Keuwl Accelerometer Data File

2024-04-30 16:55:04

Time (s), X (m/s2), Y (m/s2), Z (m/s2), R (m/s2), Theta (deg), Phi (deg)

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1.4972857,-0.503988,9.808778,0.349352,9.827929,87.962883,92.941345

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1.9980820,-0.606880,9.796814,0.382852,9.823056,87.766342,93.544754

2.0005982,-0.599701,9.789636,0.394816,9.815930,87.694832,93.505486

2.0031140,-0.597308,9.796814,0.416351,9.823833,87.570976,93.488983

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2.0081477,-0.637986,9.782457,0.418744,9.812179,87.554108,93.731400

2.0106637,-0.621237,9.770494,0.461815,9.801109,87.299301,93.638138

2.0131800,-0.606880,9.792028,0.428315,9.820162,87.500198,93.546478

2.0156960,-0.633201,9.803992,0.425922,9.833647,87.517586,93.695374

2.0182121,-0.652343,9.775279,0.433101,9.806590,87.468750,93.817917

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2.4988673,-0.611665,9.784850,0.366102,9.810783,87.861435,93.576988

2.5013838,-0.621237,9.796814,0.378066,9.823769,87.794441,93.628387

2.5039001,-0.611665,9.792028,0.390030,9.818864,87.723465,93.574371

2.5064166,-0.611665,9.801600,0.363709,9.827399,87.879013,93.570892

2.5089331,-0.621237,9.765409,0.378066,9.792450,87.787376,93.640022

2.5114574,-0.640379,9.770494,0.401994,9.799706,87.649010,93.749924

2.5139742,-0.645165,9.763016,0.382852,9.791797,87.759209,93.780754

2.5164907,-0.630808,9.755837,0.370888,9.783242,87.827370,93.699570

2.5190074,-0.642772,9.758230,0.363709,9.786139,87.870071,93.768616

2.5215242,-0.594916,9.830314,0.382852,9.855738,87.773750,93.463226

2.5240407,-0.633201,9.782457,0.390030,9.810685,87.721565,93.703484

2.5265574,-0.657129,9.768100,0.390030,9.797944,87.718605,93.848656

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2.5316164,-0.623629,9.806385,0.356531,9.832661,87.922012,93.638779

2.5341337,-0.630808,9.818350,0.358923,9.845138,87.910706,93.676079

2.5366509,-0.642772,9.815957,0.356531,9.843438,87.924286,93.746513

2.5391681,-0.640379,9.815957,0.416351,9.845631,87.576355,93.732605

2.5416853,-0.652343,9.801600,0.394816,9.831215,87.698418,93.807693

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2.5467203,-0.640379,9.803992,0.413958,9.833601,87.587349,93.737152

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2.5517235,-0.637986,9.799207,0.433101,9.829499,87.474655,93.725037

2.5542402,-0.666700,9.844670,0.423530,9.876305,87.542206,93.874268

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2.5870132,-0.614058,9.770494,0.418744,9.798722,87.550743,93.596207

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2.9971752,-0.568594,9.803992,0.404387,9.828789,87.642006,93.319221

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3.0022082,-0.568594,9.794421,0.449851,9.821219,87.374710,93.322456

3.0047388,-0.592523,9.813564,0.445065,9.841504,87.408012,93.455208

3.0072556,-0.580559,9.808778,0.411565,9.834559,87.601532,93.387253

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3.0122893,-0.587737,9.823135,0.440279,9.850547,87.438255,93.424034

3.0148060,-0.606880,9.806385,0.433101,9.834686,87.475983,93.541298

3.0173228,-0.590130,9.736694,0.413958,9.763341,87.569977,93.468391

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3.1935282,-0.602094,9.830314,0.473779,9.860125,87.245880,93.504913

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6.9887018,-0.182752,9.600304,1.197309,9.676403,82.892296,91.090553

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7.9928932,-0.189930,9.727123,1.149452,9.796644,83.261894,91.118607

7.9954095,-0.163609,9.748658,1.118345,9.813960,83.456673,90.961487

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8.0230970,-0.144467,9.707980,1.094417,9.770542,83.568695,90.852570

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8.0281305,-0.127717,9.741480,1.106381,9.804939,83.520988,90.751137

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8.1011124,-0.204586,9.743873,1.101596,9.808080,83.551208,91.202827

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8.1162119,-0.235693,9.751051,1.113560,9.817258,83.486992,91.384628

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8.1237612,-0.252443,9.770494,1.168595,9.843368,83.181824,91.480034

8.1262779,-0.216550,9.753445,1.175773,9.826446,83.127869,91.271896

8.1287947,-0.240479,9.801600,1.202094,9.877966,83.010094,91.405449

8.1313105,-0.252443,9.772886,1.163809,9.845176,83.211128,91.479675

8.1338272,-0.250050,9.784850,1.149452,9.855307,83.302185,91.463867

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8.1539621,-0.214158,9.739087,1.178166,9.812428,83.103928,91.259705

8.1564779,-0.233300,9.751051,1.197309,9.827053,83.001808,91.370575

8.1589947,-0.187537,9.731909,1.182952,9.805335,83.070747,91.103973

8.1615124,-0.192323,9.746265,1.173380,9.818528,83.136360,91.130470

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8.1665459,-0.202194,9.731909,1.173380,9.804477,83.126480,91.190224

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8.1891184,-0.096610,9.724730,1.149452,9.792903,83.259308,90.569183

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8.1941481,-0.070289,9.705587,1.101596,9.768157,83.524742,90.414940

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8.2042675,-0.048754,9.741480,1.096810,9.803153,83.576103,90.286751

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16.0188713,-0.338584,9.693624,1.422533,9.803294,81.656487,92.000443

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16.0239048,-0.364905,9.700802,1.420140,9.810989,81.677200,92.154221

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16.1321239,-0.403191,9.655338,1.374677,9.761037,81.903946,92.391182

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16.4718704,-0.343370,9.684052,1.357927,9.784822,82.022804,92.030701

16.4743881,-0.340977,9.707980,1.343570,9.806443,82.125198,92.011597

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16.5071239,-0.355334,9.669696,1.377069,9.773720,81.900352,92.104515

16.5096416,-0.352941,9.650553,1.379462,9.755033,81.870537,92.094498

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16.5171947,-0.388834,9.674481,1.389034,9.781421,81.835983,92.301575

16.5197105,-0.369691,9.691231,1.396212,9.798267,81.807709,92.184601

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16.5524254,-0.403191,9.696016,1.336391,9.795980,82.159119,92.381165

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16.6002426,-0.400798,9.700802,1.424926,9.813084,81.650749,92.365883

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16.6178646,-0.405583,9.707980,1.434497,9.821770,81.601753,92.392334

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16.9676743,-0.398405,9.696016,1.312463,9.792549,82.297661,92.352936

16.9701900,-0.407976,9.724730,1.345963,9.825907,82.126808,92.402290

16.9727116,-0.393619,9.700802,1.333999,9.800003,82.176483,92.323555

16.9752293,-0.422333,9.705587,1.331606,9.805609,82.195091,92.491623

16.9777451,-0.431904,9.715159,1.362713,9.819768,82.023186,92.545509

16.9802628,-0.424726,9.696016,1.357927,9.799851,82.035118,92.508194

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16.9903297,-0.434297,9.679267,1.400998,9.789771,81.772247,92.569069

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17.0003929,-0.431904,9.731909,1.374677,9.838004,81.967705,92.541130

17.0029087,-0.448654,9.760623,1.360320,9.865168,82.074165,92.631790

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17.0129795,-0.463011,9.698409,1.384248,9.807632,81.886192,92.733276

17.0154953,-0.443869,9.722338,1.396212,9.832105,81.836090,92.613998

17.0180130,-0.484846,9.736694,1.391426,9.847556,81.877121,92.850731

17.0205307,-0.470489,9.734302,1.384248,9.843482,81.915939,92.767128

17.0230465,-0.470489,9.751051,1.384248,9.860045,81.929611,92.762383

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17.0280800,-0.467797,9.681660,1.412962,9.795399,81.706291,92.766258

17.0305977,-0.443869,9.698409,1.424926,9.812572,81.650307,92.620438

17.0331097,-0.463011,9.679267,1.410569,9.792461,81.717934,92.738678

17.0356255,-0.487238,9.679267,1.417747,9.794673,81.677383,92.881744

17.0381413,-0.503988,9.696016,1.403391,9.810007,81.775215,92.975494

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17.0607681,-0.436690,9.712767,1.338784,9.814320,82.159760,92.574310

17.0632839,-0.431904,9.739087,1.317249,9.837251,82.304741,92.539261

17.0657997,-0.427119,9.739087,1.319642,9.837362,82.290764,92.511162

17.0683155,-0.396012,9.705587,1.336391,9.805161,82.166504,92.336517

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17.0809231,-0.386441,9.727123,1.307678,9.822234,82.349243,92.275063

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17.0859566,-0.336192,9.715159,1.283749,9.805374,82.477066,91.981918

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17.0935020,-0.355334,9.712767,1.314856,9.807800,82.295601,92.095184

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17.1086006,-0.386441,9.710373,1.333999,9.809191,82.183853,92.278984

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17.1161499,-0.381655,9.717552,1.357927,9.819391,82.051071,92.249123

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17.1211834,-0.360120,9.717552,1.326820,9.814324,82.230263,92.122337

17.1236992,-0.372084,9.722338,1.341177,9.821459,82.151405,92.191696

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17.1287327,-0.369691,9.703195,1.355534,9.804394,82.052956,92.181908

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17.1337662,-0.403191,9.724730,1.305285,9.820219,82.361748,92.374146

17.1362839,-0.379262,9.753445,1.314856,9.848978,82.328003,92.226822

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17.1413155,-0.415155,9.734302,1.324427,9.832756,82.258987,92.442108

17.1438313,-0.415155,9.743873,1.336391,9.843848,82.197487,92.439713

17.1463490,-0.379262,9.715159,1.333999,9.813649,82.187424,92.235588

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17.1513824,-0.388834,9.741480,1.338784,9.840730,82.180939,92.285759

17.1538982,-0.417548,9.700802,1.341177,9.801972,82.135704,92.464638

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17.1689987,-0.434297,9.703195,1.331606,9.803763,82.193619,92.562744

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17.2293911,-0.422333,9.743873,1.341177,9.844805,82.170135,92.481842

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17.2444935,-0.446261,9.734302,1.355534,9.838356,82.080566,92.624840

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17.4684792,-0.458226,9.696016,1.398605,9.807078,81.800995,92.705734

17.4709930,-0.451047,9.717552,1.348356,9.821014,82.108772,92.657516

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17.4760303,-0.451047,9.763016,1.367498,9.868635,82.034882,92.645157

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17.4810638,-0.436690,9.743873,1.350748,9.846740,82.115463,92.566101

17.4835815,-0.417548,9.724730,1.350748,9.826965,82.099495,92.458580

17.4860973,-0.424726,9.719945,1.369891,9.825189,81.985344,92.502022

17.4886150,-0.431904,9.746265,1.360320,9.850213,82.062050,92.537392

17.4911289,-0.436690,9.755837,1.348356,9.858252,82.138771,92.562958

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17.4961643,-0.451047,9.753445,1.355534,9.857515,82.096054,92.647751

17.4986801,-0.446261,9.729516,1.322034,9.829060,82.270142,92.626129

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17.5087490,-0.407976,9.705587,1.355534,9.808279,82.056122,92.407021

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17.5137806,-0.443869,9.736694,1.372284,9.842937,81.985825,92.610146

17.5162983,-0.460618,9.734302,1.372284,9.841339,81.984512,92.709160

17.5188141,-0.482453,9.729516,1.369891,9.837318,81.995293,92.838776

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17.5238495,-0.472882,9.710373,1.372284,9.818254,81.965546,92.788025

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17.5565662,-0.436690,9.657731,1.381855,9.765859,81.865425,92.588959

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17.5641174,-0.376870,9.703195,1.353141,9.804337,82.067024,92.224236

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17.5691490,-0.508774,9.722338,1.322034,9.824992,82.266922,92.995583

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17.5792160,-0.357727,9.715159,1.336391,9.813167,82.172935,92.108765

17.5817337,-0.415155,9.681660,1.350748,9.784244,82.064781,92.455368

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17.6119328,-0.443869,9.679267,1.389034,9.788495,81.841919,92.625610

17.6144505,-0.477667,9.710373,1.360320,9.816821,82.034874,92.816193

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17.6245136,-0.467797,9.657731,1.374677,9.766286,81.908325,92.773102

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17.9692841,-0.422333,9.657731,1.333999,9.758570,82.143051,92.503952

17.9718018,-0.431904,9.643374,1.300499,9.740252,82.327065,92.564430

17.9743195,-0.443869,9.664909,1.357927,9.769926,82.010567,92.629509

17.9768353,-0.463011,9.686445,1.355534,9.791786,82.042656,92.736649

17.9793530,-0.463011,9.662517,1.331606,9.764823,82.162292,92.743416

17.9818687,-0.470489,9.667302,1.360320,9.773871,81.999649,92.786278

17.9843864,-0.465404,9.727123,1.405783,9.839194,81.785706,92.739288

17.9869022,-0.453440,9.736694,1.336391,9.838433,82.193161,92.666351

17.9894180,-0.443869,9.707980,1.362713,9.813200,82.017815,92.617859

17.9919357,-0.436690,9.707980,1.343570,9.810238,82.128265,92.575577

17.9944534,-0.434297,9.763016,1.343570,9.864597,82.171913,92.547066

17.9969692,-0.451047,9.746265,1.333999,9.847471,82.214424,92.649696

17.9994850,-0.443869,9.722338,1.322034,9.821845,82.264427,92.613998

18.0020008,-0.460618,9.724730,1.357927,9.829879,82.059608,92.711823

18.0045185,-0.475274,9.705587,1.369891,9.813303,81.975571,92.803490

18.0070324,-0.496810,9.705587,1.386641,9.816721,81.879646,92.930298

18.0095501,-0.458226,9.700802,1.350748,9.805103,82.081764,92.704407

18.0120678,-0.441476,9.669696,1.331606,9.770931,82.167221,92.614059

18.0145836,-0.443869,9.676874,1.355534,9.781430,82.034180,92.626259

18.0171013,-0.463011,9.676874,1.326820,9.778380,82.201530,92.739349

18.0196171,-0.424726,9.707980,1.343570,9.809712,82.127838,92.505104

18.0221329,-0.412762,9.688838,1.348356,9.790915,82.084358,92.439430

18.0246506,-0.417548,9.715159,1.353141,9.817823,82.077995,92.460999

18.0271664,-0.400798,9.681660,1.357927,9.784637,82.022659,92.370560

18.0296841,-0.410369,9.700802,1.343570,9.801997,82.121605,92.422318

18.0321999,-0.369691,9.715159,1.372284,9.818562,81.965797,92.179222

18.0347157,-0.431904,9.688838,1.343570,9.791082,82.112770,92.552414

18.0372334,-0.396012,9.705587,1.372284,9.810118,81.958832,92.336517

18.0397549,-0.405583,9.674481,1.365105,9.778732,81.975334,92.400604

18.0422707,-0.400798,9.707980,1.338784,9.808051,82.154724,92.364136

18.0447865,-0.427119,9.693624,1.350748,9.796597,82.074844,92.522926

18.0473022,-0.393619,9.657731,1.333999,9.757369,82.142082,92.333908

18.0498199,-0.396012,9.684052,1.298106,9.778689,82.371552,92.341705

18.0523376,-0.405583,9.684052,1.295713,9.778765,82.385757,92.398239

18.0548534,-0.407976,9.696016,1.312463,9.792943,82.297966,92.409393

18.0573711,-0.431904,9.662517,1.322034,9.762097,82.216789,92.559357

18.0598812,-0.388834,9.669696,1.336391,9.769348,82.137611,92.302711

18.0623989,-0.405583,9.669696,1.290928,9.763914,82.402443,92.401794

18.0649147,-0.417548,9.691231,1.288535,9.785429,82.433380,92.467072

18.0674305,-0.434297,9.693624,1.307678,9.791066,82.324745,92.565269

18.0699482,-0.434297,9.696016,1.278665,9.789603,82.494896,92.564636

18.0724640,-0.424726,9.710373,1.310070,9.807549,82.323616,92.504486

18.0749817,-0.439083,9.703195,1.298106,9.799482,82.387833,92.590942

18.0774975,-0.453440,9.681660,1.307678,9.780090,82.316078,92.681488

18.0800133,-0.436690,9.691231,1.298106,9.787529,82.378487,92.580025

18.0825310,-0.431904,9.715159,1.278665,9.808458,82.509407,92.545509

18.0850487,-0.436690,9.696016,1.276272,9.789397,82.508858,92.578751

18.0875626,-0.487238,9.676874,1.254736,9.770039,82.621300,92.882454

18.0900803,-0.429512,9.703195,1.261915,9.794330,82.597359,92.534538

18.0925961,-0.453440,9.712767,1.312463,9.811523,82.312645,92.672913

18.0951138,-0.489631,9.705587,1.295713,9.803929,82.405418,92.888031

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18.1001530,-0.453440,9.715159,1.295713,9.811666,82.411446,92.672249

18.1026707,-0.453440,9.693624,1.286142,9.789081,82.450340,92.678177

18.1051865,-0.494417,9.707980,1.281057,9.804613,82.492348,92.915497

18.1077023,-0.487238,9.741480,1.324427,9.843167,82.267227,92.863373

18.1102200,-0.496810,9.731909,1.319642,9.833530,82.287743,92.922386

18.1127377,-0.484846,9.717552,1.286142,9.814279,82.469841,92.856339

18.1152534,-0.484846,9.743873,1.286142,9.840340,82.489899,92.848633

18.1177711,-0.492024,9.753445,1.295713,9.851429,82.442253,92.887909

18.1202869,-0.455833,9.760623,1.298106,9.857111,82.432602,92.673836

18.1228046,-0.487238,9.782457,1.298106,9.880231,82.450409,92.851395

18.1253223,-0.511167,9.763016,1.310070,9.863774,82.367630,92.997124

18.1278362,-0.506381,9.780065,1.314856,9.881039,82.353050,92.963951

18.1303539,-0.501595,9.743873,1.317249,9.845293,82.311066,92.946877

18.1328697,-0.492024,9.751051,1.290928,9.848431,82.468018,92.888611

18.1353874,-0.527916,9.777672,1.278665,9.875047,82.560204,93.090515

18.1379051,-0.544666,9.741480,1.271486,9.839195,82.575096,93.200195

18.1404190,-0.549452,9.686445,1.298106,9.788473,82.379227,93.246552

18.1429367,-0.537488,9.688838,1.324427,9.793701,82.227928,93.175224

18.1454544,-0.520738,9.719945,1.317249,9.822609,82.293205,93.066643

18.1479702,-0.530309,9.741480,1.310070,9.843472,82.351799,93.116005

18.1504860,-0.532702,9.775279,1.288535,9.874218,82.501808,93.119240

18.1530018,-0.532702,9.691231,1.257129,9.786936,82.619980,93.146233

18.1555195,-0.523131,9.758230,1.252344,9.852162,82.697174,93.068642

18.1580372,-0.503988,9.772886,1.266701,9.867515,82.624542,92.952133

18.1605511,-0.515952,9.789636,1.290928,9.887855,82.498222,93.016922

18.1630688,-0.511167,9.758230,1.281057,9.855225,82.531120,92.998589

18.1655846,-0.496810,9.763016,1.286142,9.859891,82.504875,92.913094

18.1681023,-0.472882,9.763016,1.305285,9.861230,82.393707,92.773010

18.1706200,-0.503988,9.751051,1.252344,9.844052,82.691124,92.958733

18.1731358,-0.482453,9.780065,1.261915,9.872935,82.656616,92.824127

18.1756535,-0.475274,9.770494,1.245165,9.860976,82.745781,92.784889

18.1781693,-0.448654,9.741480,1.247558,9.831284,82.709694,92.636955

18.1806793,-0.436690,9.739087,1.261915,9.830206,82.624519,92.567360

18.1831970,-0.460618,9.755837,1.278665,9.850052,82.541214,92.703194

18.1857128,-0.508774,9.780065,1.278665,9.876411,82.561234,92.977928

18.1882286,-0.446261,9.763016,1.298106,9.859042,82.434090,92.617134

18.1907444,-0.484846,9.748658,1.273879,9.843484,82.564301,92.847237

18.1932621,-0.470489,9.770494,1.290928,9.866631,82.481995,92.756897

18.1957798,-0.458226,9.758230,1.314856,9.857072,82.334343,92.688515

18.1982937,-0.460618,9.717552,1.290928,9.813740,82.441238,92.713829

18.2008228,-0.467797,9.739087,1.298106,9.836348,82.416534,92.749969

18.2033386,-0.443869,9.717552,1.310070,9.815505,82.329872,92.615280

18.2058544,-0.460618,9.676874,1.353141,9.781874,82.048691,92.725220

18.2083721,-0.424726,9.657731,1.341177,9.759658,82.101387,92.518120

18.2108898,-0.434297,9.657731,1.329213,9.758442,82.171310,92.574791

18.2134056,-0.410369,9.650553,1.331606,9.750628,82.150810,92.434914

18.2159233,-0.407976,9.609875,1.360320,9.714248,81.950218,92.430969

18.2184410,-0.419940,9.643374,1.322034,9.742627,82.201141,92.493484

18.2209473,-0.448654,9.626625,1.310070,9.725713,82.258629,92.668373

18.2234631,-0.436690,9.595518,1.312463,9.694700,82.219437,92.605721

18.2259808,-0.412762,9.607482,1.343570,9.709751,82.046272,92.460060

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18.2310123,-0.453440,9.612267,1.324427,9.713671,82.163498,92.700813

18.2335300,-0.463011,9.652946,1.345963,9.757323,82.071114,92.746132

18.2360477,-0.467797,9.650553,1.324427,9.752236,82.194679,92.775162

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18.2486286,-0.492024,9.674481,1.326820,9.777430,82.200768,92.911438

18.2511444,-0.523131,9.672089,1.326820,9.776677,82.200165,93.095917

18.2536621,-0.501595,9.655338,1.290928,9.754161,82.394798,92.973846

18.2561779,-0.539881,9.696016,1.314856,9.799645,82.289146,93.186974

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18.2637291,-0.570987,9.722338,1.302892,9.825853,82.380234,93.361084

18.2662468,-0.582951,9.691231,1.266701,9.791033,82.566605,93.442337

18.2687645,-0.547059,9.703195,1.288535,9.803652,82.447525,93.226875

18.2712784,-0.582951,9.722338,1.245165,9.819069,82.714653,93.431351

18.2737961,-0.609272,9.746265,1.240379,9.843752,82.761101,93.577103

18.2763119,-0.604487,9.780065,1.269093,9.880570,82.620354,93.536842

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18.2813492,-0.604487,9.758230,1.202094,9.850558,82.990547,93.544739

18.2838650,-0.592523,9.775279,1.261915,9.874188,82.657555,93.468704

18.2863827,-0.594916,9.753445,1.249951,9.851192,82.710480,93.490456

18.2889004,-0.585344,9.768100,1.233201,9.863021,82.817352,93.429298

18.2914162,-0.594916,9.770494,1.221237,9.864476,82.888451,93.484383

18.2939339,-0.578166,9.765409,1.259522,9.863258,82.663391,93.388268

18.2964478,-0.561416,9.782457,1.245165,9.877353,82.757874,93.284607

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18.3014832,-0.511167,9.787243,1.211666,9.875198,82.952171,92.989723

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18.3090305,-0.537488,9.729516,1.242772,9.823281,82.731865,93.161980

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18.3165817,-0.578166,9.784850,1.257129,9.882203,82.691521,93.381554

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18.3291702,-0.585344,9.743873,1.254736,9.841750,82.675362,93.437805

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18.3392372,-0.551845,9.693624,1.218844,9.785522,82.844894,93.258255

18.3417511,-0.542273,9.751051,1.240379,9.844572,82.761703,93.183044

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18.3493004,-0.530309,9.672089,1.249951,9.766930,82.647247,93.138321

18.3518181,-0.539881,9.655338,1.252344,9.751174,82.621124,93.200378

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18.3618870,-0.539881,9.686445,1.257129,9.782590,82.616684,93.190117

18.3644028,-0.527916,9.691231,1.237987,9.784235,82.730957,93.118027

18.3669205,-0.499203,9.686445,1.288535,9.784516,82.432671,92.950195

18.3694363,-0.523131,9.686445,1.288535,9.785766,82.433640,93.091339

18.3719521,-0.532702,9.684052,1.261915,9.780443,82.586784,93.148567

18.3744698,-0.530309,9.688838,1.247558,9.783211,82.673676,93.132904

18.3769855,-0.518345,9.664909,1.259522,9.760407,82.585648,93.069923

18.3795033,-0.525524,9.681660,1.252344,9.776455,82.640305,93.106987

18.3820324,-0.544666,9.691231,1.237987,9.785153,82.731644,93.216751

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18.3946171,-0.556630,9.712767,1.237987,9.807155,82.748032,93.279984

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18.4675808,-0.511167,9.727123,1.228415,9.817699,82.812164,93.008163

18.4700985,-0.513560,9.770494,1.276272,9.866871,82.568016,93.008827

18.4726162,-0.482453,9.782457,1.223630,9.870486,82.878807,92.823433

18.4751320,-0.477667,9.763016,1.235594,9.852479,82.795601,92.801033

18.4776497,-0.489631,9.765409,1.249951,9.857247,82.714981,92.870369

18.4801636,-0.463011,9.770494,1.202094,9.855047,82.993752,92.713142

18.4827080,-0.458226,9.772886,1.226022,9.860142,82.857285,92.684486

18.4852257,-0.472882,9.746265,1.271486,9.840223,82.575874,92.777771

18.4877415,-0.451047,9.768100,1.281057,9.862064,82.536331,92.643784

18.4902611,-0.429512,9.729516,1.266701,9.821023,82.589432,92.527695

18.4927788,-0.448654,9.707980,1.237987,9.796876,82.740387,92.646042

18.4952946,-0.448654,9.743873,1.235594,9.832144,82.780617,92.636307

18.4978123,-0.386441,9.765409,1.230808,9.850250,82.822021,92.266151

18.5003281,-0.379262,9.741480,1.247558,9.828361,82.707520,92.229553

18.5028324,-0.410369,9.731909,1.261915,9.821959,82.618294,92.414581

18.5053482,-0.405583,9.703195,1.235594,9.789953,82.749344,92.393509

18.5078659,-0.374477,9.731909,1.242772,9.818084,82.727997,92.203613

18.5103817,-0.384048,9.724730,1.288535,9.817240,82.458038,92.261543

18.5128994,-0.396012,9.712767,1.278665,9.804573,82.506416,92.334793

18.5154171,-0.374477,9.703195,1.247558,9.790231,82.678963,92.210129

18.5179329,-0.355334,9.710373,1.230808,9.794513,82.780952,92.095703

18.5204506,-0.369691,9.724730,1.247558,9.811395,82.694839,92.177086

18.5229702,-0.360120,9.705587,1.245165,9.791759,82.694221,92.124947

18.5254860,-0.367298,9.703195,1.226022,9.787238,82.803795,92.167801

18.5280037,-0.357727,9.707980,1.237987,9.793133,82.737595,92.110321

18.5305214,-0.336192,9.693624,1.223630,9.776330,82.809860,91.986320

18.5330372,-0.376870,9.696016,1.233201,9.781387,82.757088,92.225883

18.5355549,-0.372084,9.731909,1.221237,9.815289,82.852631,92.189545

18.5380707,-0.364905,9.703195,1.259522,9.791401,82.609245,92.153694

18.5405884,-0.376870,9.715159,1.214058,9.797974,82.882233,92.221497

18.5431042,-0.350549,9.688838,1.185344,9.767370,83.029541,92.072098

18.5456200,-0.376870,9.688838,1.226022,9.773369,82.793533,92.227531

18.5481377,-0.393619,9.707980,1.197309,9.789452,82.974792,92.321838

18.5506554,-0.400798,9.739087,1.214058,9.822647,82.900208,92.356590

18.5531712,-0.360120,9.741480,1.185344,9.819937,83.067039,92.117126

18.5556889,-0.393619,9.705587,1.218844,9.789737,82.847992,92.322411

18.5582047,-0.400798,9.712767,1.190130,9.793614,83.020103,92.362976

18.5607224,-0.434297,9.717552,1.216451,9.803020,82.871826,92.558960

18.5632439,-0.381655,9.707980,1.187737,9.787812,83.030060,92.251343

18.5657597,-0.376870,9.722338,1.204487,9.803911,82.942940,92.219856

18.5682774,-0.417548,9.717552,1.209273,9.801404,82.912933,92.460396

18.5707951,-0.417548,9.731909,1.237987,9.819216,82.756989,92.456772

18.5733109,-0.443869,9.705587,1.209273,9.790699,82.905144,92.618500

18.5758286,-0.429512,9.691231,1.221237,9.777313,82.824722,92.537666

18.5783463,-0.436690,9.688838,1.233201,9.776761,82.753639,92.580658

18.5808620,-0.460618,9.719945,1.226022,9.807784,82.818954,92.713158

18.5833778,-0.441476,9.703195,1.240379,9.792110,82.722717,92.605049

18.5858936,-0.429512,9.686445,1.230808,9.773770,82.765549,92.538918

18.5883808,-0.480060,9.693624,1.216451,9.781439,82.856018,92.835159

18.5908661,-0.487238,9.727123,1.199701,9.812931,82.977608,92.867592

18.5933838,-0.477667,9.727123,1.194916,9.811876,83.005005,92.811348

18.5959015,-0.472882,9.710373,1.187737,9.794166,83.034599,92.788025

18.5984173,-0.499203,9.736694,1.223630,9.825971,82.846375,92.934998

18.6009350,-0.508774,9.715159,1.273879,9.811521,82.539940,92.997787

18.6034527,-0.503988,9.751051,1.209273,9.838666,82.939911,92.958733

18.6059933,-0.523131,9.746265,1.235594,9.838194,82.785080,93.072403

18.6085377,-0.549452,9.717552,1.228415,9.810287,82.806709,93.236183

18.6110783,-0.566202,9.731909,1.221237,9.824564,82.859413,93.329712

18.6135979,-0.527916,9.727123,1.237987,9.819788,82.757416,93.106544

18.6161156,-0.523131,9.727123,1.202094,9.815071,82.965073,93.078438

18.6186333,-0.542273,9.722338,1.214058,9.812840,82.893074,93.192421

18.6211529,-0.539881,9.710373,1.190130,9.797919,83.023186,93.182274

18.6236725,-0.532702,9.743873,1.190130,9.830729,83.046585,93.129272

18.6261902,-0.559023,9.731909,1.192523,9.820624,83.025337,93.287590

18.6287098,-0.570987,9.674481,1.221237,9.767960,82.817818,93.377678

18.6311932,-0.537488,9.722338,1.173380,9.807628,83.128700,93.164307

18.6337109,-0.523131,9.719945,1.182952,9.805630,83.070953,93.080704

18.6362305,-0.544666,9.743873,1.161416,9.827950,83.213219,93.199409

18.6387463,-0.547059,9.703195,1.211666,9.793844,82.893326,93.226875

18.6412659,-0.537488,9.684052,1.211666,9.774349,82.879082,93.176788

18.6437836,-0.535095,9.729516,1.209273,9.818969,82.925674,93.147926

18.6462994,-0.547059,9.712767,1.194916,9.801272,82.997398,93.223701

18.6488190,-0.527916,9.710373,1.204487,9.799022,82.939400,93.111893

18.6513309,-0.535095,9.715159,1.211666,9.805038,82.901482,93.152573

18.6538467,-0.535095,9.715159,1.170988,9.800095,83.137482,93.152573

18.6563663,-0.544666,9.719945,1.190130,9.807671,83.030159,93.207268

18.6588821,-0.570987,9.705587,1.199701,9.796108,82.965492,93.366875

18.6613998,-0.561416,9.696016,1.218844,9.788437,82.847031,93.313828

18.6639194,-0.537488,9.727123,1.223630,9.818507,82.840912,93.162750

18.6664352,-0.551845,9.796814,1.228415,9.888938,82.864220,93.224007

18.6689529,-0.561416,9.763016,1.178166,9.849860,83.130264,93.291130

18.6714592,-0.532702,9.748658,1.209273,9.837808,82.939293,93.127739

18.6739769,-0.559023,9.739087,1.218844,9.830967,82.878143,93.285172

18.6764965,-0.554238,9.731909,1.226022,9.824478,82.831223,93.259506

18.6790123,-0.568594,9.746265,1.206880,9.837152,82.952858,93.338837

18.6815300,-0.547059,9.729516,1.185344,9.816710,83.064751,93.218170

18.6840477,-0.527916,9.748658,1.202094,9.836669,82.980598,93.099693

18.6865635,-0.518345,9.758230,1.242772,9.850697,82.752205,93.040627

18.6890831,-0.547059,9.743873,1.218844,9.835034,82.881104,93.213432

18.6915951,-0.515952,9.715159,1.242772,9.807905,82.720406,93.040009

18.6941128,-0.542273,9.780065,1.245165,9.873913,82.755341,93.173622

18.6966305,-0.518345,9.741480,1.264308,9.836848,82.615479,93.045845

18.6991463,-0.506381,9.736694,1.237987,9.828135,82.763596,92.977127

18.7016640,-0.523131,9.758230,1.252344,9.852162,82.697174,93.068642

18.7041836,-0.506381,9.748658,1.254736,9.842110,82.675629,92.973480

18.7066994,-0.441476,9.758230,1.230808,9.845448,82.818497,92.590370

18.7092171,-0.451047,9.736694,1.254736,9.827564,82.664726,92.652298

18.7117290,-0.467797,9.715159,1.261915,9.807935,82.607681,92.756729

18.7142467,-0.446261,9.736694,1.261915,9.828265,82.623055,92.624199

18.7167645,-0.451047,9.775279,1.278665,9.868866,82.555511,92.641846

18.7192802,-0.434297,9.751051,1.257129,9.841340,82.661003,92.550186

18.7217979,-0.443869,9.705587,1.202094,9.789815,82.946831,92.618500

18.7243137,-0.429512,9.731909,1.264308,9.823085,82.605072,92.527077

18.7268314,-0.429512,9.736694,1.237987,9.824474,82.760887,92.525833

18.7293491,-0.417548,9.707980,1.245165,9.796411,82.697708,92.462814

18.7318649,-0.415155,9.707980,1.240379,9.795702,82.725403,92.448723

18.7343826,-0.427119,9.705587,1.216451,9.790843,82.862915,92.519821

18.7369022,-0.393619,9.727123,1.209273,9.809903,82.919106,92.317276

18.7394180,-0.388834,9.743873,1.247558,9.831106,82.709564,92.285202

18.7419357,-0.405583,9.712767,1.261915,9.802794,82.603783,92.391151

18.7444534,-0.403191,9.724730,1.261915,9.814548,82.612694,92.374146

18.7469692,-0.396012,9.705587,1.240379,9.792538,82.723038,92.336517

18.7494869,-0.403191,9.731909,1.286142,9.824804,82.477951,92.372391

18.7519989,-0.405583,9.731909,1.259522,9.821453,82.631989,92.386459

18.7545166,-0.441476,9.717552,1.242772,9.806641,82.719467,92.601204

18.7570343,-0.400798,9.703195,1.218844,9.787656,82.846458,92.365303

18.7595501,-0.398405,9.712767,1.240379,9.799750,82.728424,92.348885

18.7620678,-0.431904,9.707980,1.252344,9.797948,82.656540,92.547386

18.7645836,-0.419940,9.715159,1.206880,9.798839,82.925163,92.475082

18.7671013,-0.434297,9.731909,1.237987,9.819942,82.757530,92.555191

18.7696190,-0.448654,9.712767,1.230808,9.800715,82.785545,92.644737

18.7721195,-0.396012,9.703195,1.235594,9.789561,82.749046,92.337090

18.7746353,-0.448654,9.688838,1.247558,9.779124,82.670601,92.651260

18.7771530,-0.470489,9.710373,1.245165,9.801181,82.701286,92.773933

18.7796707,-0.448654,9.710373,1.247558,9.800462,82.686646,92.645393

18.7821865,-0.441476,9.686445,1.221237,9.773103,82.821617,92.609543

18.7847023,-0.465404,9.722338,1.233201,9.811281,82.779274,92.740631

18.7872181,-0.480060,9.724730,1.266701,9.818624,82.587616,92.826103

18.7897358,-0.477667,9.741480,1.266701,9.835096,82.600098,92.807213

18.7922688,-0.489631,9.739087,1.247558,9.830868,82.709389,92.878113

18.7947865,-0.465404,9.731909,1.245165,9.822275,82.717049,92.737938

18.7973042,-0.463011,9.734302,1.252344,9.825445,82.677208,92.723213

18.7998199,-0.467797,9.734302,1.216451,9.821161,82.885063,92.751320

18.8023376,-0.499203,9.724730,1.228415,9.814713,82.809967,92.938606

18.8048534,-0.487238,9.758230,1.247558,9.849714,82.723412,92.858467

18.8073711,-0.503988,9.703195,1.261915,9.797878,82.600052,92.973297

18.8098888,-0.494417,9.724730,1.209273,9.812093,82.920692,92.910477

18.8124027,-0.489631,9.753445,1.178166,9.836539,83.120918,92.873886

18.8149204,-0.494417,9.734302,1.228415,9.823955,82.816772,92.907623

18.8174362,-0.501595,9.743873,1.214058,9.832019,82.907013,92.946877

18.8199539,-0.467797,9.729516,1.185344,9.812613,83.061836,92.752670

18.8224716,-0.472882,9.739087,1.206880,9.824967,82.944077,92.779816

18.8249874,-0.463011,9.734302,1.211666,9.820343,82.912605,92.723213

18.8275051,-0.489631,9.736694,1.209273,9.823710,82.929108,92.878822

18.8300228,-0.472882,9.724730,1.237987,9.814611,82.753571,92.783913

18.8325367,-0.460618,9.715159,1.209273,9.800961,82.912613,92.714493

18.8350544,-0.496810,9.736694,1.216451,9.824957,82.887825,92.920952

18.8375702,-0.482453,9.775279,1.237987,9.865164,82.790901,92.825508

18.8400879,-0.494417,9.741480,1.264308,9.835616,82.614548,92.905487

18.8426056,-0.496810,9.765409,1.240379,9.856398,82.770439,92.912384

18.8451214,-0.487238,9.731909,1.230808,9.821525,82.800911,92.866180

18.8476391,-0.506381,9.727123,1.252344,9.820475,82.673477,92.980049

18.8501568,-0.537488,9.727123,1.230808,9.819405,82.799355,93.162750

18.8526726,-0.467797,9.700802,1.240379,9.790962,82.721863,92.760803

18.8551903,-0.475274,9.729516,1.233201,9.818867,82.784882,92.796600

18.8577061,-0.511167,9.772886,1.247558,9.865445,82.735077,92.994102

18.8602238,-0.515952,9.751051,1.249951,9.844368,82.705399,93.028839

18.8627415,-0.515952,9.712767,1.228415,9.803726,82.801872,93.040756

18.8652573,-0.525524,9.727123,1.252344,9.821480,82.674232,93.092491

18.8677750,-0.551845,9.734302,1.264308,9.831563,82.611488,93.244667

18.8702927,-0.554238,9.693624,1.259522,9.790808,82.608795,93.272354

18.8728046,-0.547059,9.676874,1.259522,9.773820,82.595879,93.235634

18.8753223,-0.551845,9.681660,1.235594,9.775774,82.738770,93.262268

18.8778381,-0.559023,9.684052,1.242772,9.779461,82.699120,93.303802

18.8803558,-0.525524,9.698409,1.266701,9.794888,82.569550,93.101631

18.8828735,-0.556630,9.719945,1.276272,9.819167,82.531700,93.277565

18.8853893,-0.551845,9.696016,1.249951,9.791815,82.666031,93.257454

18.8879070,-0.575773,9.679267,1.266701,9.778766,82.557228,93.404236

18.8904247,-0.554238,9.664909,1.228415,9.758415,82.768265,93.282051

18.8929386,-0.547059,9.700802,1.254736,9.796897,82.641640,93.227669

18.8954563,-0.547059,9.696016,1.247558,9.791242,82.679718,93.229263

18.8979721,-0.551845,9.736694,1.230808,9.829681,82.806915,93.243874

18.9004898,-0.580559,9.703195,1.240379,9.799366,82.728134,93.424019

18.9030075,-0.575773,9.679267,1.249951,9.776609,82.654564,93.404236

18.9055233,-0.556630,9.691231,1.223630,9.784020,82.815544,93.287254

18.9080410,-0.556630,9.724730,1.199701,9.814250,82.978561,93.275955

18.9105549,-0.563809,9.712767,1.211666,9.804277,82.900932,93.322189

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18.9155884,-0.530309,9.688838,1.223630,9.780188,82.812714,93.132904

18.9181042,-0.518345,9.753445,1.247558,9.846561,82.721069,93.042114

18.9206219,-0.554238,9.743873,1.259522,9.840561,82.646378,93.255508

18.9231377,-0.539881,9.715159,1.218844,9.806190,82.860054,93.180710

18.9256554,-0.520738,9.705587,1.204487,9.793896,82.935684,93.071167

18.9281731,-0.513560,9.712767,1.223630,9.803002,82.829529,93.026680

18.9306889,-0.506381,9.715159,1.197309,9.801749,82.983650,92.983711

18.9332027,-0.523131,9.700802,1.163809,9.784359,83.168732,93.086777

18.9357185,-0.525524,9.712767,1.202094,9.800972,82.954903,93.097054

18.9382362,-0.539881,9.758230,1.194916,9.845931,83.029320,93.166702

18.9407539,-0.518345,9.724730,1.168595,9.808398,83.157394,93.051079

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18.9483032,-0.535095,9.758230,1.194916,9.845670,83.029137,93.138687

18.9508190,-0.520738,9.741480,1.245165,9.834533,82.726173,93.059875

18.9533367,-0.480060,9.794421,1.240379,9.884315,82.790962,92.806030

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18.9608860,-0.506381,9.734302,1.173380,9.817835,83.135880,92.977859

18.9634018,-0.484846,9.731909,1.221237,9.820211,82.856232,92.852127

18.9659195,-0.525524,9.755837,1.233201,9.847504,82.805969,93.083405

18.9684353,-0.482453,9.751051,1.204487,9.836999,82.966797,92.832512

18.9709530,-0.477667,9.739087,1.202094,9.824613,82.971939,92.807899

18.9734688,-0.489631,9.724730,1.192523,9.809803,83.017601,92.882355

18.9759846,-0.482453,9.753445,1.190130,9.837625,83.051483,92.831818

18.9785004,-0.496810,9.772886,1.192523,9.857903,83.051842,92.910156

18.9810162,-0.489631,9.736694,1.185344,9.820794,83.067642,92.878822

18.9835339,-0.487238,9.736694,1.170988,9.818953,83.150726,92.864777

18.9860516,-0.494417,9.707980,1.242772,9.799684,82.714272,92.915497

18.9885674,-0.492024,9.717552,1.204487,9.804270,82.943199,92.898552

18.9910851,-0.475274,9.703195,1.194916,9.788038,82.987885,92.804176

18.9936008,-0.472882,9.710373,1.230808,9.799482,82.784637,92.788025

18.9961166,-0.443869,9.734302,1.199701,9.817990,82.981247,92.610786

18.9986324,-0.472882,9.727123,1.235594,9.816682,82.769188,92.783226

19.0011482,-0.480060,9.700802,1.206880,9.787369,82.916832,92.833061

19.0036659,-0.470489,9.662517,1.192523,9.747190,82.972527,92.787651

19.0061836,-0.455833,9.672089,1.199701,9.756863,82.937050,92.698280

19.0086994,-0.501595,9.700802,1.194916,9.786981,82.987122,92.959930

19.0112171,-0.472882,9.707980,1.218844,9.795615,82.852303,92.788712

19.0137310,-0.460618,9.703195,1.192523,9.787045,83.001282,92.717834

19.0162487,-0.446261,9.724730,1.204487,9.809196,82.946754,92.627419

19.0187664,-0.463011,9.727123,1.221237,9.814414,82.851990,92.725220

19.0212803,-0.503988,9.727123,1.202094,9.814070,82.964355,92.965996

19.0237980,-0.496810,9.731909,1.211666,9.819623,82.912079,92.922386

19.0263138,-0.503988,9.734302,1.211666,9.822361,82.914063,92.963814

19.0288315,-0.501595,9.734302,1.214058,9.822534,82.900124,92.949768

19.0313492,-0.496810,9.768100,1.202094,9.854320,82.993233,92.911583

19.0338650,-0.494417,9.719945,1.233201,9.810329,82.778564,92.911911

19.0363808,-0.508774,9.736694,1.216451,9.825569,82.888268,92.991173

19.0388985,-0.535095,9.729516,1.214058,9.819559,82.897964,93.147926

19.0414143,-0.506381,9.741480,1.216451,9.830189,82.891624,92.975670

19.0439320,-0.475274,9.729516,1.190130,9.813551,83.034355,92.796600

19.0464478,-0.480060,9.772886,1.247558,9.863882,82.733917,92.812202

19.0489655,-0.460618,9.710373,1.233201,9.799198,82.770317,92.715828

19.0514812,-0.465404,9.727123,1.218844,9.814230,82.865929,92.739288

19.0539970,-0.484846,9.710373,1.240379,9.801273,82.729561,92.858444

19.0565147,-0.489631,9.736694,1.273879,9.831873,82.555473,92.878822

19.0590286,-0.453440,9.719945,1.235594,9.808651,82.763237,92.670937

19.0615463,-0.472882,9.741480,1.237987,9.831208,82.765869,92.779137

19.0640640,-0.506381,9.753445,1.233201,9.844130,82.803497,92.972023

19.0665798,-0.477667,9.722338,1.266701,9.816137,82.585724,92.812729

19.0690975,-0.451047,9.736694,1.254736,9.827564,82.664726,92.652298

19.0716133,-0.480060,9.736694,1.214058,9.823829,82.901062,92.822639

19.0741291,-0.503988,9.763016,1.228415,9.852892,82.837975,92.955109

19.0766468,-0.489631,9.743873,1.230808,9.833498,82.809723,92.876701

19.0791626,-0.436690,9.741480,1.252344,9.831352,82.681625,92.566734

19.0816803,-0.446261,9.753445,1.252344,9.843637,82.690811,92.619698

19.0841980,-0.492024,9.746265,1.223630,9.835093,82.853043,92.890030

19.0867119,-0.439083,9.734302,1.223630,9.820727,82.842537,92.582680

19.0892296,-0.467797,9.724730,1.211666,9.811083,82.905876,92.754021

19.0917454,-0.496810,9.729516,1.261915,9.823581,82.619522,92.923103

19.0942631,-0.492024,9.717552,1.269093,9.812416,82.568810,92.898552

19.0967808,-0.453440,9.746265,1.247558,9.836245,82.713394,92.663734

19.0992966,-0.453440,9.751051,1.214058,9.836795,82.910469,92.662430

19.1018143,-0.431904,9.734302,1.216451,9.819517,82.883865,92.540512

19.1043320,-0.441476,9.717552,1.192523,9.800400,83.010872,92.601204

19.1068478,-0.455833,9.715159,1.209273,9.800737,82.912445,92.686333

19.1093636,-0.451047,9.705587,1.170988,9.786372,83.127815,92.660789

19.1118793,-0.443869,9.734302,1.240379,9.823044,82.745758,92.610786

19.1143951,-0.475274,9.717552,1.211666,9.804328,82.900963,92.800041

19.1169128,-0.477667,9.710373,1.226022,9.799114,82.812569,92.816193

19.1194286,-0.496810,9.700802,1.211666,9.788795,82.889641,92.931740

19.1219463,-0.458226,9.729516,1.237987,9.818659,82.756577,92.696434

19.1244621,-0.499203,9.722338,1.249951,9.815062,82.683502,92.939323

19.1269779,-0.515952,9.717552,1.221237,9.807570,82.846977,93.039261

19.1294956,-0.470489,9.693624,1.240379,9.783978,82.716637,92.778725

19.1320114,-0.506381,9.686445,1.271486,9.782655,82.531937,92.992546

19.1345291,-0.537488,9.688838,1.247558,9.783603,82.673973,93.175224

19.1370468,-0.487238,9.676874,1.252344,9.769732,82.635216,92.882454

19.1395607,-0.480060,9.703195,1.245165,9.794534,82.696304,92.832367

19.1420784,-0.472882,9.734302,1.273879,9.828683,82.553040,92.781181

19.1445942,-0.525524,9.736694,1.226022,9.827641,82.833542,93.089455

19.1471119,-0.501595,9.734302,1.228415,9.824318,82.817039,92.949768

19.1496296,-0.511167,9.736694,1.240379,9.828685,82.749947,93.005211

19.1521435,-0.489631,9.724730,1.247558,9.816646,82.698769,92.882355

19.1546631,-0.487238,9.696016,1.266701,9.790540,82.566231,92.876778

19.1571770,-0.499203,9.731909,1.245165,9.823935,82.718285,92.936440

19.1596947,-0.494417,9.710373,1.245165,9.802359,82.702164,92.914780

19.1622124,-0.499203,9.715159,1.240379,9.806736,82.733627,92.941490

19.1647282,-0.503988,9.727123,1.221237,9.816433,82.853462,92.965996

19.1672459,-0.530309,9.727123,1.261915,9.822962,82.619057,93.120598

19.1697617,-0.503988,9.734302,1.242772,9.826246,82.734070,92.963814

19.1722775,-0.506381,9.741480,1.237987,9.832876,82.767105,92.975670

19.1747952,-0.518345,9.775279,1.240379,9.867285,82.778458,93.035332

19.1773109,-0.532702,9.710373,1.254736,9.805584,82.648193,93.140045

19.1798286,-0.530309,9.719945,1.249951,9.814323,82.682945,93.122894

19.1823463,-0.530309,9.739087,1.237987,9.831767,82.766289,93.116768

19.1848621,-0.554238,9.758230,1.230808,9.851149,82.822678,93.250732

19.1873798,-0.501595,9.724730,1.206880,9.812162,82.934822,92.952660

19.1898937,-0.508774,9.741480,1.233201,9.832398,82.794861,92.989700

19.1924114,-0.537488,9.712767,1.249951,9.807605,82.677902,93.167419

19.1949310,-0.520738,9.703195,1.245165,9.796612,82.697861,93.071922

19.1974468,-0.525524,9.698409,1.237987,9.791217,82.736168,93.101631

19.1999626,-0.535095,9.729516,1.261915,9.825591,82.621040,93.147926

19.2024803,-0.547059,9.731909,1.240379,9.825877,82.747864,93.217377

19.2049961,-0.535095,9.684052,1.235594,9.777213,82.739845,93.162682

19.2075138,-0.513560,9.707980,1.254736,9.802193,82.645638,93.028168

19.2100315,-0.503988,9.676874,1.273879,9.773365,82.510651,92.981369

19.2125473,-0.513560,9.693624,1.214058,9.782843,82.871170,93.032646

19.2150650,-0.532702,9.696016,1.242772,9.789841,82.706902,93.144684

19.2175808,-0.489631,9.672089,1.278665,9.768522,82.478607,92.898018

19.2200966,-0.506381,9.676874,1.283749,9.774780,82.453384,92.995499

19.2226143,-0.539881,9.719945,1.254736,9.815455,82.655632,93.179146

19.2251301,-0.547059,9.705587,1.273879,9.804104,82.534264,93.226082

19.2276478,-0.537488,9.707980,1.281057,9.806879,82.494087,93.168976

19.2301636,-0.547059,9.729516,1.278665,9.828415,82.524704,93.218170

19.2326813,-0.554238,9.719945,1.237987,9.814129,82.753212,93.263512

19.2352028,-0.573380,9.700802,1.240379,9.796575,82.726051,93.382614

19.2377186,-0.520738,9.724730,1.290928,9.823851,82.449066,93.065140

19.2402363,-0.503988,9.717552,1.273879,9.813643,82.541565,92.968910

19.2427540,-0.563809,9.715159,1.221237,9.807835,82.847168,93.321373

19.2452698,-0.578166,9.763016,1.245165,9.859066,82.744370,93.389099

19.2477875,-0.556630,9.775279,1.218844,9.866687,82.904053,93.259056

19.2503052,-0.532702,9.753445,1.252344,9.847935,82.694023,93.126205

19.2528210,-0.532702,9.775279,1.247558,9.868955,82.737679,93.119240

19.2553310,-0.566202,9.787243,1.235594,9.881165,82.816628,93.310928

19.2578468,-0.551845,9.751051,1.214058,9.841823,82.914108,93.239105

19.2603645,-0.544666,9.760623,1.221237,9.851793,82.879250,93.193932

19.2628803,-0.554238,9.753445,1.242772,9.847911,82.750137,93.252327

19.2653980,-0.568594,9.753445,1.216451,9.845443,82.902695,93.336380

19.2679138,-0.575773,9.717552,1.228415,9.811796,82.807823,93.390854

19.2704296,-0.568594,9.724730,1.206880,9.815816,82.937462,93.346214

19.2729473,-0.542273,9.727123,1.211666,9.817286,82.910385,93.190857

19.2754707,-0.554238,9.736694,1.240379,9.831019,82.751671,93.257904

19.2779865,-0.527916,9.765409,1.235594,9.857413,82.799225,93.094391

19.2805042,-0.530309,9.710373,1.223630,9.801522,82.828438,93.125969

19.2830219,-0.544666,9.705587,1.221237,9.797270,82.839417,93.212006

19.2855377,-0.537488,9.724730,1.218844,9.815541,82.866890,93.163528

19.2880554,-0.520738,9.698409,1.216451,9.788261,82.861023,93.073441

19.2905731,-0.544666,9.727123,1.242772,9.821307,82.730400,93.204910

19.2930889,-0.551845,9.741480,1.245165,9.836229,82.727432,93.242279

19.2955933,-0.556630,9.691231,1.242772,9.786433,82.704353,93.287254

19.2980957,-0.554238,9.715159,1.242772,9.809994,82.721970,93.265114

19.3006134,-0.501595,9.727123,1.237987,9.818408,82.756393,92.951935

19.3031311,-0.539881,9.722338,1.204487,9.811529,82.948441,93.178368

19.3056450,-0.535095,9.681660,1.221237,9.773038,82.821564,93.163460

19.3081627,-0.501595,9.693624,1.223630,9.783415,82.815094,92.962120

19.3106804,-0.523131,9.700802,1.214058,9.790462,82.876747,93.086777

19.3131943,-0.501595,9.734302,1.249951,9.827034,82.692459,92.949768

19.3156719,-0.475274,9.722338,1.257129,9.814791,82.641045,92.798660

19.3181877,-0.515952,9.758230,1.278665,9.855164,82.545105,93.026611

19.3207016,-0.482453,9.743873,1.264308,9.837392,82.615891,92.834595

19.3232174,-0.496810,9.705587,1.223630,9.795025,82.823654,92.930298

19.3257332,-0.494417,9.681660,1.235594,9.772700,82.736473,92.923409

19.3282471,-0.494417,9.691231,1.211666,9.779188,82.882622,92.920525

19.3307629,-0.508774,9.736694,1.233201,9.827658,82.791367,92.991173

19.3332767,-0.477667,9.705587,1.214058,9.792882,82.878517,92.817581

19.3358231,-0.470489,9.707980,1.228415,9.796696,82.796677,92.774620

19.3383694,-0.480060,9.715159,1.235594,9.805176,82.760658,92.828880

19.3409119,-0.501595,9.703195,1.226022,9.793197,82.808197,92.959206

19.3434563,-0.496810,9.705587,1.226022,9.795324,82.809769,92.930298

19.3459740,-0.477667,9.717552,1.261915,9.810781,82.609840,92.814117

19.3484917,-0.475274,9.722338,1.221237,9.810257,82.848946,92.798660

19.3510113,-0.477667,9.739087,1.233201,9.828467,82.791962,92.807899

19.3535271,-0.487238,9.748658,1.199701,9.834278,82.992928,92.861267

19.3560009,-0.477667,9.743873,1.223630,9.832013,82.850792,92.806526

19.3585186,-0.467797,9.717552,1.242772,9.807861,82.720375,92.756058

19.3610363,-0.489631,9.748658,1.233201,9.838539,82.799385,92.875290

19.3635521,-0.501595,9.775279,1.226022,9.864624,82.860550,92.937424

19.3660698,-0.472882,9.739087,1.254736,9.830961,82.667274,92.779816

19.3685875,-0.496810,9.722338,1.254736,9.815551,82.655701,92.925262

19.3711033,-0.489631,9.700802,1.226022,9.790221,82.806000,92.889458

19.3736210,-0.467797,9.727123,1.230808,9.815837,82.796722,92.753349

19.3761330,-0.484846,9.734302,1.271486,9.828957,82.567314,92.851433

19.3786507,-0.480060,9.748658,1.233201,9.838068,82.799034,92.819176

19.3811684,-0.489631,9.763016,1.216451,9.850683,82.906494,92.871071

19.3836842,-0.470489,9.727123,1.266701,9.820531,82.589058,92.769165

19.3862019,-0.515952,9.722338,1.252344,9.816233,82.670296,93.037766

19.3887177,-0.503988,9.717552,1.240379,9.809351,82.735580,92.968910

19.3912354,-0.475274,9.703195,1.271486,9.797681,82.543457,92.804176

19.3937531,-0.494417,9.688838,1.286142,9.786326,82.448204,92.921242

19.3962669,-0.482453,9.748658,1.233201,9.838184,82.799126,92.833206

19.3987846,-0.487238,9.727123,1.228415,9.816483,82.811272,92.867592

19.4013023,-0.496810,9.731909,1.254736,9.825031,82.662827,92.922386

19.4038181,-0.455833,9.703195,1.293321,9.799615,82.416168,92.689644

19.4063358,-0.460618,9.693624,1.235594,9.782904,82.744087,92.720512

19.4088516,-0.451047,9.724730,1.216451,9.810891,82.877571,92.655556

19.4113693,-0.463011,9.700802,1.254736,9.792563,82.638367,92.732605

19.4138870,-0.511167,9.686445,1.242772,9.779212,82.698936,93.020775

19.4164028,-0.487238,9.719945,1.249951,9.812090,82.681274,92.869705

19.4189205,-0.482453,9.686445,1.261915,9.780205,82.586601,92.851372

19.4214382,-0.492024,9.705587,1.283749,9.802475,82.474831,92.902122

19.4239540,-0.480060,9.693624,1.298106,9.791929,82.381927,92.835159

19.4264698,-0.465404,9.703195,1.261915,9.795969,82.598602,92.746033

19.4289856,-0.501595,9.748658,1.273879,9.844323,82.564941,92.945427

19.4315033,-0.511167,9.655338,1.266701,9.751481,82.536285,93.030487

19.4340210,-0.520738,9.660124,1.286142,9.759269,82.427147,93.085594

19.4365349,-0.496810,9.710373,1.276272,9.806479,82.521980,92.928856

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19.4415665,-0.470489,9.719945,1.281057,9.815284,82.500557,92.771210

19.4440842,-0.494417,9.717552,1.314856,9.818560,82.304092,92.912628

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19.4491177,-0.487238,9.724730,1.276272,9.820216,82.532501,92.868294

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19.4541531,-0.458226,9.715159,1.293321,9.811573,82.425468,92.700417

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19.4591846,-0.515952,9.660124,1.310070,9.762197,82.287735,93.057297

19.4617004,-0.527916,9.707980,1.319642,9.811475,82.270302,93.112656

19.4642162,-0.520738,9.715159,1.281057,9.813083,82.498863,93.068153

19.4667339,-0.484846,9.731909,1.278665,9.827518,82.524017,92.852127

19.4692497,-0.487238,9.703195,1.295713,9.801442,82.403481,92.874649

19.4717674,-0.518345,9.727123,1.271486,9.823558,82.563210,93.050331

19.4742832,-0.499203,9.746265,1.240379,9.837553,82.756516,92.932121

19.4767990,-0.542273,9.741480,1.249951,9.836304,82.699387,93.186165

19.4793167,-0.523131,9.724730,1.264308,9.820516,82.603127,93.079193

19.4818325,-0.530309,9.712767,1.271486,9.809981,82.552856,93.125198

19.4843483,-0.513560,9.700802,1.257129,9.795390,82.626389,93.030403

19.4868641,-0.484846,9.722338,1.266701,9.816489,82.585991,92.854935

19.4893818,-0.477667,9.736694,1.261915,9.829741,82.624176,92.808594

19.4918995,-0.511167,9.688838,1.273879,9.785583,82.520058,93.020027

19.4944153,-0.465404,9.724730,1.249951,9.815771,82.684029,92.739960

19.4969330,-0.463011,9.755837,1.271486,9.849235,82.582703,92.717216

19.4994507,-0.492024,9.734302,1.240379,9.825337,82.747459,92.893578

19.5019665,-0.487238,9.763016,1.257129,9.855671,82.671738,92.857063

19.5044842,-0.470489,9.743873,1.261915,9.836506,82.629272,92.764412

19.5070000,-0.451047,9.700802,1.214058,9.786876,82.874123,92.662102

19.5095158,-0.480060,9.729516,1.223630,9.817903,82.840469,92.824715

19.5120335,-0.467797,9.743873,1.218844,9.830944,82.878120,92.748619

19.5145493,-0.446261,9.739087,1.269093,9.831559,82.583359,92.623558

19.5170650,-0.463011,9.710373,1.218844,9.797515,82.853699,92.729919

19.5195808,-0.470489,9.722338,1.235594,9.811825,82.765587,92.770531

19.5220985,-0.460618,9.763016,1.226022,9.850471,82.850235,92.701210

19.5246162,-0.443869,9.763016,1.180559,9.844147,83.112228,92.603119

19.5271320,-0.455833,9.751051,1.204487,9.835730,82.965881,92.676460

19.5296497,-0.475274,9.686445,1.226022,9.775287,82.794952,92.809021

19.5321674,-0.492024,9.751051,1.204487,9.837473,82.967133,92.888611

19.5346813,-0.458226,9.770494,1.228415,9.858068,82.841759,92.685143

19.5371990,-0.470489,9.751051,1.216451,9.837892,82.897224,92.762383

19.5397148,-0.480060,9.760623,1.223630,9.848730,82.862991,92.815727

19.5422306,-0.494417,9.741480,1.199701,9.827520,82.988091,92.905487

19.5447483,-0.492024,9.743873,1.202094,9.830065,82.975861,92.890739

19.5472641,-0.477667,9.777672,1.187737,9.861123,83.082130,92.796837

19.5497818,-0.494417,9.736694,1.206880,9.823656,82.943130,92.906914

19.5522976,-0.492024,9.710373,1.194916,9.795981,82.993599,92.900696

19.5548153,-0.513560,9.715159,1.218844,9.804776,82.859016,93.025932

19.5573292,-0.515952,9.741480,1.206880,9.829506,82.947350,93.031807

19.5598450,-0.508774,9.751051,1.237987,9.842482,82.774200,92.986778

19.5623627,-0.511167,9.731909,1.206880,9.819771,82.940323,93.006691

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19.5673962,-0.513560,9.729516,1.273879,9.825985,82.550987,93.021477

19.5699120,-0.492024,9.751051,1.273879,9.846210,82.566376,92.888611

19.5724277,-0.501595,9.741480,1.257129,9.835060,82.656296,92.947594

19.5749454,-0.472882,9.743873,1.281057,9.839094,82.518806,92.778450

19.5774593,-0.465404,9.734302,1.271486,9.828016,82.566605,92.737267

19.5799751,-0.460618,9.715159,1.228415,9.803341,82.801582,92.714493

19.5824928,-0.465404,9.698409,1.257129,9.790613,82.622772,92.747383

19.5850086,-0.460618,9.731909,1.305285,9.829852,82.369278,92.709831

19.5875263,-0.436690,9.736694,1.307678,9.833816,82.358307,92.567993

19.5900402,-0.460618,9.731909,1.281057,9.826664,82.509293,92.709831

19.5925579,-0.451047,9.719945,1.322034,9.819804,82.262810,92.656860

19.5950756,-0.441476,9.691231,1.343570,9.793878,82.115036,92.608261

19.5975456,-0.424726,9.712767,1.317249,9.810881,82.283936,92.503868

19.6000233,-0.453440,9.700802,1.307678,9.799040,82.331024,92.676201

19.6025372,-0.448654,9.705587,1.273879,9.799107,82.530434,92.646690

19.6050529,-0.463011,9.688838,1.312463,9.788284,82.294281,92.735977

19.6075649,-0.465404,9.715159,1.331606,9.817031,82.204231,92.742653

19.6100807,-0.458226,9.717552,1.305285,9.815526,82.358078,92.699753

19.6125965,-0.443869,9.717552,1.312463,9.815825,82.316032,92.615280

19.6151104,-0.458226,9.700802,1.295713,9.797673,82.400536,92.704407

19.6176548,-0.460618,9.696016,1.283749,9.791471,82.466324,92.719841

19.6201992,-0.458226,9.667302,1.343570,9.770971,82.096428,92.713760

19.6227455,-0.482453,9.712767,1.350748,9.818102,82.092316,92.843658

19.6252747,-0.467797,9.686445,1.360320,9.792677,82.015114,92.764893

19.6277924,-0.494417,9.679267,1.310070,9.780027,82.301880,92.924126

19.6303082,-0.520738,9.693624,1.307678,9.795281,82.328064,93.074951

19.6328259,-0.506381,9.696016,1.293321,9.794991,82.412567,92.989594

19.6353436,-0.458226,9.693624,1.269093,9.787079,82.549461,92.706406

19.6378574,-0.451047,9.686445,1.257129,9.778090,82.613266,92.666039

19.6403751,-0.503988,9.657731,1.295713,9.757287,82.368896,92.987267

19.6428909,-0.535095,9.691231,1.288535,9.791149,82.437820,93.160339

19.6454086,-0.535095,9.700802,1.257129,9.796543,82.627258,93.157227

19.6479263,-0.566202,9.724730,1.281057,9.825074,82.508072,93.332161

19.6504421,-0.530309,9.703195,1.281057,9.801751,82.490143,93.128281

19.6529598,-0.532702,9.715159,1.266701,9.811862,82.582474,93.138504

19.6554775,-0.537488,9.698409,1.247558,9.793081,82.681099,93.172096

19.6579914,-0.554238,9.719945,1.257129,9.816562,82.642380,93.263512

19.6605091,-0.551845,9.734302,1.254736,9.830338,82.666809,93.244667

19.6630249,-0.554238,9.727123,1.237987,9.821239,82.758492,93.261108

19.6655426,-0.554238,9.703195,1.286142,9.803741,82.461700,93.269127

19.6680603,-0.563809,9.734302,1.273879,9.833477,82.556694,93.314857

19.6705742,-0.570987,9.748658,1.230808,9.842624,82.816429,93.352036

19.6730919,-0.594916,9.700802,1.261915,9.800608,82.602127,93.509354

19.6756077,-0.594916,9.705587,1.290928,9.809121,82.437660,93.507622

19.6781254,-0.590130,9.717552,1.290928,9.820671,82.446609,93.475204

19.6806431,-0.611665,9.734302,1.295713,9.839189,82.432793,93.595512

19.6831570,-0.602094,9.724730,1.288535,9.828185,82.466484,93.542870

19.6856747,-0.609272,9.710373,1.302892,9.816318,82.372787,93.590286

19.6881924,-0.621237,9.693624,1.307678,9.801137,82.332672,93.666908

19.6907082,-0.623629,9.731909,1.266701,9.833794,82.599113,93.666550

19.6932259,-0.635594,9.729516,1.302892,9.836920,82.388855,93.737610

19.6957417,-0.606880,9.700802,1.305285,9.807019,82.351410,93.579742

19.6982574,-0.616451,9.731909,1.312463,9.839340,82.334503,93.624458

19.7007751,-0.614058,9.722338,1.293321,9.827187,82.437569,93.613976

19.7032909,-0.621237,9.741480,1.319642,9.850067,82.300774,93.648941

19.7058086,-0.623629,9.719945,1.312463,9.827960,82.325577,93.671051

19.7083225,-0.621237,9.715159,1.305285,9.822119,82.363235,93.658798

19.7108402,-0.614058,9.672089,1.278665,9.775549,82.484039,93.632698

19.7133579,-0.616451,9.731909,1.307678,9.838703,82.362129,93.624458

19.7158737,-0.604487,9.746265,1.293321,9.850267,82.455391,93.549072

19.7183895,-0.621237,9.715159,1.300499,9.821485,82.390907,93.658798

19.7209053,-0.642772,9.734302,1.307678,9.842754,82.365288,93.777847

19.7234211,-0.633201,9.731909,1.305285,9.839449,82.376770,93.722664

19.7259388,-0.630808,9.719945,1.283749,9.824625,82.491890,93.713188

19.7284546,-0.630808,9.705587,1.269093,9.808514,82.565834,93.718666

19.7309723,-0.640379,9.727123,1.302892,9.834864,82.387253,93.766594

19.7334900,-0.640379,9.724730,1.324427,9.835374,82.261063,93.767525

19.7360058,-0.628415,9.698409,1.326820,9.808899,82.225945,93.707336

19.7385216,-0.609272,9.729516,1.322034,9.837809,82.277054,93.583244

19.7410374,-0.621237,9.746265,1.264308,9.847543,82.623543,93.647156

19.7435551,-0.640379,9.741480,1.305285,9.849380,82.384499,93.761063

19.7460709,-0.652343,9.707980,1.314856,9.818314,82.303902,93.844299

19.7485867,-0.626022,9.693624,1.283749,9.798278,82.471588,93.695076

19.7511044,-0.616451,9.719945,1.288535,9.824341,82.463524,93.628906

19.7536201,-0.623629,9.681660,1.288535,9.786919,82.434532,93.685532

19.7561378,-0.635594,9.712767,1.269093,9.815927,82.571480,93.744041

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19.7611675,-0.630808,9.684052,1.249951,9.784741,82.660706,93.726913

19.7636852,-0.649950,9.722338,1.254736,9.824492,82.662422,93.824600

19.7662010,-0.621237,9.705587,1.259522,9.806669,82.620819,93.662399

19.7687187,-0.611665,9.705587,1.261915,9.806376,82.606499,93.606125

19.7712364,-0.592523,9.696016,1.252344,9.794497,82.653938,93.496994

19.7737503,-0.585344,9.712767,1.233201,9.808224,82.777008,93.448784

19.7762680,-0.559023,9.681660,1.223630,9.774677,82.808640,93.304611

19.7787838,-0.582951,9.676874,1.228415,9.771935,82.778328,93.447426

19.7813015,-0.573380,9.664909,1.221237,9.758619,82.810905,93.395149

19.7838192,-0.539881,9.691231,1.252344,9.786716,82.648064,93.188545

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19.7964020,-0.530309,9.710373,1.245165,9.804235,82.703568,93.125969

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19.8014355,-0.559023,9.746265,1.247558,9.841677,82.717438,93.282753

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19.8215656,-0.535095,9.717552,1.278665,9.815912,82.515121,93.151794

19.8240833,-0.549452,9.705587,1.293321,9.806783,82.421745,93.240166

19.8265972,-0.551845,9.707980,1.264308,9.805503,82.591736,93.253448

19.8291149,-0.535095,9.703195,1.281057,9.802011,82.490341,93.156448

19.8316307,-0.544666,9.698409,1.278665,9.797488,82.500969,93.214378

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19.8366642,-0.530309,9.717552,1.307678,9.819474,82.347076,93.123665

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19.8467293,-0.580559,9.727123,1.283749,9.828631,82.494972,93.415619

19.8492470,-0.537488,9.734302,1.312463,9.837077,82.332733,93.160423

19.8517609,-0.527916,9.707980,1.324427,9.812119,82.242607,93.112656

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19.8618298,-0.520738,9.717552,1.314856,9.819921,82.305168,93.067398

19.8643436,-0.551845,9.731909,1.293321,9.832968,82.442039,93.245461

19.8668613,-0.544666,9.768100,1.247558,9.862496,82.732895,93.191490

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19.8718948,-0.494417,9.736694,1.312463,9.837186,82.332817,92.906914

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19.8819637,-0.508774,9.741480,1.312463,9.842654,82.337105,92.989700

19.8844776,-0.506381,9.741480,1.269093,9.836842,82.587364,92.975670

19.8869953,-0.547059,9.787243,1.259522,9.883106,82.678207,93.199226

19.8895111,-0.525524,9.748658,1.302892,9.849367,82.398529,93.085670

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19.9121590,-0.492024,9.696016,1.257129,9.789545,82.621964,92.904984

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19.9197083,-0.496810,9.724730,1.300499,9.823874,82.392769,92.924545

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19.9599705,-0.458226,9.722338,1.276272,9.816450,82.529625,92.698425

19.9624863,-0.427119,9.719945,1.257129,9.810206,82.637589,92.516106

19.9650040,-0.431904,9.724730,1.290928,9.819543,82.445732,92.543007

19.9675198,-0.424726,9.724730,1.261915,9.815457,82.613380,92.500793

19.9700375,-0.434297,9.705587,1.264308,9.797219,82.585442,92.562111

19.9725513,-0.467797,9.712767,1.264308,9.805873,82.592018,92.757408

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19.9775867,-0.472882,9.715159,1.276272,9.810036,82.524712,92.786652

19.9801006,-0.446261,9.724730,1.271486,9.817648,82.558708,92.627419

19.9826183,-0.429512,9.719945,1.271486,9.812160,82.554520,92.530182

19.9851322,-0.465404,9.712767,1.233201,9.801797,82.772247,92.743332

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19.9901676,-0.446261,9.743873,1.264308,9.835684,82.614601,92.622269

19.9926815,-0.453440,9.717552,1.302892,9.814986,82.371750,92.671593

19.9951992,-0.410369,9.748658,1.281057,9.841029,82.520287,92.410439

19.9977150,-0.439083,9.751051,1.264308,9.842472,82.619720,92.578247

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20.0052624,-0.403191,9.748658,1.237987,9.835217,82.768837,92.368324

20.0077801,-0.398405,9.715159,1.228415,9.800615,82.799576,92.348305

20.0102940,-0.396012,9.734302,1.264308,9.824048,82.605804,92.329628

20.0128117,-0.396012,9.743873,1.259522,9.832918,82.640625,92.327347

20.0153294,-0.417548,9.743873,1.259522,9.833809,82.641296,92.453758

20.0178432,-0.374477,9.729516,1.266701,9.818770,82.587723,92.204155

20.0203629,-0.379262,9.758230,1.204487,9.839598,82.968658,92.225731

20.0228806,-0.362513,9.772886,1.226022,9.856158,82.854385,92.124336

20.0253944,-0.376870,9.736694,1.273879,9.826902,82.551682,92.216591

20.0279121,-0.352941,9.760623,1.266701,9.848800,82.610451,92.070900

20.0304279,-0.350549,9.775279,1.259522,9.862321,82.662689,92.053787

20.0329456,-0.357727,9.780065,1.252344,9.866407,82.707771,92.094780

20.0354614,-0.384048,9.736694,1.252344,9.824412,82.676430,92.258766

20.0379772,-0.336192,9.758230,1.269093,9.846150,82.594414,91.973183

20.0404949,-0.367298,9.758230,1.264308,9.846646,82.622864,92.155586

20.0430107,-0.355334,9.731909,1.257129,9.819200,82.644363,92.091072

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20.0732098,-0.372084,9.703195,1.293321,9.796076,82.413414,92.196022

20.0757256,-0.336192,9.705587,1.273879,9.794601,82.526985,91.983871

20.0782433,-0.357727,9.705587,1.302892,9.799179,82.359367,92.110840

20.0807590,-0.340977,9.698409,1.310070,9.792430,82.311691,92.013580

20.0832729,-0.352941,9.660124,1.288535,9.752070,82.407341,92.092422

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20.0958557,-0.391227,9.696016,1.314856,9.792581,82.283554,92.310585

20.0983715,-0.364905,9.696016,1.295713,9.789012,82.393776,92.155289

20.1008816,-0.362513,9.664909,1.293321,9.757795,82.383476,92.148048

20.1033897,-0.384048,9.686445,1.307678,9.781857,82.317474,92.270470

20.1059074,-0.405583,9.669696,1.302892,9.765503,82.332863,92.401794

20.1083984,-0.391227,9.652946,1.302892,9.748330,82.319275,92.320885

20.1109142,-0.369691,9.698409,1.281057,9.789633,82.480789,92.182983

20.1134300,-0.393619,9.657731,1.322034,9.755741,82.211685,92.333908

20.1159477,-0.384048,9.681660,1.319642,9.778726,82.244255,92.271591

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20.1234951,-0.446261,9.681660,1.319642,9.781367,82.246361,92.639091

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20.1361084,-0.453440,9.681660,1.329213,9.782992,82.191078,92.681488

20.1386242,-0.475274,9.712767,1.345963,9.817094,82.119698,92.801414

20.1411419,-0.477667,9.712767,1.319642,9.813636,82.272011,92.815498

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20.1562500,-0.467797,9.722338,1.338784,9.825224,82.168518,92.754700

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20.1612835,-0.472882,9.712767,1.314856,9.812762,82.299522,92.787338

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20.1839294,-0.441476,9.731909,1.286142,9.826449,82.479218,92.597366

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20.2116051,-0.448654,9.719945,1.317249,9.819052,82.290390,92.642792

20.2141228,-0.431904,9.655338,1.290928,9.750825,82.392181,92.561256

20.2166386,-0.427119,9.681660,1.271486,9.774132,82.525391,92.526039

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20.4582119,-0.422333,9.696016,1.240379,9.784153,82.716766,92.494080

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20.4632454,-0.419940,9.691231,1.276272,9.783924,82.504646,92.481186

20.4657612,-0.400798,9.703195,1.295713,9.797524,82.400421,92.365303

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20.4707870,-0.410369,9.705587,1.300499,9.800925,82.374847,92.421120

20.4733047,-0.400798,9.676874,1.338784,9.777263,82.129860,92.371727

20.4758224,-0.388834,9.705587,1.317249,9.802283,82.277122,92.294205

20.4783363,-0.396012,9.731909,1.300499,9.826402,82.394737,92.330200

20.4808540,-0.407976,9.724730,1.273879,9.816292,82.543587,92.402290

20.4833698,-0.374477,9.719945,1.302892,9.814025,82.370995,92.206322

20.4858856,-0.407976,9.722338,1.326820,9.820934,82.235527,92.402878

20.4884014,-0.436690,9.743873,1.307678,9.840923,82.363861,92.566101

20.4909039,-0.407976,9.669696,1.314856,9.767206,82.263382,92.415947

20.4934177,-0.407976,9.669696,1.302892,9.765602,82.332939,92.415947

20.4959354,-0.427119,9.729516,1.290928,9.824073,82.449234,92.513634

20.4984493,-0.431904,9.746265,1.273879,9.838648,82.560623,92.537392

20.5009670,-0.422333,9.712767,1.273879,9.805048,82.534988,92.489784

20.5034809,-0.448654,9.712767,1.305285,9.810347,82.354019,92.644737

20.5059967,-0.448654,9.746265,1.293321,9.841934,82.448967,92.635658

20.5085144,-0.424726,9.763016,1.286142,9.856522,82.502296,92.490997

20.5110512,-0.441476,9.746265,1.278665,9.839694,82.533318,92.593552

20.5135689,-0.439083,9.722338,1.283749,9.816550,82.485680,92.585854

20.5160828,-0.448654,9.734302,1.286142,9.829144,82.481293,92.638893

20.5186005,-0.439083,9.758230,1.293321,9.853352,82.457771,92.576355

20.5211163,-0.431904,9.765409,1.290928,9.859830,82.476776,92.532425

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20.5286655,-0.436690,9.739087,1.283749,9.833033,82.498344,92.567360

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20.5513058,-0.446261,9.679267,1.302892,9.776752,82.341736,92.639748

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20.5638905,-0.415155,9.751051,1.273879,9.842668,82.563683,92.437920

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20.5714378,-0.467797,9.712767,1.271486,9.806801,82.550430,92.757408

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20.5764732,-0.419940,9.700802,1.293321,9.795641,82.413071,92.478745

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20.5840206,-0.441476,9.727123,1.271486,9.819801,82.560349,92.598648

20.5865364,-0.443869,9.712767,1.266701,9.805070,82.577309,92.616570

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20.6016331,-0.518345,9.719945,1.261915,9.815215,82.613197,93.052574

20.6041489,-0.484846,9.710373,1.302892,9.809381,82.367363,92.858444

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20.6091805,-0.489631,9.731909,1.264308,9.825897,82.607201,92.880234

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20.6142178,-0.460618,9.688838,1.233201,9.777859,82.754456,92.721855

20.6167336,-0.448654,9.705587,1.271486,9.798796,82.544312,92.646690

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20.6343441,-0.477667,9.712767,1.257129,9.805426,82.633980,92.815498

20.6368618,-0.458226,9.755837,1.293321,9.851853,82.456612,92.689171

20.6393776,-0.455833,9.727123,1.266701,9.819839,82.588539,92.683037

20.6418934,-0.429512,9.736694,1.259522,9.827211,82.636330,92.525833

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20.7375164,-0.532702,9.681660,1.312463,9.784726,82.291458,93.149338

20.7400322,-0.499203,9.693624,1.324427,9.796410,82.230095,92.948013

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20.9564285,-0.480060,9.731909,1.230808,9.821171,82.800652,92.824020

20.9589596,-0.463011,9.741480,1.237987,9.830738,82.765526,92.721214

20.9614735,-0.427119,9.734302,1.252344,9.823819,82.675987,92.512398

20.9639912,-0.446261,9.705587,1.264308,9.797757,82.585846,92.632599

20.9665089,-0.467797,9.719945,1.266701,9.813292,82.583565,92.755379

20.9690247,-0.458226,9.736694,1.271486,9.830049,82.568146,92.694450

20.9715424,-0.463011,9.679267,1.286142,9.775313,82.439651,92.738678

20.9740582,-0.439083,9.707980,1.298106,9.804221,82.391541,92.589668

20.9765759,-0.429512,9.712767,1.353141,9.815972,82.076492,92.532043

20.9790916,-0.424726,9.693624,1.348356,9.796162,82.088623,92.508812

20.9816074,-0.417548,9.679267,1.264308,9.770416,82.564987,92.470116

20.9841251,-0.448654,9.693624,1.336391,9.795589,82.158806,92.649956

20.9866409,-0.484846,9.650553,1.271486,9.746021,82.503708,92.876137

20.9891586,-0.441476,9.643374,1.247558,9.733754,82.636246,92.621185

20.9916763,-0.453440,9.624231,1.276272,9.719069,82.454338,92.697464

20.9941921,-0.501595,9.696016,1.298106,9.795377,82.384628,92.961395

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20.9992256,-0.364905,9.782457,1.357927,9.882995,82.102554,92.136261

21.0017414,-0.523131,9.707980,1.264308,9.803928,82.590546,93.084496

21.0042591,-0.501595,9.617053,1.254736,9.711522,82.576591,92.985664

21.0067749,-0.455833,9.650553,1.331606,9.752647,82.152443,92.704292

21.0092907,-0.467797,9.657731,1.338784,9.761298,82.116905,92.773102

21.0118084,-0.515952,9.693624,1.333999,9.798576,82.175331,93.046745

21.0143242,-0.532702,9.698409,1.333999,9.804207,82.179855,93.143913

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21.0269146,-0.484846,9.780065,1.257129,9.872442,82.684250,92.838112

21.0294285,-0.513560,9.777672,1.269093,9.873055,82.614700,93.006622

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21.0344620,-0.487238,9.772886,1.281057,9.868526,82.541245,92.854187

21.0369797,-0.537488,9.780065,1.269093,9.876698,82.617447,93.145668

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21.0420094,-0.501595,9.741480,1.252344,9.834449,82.683945,92.947594

21.0445271,-0.503988,9.755837,1.281057,9.852486,82.529030,92.957283

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21.0495586,-0.477667,9.715159,1.293321,9.812500,82.426186,92.814804

21.0520763,-0.460618,9.722338,1.329213,9.823585,82.223549,92.712494

21.0545921,-0.484846,9.712767,1.293321,9.810484,82.424622,92.857742

21.0571098,-0.503988,9.734302,1.278665,9.830851,82.526566,92.963814

21.0596237,-0.494417,9.729516,1.269093,9.824384,82.577911,92.909050

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21.0722065,-0.513560,9.758230,1.276272,9.854729,82.558807,93.012604

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21.0772419,-0.527916,9.751051,1.310070,9.852816,82.359093,93.098938

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21.0898247,-0.547059,9.712767,1.242772,9.807221,82.719902,93.223701

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21.1049232,-0.506381,9.679267,1.302892,9.779681,82.344040,92.994759

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21.1099567,-0.443869,9.650553,1.249951,9.741282,82.627777,92.633415

21.1124725,-0.477667,9.676874,1.286142,9.773649,82.438354,92.825928

21.1149902,-0.506381,9.717552,1.245165,9.810081,82.707939,92.982979

21.1175079,-0.496810,9.731909,1.257129,9.825337,82.648987,92.922386

21.1200256,-0.499203,9.743873,1.283749,9.840746,82.504265,92.932838

21.1225433,-0.489631,9.746265,1.281057,9.842283,82.521248,92.875999

21.1250591,-0.475274,9.727123,1.302892,9.825494,82.379951,92.797287

21.1275749,-0.484846,9.729516,1.293321,9.827066,82.437477,92.852829

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21.1376438,-0.511167,9.715159,1.264308,9.810407,82.595467,93.011864

21.1401539,-0.508774,9.729516,1.310070,9.830494,82.341637,92.993370

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21.1451874,-0.532702,9.760623,1.228415,9.852032,82.837349,93.123909

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21.1527367,-0.523131,9.753445,1.286142,9.851777,82.498665,93.070145

21.1552544,-0.539881,9.719945,1.307678,9.822364,82.349342,93.179146

21.1577682,-0.494417,9.775279,1.305285,9.874426,82.403931,92.895454

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21.1804180,-0.506381,9.784850,1.341177,9.889311,82.205589,92.962502

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21.1879692,-0.628415,9.195318,1.032204,9.274385,83.609955,93.909561

21.1904831,-0.451047,10.323833,0.097807,10.334145,89.457718,92.501656

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