0.401,1.914
143,-2.6918,43.0832,13.0,6.0,0.0,0.0,0.729,1.811,-0.599,1.958
144,-4.4748,43.0787,14.0,7.0,1.0,1.0,1.382,1.652,-1.060,2.160
145,-4.4853,43.0767,5.0,4.0,1.0,1.0,1.790,1.652,-0.805,1.809
146,-4.4741,43.0766,4.0,3.0,0.0,0.0,1.419,1.652,-1.060,2.160
147,-4.4729,43.0734,1.0,1.0,0.0,0.0,2.946,1.652,-1.126,2.009
148,-4.4772,43.0701,9.0,2.0,0.0,0.0,1.538,2.407,-0.853,1.701
149,-4.4740,43.0693,0.0,0.0,0.0,0.0,0.739,1.652,-1.126,2.009
150,-4.4806,43.0672,0.0,0.0,0.0,0.0,1.850,2.407,-0.853,1.701
151,-2.4881,43.0620,46.0,9.0,7.0,1.0,0.933,0.300,0.080,1.190
152,-5.1447,43.0596,0.0,0.0,0.0,0.0,0.904,1.413,-1.600,1.594
153,-5.1485,43.0577,0.0,0.0,0.0,0.0,-0.021,2.288,-1.449,1.564
154,-5.1401,43.0571,4.0,3.0,0.0,0.0,1.062,1.970,-1.402,1.436
155,-5.1587,43.0570,3.0,2.0,0.0,0.0,1.351,0.141,-1.476,1.711
156,-5.1546,43.0569,7.0,4.0,0.0,0.0,1.777,1.413,-1.477,1.650
157,-2.4528,43.0558,6.0,5.0,2.0,1.0,0.629,1.930,0.080,1.467
158,-2.4559,43.0535,14.0,6.0,4.0,1.0,1.147,1.930,0.080,1.467
159,-2.4832,43.0454,32.0,9.0,7.0,1.0,0.198,1.453,-0.089,1.825
160,-2.4878,43.0409,11.0,6.0,1.0,1.0,0.982,1.373,-0.193,1.800
161,-2.5757,43.0270,2.0,1.0,0.0,0.0,0.863,1.811,-0.616,1.608
162,-2.5700,43.0267,19.0,8.0,0.0,0.0,0.902,1.771,-0.675,1.535
163,-2.5787,43.0238,2.0,1.0,0.0,0.0,0.918,1.731,-0.645,1.710
164,-4.6250,43.0067,13.0,8.0,5.0,2.0,0.115,-0.257,-2.148,2.121
165,-2.9018,43.0052,26.0,9.0,1.0,1.0,1.234,2.288,-0.210,0.858
166,-2.9085,43.0033,23.0,14.0,1.0,1.0,1.072,2.288,-0.210,0.858
167,-2.8958,43.0021,33.0,13.0,2.0,2.0,1.179,2.049,-0.210,0.960
168,-2.8780,42.9911,18.0,7.0,1.0,1.0,1.422,1.890,-0.295,1.042
169,-2.7339,42.9877,5.0,3.0,2.0,1.0,0.765,1.055,-0.691,1.046
170,-2.8800,42.9872,6.0,5.0,1.0,1.0,1.143,1.254,-0.295,1.042
171,-2.8741,42.9865,27.0,9.0,0.0,0.0,1.272,2.248,-0.418,1.425
172,-2.7128,42.9863,4.0,3.0,2.0,1.0,-0.089,0.658,-0.558,1.007
173,-2.7345,42.9835,6.0,6.0,1.0,1.0,1.052,1.055,-0.691,1.046
174,-1.9384,42.9726,8.0,5.0,1.0,1.0,1.183,2.407,-0.919,2.153
175,-1.9431,42.9717,8.0,3.0,0.0,0.0,0.801,2.486,-0.994,2.154
176,-1.9491,42.9703,19.0,4.0,0.0,0.0,0.398,2.486,-0.994,2.154
177,-1.9540,42.9702,3.0,2.0,0.0,0.0,0.443,2.407,-1.118,2.224
178,-1.9649,42.9698,30.0,7.0,0.0,0.0,0.322,2.288,-1.212,2.358
179,-1.9649,42.9698,1.0,1.0,0.0,0.0,0.516,2.288,-1.212,2.358
180,-1.9709,42.9697,7.0,2.0,0.0,0.0,0.206,2.129,-1.268,2.536
181,-1.9752,42.9673,11.0,5.0,0.0,0.0,-0.138,2.129,-1.402,2.749

182,-1.9813,42.9666,5.0,3.0,0.0,0.0,0.463,1.532,-1.402,3.063
183,-2.0746,42.9578,8.0,6.0,0.0,0.0,1.142,1.771,-0.832,2.761
184,-2.0794,42.9572,20.0,10.0,1.0,1.0,1.406,2.526,-0.681,2.170
185,-2.0847,42.9552,7.0,4.0,0.0,0.0,1.073,2.089,-0.682,2.246
186,-2.9016,42.9451,3.0,2.0,0.0,0.0,-0.336,-0.734,-0.625,0.772
187,-2.9060,42.9447,53.0,7.0,13.0,3.0,-1.004,-0.734,-0.625,0.772
188,-2.9105,42.9417,15.0,5.0,0.0,0.0,1.237,0.141,-0.643,0.772
189,-2.6622,42.9387,2.0,2.0,0.0,0.0,-0.943,-0.575,-0.482,1.024
190,-2.6614,42.9344,2.0,1.0,2.0,1.0,-0.975,-0.575,-0.482,1.024
191,-1.9959,42.9272,10.0,5.0,0.0,0.0,0.842,-0.813,-0.415,1.683
192,-1.9496,42.9202,43.0,7.0,36.0,3.0,0.004,-0.813,-0.417,1.271
193,-2.0611,42.9190,90.0,12.0,9.0,3.0,-0.357,-0.495,-0.492,1.524
194,-1.9393,42.9143,10.0,5.0,3.0,1.0,-0.897,-0.575,-0.474,1.445
195,-2.0160,42.8666,4.0,4.0,0.0,0.0,0.680,1.731,-0.774,2.310
196,-2.0658,42.8661,18.0,7.0,6.0,2.0,-0.344,0.101,-1.409,2.803
197,-2.0105,42.8654,0.0,0.0,0.0,0.0,0.987,-0.455,-1.257,2.310
198,-1.9981,42.8452,0.0,0.0,0.0,0.0,-1.004,-0.813,-1.276,2.488
199,-2.0060,42.8448,0.0,0.0,0.0,0.0,-1.115,-0.217,-1.257,2.450
200,-2.0124,42.8438,31.0,6.0,5.0,2.0,-0.345,-0.416,-1.229,2.306
201,-1.9956,42.8430,1.0,1.0,0.0,0.0,-1.083,-0.813,-1.276,2.488
202,-1.9920,42.8409,13.0,5.0,2.0,1.0,-0.360,-0.217,-1.257,2.304
203,-1.9984,42.8390,7.0,3.0,1.0,1.0,-0.867,-0.217,-1.257,2.304
204,-1.9942,42.8377,6.0,3.0,1.0,1.0,-0.688,-0.217,-1.257,2.304
205,-3.0092,42.6917,0.0,0.0,0.0,0.0,-0.813,-0.419,0.182
206,-3.0086,42.6887,0.0,0.0,0.0,0.0,-0.813,-0.429,0.180
207,-4.5571,42.6795,8.0,5.0,0.0,0.0,1.558,0.419,-1.183,0.587
208,-3.1141,42.6742,0.0,0.0,0.0,0.0,1.686,1.413,-0.871,0.439
209,-3.0954,42.6688,4.0,2.0,0.0,0.0,0.718,1.532,-0.786,0.269
210,-3.2595,42.6566,18.0,1.0,0.0,0.0,-0.813,-0.732,0.626
211,-3.2723,42.6536,102.0,10.0,4.0,3.0,-0.773,-0.732,0.626
212,-3.2631,42.6526,5.0,4.0,0.0,0.0,-0.813,-0.732,0.626
213,-3.2550,42.6520,2.0,1.0,0.0,0.0,-0.813,-0.751,0.626
214,-3.2621,42.6485,70.0,5.0,0.0,0.0,-0.654,-0.713,0.454
215,-3.2529,42.6444,3.0,1.0,0.0,0.0,-0.813,-0.732,0.493
216,-3.2671,42.6429,13.0,5.0,1.0,1.0,-0.614,-0.732,0.454
217,-3.2511,42.6381,41.0,5.0,0.0,0.0,-0.813,-0.705,0.418
218,-3.2512,42.6347,40.0,3.0,0.0,0.0,-0.813,-0.705,0.418
219,-4.6699,42.5964,0.0,0.0,0.0,0.0,-1.303,-0.614,-1.174,0.377
220,-4.7036,42.5731,1.0,1.0,0.0,0.0,1.060,-0.773,-1.146,0.422
221,-4.7924,42.4305,8.0,3.0,1.0,1.0,-1.113,-0.614,-1.005,-0.189
222,-4.2073,42.4204,7.0,1.0,0.0,0.0,-1.303,-0.773,-0.889,-0.094
223,-4.8511,42.3824,17.0,4.0,0.0,0.0,0.804,0.539,-0.986,-0.166
224,-5.1361,42.2451,27.0,1.0,0.0,0.0,-1.303,-0.614,-0.762,-0.476
225,-3.7709,42.1330,2.0,1.0,0.0,0.0,-1.303,-0.773,-1.005,-0.139
226,-3.7732,42.1281,125.0,2.0,0.0,0.0,-1.036,-0.773,-1.005,-0.139
227,-3.7766,42.1223,9.0,2.0,0.0,0.0,1.016,-0.575,-0.986,-0.171

228,-3.7710,42.1106,20.0,1.0,0.0,0.0,-1.303,-0.773,-0.967,-0.202
229,-3.7724,42.1085,0.0,0.0,0.0,0.0,-1.303,-0.773,-0.967,-0.202
230,-3.6988,42.0322,18.0,2.0,0.0,0.0,-1.303,-0.535,-0.900,-0.449
231,-3.7161,42.0311,4.0,1.0,0.0,0.0,-1.303,-0.773,-0.891,-0.450
232,-5.1182,41.9792,47.0,5.0,1.0,1.0,-1.303,-0.813,-0.693,-0.629
233,-3.4099,41.9677,0.0,0.0,0.0,0.0,-0.098,-1.355,0.125
234,-3.4098,41.9627,0.0,0.0,0.0,0.0,-0.535,-1.242,-0.049
235,-3.8418,41.9464,26.0,1.0,0.0,0.0,-1.303,-0.734,-1.010,-0.410
236,-3.8405,41.9420,49.0,2.0,0.0,0.0,-0.787,-0.734,-1.010,-0.383
237,-3.7483,41.9350,8.0,1.0,0.0,0.0,-0.714,-0.734,-1.090,-0.262
238,-3.7540,41.9340,0.0,0.0,0.0,0.0,-0.630,-0.734,-1.091,-0.267
239,-3.8913,41.9317,85.0,2.0,0.0,0.0,-1.303,-0.734,-0.981,-0.468
240,-3.8928,41.9279,323.0,8.0,0.0,0.0,-1.303,-0.734,-0.981,-0.473
241,-3.4571,41.9079,0.0,0.0,0.0,0.0,-0.376,-1.328,0.028
242,-3.4719,41.9067,21.0,9.0,0.0,0.0,-0.177,-1.299,-0.003
243,-3.4654,41.9063,10.0,7.0,0.0,0.0,0.351,-0.376,-1.309,0.028
244,-3.4655,41.9063,0.0,0.0,0.0,0.0,-0.376,-1.309,0.028
245,-3.4568,41.9036,18.0,4.0,0.0,0.0,1.027,-0.376,-1.328,0.028
246,-3.4523,41.9018,7.0,3.0,0.0,0.0,0.089,-0.376,-1.328,0.028
247,-3.4471,41.9007,6.0,3.0,0.0,0.0,0.234,-0.575,-1.365,0.028
248,-3.9122,41.8912,11.0,1.0,0.0,0.0,-1.303,-0.813,-1.011,-0.539
249,-3.9065,41.8912,2.0,1.0,0.0,0.0,-1.303,-0.734,-1.000,-0.539
250,-3.8877,41.8681,39.0,2.0,0.0,0.0,-1.303,-0.734,-1.010,-0.520
251,-3.8902,41.8642,10.0,2.0,0.0,0.0,-1.303,-0.813,-0.981,-0.520
252,-3.4222,41.8570,4.0,1.0,0.0,0.0,-1.303,0.260,-1.184,-0.083
253,-4.9137,41.8464,6.0,3.0,0.0,0.0,-1.303,-0.813,-0.790,-0.633
254,-2.9379,41.8439,4.0,1.0,0.0,0.0,-0.138,1.890,-1.478,0.011
255,-2.9420,41.8416,11.0,3.0,0.0,0.0,0.055,1.890,-1.459,0.128
256,-2.9474,41.8385,6.0,4.0,0.0,0.0,0.245,1.771,-1.496,0.128
257,-4.8360,41.8264,12.0,8.0,0.0,0.0,0.642,0.141,-0.788,-0.611
258,-2.8426,41.8020,6.0,1.0,0.0,0.0,-1.303,-0.773,-1.404,-0.191
259,-2.8478,41.8003,1.0,1.0,0.0,0.0,-1.303,-0.773,-1.404,-0.191
260,-3.9226,41.7811,10.0,7.0,3.0,2.0,-1.303,-0.773,-0.859,-0.619
261,-2.7772,41.7796,0.0,0.0,0.0,0.0,-0.137,-1.470,-0.049
262,-3.8988,41.7644,11.0,4.0,1.0,1.0,-1.303,-0.773,-0.858,-0.522
263,-3.8943,41.7622,10.0,5.0,1.0,1.0,1.145,-0.773,-0.858,-0.522
264,-3.8932,41.7582,13.0,10.0,1.0,1.0,1.287,-0.773,-0.858,-0.549
265,-5.1389,41.7500,18.0,2.0,0.0,0.0,0.645,1.016,-0.729,-0.569
266,-2.7890,41.7470,16.0,9.0,0.0,0.0,0.844,-0.416,-1.385,-0.028
267,-2.7859,41.7450,37.0,9.0,1.0,1.0,0.419,-0.416,-1.385,-0.028
268,-2.7809,41.7441,24.0,9.0,0.0,0.0,0.415,-0.495,-1.404,-0.030
269,-2.7752,41.7428,35.0,7.0,2.0,1.0,-0.032,-0.416,-1.404,-0.030
270,-2.7748,41.7426,22.0,5.0,0.0,0.0,0.201,-0.416,-1.405,-0.055
271,-2.7748,41.7408,0.0,0.0,0.0,0.0,-0.015,-0.336,-1.385,-0.093
272,-2.7621,41.7386,5.0,3.0,0.0,0.0,-0.177,-1.386,-0.120
273,-2.7565,41.7361,8.0,5.0,0.0,0.0,-0.773,-1.358,-0.172

274,-2.7753,41.7334,1.0,1.0,0.0,0.0,, -0.336,-1.385,-0.068
275,-3.0355,41.7303,0.0,0.0,0.0,0.0,, -0.495,-1.212,-0.154
276,-3.0354,41.7174,5.0,1.0,0.0,0.0,, -0.495,-1.240,-0.137
277,-5.2645,41.7094,0.0,0.0,0.0,0.0, -1.303,-0.734,-0.562,-0.691
278,-3.0442,41.7021,2.0,2.0,0.0,0.0, -1.303,-0.773,-1.090,-0.403
279,-4.9401,41.6880,88.0,2.0,0.0,0.0, -1.303,-0.773,-0.759,-0.615
280,-3.0799,41.6839,7.0,5.0,1.0,1.0,1.073,-0.098,-1.185,-0.151
281,-3.0510,41.6595,2.0,2.0,1.0,1.0, -1.303,-0.416,-1.044,-0.499
282,-3.0466,41.6243,52.0,16.0,1.0,1.0,0.605,-0.416,-1.071,-0.326
283,-3.0420,41.6218,26.0,9.0,1.0,1.0,0.540,0.101,-1.071,-0.326
284,-5.2992,41.6028,116.0,5.0,0.0,0.0, -1.303,-0.773,-0.529,-0.702
285,-3.0910,41.5767,2.0,2.0,0.0,0.0, -0.862,-0.734,-1.051,-0.371
286,-3.0956,41.5761,4.0,3.0,0.0,0.0, -0.940,-0.773,-1.090,-0.295
287,-3.0204,41.5696,0.0,0.0,0.0,0.0,, -0.773,-1.069,-0.285
288,-5.5032,41.4099,21.0,6.0,3.0,1.0,0.733,0.022,-0.488,-0.719
289,-4.0090,41.2981,10.0,2.0,0.0,0.0, -0.206,0.061,-0.905,-0.506
290,-4.0143,41.2967,10.0,2.0,0.0,0.0,0.144,0.061,-0.905,-0.506
291,-5.5508,41.2873,1.0,1.0,0.0,0.0, -1.303,-0.773,-0.619,-0.768
292,-3.9830,41.2865,13.0,2.0,0.0,0.0, -0.123,0.220,-0.934,-0.463
293,-3.9836,41.2823,15.0,5.0,0.0,0.0,0.082,-0.455,-0.934,-0.479
294,-4.4293,41.2396,13.0,6.0,0.0,0.0,0.450,-0.257,-0.697,-0.692
295,-4.4262,41.2358,7.0,5.0,0.0,0.0, -0.085,-0.257,-0.697,-0.692
296,-4.3160,41.2248,65.0,7.0,7.0,2.0, -1.303,-0.734,-0.753,-0.661
297,-3.9659,41.2095,15.0,5.0,1.0,1.0, -0.083,0.857,-0.943,-0.472
298,-3.9701,41.2064,30.0,7.0,0.0,0.0, -0.382,-0.137,-0.933,-0.515
299,-3.9931,41.2024,82.0,3.0,1.0,1.0, -1.303,-0.694,-0.934,-0.542
300,-3.9931,41.1990,18.0,3.0,0.0,0.0, -1.303,-0.257,-0.935,-0.542
301,-4.0044,41.1718,101.0,6.0,0.0,0.0, -1.303,-0.773,-0.971,-0.438
302,-4.4921,41.1675,176.0,5.0,4.0,1.0, -1.303,-0.734,-0.679,-0.809
303,-4.0040,41.1673,76.0,3.0,0.0,0.0, -1.303,-0.773,-0.971,-0.438
304,-4.4915,41.1630,27.0,8.0,2.0,2.0, -1.303,-0.773,-0.698,-0.809
305,-4.5255,41.1574,6.0,3.0,0.0,0.0,0.371,-0.575,-0.699,-0.827
306,-2.3568,41.1560,3.0,2.0,0.0,0.0,5.490,-0.773,-1.367,-0.428
307,-4.5202,41.1558,10.0,5.0,0.0,0.0,0.138,-0.575,-0.699,-0.809
308,-3.9753,41.1255,39.0,4.0,0.0,0.0, -0.918,-0.773,-1.066,-0.330
309,-5.2620,41.1138,337.0,5.0,0.0,0.0, -1.113,-0.773,-0.616,-0.774
310,-5.2620,41.1138,16.0,7.0,5.0,2.0,1.284,-0.773,-0.616,-0.774
311,-3.9650,41.1105,3.0,3.0,0.0,0.0, -1.004,-0.177,-1.158,-0.313
312,-2.1434,41.0926,4.0,3.0,0.0,0.0, -0.211,-0.376,-1.611,-0.349
313,-2.1365,41.0916,27.0,2.0,0.0,0.0,, -0.137,-1.593,-0.425
314,-2.1243,41.0905,18.0,7.0,0.0,0.0,0.190,-0.257,-1.593,-0.464
315,-2.1308,41.0891,2.0,2.0,0.0,0.0,, -0.257,-1.592,-0.448
316,-2.3106,41.0890,8.0,4.0,0.0,0.0,0.192,-0.773,-1.451,-0.322
317,-2.1190,41.0888,6.0,2.0,0.0,0.0,0.512,-0.257,-1.593,-0.464
318,-2.1143,41.0861,10.0,6.0,0.0,0.0,0.391,-0.376,-1.565,-0.516
319,-2.2452,41.0847,5.0,4.0,0.0,0.0,0.245,-0.296,-1.566,-0.227

320,-4.3794,41.0837,12.0,4.0,1.0,1.0,-1.303,-0.734,-0.828,-0.633
321,-2.1988,41.0705,0.0,0.0,0.0,0.0,-0.296,-1.651,-0.257
322,-2.1988,41.0705,16.0,8.0,1.0,1.0,-0.296,-1.651,-0.257
323,-2.1951,41.0601,5.0,3.0,0.0,0.0,0.081,-0.455,-1.679,-0.231
324,-4.3519,41.0583,38.0,5.0,0.0,0.0,-1.303,-0.734,-0.921,-0.573
325,-4.2157,41.0533,125.0,10.0,46.0,2.0,-0.190,-0.773,-0.938,-0.460
326,-2.1824,41.0422,3.0,3.0,0.0,0.0,-1.303,-0.773,-1.575,-0.334
327,-2.3320,41.0361,5.0,2.0,0.0,0.0,-1.303,-0.654,-1.405,-0.243
328,-2.1878,41.0336,3.0,1.0,0.0,0.0,-1.303,-0.813,-1.537,-0.367
329,-4.3576,41.0213,13.0,3.0,0.0,0.0,-1.303,-0.734,-0.846,-0.752
330,-4.3224,41.0050,12.0,6.0,0.0,0.0,-0.429,-0.257,-0.846,-0.733
331,-4.3195,41.0015,21.0,6.0,0.0,0.0,-0.429,-0.257,-0.846,-0.733
332,-4.2754,40.9808,79.0,1.0,0.0,0.0,-1.303,-0.773,-0.901,-0.557
333,-4.9223,40.9782,55.0,6.0,2.0,2.0,-1.303,-0.773,-0.787,-0.812
334,-4.2710,40.9780,82.0,6.0,7.0,2.0,-1.303,-0.813,-0.901,-0.557
335,-4.2692,40.9447,55.0,3.0,0.0,0.0,-1.303,-0.813,-0.919,-0.541
336,-2.0507,40.9201,2.0,2.0,0.0,0.0,-0.062,-0.773,-1.520,-0.383
337,-2.0565,40.9187,8.0,5.0,0.0,0.0,0.760,-0.773,-1.520,-0.383
338,-2.0444,40.9179,6.0,2.0,0.0,0.0,0.176,0.061,-1.520,-0.383
339,-4.8357,40.9169,11.0,4.0,0.0,0.0,0.043,-0.614,-0.845,-0.836
340,-2.0565,40.9164,18.0,8.0,1.0,1.0,1.269,-0.773,-1.577,-0.268
341,-2.0377,40.9163,3.0,2.0,0.0,0.0,0.510,0.300,-1.549,-0.319
342,-2.0273,40.9159,6.0,4.0,0.0,0.0,0.866,0.022,-1.549,-0.409
343,-2.0324,40.9150,10.0,4.0,0.0,0.0,0.505,0.022,-1.549,-0.409
344,-2.0273,40.9133,7.0,4.0,0.0,0.0,0.688,0.022,-1.549,-0.409
345,-4.0093,40.8935,5.0,3.0,0.0,0.0,1.119,0.220,-1.342,-0.199
346,-4.0092,40.8894,3.0,2.0,0.0,0.0,0.600,1.612,-1.390,-0.181
347,-2.3665,40.8676,13.0,6.0,1.0,1.0,-0.868,-0.773,-1.246,-0.416
348,-2.3665,40.8676,9.0,6.0,1.0,1.0,-1.303,-0.773,-1.246,-0.416
349,-3.8861,40.8571,8.0,7.0,0.0,0.0,0.637,0.101,-1.532,-0.332
350,-4.8370,40.8531,12.0,3.0,2.0,1.0,-1.303,-0.773,-0.845,-0.836
351,-2.3849,40.8481,1.0,1.0,0.0,0.0,-0.773,-1.330,-0.290
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353,-2.3953,40.8442,8.0,2.0,0.0,0.0,-1.303,-0.773,-1.321,-0.265
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355,-2.3028,40.8430,9.0,4.0,1.0,1.0,-0.614,-0.989,-0.605
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357,-3.8362,40.8425,0.0,0.0,0.0,0.0,-1.113,1.850,-2.186,0.240
358,-3.8320,40.8280,1.0,1.0,0.0,0.0,-0.511,-0.177,-2.356,0.175
359,-4.0003,40.7871,1.0,1.0,0.0,0.0,-1.002,1.373,-2.459,0.291
360,-4.0050,40.7838,33.0,8.0,0.0,0.0,0.473,1.095,-2.459,0.291
361,-4.0169,40.7517,18.0,4.0,0.0,0.0,0.363,0.976,-1.817,0.045
362,-4.0303,40.7266,2.0,2.0,1.0,1.0,-0.180,0.300,-1.562,0.019
363,-4.0285,40.7244,5.0,2.0,0.0,0.0,0.655,-0.177,-1.496,0.007
364,-4.0240,40.7222,5.0,3.0,2.0,1.0,0.373,-0.495,-1.384,-0.106
365,-3.9216,40.6969,8.0,5.0,1.0,1.0,0.674,0.380,-0.977,-0.326

366,-4.0514,40.6958,6.0,3.0,1.0,1.0,0.253,0.300,-1.070,-0.258
367,-3.8957,40.6938,18.0,9.0,2.0,1.0,0.207,-0.177,-1.042,-0.113
368,-4.2758,40.6926,16.0,9.0,4.0,1.0,0.403,-0.336,-2.194,-0.010
369,-4.0816,40.6925,131.0,12.0,4.0,1.0,0.715,0.061,-1.061,-0.400
370,-3.9238,40.6897,18.0,5.0,1.0,1.0,0.602,0.499,-1.015,-0.240
371,-4.2580,40.6873,22.0,9.0,3.0,1.0,0.584,0.380,-2.136,0.015
372,-6.7195,40.6697,69.0,14.0,11.0,3.0,-0.122,-0.813,-0.528,0.038
373,-6.7238,40.6523,35.0,13.0,4.0,2.0,0.304,0.936,-0.499,-0.012
374,-6.7221,40.6484,64.0,13.0,5.0,3.0,0.129,-0.654,-0.499,-0.016
375,-6.7117,40.6380,94.0,8.0,6.0,2.0,-0.813,-0.452,-0.053
376,-3.7693,40.5219,40.0,10.0,5.0,2.0,0.515,-0.336,-0.465,-0.534
377,-3.7593,40.5207,25.0,14.0,3.0,2.0,0.567,-0.614,-0.513,-0.461
378,-7.2251,40.4932,2.0,1.0,0.0,0.0,0.776,0.061,-0.859,0.750
379,-7.3219,40.4920,1.0,1.0,1.0,1.0,0.170,1.135,-1.031,0.875
380,-7.1403,40.4595,13.0,7.0,0.0,0.0,-0.044,0.101,-0.738,0.327
381,-7.3653,40.4521,3.0,2.0,1.0,1.0,1.255,-0.018,-1.089,1.306
382,-7.3820,40.4269,19.0,7.0,9.0,2.0,0.574,0.459,-0.681,1.033
383,-7.5201,40.4014,10.0,5.0,0.0,0.0,1.340,0.737,-0.714,0.755
384,-7.3858,40.2426,5.0,3.0,1.0,1.0,0.041,-0.296,-0.296,0.923
385,-7.4404,40.2382,32.0,6.0,2.0,2.0,-0.349,-0.455,-0.248,0.992
386,-7.4997,40.2189,20.0,7.0,5.0,2.0,0.569,-0.376,-0.163,0.708
387,-3.9128,40.1077,1.0,1.0,0.0,0.0,-1.303,-0.773,-0.389,-0.715
388,-3.9012,40.1064,44.0,11.0,18.0,4.0,-0.124,-0.773,-0.389,-0.734
389,-5.1440,40.0861,10.0,7.0,2.0,2.0,-0.156,-0.614,-0.011,0.843
390,-5.0505,40.0671,48.0,10.0,18.0,2.0,0.356,0.101,-0.105,0.822
391,-5.0668,40.0600,45.0,13.0,12.0,3.0,-0.389,-0.137,-0.049,0.745
392,-3.9277,40.0589,64.0,5.0,1.0,1.0,-1.303,-0.654,-0.340,-0.758
393,-3.8346,40.0510,103.0,7.0,6.0,2.0,-1.303,-0.734,-0.256,-0.801
394,-4.9787,40.0096,11.0,4.0,3.0,2.0,-1.303,-0.654,-0.057,0.589
395,-3.9648,39.9905,26.0,4.0,1.0,1.0,-1.303,-0.734,-0.209,-0.815
396,-3.9788,39.9851,32.0,6.0,1.0,1.0,-1.303,-0.734,-0.228,-0.766
397,-3.9894,39.9598,41.0,10.0,17.0,2.0,-0.124,-0.773,-0.229,-0.746
398,-4.0000,39.9529,26.0,8.0,11.0,3.0,-0.058,-0.773,-0.265,-0.689
399,-4.9965,39.9335,27.0,6.0,1.0,1.0,-1.303,-0.575,-0.029,0.431
400,-5.0065,39.9319,68.0,5.0,3.0,2.0,-1.303,-0.813,-0.030,0.446
401,-5.0305,39.9281,30.0,8.0,9.0,2.0,-0.186,-0.217,-0.030,0.538
402,-5.6845,39.8763,125.0,4.0,2.0,2.0,-1.053,-0.813,0.258,0.215
403,-5.5661,39.8495,29.0,11.0,7.0,2.0,-0.290,-0.734,-0.016,0.558
404,-6.0300,39.8303,13.0,7.0,4.0,2.0,1.110,-0.813,0.206,0.269
405,-5.6240,39.8221,15.0,7.0,1.0,1.0,-0.207,-0.813,0.210,0.153
406,-4.1328,39.8086,32.0,10.0,13.0,3.0,-0.177,-0.773,-0.397,-0.598
407,-5.6095,39.8026,17.0,9.0,3.0,1.0,-0.033,-0.336,0.115,0.187
408,-4.0620,39.7898,8.0,3.0,0.0,0.0,-1.303,-0.773,-0.443,-0.641
409,-5.5035,39.7782,2.0,2.0,1.0,1.0,-0.377,-0.217,0.030,0.178
410,-4.1548,39.7766,34.0,10.0,18.0,2.0,-0.090,-0.773,-0.482,-0.609
411,-5.4417,39.7733,2.0,1.0,2.0,1.0,-0.745,0.101,0.085,0.025

412,-5.4702,39.7700,39.0,10.0,12.0,2.0,1.032,0.101,0.095,-0.021
413,-5.4377,39.7660,32.0,9.0,17.0,3.0,0.617,-0.137,0.047,0.090
414,-4.1364,39.7639,21.0,5.0,3.0,1.0,-1.303,-0.773,-0.511,-0.627
415,-4.1126,39.7534,11.0,7.0,4.0,3.0,-1.303,-0.773,-0.426,-0.760
416,-5.3742,39.7387,29.0,4.0,17.0,1.0,-1.303,-0.813,-0.065,0.093
417,-5.2516,39.7270,17.0,5.0,6.0,2.0,-0.026,-0.773,-0.053,-0.008
418,-5.4824,39.7258,37.0,8.0,20.0,2.0,2.345,0.300,-0.187,0.327
419,-5.2631,39.7257,3.0,1.0,0.0,0.0,-1.157,-0.813,-0.090,0.085
420,-5.2647,39.7250,6.0,5.0,2.0,2.0,-1.303,-0.813,-0.090,0.081
421,-4.2411,39.7126,3.0,2.0,1.0,1.0,-1.303,-0.773,-0.567,-0.463
422,-4.1883,39.7054,11.0,6.0,5.0,2.0,-1.303,-0.773,-0.626,-0.452
423,-5.9718,39.6976,25.0,10.0,8.0,3.0,0.012,-0.058,-0.023,0.272
424,-4.2603,39.6894,54.0,11.0,17.0,2.0,-0.124,-0.734,-0.537,-0.455
425,-5.2707,39.6799,10.0,5.0,3.0,1.0,0.799,0.459,-0.290,0.048
426,-4.2558,39.6750,36.0,6.0,4.0,1.0,-1.303,-0.773,-0.566,-0.418
427,-4.2723,39.6709,45.0,12.0,8.0,3.0,-0.236,-0.734,-0.564,-0.401
428,-5.2563,39.6707,31.0,8.0,2.0,2.0,0.127,-0.495,-0.243,-0.029
429,-4.5539,39.6694,35.0,8.0,9.0,3.0,0.343,-0.098,-0.477,-0.421
430,-4.5269,39.6526,35.0,7.0,10.0,2.0,0.037,-0.137,-0.590,-0.207
431,-4.5265,39.6506,39.0,9.0,15.0,2.0,0.097,-0.137,-0.590,-0.207
432,-5.9259,39.6467,26.0,9.0,9.0,2.0,-0.114,-0.535,0.028,0.082
433,-7.9197,39.6104,48.0,15.0,6.0,3.0,0.081,-0.177,0.205,0.011
434,-7.8701,39.5854,4.0,3.0,0.0,0.0,1.167,1.254,0.149,0.193
435,-4.5280,39.5790,46.0,12.0,8.0,1.0,0.823,0.419,-1.168,0.065
436,-4.5461,39.5706,16.0,8.0,0.0,0.0,1.579,0.260,-0.998,-0.132
437,-5.8842,39.5673,49.0,16.0,10.0,3.0,-0.525,-0.257,0.064,-0.205
438,-4.5818,39.5638,9.0,4.0,2.0,1.0,0.978,0.459,-0.763,-0.303
439,-8.1452,39.5570,4.0,3.0,1.0,1.0,0.565,0.300,0.375,0.131
440,-7.8626,39.5524,11.0,7.0,3.0,2.0,0.744,-0.416,0.223,0.068
441,-3.5728,39.5299,67.0,2.0,0.0,0.0,-1.303,-0.813,-0.445,-0.820
442,-3.5737,39.5288,54.0,3.0,1.0,1.0,-1.303,-0.813,-0.445,-0.820
443,-3.5576,39.5169,0.0,0.0,0.0,0.0,-1.303,-0.813,-0.425,-0.820
444,-4.5721,39.5154,19.0,9.0,4.0,1.0,1.624,0.459,-0.678,-0.170
445,-3.5577,39.5120,1.0,1.0,0.0,0.0,-1.303,-0.813,-0.435,-0.819
446,-3.7075,39.5087,17.0,7.0,4.0,1.0,0.657,-0.813,-0.474,-0.802
447,-4.5949,39.4945,22.0,7.0,1.0,1.0,1.609,0.419,-0.820,0.051
448,-4.6080,39.4873,14.0,5.0,4.0,1.0,1.063,0.061,-0.621,-0.017
449,-4.7249,39.4394,19.0,9.0,3.0,2.0,1.559,0.260,-0.291,-0.071
450,-3.5223,39.4281,15.0,5.0,0.0,0.0,-1.303,-0.813,-0.401,-0.845
451,-4.7248,39.4228,104.0,6.0,2.0,1.0,-1.268,-0.137,-0.367,0.053
452,-3.5220,39.4215,65.0,9.0,8.0,2.0,-0.253,-0.813,-0.419,-0.853
453,-8.4704,39.4016,34.0,5.0,2.0,2.0,-0.098,-0.575,0.930,-0.207
454,-4.7124,39.3669,2.0,2.0,1.0,1.0,-1.303,0.022,-0.310,-0.009
455,-4.7022,39.3601,13.0,5.0,3.0,2.0,0.188,-0.455,-0.328,0.075
456,-8.4926,39.3592,20.0,6.0,4.0,2.0,0.262,-0.813,0.959,-0.245
457,-5.0093,39.3569,26.0,10.0,6.0,2.0,0.876,0.539,0.065,-0.231

458,-5.0074,39.3519,39.0,12.0,9.0,1.0,0.211,-0.813,-0.105,0.094
459,-4.7290,39.3491,16.0,8.0,3.0,1.0,-0.279,-0.614,-0.282,-0.001
460,-4.7186,39.3490,15.0,3.0,3.0,2.0,-1.303,-0.137,-0.281,-0.016
461,-4.7332,39.3476,54.0,4.0,1.0,1.0,0.049,-0.614,-0.282,-0.001
462,-3.4590,39.3430,23.0,2.0,0.0,0.0,-0.517,-0.773,-0.359,-0.879
463,-3.4652,39.3390,3.0,3.0,0.0,0.0,-1.303,-0.416,-0.397,-0.826
464,-4.6640,39.3379,10.0,6.0,4.0,2.0,0.031,-0.296,-0.328,-0.067
465,-4.7627,39.3322,30.0,9.0,10.0,3.0,1.239,-0.177,-0.169,-0.094
466,-4.8038,39.3293,12.0,6.0,6.0,3.0,0.481,0.181,-0.112,-0.131
467,-5.0029,39.3291,25.0,10.0,2.0,1.0,-0.085,-0.376,-0.020,-0.087
468,-4.7864,39.3201,10.0,6.0,2.0,1.0,0.591,1.413,-0.245,-0.094
469,-5.0637,39.3184,2.0,2.0,1.0,1.0,-0.806,-0.813,0.036,-0.258
470,-4.7608,39.3181,46.0,10.0,10.0,2.0,0.276,0.101,-0.140,-0.128
471,-4.7796,39.3179,3.0,2.0,0.0,0.0,0.842,0.658,-0.198,-0.113
472,-4.7790,39.3149,70.0,10.0,8.0,1.0,0.612,0.698,-0.169,-0.172
473,-4.7720,39.3125,13.0,6.0,4.0,1.0,0.452,0.022,-0.197,-0.172
474,-3.4241,39.3094,24.0,9.0,7.0,1.0,0.056,-0.257,-0.547,-0.671
475,-8.5198,39.2882,13.0,6.0,6.0,1.0,-0.332,0.061,0.987,-0.227
476,-4.6496,39.2760,125.0,9.0,15.0,4.0,0.059,-0.495,-0.309,-0.183
477,-3.4150,39.2735,24.0,6.0,2.0,2.0,-1.191,-0.813,-0.254,-0.896
478,-3.4197,39.2683,38.0,5.0,1.0,1.0,-1.303,-0.773,-0.254,-0.894
479,-3.3505,39.2462,80.0,7.0,0.0,0.0,-0.723,-0.734,-0.276,-0.854
480,-3.4476,39.2260,13.0,5.0,1.0,1.0,-1.303,-0.813,-0.255,-0.870
481,-3.3965,39.2219,4.0,2.0,0.0,0.0,-1.303,-0.773,-0.275,-0.852
482,-4.7894,39.1883,8.0,5.0,1.0,1.0,0.992,0.260,-0.532,0.086
483,-4.7832,39.1852,2.0,2.0,0.0,0.0,0.979,0.300,-0.486,0.035
484,-4.8073,39.1829,6.0,3.0,2.0,1.0,0.666,-0.217,-0.401,-0.134
485,-4.8263,39.1747,4.0,2.0,0.0,0.0,0.828,-0.535,-0.428,0.023
486,-4.8281,39.1719,3.0,2.0,1.0,1.0,0.661,-0.058,-0.428,0.023
487,-4.8216,39.1677,7.0,3.0,0.0,0.0,1.197,-0.575,-0.429,-0.023
488,-4.8290,39.1676,5.0,2.0,0.0,0.0,1.022,-0.058,-0.428,0.023
489,-4.8290,39.1659,8.0,3.0,0.0,0.0,1.045,0.101,-0.447,0.076
490,-6.0647,39.0398,60.0,10.0,7.0,3.0,-1.303,-0.535,0.383,-0.717
491,-6.2175,38.9723,45.0,4.0,8.0,2.0,-0.897,-0.535,0.353,-0.675
492,-6.2354,38.9642,17.0,11.0,1.0,1.0,0.373,-0.813,0.381,-0.690
493,-3.3631,38.9007,74.0,4.0,0.0,0.0,-1.303,-0.773,-0.304,-0.896
494,-3.3672,38.8982,106.0,7.0,2.0,1.0,-1.004,-0.773,-0.295,-0.914
495,-3.3778,38.8968,10.0,5.0,2.0,1.0,-1.113,-0.773,-0.295,-0.914
496,-5.6149,38.8907,71.0,6.0,8.0,2.0,-1.303,-0.813,0.143,-0.626
497,-3.3802,38.8899,5.0,2.0,0.0,0.0,-1.303,-0.773,-0.295,-0.914
498,-5.6107,38.8871,5.0,4.0,3.0,2.0,-1.303,-0.813,0.143,-0.626
499,-5.6101,38.8855,15.0,5.0,4.0,1.0,-1.303,-0.813,0.143,-0.626
500,-5.4899,38.8851,3.0,2.0,0.0,0.0,-1.303,-0.813,0.120,-0.564
501,-3.3965,38.8845,7.0,4.0,2.0,1.0,-1.303,-0.773,-0.296,-0.927
502,-5.4957,38.8835,30.0,6.0,4.0,2.0,-1.303,-0.813,0.130,-0.546
503,-3.3994,38.8800,8.0,4.0,2.0,1.0,-1.303,-0.773,-0.296,-0.927

504,-5.5467,38.8784,2.0,2.0,1.0,1.0,-1.303,-0.813,0.198,-0.718
505,-5.5711,38.8774,22.0,5.0,0.0,0.0,-1.058,-0.813,0.283,-0.833
506,-5.5762,38.8755,11.0,5.0,4.0,2.0,-1.058,-0.813,0.227,-0.784
507,-5.5818,38.8745,43.0,8.0,25.0,2.0,-1.303,-0.813,0.207,-0.771
508,-5.5446,38.8737,118.0,8.0,23.0,2.0,-1.303,-0.654,0.178,-0.711
509,-5.4599,38.8667,37.0,4.0,1.0,1.0,-1.303,-0.813,0.091,-0.522
510,-5.4865,38.8173,7.0,3.0,2.0,1.0,-1.303,-0.813,0.110,-0.655
511,-3.5130,38.8039,33.0,10.0,6.0,1.0,0.248,-0.773,-0.374,-0.787
512,-8.2780,38.8006,36.0,15.0,12.0,4.0,0.036,0.698,0.765,-0.344
513,-8.3353,38.7981,33.0,12.0,3.0,2.0,0.401,0.817,0.803,-0.322
514,-3.5623,38.7978,27.0,7.0,3.0,1.0,-0.269,-0.813,-0.317,-0.885
515,-3.5618,38.7932,30.0,10.0,3.0,2.0,-0.257,-0.813,-0.317,-0.885
516,-3.5477,38.7734,39.0,6.0,0.0,0.0,-0.606,-0.773,-0.315,-0.867
517,-3.5531,38.7710,40.0,9.0,4.0,3.0,-0.687,-0.773,-0.306,-0.899
518,-8.2022,38.7152,58.0,15.0,6.0,2.0,0.063,-0.455,0.641,-0.397
519,-8.2054,38.6622,53.0,19.0,14.0,5.0,0.084,-0.018,0.642,-0.378
520,-8.2999,38.5099,39.0,12.0,3.0,3.0,-0.018,-0.614,0.868,-0.548
521,-4.6126,38.4342,12.0,5.0,0.0,0.0,0.076,-0.535,-0.285,-0.625
522,-8.4298,38.3943,64.0,10.0,16.0,2.0,-0.470,-0.614,1.300,-0.607
523,-3.5001,38.3841,10.0,6.0,3.0,1.0,1.125,0.419,-0.665,-0.737
524,-3.4996,38.3781,19.0,10.0,8.0,2.0,1.490,-0.296,-0.457,-0.658
525,-4.5745,38.3623,26.0,13.0,5.0,3.0,0.283,0.061,-0.437,-0.660
526,-3.8089,38.3621,3.0,3.0,1.0,1.0,1.042,0.101,-0.224,-0.733
527,-3.8047,38.3601,1.0,1.0,0.0,0.0,0.842,-0.177,-0.280,-0.733
528,-3.8007,38.3566,8.0,5.0,3.0,2.0,1.236,0.260,-0.157,-0.797
529,-3.7950,38.3561,16.0,5.0,1.0,1.0,1.161,0.181,-0.110,-0.808
530,-3.7893,38.3537,2.0,1.0,2.0,1.0,1.778,-0.098,-0.194,-0.737
531,-3.7831,38.3529,19.0,7.0,4.0,1.0,1.901,0.181,-0.251,-0.643
532,-3.7832,38.3529,1.0,1.0,0.0,0.0,1.587,0.181,-0.251,-0.643
533,-3.7781,38.3516,8.0,5.0,1.0,1.0,2.465,0.181,-0.251,-0.643
534,-4.3583,38.3403,74.0,13.0,11.0,3.0,-0.036,0.220,-0.310,-0.778
535,-4.3583,38.3403,50.0,10.0,7.0,1.0,-0.111,0.220,-0.310,-0.778
536,-4.5852,38.3398,16.0,2.0,0.0,0.0,-1.004,-0.654,-0.455,-0.653
537,-3.5348,38.3279,57.0,9.0,10.0,4.0,-0.642,-0.813,-0.428,-0.529
538,-3.5389,38.3241,81.0,12.0,5.0,4.0,-0.235,-0.813,-0.428,-0.493
539,-4.6790,38.2434,28.0,11.0,5.0,1.0,0.971,0.300,-0.409,-0.613
540,-8.5513,38.2384,5.0,3.0,1.0,1.0,-0.001,-0.575,1.386,-0.621
541,-4.3498,38.2125,51.0,10.0,7.0,1.0,0.521,-0.177,-0.500,-0.530
542,-8.5687,38.1621,29.0,12.0,9.0,4.0,-0.166,0.539,1.350,-0.602
543,-5.5635,38.1613,13.0,6.0,8.0,2.0,-0.525,-0.217,0.058,-0.874
544,-4.6804,38.1490,59.0,12.0,12.0,2.0,0.806,-0.416,-0.382,-0.545
545,-4.4074,38.1460,66.0,12.0,4.0,1.0,0.099,0.300,-0.089,-0.562
546,-4.5980,38.1457,23.0,4.0,16.0,1.0,-0.177,-0.416,-0.096,-0.750
547,-8.2405,38.1392,10.0,3.0,0.0,0.0,-1.303,-0.296,1.112,-0.632
548,-8.2689,38.1175,12.0,6.0,2.0,1.0,-1.303,-0.813,1.139,-0.606
549,-4.6503,38.1071,56.0,12.0,15.0,2.0,0.783,-0.217,-0.195,-0.575

550,-8.2745,38.1035,22.0,9.0,12.0,3.0,0.045,-0.813,1.138,-0.606
551,-4.4083,38.0894,38.0,10.0,18.0,2.0,0.286,-0.257,0.240,-0.684
552,-4.6284,38.0751,22.0,8.0,11.0,2.0,0.286,0.141,0.221,-0.718
553,-4.6285,38.0692,32.0,10.0,10.0,2.0,0.341,-0.177,-0.044,-0.592
554,-4.7358,38.0613,20.0,6.0,2.0,1.0,0.177,-0.734,-0.280,-0.584
555,-4.3861,38.0609,25.0,10.0,8.0,3.0,0.497,-0.018,0.212,-0.599
556,-4.5830,38.0537,32.0,8.0,17.0,2.0,0.342,-0.575,0.155,-0.721
557,-4.5832,38.0536,64.0,11.0,36.0,2.0,0.384,-0.575,0.155,-0.721
558,-4.5578,38.0475,49.0,7.0,35.0,2.0,1.572,-0.296,0.155,-0.626
559,-3.9323,38.0438,75.0,8.0,56.0,3.0,0.361,-0.654,0.332,-0.635
560,-4.5595,38.0416,53.0,9.0,16.0,2.0,0.829,-0.535,0.184,-0.717
561,-3.9331,38.0374,24.0,9.0,13.0,3.0,0.310,-0.654,0.350,-0.635
562,-4.6300,38.0368,24.0,5.0,9.0,1.0,0.269,-0.177,0.098,-0.594
563,-5.6710,37.9948,25.0,14.0,7.0,3.0,0.314,0.380,-0.223,-0.801
564,-5.6710,37.9946,28.0,8.0,13.0,3.0,1.173,0.380,-0.223,-0.801
565,-5.6254,37.9798,13.0,6.0,6.0,2.0,0.960,-0.257,-0.336,-0.690
566,-5.6229,37.9796,58.0,15.0,9.0,4.0,0.723,0.380,-0.337,-0.686
567,-4.4588,37.9277,33.0,5.0,5.0,1.0,-0.518,-0.654,0.448,-0.720
568,-4.4615,37.9226,11.0,5.0,2.0,1.0,-1.303,-0.614,0.410,-0.692
569,-4.3727,37.8683,18.0,6.0,9.0,2.0,-0.024,-0.614,0.150,-0.522
570,-4.3149,37.8532,25.0,7.0,18.0,4.0,0.125,-0.773,0.095,-0.477
571,-4.3149,37.8531,9.0,5.0,6.0,2.0,0.058,-0.773,0.095,-0.477
572,-4.3481,37.8089,6.0,2.0,0.0,0.0,-1.194,-0.813,0.132,-0.572
573,-5.5994,37.8074,74.0,11.0,8.0,4.0,-0.301,0.141,0.075,-0.705
574,-5.5992,37.8073,74.0,11.0,13.0,4.0,-0.374,0.141,0.075,-0.705
575,-5.6102,37.7913,45.0,15.0,8.0,2.0,0.118,-0.177,0.112,-0.701
576,-5.6101,37.7836,18.0,7.0,11.0,2.0,0.145,0.101,0.112,-0.701
577,-8.0988,37.7779,55.0,2.0,5.0,1.0,-1.303,-0.813,0.915,-0.660
578,-6.1712,37.7171,47.0,16.0,10.0,5.0,0.002,-0.416,0.263,-0.443
579,-4.6969,37.6969,36.0,9.0,26.0,3.0,-0.006,-0.734,0.271,-0.693
580,-5.6004,37.6799,49.0,15.0,8.0,3.0,0.171,-0.694,0.450,-0.789
581,-5.5941,37.6794,28.0,11.0,7.0,3.0,0.839,-0.416,0.450,-0.789
582,-4.3359,37.6729,52.0,8.0,3.0,2.0,-1.303,-0.734,0.208,-0.663
583,-4.3293,37.6728,1.0,1.0,0.0,0.0,-1.303,-0.813,0.189,-0.663
584,-5.2918,37.6613,37.0,6.0,4.0,1.0,-1.303,-0.614,0.451,-0.688
585,-5.5741,37.6587,49.0,14.0,11.0,3.0,0.823,-0.296,0.592,-0.849
586,-5.5741,37.6585,24.0,13.0,4.0,2.0,0.736,-0.296,0.592,-0.849
587,-4.4415,37.6367,47.0,11.0,18.0,3.0,0.179,-0.813,-0.041,-0.579
588,-6.2648,37.6318,30.0,4.0,0.0,0.0,-1.303,-0.813,0.560,-0.670
589,-6.1548,37.6279,47.0,7.0,22.0,2.0,0.538,-0.694,0.401,-0.497
590,-4.3788,37.6225,27.0,5.0,15.0,2.0,0.143,-0.773,-0.012,-0.543
591,-5.0849,37.5816,13.0,6.0,5.0,2.0,-1.303,-0.734,0.495,-0.815
592,-5.0129,37.5506,5.0,5.0,2.0,2.0,-0.279,-0.734,0.401,-0.703
593,-5.0377,37.5125,14.0,5.0,1.0,1.0,-0.448,-0.495,0.466,-0.776
594,-5.3289,37.4408,52.0,6.0,1.0,1.0,-1.303,-0.336,0.453,-0.727
595,-5.3219,37.4385,19.0,5.0,5.0,2.0,-1.303,-0.734,0.453,-0.735

596,-6.3688,37.4152,71.0,8.0,4.0,2.0,-1.303,-0.654,0.961,-0.696
597,-5.3125,37.4131,7.0,2.0,0.0,0.0,-1.303,-0.813,0.446,-0.710
598,-6.4854,37.4114,39.0,7.0,7.0,1.0,-1.303,-0.773,1.015,-0.626
599,-6.3700,37.4101,53.0,5.0,1.0,1.0,-1.303,-0.654,0.961,-0.696
600,-6.4822,37.4060,45.0,9.0,8.0,3.0,-1.303,-0.734,0.987,-0.579
601,-5.3099,37.3987,24.0,8.0,4.0,2.0,-0.047,-0.813,0.436,-0.674
602,-6.3542,37.3971,38.0,6.0,14.0,1.0,-1.303,-0.734,0.959,-0.688
603,-5.3054,37.3949,23.0,6.0,17.0,3.0,-0.058,-0.813,0.417,-0.656
604,-6.3479,37.3943,21.0,5.0,10.0,2.0,-1.303,-0.734,0.986,-0.692
605,-6.4565,37.3935,9.0,4.0,3.0,2.0,0.191,-0.813,0.884,-0.509
606,-6.4571,37.3933,21.0,4.0,2.0,1.0,0.061,-0.813,0.884,-0.509
607,-5.8382,37.3931,14.0,7.0,3.0,2.0,0.015,-0.773,0.749,-0.721
608,-5.1757,37.3894,13.0,5.0,2.0,2.0,-1.303,-0.137,0.408,-0.702
609,-5.0510,37.3490,28.0,6.0,1.0,1.0,-1.303,-0.813,0.297,-0.560
610,-5.0027,37.3343,5.0,5.0,2.0,2.0,-1.303,-0.773,0.268,-0.594
611,-8.5296,37.3254,25.0,10.0,9.0,2.0,1.418,1.850,1.334,0.056
612,-5.0223,37.3020,13.0,4.0,2.0,1.0,0.058,-0.773,0.126,-0.468
613,-8.5633,37.2869,51.0,15.0,11.0,3.0,0.913,0.380,1.504,-0.154
614,-5.5271,37.2583,10.0,6.0,7.0,4.0,-0.080,-0.614,0.593,-0.738
615,-5.5120,37.2399,95.0,10.0,7.0,2.0,-1.130,-0.614,0.592,-0.725
616,-5.5164,37.2381,18.0,5.0,10.0,2.0,0.199,-0.614,0.592,-0.725
617,-6.5519,37.2360,49.0,8.0,20.0,3.0,-0.168,-0.614,1.268,-0.732
618,-6.5531,37.2359,88.0,11.0,14.0,4.0,-0.282,-0.614,1.268,-0.732
619,-7.9559,37.2352,8.0,6.0,3.0,2.0,0.470,0.419,1.156,-0.446
620,-6.5786,37.2202,26.0,12.0,4.0,3.0,0.528,0.260,1.324,-0.753
621,-6.5778,37.2196,25.0,7.0,12.0,2.0,0.645,0.260,1.324,-0.753
622,-5.4451,37.1962,51.0,11.0,9.0,5.0,-0.058,-0.813,0.478,-0.680
623,-5.4405,37.1932,26.0,9.0,11.0,4.0,-0.218,-0.575,0.479,-0.667
624,-8.4891,37.1903,23.0,11.0,5.0,3.0,0.706,-0.217,2.080,-0.247
625,-5.4708,37.1897,21.0,6.0,4.0,1.0,-0.822,-0.813,0.533,-0.683
626,-8.4795,37.1892,27.0,12.0,5.0,3.0,0.603,0.698,2.023,-0.227
627,-7.9824,37.1802,22.0,6.0,13.0,2.0,1.337,0.260,1.392,-0.417
628,-6.6219,37.1573,12.0,5.0,10.0,3.0,-0.006,-0.495,1.478,-0.766
629,-6.6226,37.1532,13.0,6.0,4.0,3.0,0.669,-0.495,1.478,-0.766
630,-6.6225,37.1531,4.0,3.0,1.0,1.0,1.000,-0.495,1.478,-0.766
631,-6.6425,37.1522,14.0,5.0,6.0,2.0,-0.369,-0.773,1.478,-0.767
632,-6.6417,37.1522,7.0,2.0,1.0,1.0,0.552,-0.455,1.478,-0.767
633,-8.1095,37.1510,25.0,7.0,9.0,2.0,0.448,-0.296,1.469,-0.157
634,-6.6216,37.1489,24.0,10.0,9.0,3.0,0.234,-0.535,1.478,-0.759
635,-6.6198,37.1426,14.0,9.0,5.0,4.0,-0.306,-0.535,1.478,-0.759
636,-7.6540,37.1387,17.0,7.0,4.0,3.0,0.169,-0.813,1.812,-0.703
637,-6.6560,37.1344,21.0,6.0,5.0,3.0,0.541,-0.257,1.487,-0.731
638,-6.6609,37.1343,13.0,8.0,3.0,2.0,0.907,-0.217,1.487,-0.719
639,-5.9848,37.1133,41.0,9.0,20.0,2.0,0.980,-0.416,1.042,-0.755
640,-5.8362,37.1116,37.0,9.0,8.0,3.0,0.210,-0.296,0.928,-0.762
641,-5.7999,37.1082,11.0,7.0,4.0,3.0,-0.957,-0.813,0.862,-0.730

642,-5.2870,37.0705,73.0,12.0,46.0,4.0,0.802,-0.296,0.038,-0.489
643,-5.5909,37.0680,33.0,4.0,2.0,2.0,-1.303,-0.734,0.590,-0.661
644,-5.4768,37.0650,35.0,7.0,4.0,2.0,-1.303,-0.734,0.413,-0.585
645,-5.3140,37.0640,63.0,15.0,26.0,2.0,1.284,-0.336,0.076,-0.525
646,-5.4961,37.0632,51.0,11.0,15.0,4.0,-0.609,-0.813,0.441,-0.590
647,-5.3180,37.0609,82.0,15.0,29.0,5.0,-0.224,-0.336,0.066,-0.502
648,-5.2884,37.0609,51.0,16.0,12.0,4.0,0.289,-0.773,-0.010,-0.489
649,-4.4722,36.9922,14.0,6.0,4.0,3.0,-1.004,-0.694,-0.456,-0.454
650,-5.6843,36.9781,49.0,8.0,36.0,2.0,1.484,-0.813,0.800,-0.727
651,-5.7672,36.9770,4.0,2.0,0.0,0.0,-0.694,0.837,-0.686
652,-4.7069,36.7000,17.0,6.0,4.0,2.0,-0.829,-0.535,0.896,-0.464
653,-4.7300,36.6191,18.0,7.0,5.0,2.0,0.553,-0.813,0.632,-0.430
654,-5.3456,36.5148,23.0,6.0,6.0,2.0,0.042,-0.018,0.295,-0.057
655,-5.3792,36.4744,54.0,6.0,3.0,2.0,-0.812,-0.813,1.145,-0.418
656,-5.4069,36.4263,239.0,13.0,13.0,4.0,-0.376,1.398,-0.559
657,-5.4005,36.3341,38.0,9.0,10.0,3.0,-0.893,-0.813,1.485,-0.467
658,-5.9514,36.1898,16.0,7.0,3.0,1.0,0.491,-0.813,1.655,-0.387
659,-5.9514,36.1898,12.0,6.0,1.0,1.0,0.724,-0.813,1.655,-0.387
660,-5.6770,36.1661,20.0,6.0,15.0,2.0,0.380,-0.694,1.675,-0.436
661,-5.6681,36.1633,73.0,11.0,41.0,3.0,-0.530,0.777,1.675,-0.435
662,-5.6730,36.1615,110.0,7.0,78.0,3.0,0.828,0.777,1.675,-0.435
663,-5.6663,36.1610,48.0,9.0,28.0,3.0,0.269,0.698,1.647,-0.397
664,-5.8651,36.1604,36.0,6.0,15.0,2.0,-1.113,-0.217,1.619,-0.269
665,-5.6716,36.1600,96.0,9.0,41.0,3.0,0.590,0.777,1.675,-0.435
666,-5.8686,36.1574,33.0,4.0,21.0,1.0,-1.303,-0.813,1.788,-0.433
667,-5.8657,36.1531,25.0,6.0,12.0,1.0,-1.303,-0.813,1.751,-0.329
668,-5.6370,36.1518,44.0,8.0,19.0,2.0,0.424,0.499,1.562,-0.265
669,-5.6394,36.1504,39.0,9.0,24.0,3.0,-0.309,0.499,1.562,-0.265
670,-5.6308,36.1493,33.0,7.0,23.0,4.0,0.610,0.300,1.477,-0.227
671,-5.8594,36.1482,110.0,11.0,17.0,3.0,-1.226,-0.694,1.789,-0.395
672,-5.6367,36.1471,135.0,9.0,32.0,2.0,0.089,0.300,1.393,-0.214
673,-5.6288,36.1471,42.0,8.0,28.0,2.0,0.918,0.300,1.477,-0.227
674,-5.6337,36.1466,44.0,7.0,29.0,2.0,-0.003,0.300,1.393,-0.214
675,-5.8550,36.1440,24.0,9.0,3.0,1.0,-1.058,-0.813,1.751,-0.300
676,-5.6184,36.1438,58.0,7.0,33.0,2.0,1.247,1.453,1.449,-0.215
677,-5.6048,36.1427,29.0,8.0,18.0,2.0,1.151,1.453,1.297,-0.089
678,-5.6153,36.1420,41.0,9.0,18.0,3.0,1.482,1.811,1.372,-0.160
679,-5.6009,36.1417,31.0,7.0,21.0,2.0,0.968,1.453,1.297,-0.089
680,-5.6093,36.1413,39.0,8.0,21.0,2.0,1.015,1.532,1.221,-0.084
681,-5.6136,36.1406,58.0,8.0,21.0,2.0,0.563,1.532,1.221,-0.084
682,-5.7327,36.1004,37.0,10.0,16.0,2.0,-1.078,-0.813,1.535,-0.177
683,-5.7513,36.0957,8.0,4.0,3.0,1.0,-1.303,-0.813,1.676,-0.365
684,-5.7014,36.0956,50.0,9.0,32.0,3.0,0.562,-0.535,1.706,-0.476
685,-5.7576,36.0902,15.0,7.0,4.0,2.0,-1.113,-0.813,1.733,-0.335
686,-5.6977,36.0900,54.0,7.0,37.0,2.0,0.571,-0.813,1.754,-0.494
687,-5.6943,36.0872,44.0,6.0,34.0,4.0,-0.257,-0.813,1.754,-0.494

688,-5.6187,36.0856,59.0,8.0,13.0,2.0,-1.303,-0.654,1.724,-0.505
689,-5.6209,36.0852,167.0,9.0,13.0,2.0,-1.078,-0.654,1.724,-0.505
690,-5.6262,36.0747,34.0,6.0,13.0,1.0,-1.303,-0.813,1.781,-0.488
691,-5.6099,36.0698,7.0,4.0,0.0,0.0,-1.303,-0.813,1.742,-0.389
692,-5.6169,36.0639,46.0,9.0,11.0,2.0,-1.303,-0.813,1.781,-0.410
693,-5.6157,36.0637,95.0,14.0,5.0,2.0,-1.303,-0.813,1.733,-0.359
694,-5.6988,35.6433,16.0,10.0,2.0,1.0,-0.783,-0.575,1.755,-0.265
695,-5.5733,35.5667,33.0,10.0,13.0,3.0,-0.045,0.976,1.113,0.215
696,-5.5746,35.5590,111.0,17.0,34.0,2.0,1.591,0.857,1.226,0.153
697,-5.7856,35.4897,18.0,6.0,7.0,3.0,0.158,0.141,1.625,-0.162
698,-6.0375,35.4341,22.0,4.0,3.0,1.0,-1.260,-0.813,1.841,-0.193
699,-5.8280,35.3916,85.0,8.0,14.0,2.0,-1.303,-0.654,1.671,-0.153
700,-5.9160,35.3897,67.0,8.0,11.0,1.0,-1.303,-0.575,1.814,-0.452
701,-6.0644,35.2889,9.0,4.0,1.0,1.0,0.320,0.618,1.570,-0.128
702,-6.0610,35.2839,5.0,4.0,3.0,2.0,0.305,0.618,1.570,-0.128
703,-5.3152,35.2201,20.0,10.0,3.0,2.0,-0.702,-0.455,1.296,-0.354
704,-5.2903,35.1177,50.0,13.0,21.0,3.0,0.945,0.737,1.022,-0.270
705,-5.3014,35.1021,67.0,22.0,21.0,5.0,0.003,0.658,0.823,-0.066
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708,-5.5136,34.9987,45.0,7.0,9.0,2.0,-1.303,-0.535,1.455,-0.214
709,-5.4974,34.9833,33.0,10.0,5.0,2.0,0.084,-0.336,1.342,-0.151
710,-5.5408,34.9671,98.0,13.0,4.0,2.0,0.653,-0.495,1.391,-0.172
711,-5.9271,34.9656,24.0,5.0,16.0,2.0,-1.303,-0.813,1.734,-0.434
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713,-5.5384,34.8115,246.0,11.0,6.0,2.0,-1.052,-0.813,1.063,0.136
714,-5.5090,34.8011,48.0,11.0,14.0,3.0,0.637,-0.376,0.893,0.397
715,-5.5502,34.7348,39.0,7.0,13.0,2.0,-0.567,-0.813,1.231,0.002
716,-4.9212,34.6312,47.0,15.0,16.0,4.0,1.317,-0.455,1.083,-0.258
717,-5.6625,34.5889,17.0,8.0,4.0,2.0,-1.303,-0.376,1.486,-0.205
718,-4.9388,34.5848,45.0,10.0,24.0,3.0,0.474,-0.296,1.138,-0.009
719,-5.5286,34.5781,10.0,3.0,0.0,0.0,-1.303,-0.813,1.362,-0.021
720,-4.9580,34.5763,88.0,19.0,29.0,4.0,1.160,-0.813,1.138,-0.042
721,-5.8852,34.5663,41.0,9.0,15.0,2.0,-1.303,-0.098,1.582,-0.282
722,-4.9763,34.4703,34.0,9.0,5.0,2.0,-1.303,-0.813,1.120,-0.194
723,-5.3284,34.4127,61.0,11.0,5.0,3.0,-0.042,-0.813,0.978,0.146
724,-4.9526,34.3259,30.0,7.0,2.0,2.0,-1.303,-0.813,1.163,-0.075
725,-6.3243,34.2996,2.0,2.0,2.0,2.0,-0.216,-0.694,1.883,-0.654
726,-6.3421,34.2193,5.0,1.0,5.0,1.0,0.144,-0.773,1.817,-0.688
727,-6.4260,34.2161,6.0,3.0,4.0,1.0,-0.372,-0.694,1.884,-0.607
728,-6.3792,34.2115,13.0,8.0,5.0,3.0,-0.293,-0.217,1.827,-0.689
729,-6.2896,34.2045,7.0,3.0,3.0,1.0,-0.235,-0.058,1.695,-0.639
730,-6.2493,34.1937,16.0,7.0,9.0,3.0,-0.406,-0.575,1.666,-0.691
731,-5.4785,34.1820,30.0,6.0,6.0,1.0,-1.303,-0.813,1.259,-0.398
732,-4.9548,34.1623,140.0,14.0,17.0,4.0,-0.128,-0.654,0.826,-0.224
733,-4.8963,34.1232,114.0,16.0,7.0,2.0,-0.597,-0.813,1.176,-0.348

734,-6.1985,34.0803,11.0,7.0,5.0,2.0,-0.444,-0.455,1.363,-0.654
735,-5.4600,34.0734,68.0,11.0,13.0,2.0,0.176,-0.137,0.256,0.136
736,-5.4801,34.0533,27.0,10.0,8.0,4.0,0.459,-0.495,0.389,-0.196
737,-6.1931,34.0397,14.0,4.0,13.0,3.0,-0.497,-0.535,1.287,-0.671
738,-5.3416,34.0273,14.0,7.0,3.0,2.0,0.305,-0.654,0.908,-0.337
739,-5.4299,34.0191,44.0,13.0,4.0,2.0,-1.052,-0.535,0.086,0.268
740,-6.1855,34.0187,16.0,5.0,9.0,2.0,-0.229,-0.614,1.249,-0.672
741,-5.5560,34.0089,80.0,14.0,27.0,4.0,0.740,-0.217,0.710,0.138
742,-5.5676,33.9739,25.0,5.0,6.0,2.0,-1.303,-0.654,0.955,-0.401
743,-4.9925,33.8588,46.0,11.0,3.0,2.0,-0.288,-0.575,0.333,-0.118
744,-4.9899,33.8368,43.0,7.0,5.0,2.0,-0.560,-0.535,0.229,-0.222
745,-5.7784,33.6756,25.0,10.0,6.0,3.0,1.049,-0.734,0.248,-0.300
746,-5.0343,33.6716,4.0,2.0,0.0,0.0,-0.044,0.260,-1.028,0.270
747,-6.9701,33.6579,9.0,5.0,4.0,1.0,1.016,-0.257,1.443,-0.631
748,-6.4002,33.6462,12.0,4.0,0.0,0.0,-1.303,-0.813,0.911,-0.617
749,-5.0710,33.6403,4.0,4.0,0.0,0.0,0.764,0.220,-1.001,0.370
750,-6.9461,33.6339,38.0,10.0,11.0,2.0,0.712,0.141,1.358,-0.631
751,-5.8423,33.6233,67.0,11.0,3.0,3.0,-0.940,-0.773,0.967,-0.713
752,-5.8639,33.6052,69.0,11.0,2.0,1.0,-0.651,-0.575,0.939,-0.791
753,-6.9281,33.5983,32.0,9.0,10.0,2.0,0.829,-0.813,1.226,-0.636
754,-5.2637,33.5898,25.0,1.0,0.0,0.0,0.081,-0.098,-0.773,0.180
755,-6.9188,33.5841,18.0,6.0,5.0,2.0,-1.303,-0.535,1.198,-0.638
756,-5.1981,33.5617,26.0,10.0,1.0,1.0,0.748,0.777,-1.047,0.268
757,-6.7480,33.5568,25.0,9.0,11.0,3.0,1.506,-0.614,1.085,-0.729
758,-6.7569,33.5494,15.0,7.0,7.0,3.0,0.342,-0.098,1.331,-0.889
759,-6.9734,33.5382,32.0,8.0,12.0,2.0,0.642,-0.217,1.311,-0.832
760,-5.1435,33.5369,8.0,2.0,6.0,1.0,-1.113,0.300,-1.312,0.321
761,-5.4644,33.5323,17.0,7.0,1.0,1.0,-0.868,-0.773,-0.010,-0.249
762,-5.9786,33.4918,9.0,5.0,6.0,3.0,-1.303,-0.734,-0.405,-0.265
763,-5.1467,33.4885,31.0,9.0,0.0,0.0,1.154,0.578,-1.351,0.553
764,-5.1469,33.4884,8.0,3.0,0.0,0.0,0.589,0.578,-1.351,0.553
765,-5.1374,33.4786,12.0,5.0,1.0,1.0,0.925,0.578,-1.293,0.470
766,-6.1841,33.4756,16.0,7.0,7.0,3.0,0.813,0.061,-0.054,-0.406
767,-5.1434,33.4717,8.0,2.0,0.0,0.0,0.682,0.141,-1.275,0.486
768,-5.1771,33.4587,36.0,4.0,1.0,1.0,-1.303,-0.217,-0.908,0.399
769,-5.1638,33.4276,4.0,2.0,0.0,0.0,0.383,0.419,-1.268,0.099
770,-5.3015,33.4138,48.0,14.0,10.0,5.0,-0.423,-0.734,-0.368,0.001
771,-5.2402,33.3948,5.0,4.0,1.0,1.0,0.759,0.300,-1.400,0.448
772,-5.2402,33.3948,75.0,11.0,12.0,2.0,-1.115,0.300,-1.400,0.448
773,-5.9896,33.3871,10.0,4.0,1.0,1.0,0.298,-0.773,-0.225,-0.340
774,-5.4210,33.3455,9.0,7.0,1.0,1.0,-1.303,-0.773,-0.181,-0.047
775,-5.2919,33.3302,93.0,8.0,8.0,3.0,-1.303,-0.734,-0.938,0.251
776,-5.2919,33.3302,5.0,2.0,0.0,0.0,-1.303,-0.734,-0.938,0.251
777,-5.4708,33.3122,18.0,6.0,2.0,1.0,0.595,-0.376,-0.114,-0.079
778,-5.0748,33.2777,35.0,7.0,3.0,2.0,-1.303,-0.773,-1.486,-0.394
779,-5.0748,33.2777,3.0,3.0,1.0,1.0,-1.303,-0.773,-1.486,-0.394

780,-5.9678,33.2537,11.0,4.0,3.0,1.0,-1.303,-0.535,-0.509,-0.277
781,-5.0494,33.2522,24.0,4.0,2.0,1.0,-1.303,-0.773,-1.428,-0.390
782,-5.5030,33.2471,41.0,6.0,1.0,1.0,-1.004,-0.813,-0.114,-0.534
783,-5.3020,33.2459,2.0,1.0,2.0,1.0,-1.303,-0.614,-1.579,0.219
784,-5.2515,33.2328,71.0,15.0,4.0,1.0,0.749,0.459,-1.750,0.176
785,-5.8086,33.1797,8.0,4.0,2.0,1.0,1.321,-0.773,-0.535,-0.426
786,-8.5869,33.1565,62.0,5.0,0.0,0.0,-1.303,-0.654,2.316,-0.728
787,-4.3744,33.1454,3.0,3.0,0.0,0.0,-1.113,-0.813,-0.742,-1.037
788,-5.5846,33.0911,13.0,5.0,2.0,1.0,0.995,-0.575,-0.170,-0.563
789,-5.5874,33.0869,32.0,6.0,1.0,1.0,-1.303,-0.575,-0.170,-0.563
790,-4.2147,33.0834,3.0,2.0,0.0,0.0,-1.113,-0.813,-0.281,-1.161
791,-8.6493,33.0277,45.0,7.0,1.0,1.0,-1.167,-0.734,2.213,-0.768
792,-4.1317,32.9975,2.0,2.0,0.0,0.0,-1.052,-0.813,-0.076,-1.224
793,-5.0585,32.9694,13.0,7.0,2.0,2.0,0.796,-0.773,-1.643,-0.673
794,-5.0387,32.9439,10.0,4.0,0.0,0.0,-1.002,-0.813,-1.330,-0.793
795,-7.8417,32.8908,12.0,3.0,0.0,0.0,-1.303,-0.734,1.005,-0.863
796,-8.8258,32.8882,9.0,4.0,0.0,0.0,-1.303,-0.694,2.270,-0.708
797,-4.2969,32.8431,0.0,0.0,0.0,0.0,-0.829,-0.813,-0.080,-1.265
798,-5.0766,32.8253,8.0,3.0,4.0,1.0,-1.303,-0.813,-1.161,-0.913
799,-4.6158,32.8129,2.0,2.0,1.0,1.0,-1.113,-0.813,-0.408,-1.208
800,-8.5131,32.8103,33.0,5.0,13.0,1.0,-1.303,-0.217,1.693,-0.842
801,-8.9195,32.8085,8.0,5.0,2.0,1.0,-0.623,-0.773,2.286,-0.707
802,-7.8655,32.7736,22.0,5.0,2.0,1.0,-1.303,-0.654,1.014,-0.941
803,-8.9833,32.7606,35.0,7.0,2.0,2.0,-0.650,-0.773,2.289,-0.724
804,-7.7763,32.7505,10.0,1.0,0.0,0.0,-1.303,-0.734,0.918,-0.949
805,-5.5869,32.7455,51.0,11.0,7.0,3.0,-0.026,-0.376,-0.222,-0.865
806,-8.5174,32.7397,15.0,4.0,2.0,1.0,-1.137,-0.813,1.646,-0.872
807,-4.8822,32.7169,1.0,1.0,0.0,0.0,-1.113,-0.813,-0.909,-1.012
808,-5.5818,32.7063,42.0,9.0,15.0,3.0,0.212,-0.257,-0.573,-0.894
809,-4.5203,32.7044,3.0,1.0,0.0,0.0,-1.052,-0.813,-0.584,-1.305
810,-4.8116,32.7006,4.0,2.0,0.0,0.0,-0.421,-0.813,-0.759,-1.201
811,-8.4777,32.6898,39.0,10.0,4.0,2.0,-0.836,-0.813,1.561,-0.900
812,-4.7564,32.6691,39.0,9.0,3.0,1.0,-0.644,-0.773,-0.816,-1.217
813,-4.6121,32.6596,3.0,1.0,0.0,0.0,-0.979,-0.813,-0.884,-1.275
814,-5.8997,32.6554,45.0,9.0,20.0,2.0,1.455,-0.058,0.260,-0.704
815,-9.1711,32.6074,22.0,9.0,2.0,2.0,-1.053,-0.813,2.347,-0.719
816,-7.6334,32.5932,15.0,5.0,1.0,1.0,-1.303,-0.813,0.786,-0.970
817,-5.9675,32.5925,51.0,10.0,32.0,3.0,0.175,-0.416,0.129,-0.835
818,-5.9781,32.5868,39.0,12.0,7.0,3.0,0.976,-0.296,0.072,-0.858
819,-9.2119,32.5809,29.0,8.0,2.0,2.0,-1.303,-0.773,2.417,-0.737
820,-8.3974,32.5716,27.0,7.0,4.0,2.0,-1.115,-0.734,1.353,-0.929
821,-7.6773,32.5584,34.0,8.0,4.0,2.0,0.341,-0.813,1.005,-1.061
822,-9.2544,32.5544,37.0,7.0,17.0,2.0,-1.191,-0.813,2.448,-0.747
823,-8.3918,32.4235,10.0,5.0,1.0,1.0,-1.303,-0.773,1.069,-0.916
824,-7.9021,32.4173,64.0,6.0,2.0,2.0,-1.303,-0.813,0.656,-1.087
825,-9.2532,32.3809,41.0,9.0,7.0,3.0,-1.018,-0.614,2.139,-0.764

826,-9.2532,32.3592,29.0,8.0,8.0,2.0,-0.875,-0.773,2.139,-0.764
827,-7.8507,32.3587,40.0,5.0,0.0,0.0,-1.303,-0.813,0.674,-1.078
828,-8.2829,32.2385,0.0,0.0,0.0,0.0,-1.058,-0.813,0.963,-1.080
829,-6.5309,32.2359,45.0,13.0,20.0,6.0,-0.061,-0.098,0.858,-0.943
830,-6.5347,32.2234,53.0,14.0,27.0,4.0,0.077,-0.137,0.858,-0.986
831,-6.5269,32.1826,49.0,10.0,12.0,2.0,0.683,0.618,-0.483,-0.802
832,-6.5291,32.1737,29.0,8.0,6.0,2.0,1.090,0.777,-0.568,-0.731
833,-6.5153,32.1617,19.0,10.0,3.0,1.0,1.539,0.300,-1.154,-0.603
834,-8.2235,32.1566,8.0,3.0,0.0,0.0,-1.303,-0.813,0.691,-1.028
835,-6.5266,32.1495,30.0,8.0,10.0,3.0,0.716,-0.257,-0.492,-0.686
836,-7.2943,32.1246,33.0,10.0,16.0,4.0,0.099,-0.773,0.817,-0.989
837,-6.4775,32.0964,8.0,5.0,3.0,2.0,0.546,-0.773,0.009,-1.008
838,-9.3138,32.0743,11.0,6.0,0.0,0.0,-0.490,-0.773,2.060,-0.890
839,-6.5201,32.0714,11.0,8.0,2.0,2.0,0.442,-0.773,-0.633,-0.843
840,-8.2219,32.0267,12.0,3.0,1.0,1.0,-1.303,-0.813,0.712,-1.090
841,-6.5715,31.9849,12.0,8.0,2.0,2.0,-0.125,-0.773,-0.605,-0.782
842,-9.3514,31.9689,13.0,8.0,2.0,2.0,-0.770,-0.773,2.015,-0.940
843,-6.6957,31.9091,34.0,6.0,0.0,0.0,0.280,-0.098,-0.445,-0.765
844,-9.4113,31.9070,9.0,6.0,2.0,1.0,-0.842,-0.773,1.982,-0.926
845,-8.1961,31.8973,2.0,2.0,0.0,0.0,-1.303,-0.813,0.732,-1.110
846,-9.5011,31.8547,21.0,7.0,3.0,2.0,-0.721,-0.773,2.051,-0.902
847,-7.4867,31.8457,39.0,11.0,13.0,3.0,-0.177,-0.734,0.609,-1.099
848,-9.5461,31.8249,15.0,7.0,4.0,1.0,-0.917,-0.773,2.220,-0.961
849,-8.1470,31.8145,3.0,2.0,0.0,0.0,-1.303,-0.813,0.874,-1.136
850,-9.6160,31.7367,28.0,13.0,3.0,2.0,-0.538,-0.773,2.102,-0.968
851,-7.7794,31.6592,53.0,12.0,8.0,4.0,-0.020,-0.773,0.799,-1.162
852,-9.6588,31.6465,14.0,6.0,2.0,2.0,0.942,-0.495,2.226,-1.036
853,-8.1983,31.6400,41.0,12.0,4.0,2.0,0.553,-0.614,0.918,-1.103
854,-8.3602,31.6178,29.0,8.0,6.0,3.0,0.016,-0.813,0.918,-1.074
855,-9.0723,31.5941,11.0,4.0,1.0,1.0,-0.464,-0.813,1.046,-1.011
856,-8.4571,31.5746,11.0,4.0,1.0,1.0,-1.303,-0.813,0.881,-1.075
857,-8.8823,31.5668,31.0,5.0,3.0,1.0,-1.303,-0.813,0.986,-1.002
858,-9.6787,31.5664,6.0,3.0,0.0,0.0,1.110,-0.416,1.969,-0.979
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861,-8.4505,31.5401,4.0,2.0,3.0,1.0,-1.052,-0.813,0.823,-1.070
862,-9.6272,31.5313,3.0,2.0,2.0,1.0,0.979,-0.495,1.865,-1.009
863,-9.6573,31.5297,5.0,4.0,2.0,1.0,0.564,-0.336,1.979,-1.063
864,-9.6998,31.3672,19.0,9.0,6.0,3.0,-0.080,-0.773,2.017,-1.020
865,-9.6847,31.3083,48.0,13.0,9.0,3.0,-0.101,-0.813,1.839,-0.985
866,-9.7463,31.2529,16.0,8.0,2.0,2.0,-0.236,-0.773,1.974,-0.973
867,-8.0733,31.2139,4.0,4.0,1.0,1.0,0.869,-0.535,-0.063,-1.220
868,-8.0764,31.2002,22.0,7.0,3.0,2.0,0.610,-0.455,-0.176,-1.230
869,-8.0681,31.1834,3.0,2.0,2.0,1.0,0.335,-0.098,-0.034,-1.264
870,-9.0022,31.1136,12.0,7.0,0.0,0.0,-0.119,-0.813,-0.429,-0.922
871,-9.0236,31.0700,46.0,7.0,0.0,0.0,0.074,-0.813,-0.543,-0.955

872,-9.0325,31.0686,36.0,6.0,0.0,0.0,0.175,-0.773,-0.534,-0.955
873,-9.0573,30.9389,6.0,4.0,1.0,1.0,-0.814,-0.813,-0.075,-1.058
874,-8.3061,30.9128,9.0,6.0,0.0,0.0,0.834,-0.535,-1.150,-1.214
875,-8.3257,30.9017,8.0,3.0,1.0,1.0,0.435,-0.336,-1.784,-1.147
876,-9.0648,30.8961,7.0,3.0,0.0,0.0,-0.769,-0.813,0.091,-1.067
877,-8.3622,30.8730,2.0,1.0,0.0,0.0,0.415,-0.813,-2.095,-1.064
878,-8.3795,30.8684,1.0,1.0,0.0,0.0,-0.052,0.181,-1.897,-1.101
879,-8.3827,30.8655,2.0,2.0,0.0,0.0,0.931,-0.296,-1.726,-1.120
880,-8.3695,30.8531,2.0,2.0,1.0,1.0,-1.303,-0.813,-1.348,-1.134
881,-8.3894,30.8387,2.0,1.0,0.0,0.0,-0.229,-0.654,-0.847,-1.160
882,-8.3964,30.8103,24.0,7.0,0.0,0.0,0.728,-0.773,-0.327,-1.169
883,-8.3863,30.7965,11.0,8.0,1.0,1.0,-0.086,-0.813,-0.034,-1.195
884,-9.1412,30.7944,3.0,3.0,1.0,1.0,-0.355,-0.813,0.409,-1.101
885,-8.4046,30.7676,17.0,9.0,5.0,3.0,0.029,-0.813,0.374,-1.204
886,-8.4401,30.7155,30.0,14.0,3.0,2.0,-0.289,-0.813,0.676,-1.224
887,-9.2130,30.6735,17.0,8.0,3.0,1.0,0.215,-0.654,0.640,-1.061
888,-9.3529,30.6124,4.0,4.0,1.0,1.0,0.049,-0.773,0.698,-1.085
889,-9.3499,30.5756,9.0,7.0,3.0,1.0,1.179,-0.773,1.042,-1.085
890,-8.7060,30.4569,22.0,5.0,0.0,0.0,-0.831,-0.813,1.207,-1.203
891,-8.6319,30.4277,9.0,5.0,1.0,1.0,-0.582,-0.813,0.969,-1.222
892,-8.5053,30.2920,5.0,2.0,3.0,1.0,-0.225,-0.813,-0.167,-1.265
893,-8.4744,30.2623,6.0,3.0,0.0,0.0,-0.821,-0.813,-0.290,-1.283
894,-8.4775,30.2148,6.0,3.0,1.0,1.0,-0.806,-0.813,-0.477,-1.288
895,-8.4797,30.1575,5.0,2.0,0.0,0.0,-0.665,-0.813,-0.715,-1.322
896,-8.4646,30.1070,3.0,2.0,1.0,1.0,-0.073,-0.813,-1.033,-1.317
897,-8.4625,30.0512,7.0,2.0,0.0,0.0,-0.473,-0.813,-0.897,-1.358
898,-8.5402,30.0163,6.0,3.0,0.0,0.0,-1.303,-0.813,-1.080,-1.320
899,-9.6484,29.8040,2.0,2.0,1.0,1.0,-1.113,-0.813,2.150,-1.376
900,-7.9105,29.7468,1.0,1.0,0.0,0.0,-1.303,-0.813,1.047,-1.477
901,-8.4664,29.7277,1.0,1.0,0.0,0.0,-1.303,-0.813,0.485,-1.458
902,-8.0715,29.7067,1.0,1.0,0.0,0.0,-1.303,-0.813,1.049,-1.476
903,-8.3212,29.6543,10.0,3.0,0.0,0.0,-1.303,-0.813,0.805,-1.466
904,-9.6924,29.4760,9.0,6.0,3.0,2.0,-0.444,-0.813,1.362,-1.460
905,-8.0584,29.4465,0.0,0.0,0.0,0.0,-0.687,-0.813,1.511,-1.492
906,-9.6500,29.1702,0.0,0.0,0.0,0.0,-1.303,-0.813,1.098,-1.479
907,-9.6220,29.1693,1.0,1.0,0.0,0.0,-1.303,-0.813,1.060,-1.479
908,-8.9191,29.1085,1.0,1.0,0.0,0.0,-0.466,-0.813,1.157,-1.496
909,-9.5052,29.1042,2.0,1.0,0.0,0.0,-1.303,-0.813,0.802,-1.479
910,-9.3079,29.0598,1.0,1.0,0.0,0.0,-1.303,-0.813,1.037,-1.492
911,-9.2137,29.0596,0.0,0.0,0.0,0.0,-1.303,-0.813,0.621,-1.478
912,-9.3857,29.0543,5.0,2.0,0.0,0.0,-1.303,-0.813,1.114,-1.496
913,-8.8084,29.0318,0.0,0.0,0.0,0.0,-1.303,-0.813,1.386,-1.504