Keuwl Accelerometer Data File

2024-04-22 15:56:04

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

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3.7334313,-1.083350,9.660423,-0.401396,9.729262,92.364502,96.398598

3.7357795,-1.140778,9.636495,-0.425324,9.713099,92.509712,96.751312

3.7381275,-1.198206,9.626924,-0.391825,9.709113,92.312881,97.094780

3.7404757,-1.222134,9.646067,-0.315254,9.728289,91.857048,97.220772

3.7428236,-1.289133,9.660423,-0.214756,9.748424,91.262314,97.600914

3.7451715,-1.303490,9.679565,-0.095115,9.767401,90.557953,97.669548

3.7475200,-1.336990,9.698709,-0.008973,9.790433,90.052513,97.848885

3.7498679,-1.384846,9.693923,0.072383,9.792609,89.576492,98.130104

3.7522159,-1.423131,9.655638,0.163310,9.761317,89.041374,98.384384

3.7545640,-1.408774,9.669994,0.225524,9.774676,88.677940,98.288834

3.7569120,-1.394417,9.631709,0.220738,9.734626,88.700676,98.237686

3.7592599,-1.365704,9.622138,0.144168,9.719644,89.150124,98.078232

3.7616084,-1.322633,9.650852,0.129811,9.741928,89.236511,97.803673

3.7639563,-1.279562,9.598209,0.105882,9.683703,89.373512,97.593475

3.7663045,-1.360918,9.574282,0.120239,9.671268,89.287643,98.090004

3.7686524,-1.399203,9.583853,0.091525,9.685885,89.458580,98.306267

3.7710004,-1.380060,9.579067,-0.066401,9.678197,90.393105,98.198219

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3.7827408,-0.901496,9.574282,-0.454038,9.627342,92.703148,95.379005

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3.8226583,-1.102493,9.569496,-0.506680,9.646111,93.010956,96.572021

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3.8320503,-1.202992,9.464211,-0.171685,9.541905,91.030960,97.243996

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3.8555312,-0.379861,9.191430,0.263809,9.203058,88.357376,92.366554

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3.8602271,-0.336790,9.186645,0.440878,9.203382,87.254257,92.099571

3.8625753,-0.427717,9.248857,0.321236,9.264314,88.012894,92.647781

3.8649235,-0.413360,9.282357,0.168096,9.293077,88.963562,92.549797

3.8672717,-0.279362,9.277572,0.014955,9.281789,89.907684,91.724747

3.8696196,-0.188435,9.234501,-0.080758,9.236776,90.500946,91.168991

3.8719676,-0.092722,9.215358,-0.262612,9.219565,91.632248,90.576469

3.8743157,-0.078365,9.248857,-0.415753,9.258529,92.573723,90.485451

3.8766637,-0.250648,9.296714,-0.544965,9.316046,93.353577,91.544373

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3.8813601,-0.710070,9.473783,-0.745962,9.529597,94.489616,94.286362

3.8837080,-0.920639,9.497711,-0.793819,9.575189,94.755493,95.536537

3.8860562,-1.054637,9.535996,-0.812962,9.628520,94.843399,96.310997

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3.9024925,-0.753141,9.497711,0.192024,9.529460,88.845383,94.533905

3.9048407,-0.676571,9.468997,0.239880,9.496167,88.552513,94.086906

3.9071887,-0.604786,9.454640,0.172881,9.475541,88.954582,93.660057

3.9095366,-0.480359,9.445069,0.125025,9.458103,89.242592,92.911453

3.9118850,-0.442074,9.468997,0.081954,9.479665,89.504654,92.672997

3.9142330,-0.384646,9.483355,0.125025,9.491975,89.245300,92.322655

3.9165809,-0.351147,9.483355,0.211167,9.492203,88.725273,92.120560

3.9189291,-0.308076,9.492926,0.268594,9.501720,88.380150,91.858780

3.9212770,-0.293719,9.512068,0.321236,9.522022,88.066696,91.768646

3.9236255,-0.308076,9.602996,0.412164,9.616773,87.543617,91.837486

3.9259734,-0.346361,9.622138,0.503091,9.641504,87.008965,92.061546

3.9283214,-0.418146,9.679565,0.665803,9.711443,86.068794,92.473572

3.9306695,-0.446860,9.660423,0.756730,9.700315,85.525757,92.648430

3.9330175,-0.485145,9.708280,0.814158,9.754431,85.212212,92.860817

3.9353654,-0.547358,9.780065,0.866800,9.833647,84.943024,93.203316

3.9377136,-0.619143,9.775279,0.914656,9.837481,84.665123,93.624138

3.9400616,-0.681356,9.780065,0.948156,9.849513,84.475914,93.985237

3.9424098,-0.757927,9.818350,0.962513,9.894487,84.417572,94.414185

3.9447579,-0.844068,9.856635,0.818944,9.926549,85.267700,94.894554

3.9471059,-0.882353,9.861421,0.651446,9.922225,86.235527,95.112938

3.9494541,-1.011566,9.942777,0.215952,9.996435,88.762146,95.809212

3.9518020,-1.107279,10.038489,-0.391825,10.106971,92.221786,96.294472

3.9541500,-1.250848,10.095917,-0.932603,10.215768,95.237854,97.062752

3.9564984,-1.427917,10.153345,-1.449452,10.355206,98.046303,98.005295

3.9588463,-1.758126,10.143773,-1.741377,10.441242,99.600578,99.832863

3.9611943,-2.088336,10.105488,-1.750948,10.466511,99.630318,101.676025

3.9635425,-2.404189,10.048060,-1.597807,10.454502,98.791222,103.456123

3.9658904,-2.662613,9.918848,-1.497309,10.378583,98.294960,105.026222

3.9682386,-2.844468,9.799207,-1.396810,10.298861,97.794914,106.186707

3.9705868,-2.854039,9.717851,-1.286740,10.209695,97.240311,106.367004

3.9729347,-2.782254,9.583853,-1.138385,10.044257,96.507713,106.188354

3.9752829,-2.605186,9.454640,-1.033101,9.861263,96.013542,105.405319

3.9776309,-2.313261,9.416355,-0.956531,9.743402,95.633926,103.802193

3.9799788,-2.021337,9.368499,-0.956531,9.631693,95.699486,102.175438

3.9823270,-1.657628,9.354142,-1.018744,9.554347,96.120872,100.048943

3.9846752,-1.380060,9.320642,-1.119243,9.488501,96.774254,98.422302

3.9870234,-1.083350,9.401999,-1.191028,9.538856,97.172707,96.572952

3.9893713,-0.829711,9.507282,-1.258026,9.625978,97.509514,94.987633

3.9917192,-0.662214,9.569496,-1.258026,9.674524,97.471611,93.958588

3.9940674,-0.571286,9.622138,-1.191028,9.712387,97.043900,93.397781

3.9964154,-0.513859,9.689137,-1.090529,9.763846,96.412773,93.035812

3.9987633,-0.509073,9.727423,-0.975673,9.789476,95.719910,92.995773

4.0011115,-0.537787,9.732208,-0.865604,9.785416,95.074936,93.162857

4.0034599,-0.600000,9.784850,-0.765105,9.833040,94.462677,93.508942

4.0058079,-0.681356,9.760921,-0.678963,9.808202,93.969421,93.993027

4.0081558,-0.777069,9.746565,-0.611964,9.796625,93.581421,94.558403

4.0105038,-0.858425,9.736994,-0.535394,9.789412,93.135132,95.038239

4.0128517,-0.944567,9.674780,-0.454038,9.731379,92.674225,95.576218

4.0152001,-1.059422,9.650852,-0.430110,9.718349,92.536598,96.264557

4.0175481,-1.140778,9.626924,-0.406182,9.702785,92.399239,96.757965

4.0198960,-1.198206,9.617352,-0.410967,9.700416,92.428116,97.101768

4.0222445,-1.293919,9.593424,-0.482752,9.692320,92.854950,97.681450

4.0245924,-1.332204,9.588638,-0.530608,9.695272,93.137283,97.909790

4.0269403,-1.346561,9.593424,-0.583251,9.705009,93.445435,97.990005

4.0292888,-1.370489,9.598209,-0.611964,9.714853,93.611603,98.126106

4.0316367,-1.423131,9.602996,-0.616750,9.727446,93.635170,98.429688

4.0339847,-1.432703,9.593424,-0.659821,9.722231,93.891495,98.493896

4.0363326,-1.427917,9.593424,-0.655035,9.721204,93.863640,98.465942

4.0386806,-1.437488,9.550353,-0.588036,9.675816,93.484230,98.559723

4.0410290,-1.408774,9.550353,-0.549751,9.669338,93.259315,98.391197

4.0433769,-1.375275,9.545568,-0.530608,9.658715,93.149170,98.198456

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4.0504212,-1.279562,9.497711,-0.449252,9.594041,92.683922,97.672874

4.0527692,-1.260419,9.526425,-0.487538,9.621804,92.904427,97.536896

4.0551171,-1.279562,9.612567,-0.549751,9.712927,93.244675,97.582268

4.0574651,-1.289133,9.641280,-0.655035,9.749114,93.852562,97.615829

4.0598135,-1.308276,9.641280,-0.731606,9.757106,94.300179,97.727562

4.0621614,-1.360918,9.655638,-0.779462,9.782177,94.570282,98.022728

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4.0668578,-1.523630,9.698709,-0.688535,9.841772,94.011719,98.927979

4.0692058,-1.552344,9.660423,-0.621536,9.804073,93.634743,99.128883

4.0715537,-1.604986,9.646067,-0.578465,9.795775,93.385429,99.446762

4.0739021,-1.628914,9.650852,-0.564108,9.803597,93.298676,99.580345

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4.0856423,-1.432703,9.660423,-0.611964,9.785239,93.585594,98.435844

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4.1067748,-1.102493,9.674780,-0.817747,9.771671,94.800438,96.501114

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4.1161671,-1.193420,9.641280,-0.832104,9.750433,94.895592,97.056313

4.1185155,-1.250848,9.631709,-0.856032,9.750242,95.036827,97.399460

4.1208634,-1.246062,9.646067,-0.822533,9.760934,94.833923,97.360611

4.1232114,-1.246062,9.636495,-0.851247,9.753939,95.006691,97.367844

4.1255593,-1.265205,9.626924,-0.870389,9.748640,95.122368,97.487106

4.1279073,-1.284348,9.655638,-0.851247,9.777807,94.994438,97.576736

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4.1373000,-1.418346,9.607781,-0.650250,9.733652,93.830452,98.397621

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4.1443439,-1.442274,9.574282,-0.458824,9.693170,92.713097,98.566650

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4.1537361,-1.380060,9.564711,-0.367896,9.670760,92.180183,98.210358

4.1560845,-1.346561,9.588638,-0.348754,9.689006,92.062798,97.993942

4.1584325,-1.322633,9.607781,-0.420539,9.707506,92.482887,97.838226

4.1607809,-1.308276,9.646067,-0.501895,9.747312,92.951500,97.723778

4.1631289,-1.293919,9.646067,-0.602393,9.751087,93.541817,97.640022

4.1654768,-1.313061,9.722636,-0.798605,9.843350,94.653603,97.691376

4.1678247,-1.365704,9.789636,-0.999602,9.934854,95.774620,97.941795

4.1701727,-1.346561,9.851849,-1.162314,10.011149,96.667183,97.783020

4.1725206,-1.408774,9.899706,-1.162314,10.066767,96.630188,98.099075

4.1748691,-1.413560,9.837492,-1.028316,9.991588,95.907234,98.176926

4.1772170,-1.461416,9.746565,-0.903889,9.896882,95.240166,98.527496

4.1795654,-1.480559,9.784850,-0.946960,9.941433,95.465927,98.604233

4.1819134,-1.490130,9.870992,-1.191028,10.053632,96.803658,98.584579

4.1842613,-1.490130,9.894919,-1.468595,10.113688,98.349358,98.564133

4.1866093,-1.490130,9.904491,-1.492523,10.126553,98.475533,98.555977

4.1889572,-1.528415,9.870992,-1.353739,10.079938,97.718163,98.801727

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4.1936536,-1.552344,9.727423,-0.846461,9.886810,94.911400,99.067047

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4.2077422,-1.403989,9.564711,-1.009173,9.719738,95.959602,98.350723

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4.6609201,-1.250848,9.531211,-0.410967,9.621719,92.447990,97.476601

4.6632681,-1.169492,9.588638,-0.444467,9.669914,92.634468,96.953819

4.6656160,-1.073779,9.593424,-0.454038,9.664002,92.692886,96.386459

4.6679645,-1.054637,9.555139,-0.468395,9.624569,92.789490,96.298454

4.6703124,-0.987638,9.583853,-0.477966,9.646456,92.840073,95.883690

4.6726604,-0.901496,9.612567,-0.497109,9.667537,92.947472,95.357704

4.6750083,-0.882353,9.607781,-0.511466,9.661760,93.034492,95.247177

4.6773562,-0.858425,9.602996,-0.583251,9.658913,93.461891,95.108170

4.6797047,-0.844068,9.607781,-0.559322,9.660992,93.318993,95.020691

4.6820531,-0.872782,9.598209,-0.583251,9.655441,93.463142,95.195717

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4.6867490,-0.915853,9.602996,-0.602393,9.665360,93.573273,95.447914

4.6890969,-0.930210,9.602996,-0.616750,9.667637,93.657684,95.532784

4.6914454,-0.944567,9.593424,-0.607179,9.658916,93.604103,95.623207

4.6937933,-0.992423,9.631709,-0.588036,9.700541,93.475342,95.882828

4.6961412,-1.054637,9.622138,-0.588036,9.697607,93.476395,96.254951

4.6984892,-1.054637,9.598209,-0.597607,9.674452,93.541512,96.270416

4.7008371,-1.112064,9.583853,-0.607179,9.667243,93.600998,96.618729

4.7031851,-1.116850,9.583853,-0.588036,9.666612,93.487549,96.646957

4.7055335,-1.126421,9.579067,-0.544965,9.660453,93.233887,96.706726

4.7078815,-1.097707,9.622138,-0.506680,9.697795,92.994896,96.508247

4.7102294,-1.064208,9.564711,-0.511466,9.637314,93.042198,96.348846

4.7125778,-1.107279,9.574282,-0.487538,9.650421,92.895805,96.597031

4.7149258,-1.097707,9.588638,-0.492323,9.663815,92.920197,96.530792

4.7172742,-1.102493,9.607781,-0.525823,9.685115,93.112221,96.546059

4.7196221,-1.102493,9.588638,-0.559322,9.668005,93.316582,96.559013

4.7219701,-1.097707,9.607781,-0.592822,9.688440,93.508041,96.517891

4.7243180,-1.078565,9.660423,-0.688535,9.744802,94.051704,96.370560

4.7266660,-1.064208,9.708280,-0.808176,9.799815,94.730469,96.255707

4.7290139,-1.107279,9.736994,-0.913460,9.842232,95.325302,96.487732

4.7313623,-1.155135,9.765707,-0.903889,9.875241,95.251678,96.745880

4.7337103,-1.222134,9.717851,-0.745962,9.822764,94.355362,97.167984

4.7360582,-1.346561,9.684352,-0.583251,9.794901,93.413773,97.915939

4.7384062,-1.375275,9.631709,-0.458824,9.740211,92.699982,98.126114

4.7407541,-1.389632,9.579067,-0.444467,9.689538,92.629128,98.254295

4.7431030,-1.403989,9.564711,-0.468395,9.678547,92.773926,98.350723

4.7454510,-1.394417,9.521640,-0.497109,9.636033,92.957115,98.331581

4.7477989,-1.317847,9.507282,-0.506680,9.611547,93.021790,97.891739

4.7501469,-1.265205,9.488140,-0.511466,9.585778,93.058571,97.595352

4.7524948,-1.193420,9.492926,-0.501895,9.580804,93.002838,97.165451

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4.7618871,-1.016351,9.526425,-0.516252,9.594387,93.084442,96.089714

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4.7924118,-1.317847,9.540782,-0.683749,9.655607,94.060722,97.864372

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4.8111968,-1.485345,9.435498,-0.018544,9.551713,90.111237,98.946136

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4.8933792,-1.370489,9.607781,-0.655035,9.727116,93.861290,98.118118

4.8957276,-1.289133,9.598209,-0.664607,9.707172,93.925858,97.649605

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13.0693760,-0.896710,9.598209,-0.090329,9.640429,90.536858,95.337349

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13.1468620,-1.222134,9.674780,-0.291326,9.756016,91.711174,97.199562

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13.1515579,-1.279562,9.650852,-0.205185,9.737470,91.207405,97.552536

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13.2196531,-1.025923,9.598209,-0.119043,9.653617,90.706558,96.101006

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13.9757347,-1.494916,9.622138,0.072383,9.737842,89.574104,98.830994

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16.3003349,-1.198206,9.617352,-0.080758,9.692042,90.477417,97.101768

16.3026829,-1.174278,9.617352,-0.075972,9.689075,90.449265,96.961349

16.3050308,-1.164706,9.579067,-0.080758,9.649953,90.479500,96.932487

16.3073788,-1.140778,9.588638,-0.119043,9.656994,90.706306,96.784691

16.3097267,-1.174278,9.569496,-0.133400,9.642198,90.792709,96.995819

16.3120747,-1.179063,9.617352,-0.190828,9.691237,91.128265,96.989441

16.3144226,-1.169492,9.626924,-0.205185,9.699870,91.212090,96.926430

16.3167706,-1.179063,9.607781,-0.238684,9.682800,91.412498,96.996338

16.3191185,-1.236491,9.612567,-0.195613,9.693741,91.156273,97.329865

16.3214664,-1.269991,9.598209,-0.123829,9.682656,90.732758,97.537331

16.3238144,-1.308276,9.631709,-0.162114,9.721506,90.955498,97.735153

16.3261623,-1.313061,9.626924,-0.166899,9.717491,90.984116,97.766914

16.3285103,-1.303490,9.646067,-0.138186,9.734720,90.813347,97.695862

16.3308582,-1.332204,9.569496,-0.152542,9.662986,90.904526,97.925415

16.3332062,-1.327418,9.593424,-0.138186,9.685810,90.817451,97.877853

16.3355560,-1.313061,9.607781,-0.114257,9.697765,90.675064,97.782196

16.3379040,-1.265205,9.598209,-0.099900,9.681753,90.591209,97.509254

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16.3449478,-1.231705,9.598209,-0.114257,9.677591,90.676468,97.312607

16.3472958,-1.212563,9.602996,-0.114257,9.679922,90.676308,97.196609

16.3496437,-1.212563,9.564711,-0.142971,9.642325,90.849579,97.225113

16.3519917,-1.188635,9.593424,-0.119043,9.667513,90.705544,97.063011

16.3543396,-1.183849,9.593424,-0.119043,9.666925,90.705582,97.034859

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16.3684292,-1.188635,9.622138,-0.315254,9.700401,91.862389,97.042145

16.3707771,-1.202992,9.655638,-0.334397,9.736033,91.968285,97.101860

16.3731251,-1.217349,9.650852,-0.358325,9.733924,92.109650,97.189262

16.3754730,-1.231705,9.641280,-0.305683,9.724444,91.801361,97.280289

16.3778210,-1.207777,9.612567,-0.253041,9.691450,91.496147,97.161438

16.3801689,-1.222134,9.612567,-0.186042,9.691732,91.099915,97.245667

16.3825169,-1.202992,9.569496,-0.104686,9.645382,90.621872,97.165131

16.3848648,-1.193420,9.588638,-0.066401,9.662849,90.393723,97.094658

16.3872128,-1.198206,9.550353,-0.032901,9.625280,90.195847,97.151077

16.3895626,-1.188635,9.569496,-0.018544,9.643052,90.110184,97.080490

16.3919106,-1.155135,9.598209,-0.018544,9.667487,90.109909,96.862488

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16.4693966,-1.217349,9.588638,-0.042473,9.665698,90.251770,97.235413

16.4717445,-1.241277,9.646067,-0.047258,9.725718,90.278404,97.332649

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16.4787884,-1.269991,9.617352,-0.214756,9.703219,91.268196,97.522499

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16.4858322,-1.370489,9.641280,-0.401396,9.746469,92.360321,98.090286

16.4881802,-1.447060,9.650852,-0.377468,9.766033,92.215096,98.527466

16.4905300,-1.456631,9.669994,-0.339183,9.784968,91.986481,98.566292

16.4928780,-1.485345,9.631709,-0.334397,9.751302,91.965202,98.766754

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16.5046177,-1.375275,9.631709,-0.339183,9.735310,91.996613,98.126114

16.5069656,-1.341775,9.602996,-0.286541,9.700516,91.692688,97.954140

16.5093136,-1.313061,9.626924,-0.272184,9.719870,91.604652,97.766914

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16.5421867,-1.231705,9.617352,-0.243470,9.698961,91.438431,97.298210

16.5445347,-1.274776,9.588638,-0.267398,9.676701,91.583466,97.572868

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16.5633202,-1.265205,9.660423,-0.229113,9.745615,91.347107,97.461441

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16.5961933,-1.289133,9.588638,-0.114257,9.675583,90.676613,97.657150

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17.2348690,-1.193420,9.636495,-0.152542,9.711310,90.900024,97.059784

17.2372189,-1.193420,9.626924,-0.171685,9.702133,91.013939,97.066727

17.2395649,-1.198206,9.622138,-0.152542,9.697655,90.901291,97.098274

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17.2466106,-1.150349,9.617352,-0.013759,9.685916,90.081390,96.820847

17.2489586,-1.140778,9.612567,0.000598,9.680021,89.996460,96.767960

17.2513065,-1.131207,9.617352,0.034098,9.683711,89.798256,96.708389

17.2536545,-1.092922,9.607781,0.019741,9.669764,89.883034,96.489716

17.2560024,-1.078565,9.612567,0.034098,9.672947,89.798027,96.402016

17.2583504,-1.064208,9.569496,0.005384,9.628490,89.967964,96.345695

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17.2653961,-1.068994,9.555139,-0.004187,9.614751,90.024956,96.383499

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17.2700920,-1.073779,9.550353,0.000598,9.610528,89.996437,96.415024

17.2724400,-1.078565,9.555139,0.014955,9.615830,89.910889,96.440170

17.2747879,-1.083350,9.540782,-0.008973,9.602096,90.053543,96.478157

17.2771358,-1.121636,9.555139,0.014955,9.620757,89.910934,96.695061

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17.2818317,-1.102493,9.598209,-0.023330,9.661348,90.138359,96.552528

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17.3006172,-1.121636,9.631709,-0.195613,9.698771,91.155670,96.642311

17.3029633,-1.150349,9.617352,-0.138186,9.686892,90.817368,96.820847

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17.3100090,-1.164706,9.588638,-0.037687,9.659190,90.223549,96.925636

17.3123550,-1.212563,9.602996,0.010169,9.679254,89.939804,97.196609

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17.3240967,-1.174278,9.555139,0.177667,9.628664,88.942726,97.006226

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17.3311424,-1.102493,9.535996,0.369093,9.606609,87.798111,96.594902

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17.3734074,-1.461416,9.717851,-1.066601,9.884836,96.194427,98.552322

17.3757553,-1.514058,9.674780,-1.143171,9.859035,96.658516,98.894386

17.3781033,-1.609771,9.622138,-1.071386,9.814518,96.267090,99.497551

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17.3945408,-1.289133,9.483355,-0.626321,9.591045,93.744232,97.741135

17.3968868,-1.169492,9.535996,-0.712463,9.633823,94.241142,96.991829

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17.7021370,-1.226920,9.631709,-0.449252,9.719927,92.649139,97.259438

17.7044868,-1.212563,9.636495,-0.487538,9.724712,92.873665,97.171852

17.7068329,-1.164706,9.669994,-0.473181,9.751370,92.781342,96.867928

17.7091827,-1.145564,9.669994,-0.425324,9.746898,92.501007,96.756104

17.7115288,-1.155135,9.646067,-0.377468,9.722315,92.225060,96.828758

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17.7162285,-1.179063,9.555139,-0.205185,9.629796,91.220909,97.034492

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17.7303162,-1.255634,9.574282,-0.152542,9.657472,90.905037,97.471504

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17.7514477,-1.274776,9.631709,-0.320040,9.720972,91.886665,97.539391

17.7537956,-1.284348,9.617352,-0.291326,9.707105,91.719795,97.606552

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17.8312817,-1.317847,9.650852,-0.506680,9.753583,92.977745,97.775787

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17.8430233,-1.394417,9.607781,-0.324826,9.713876,91.916290,98.257919

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17.8477192,-1.317847,9.617352,-0.530608,9.721715,93.128738,97.802536

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17.8524151,-1.188635,9.655638,-0.597607,9.746862,93.515167,97.017952

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17.8665028,-1.265205,9.598209,-0.262612,9.684799,91.553818,97.509254

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17.8805923,-1.135993,9.646067,-0.286541,9.716953,91.689827,96.716637

17.8829403,-1.112064,9.617352,-0.209970,9.683710,91.242432,96.595879

17.8852882,-1.164706,9.588638,-0.123829,9.659910,90.734482,96.925636

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17.8946800,-1.169492,9.574282,0.038883,9.645522,89.769028,96.964142

17.8970299,-1.140778,9.607781,0.024526,9.675301,89.854759,96.771301

17.8993759,-1.102493,9.555139,-0.008973,9.618537,90.053452,96.581810

17.9017258,-1.126421,9.550353,-0.028116,9.616593,90.167511,96.726700

17.9040718,-1.097707,9.574282,-0.023330,9.637032,90.138702,96.540497

17.9064217,-1.112064,9.569496,-0.061615,9.634092,90.366440,96.628571

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17.9604263,-1.274776,9.617352,-0.142971,9.702523,90.844307,97.550522

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18.1412277,-1.360918,9.602996,-0.473181,9.710485,92.793060,98.066132

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18.1482735,-1.456631,9.574282,-0.554537,9.700317,93.277206,98.650642

18.1506214,-1.432703,9.588638,-0.530608,9.709592,93.132652,98.498077

18.1529694,-1.375275,9.574282,-0.458824,9.683428,92.715828,98.174202

18.1553173,-1.389632,9.612567,-0.468395,9.723781,92.761009,98.225922

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18.1600132,-1.341775,9.650852,-0.482752,9.755632,92.836411,97.915199

18.1623611,-1.341775,9.669994,-0.458824,9.773417,92.690804,97.899727

18.1647091,-1.327418,9.679565,-0.382253,9.777635,92.240532,97.808617

18.1670570,-1.380060,9.669994,-0.363111,9.774723,92.128914,98.122162

18.1694069,-1.399203,9.655638,-0.300897,9.761129,91.766487,98.245361

18.1717548,-1.418346,9.641280,-0.257827,9.748460,91.515533,98.368851

18.1741028,-1.403989,9.636495,-0.224327,9.740818,91.319618,98.289383

18.1764507,-1.408774,9.622138,-0.195613,9.726687,91.152351,98.329475

18.1787987,-1.384846,9.545568,-0.195613,9.647483,91.161812,98.254730

18.1811466,-1.399203,9.579067,-0.200399,9.682792,91.185898,98.310356

18.1834946,-1.427917,9.574282,-0.286541,9.684417,91.695503,98.482620

18.1858425,-1.413560,9.583853,-0.377468,9.694889,92.231361,98.390289

18.1881905,-1.403989,9.631709,-0.406182,9.741971,92.389580,98.293442

18.1905384,-1.418346,9.631709,-0.439681,9.745503,92.585854,98.377052

18.1928864,-1.437488,9.641280,-0.449252,9.758201,92.638741,98.480171

18.1952343,-1.461416,9.665209,-0.434896,9.784739,92.547424,98.598213

18.1975842,-1.475773,9.650852,-0.401396,9.771283,92.354324,98.694115

18.1999302,-1.437488,9.641280,-0.391825,9.755726,92.301819,98.480171

18.2022800,-1.466202,9.612567,-0.329611,9.729329,91.941444,98.672462

18.2046261,-1.427917,9.622138,-0.267398,9.731187,91.574600,98.441040

18.2069759,-1.403989,9.617352,-0.219541,9.721772,91.293991,98.305649

18.2093220,-1.370489,9.540782,-0.162114,9.640075,90.963570,98.174355

18.2116718,-1.298705,9.574282,-0.152542,9.663166,90.904510,97.724747

18.2140179,-1.260419,9.564711,-0.186042,9.649195,91.104767,97.507072

18.2163677,-1.236491,9.545568,-0.171685,9.626850,91.021866,97.380745

18.2187176,-1.155135,9.559925,-0.209970,9.631749,91.249138,96.889702

18.2210636,-1.126421,9.588638,-0.243470,9.657644,91.444580,96.700089

18.2234135,-1.078565,9.617352,-0.243470,9.680705,91.441139,96.398857

18.2257595,-1.078565,9.602996,-0.190828,9.665259,91.131302,96.408348

18.2281094,-1.059422,9.607781,-0.147757,9.667144,90.875771,96.292419

18.2304554,-1.073779,9.617352,-0.138186,9.678097,90.818108,96.370697

18.2328053,-1.040280,9.636495,-0.085543,9.692860,90.505669,96.161339

18.2351513,-1.040280,9.636495,-0.114257,9.693155,90.675385,96.161339

18.2375011,-1.025923,9.612567,-0.090329,9.667581,90.535355,96.091957

18.2398472,-1.064208,9.588638,-0.061615,9.647711,90.365921,96.333130

18.2421970,-1.097707,9.583853,-0.080758,9.646851,90.479652,96.534019

18.2445431,-1.088136,9.579067,-0.071186,9.640935,90.423065,96.480743

18.2468929,-1.135993,9.579067,-0.018544,9.646210,90.110146,96.763184

18.2492409,-1.193420,9.583853,-0.047258,9.657988,90.280357,97.098167

18.2515888,-1.222134,9.564711,-0.037687,9.642548,90.223938,97.281532

18.2539368,-1.260419,9.574282,-0.032901,9.656946,90.195206,97.499657

18.2562847,-1.246062,9.540782,-0.023330,9.621837,90.138924,97.440933

18.2586327,-1.246062,9.545568,-0.047258,9.626670,90.281273,97.437241

18.2609806,-1.279562,9.550353,-0.056830,9.635858,90.337914,97.631081

18.2633286,-1.269991,9.540782,-0.071186,9.625199,90.423752,97.582169

18.2656765,-1.284348,9.564711,-0.095115,9.651025,90.564682,97.647919

18.2680264,-1.313061,9.583853,-0.114257,9.674059,90.676720,97.801392

18.2703743,-1.274776,9.569496,-0.119043,9.654764,90.706474,97.587837

18.2727222,-1.284348,9.583853,-0.099900,9.670045,90.591927,97.632820

18.2750702,-1.255634,9.550353,-0.061615,9.632739,90.366493,97.490013

18.2774181,-1.246062,9.569496,-0.018544,9.650299,90.110100,97.418854

18.2797661,-1.217349,9.559925,0.043669,9.637220,89.740372,97.256912

18.2821140,-1.217349,9.521640,0.120239,9.599897,89.282349,97.285782

18.2844620,-1.179063,9.516854,0.172881,9.591172,88.967186,97.062508

18.2868099,-1.088136,9.521640,0.220738,9.586157,88.680550,96.519493

18.2891579,-1.054637,9.521640,0.225524,9.582523,88.651428,96.320435

18.2915058,-1.064208,9.507282,0.225524,9.569316,88.649567,96.386879

18.2938538,-1.078565,9.488140,0.215952,9.551688,88.704498,96.485260

18.2962036,-1.078565,9.512068,0.206381,9.575246,88.764977,96.469086

18.2985497,-1.049851,9.507282,0.192024,9.566999,88.849907,96.301414

18.3008995,-1.064208,9.545568,0.168096,9.606178,88.997345,96.361473

18.3032455,-1.083350,9.559925,0.101097,9.621644,89.397972,96.465294

18.3055954,-1.088136,9.612567,0.062812,9.674163,89.627991,96.458351

18.3079414,-1.116850,9.593424,-0.004187,9.658216,90.024841,96.640388

18.3102913,-1.112064,9.598209,-0.018544,9.662436,90.109962,96.608917

18.3126373,-1.116850,9.626924,-0.071186,9.691753,90.420845,96.617485

18.3149872,-1.140778,9.612567,-0.123829,9.680814,90.732895,96.767960

18.3173332,-1.112064,9.588638,-0.142971,9.653969,90.848557,96.615456

18.3196831,-1.107279,9.579067,-0.200399,9.644935,91.190559,96.593758

18.3220329,-1.102493,9.588638,-0.267398,9.655516,91.586945,96.559013

18.3243790,-1.126421,9.617352,-0.329611,9.688702,91.949585,96.680267

18.3267288,-1.179063,9.593424,-0.343968,9.671726,92.038116,97.006699

18.3290749,-1.207777,9.622138,-0.391825,9.705555,92.313728,97.154388

18.3314247,-1.212563,9.636495,-0.315254,9.717599,91.859093,97.171852

18.3337708,-1.231705,9.665209,-0.334397,9.749112,91.965645,97.262459

18.3361206,-1.198206,9.631709,-0.296112,9.710469,91.747452,97.091293

18.3384666,-1.217349,9.665209,-0.296112,9.746070,91.741066,97.178696

18.3408165,-1.222134,9.612567,-0.229113,9.692655,91.354469,97.245667

18.3431625,-1.212563,9.583853,-0.205185,9.662435,91.216782,97.210831

18.3455124,-1.255634,9.626924,-0.257827,9.711887,91.521240,97.431107

18.3478603,-1.207777,9.626924,-0.267398,9.706075,91.578674,97.150871

18.3502083,-1.241277,9.650852,-0.267398,9.734024,91.574135,97.329048

18.3525562,-1.236491,9.679565,-0.296112,9.762713,91.738098,97.279678

18.3549042,-1.279562,9.669994,-0.291326,9.758634,91.710716,97.537758

18.3572521,-1.351347,9.646067,-0.257827,9.743676,91.516273,97.974838

18.3596001,-1.351347,9.631709,-0.257827,9.729463,91.518494,97.986572

18.3619480,-1.389632,9.636495,-0.243470,9.739219,91.432480,98.205780

18.3642960,-1.375275,9.579067,-0.181256,9.678986,91.073029,98.170174

18.3666439,-1.356132,9.598209,-0.166899,9.694977,90.986397,98.042099

18.3689919,-1.317847,9.583853,-0.123829,9.674828,90.733353,97.829468

18.3713417,-1.293919,9.574282,-0.128614,9.662175,90.762695,97.696625

18.3736897,-1.274776,9.555139,-0.176471,9.641415,91.048767,97.599106

18.3760376,-1.265205,9.550353,-0.214756,9.636188,91.277023,97.546448

18.3783855,-1.255634,9.602996,-0.233898,9.687562,91.383492,97.449409

18.3807335,-1.250848,9.622138,-0.276969,9.707053,91.635033,97.406738

18.3830814,-1.260419,9.588638,-0.320040,9.676418,91.895355,97.488556

18.3854294,-1.260419,9.598209,-0.310469,9.685591,91.836914,97.481171

18.3877773,-1.274776,9.602996,-0.262612,9.690797,91.552856,97.561676

18.3901253,-1.293919,9.598209,-0.253041,9.688337,91.496628,97.677666

18.3924732,-1.336990,9.602996,-0.233898,9.698442,91.381943,97.926125

18.3948231,-1.303490,9.574282,-0.257827,9.666045,91.528458,97.752869

18.3971691,-1.351347,9.602996,-0.209970,9.699884,91.240356,98.010139

18.3995190,-1.332204,9.598209,-0.224327,9.692818,91.326149,97.902008

18.4018650,-1.284348,9.593424,-0.214756,9.681397,91.271057,97.625298

18.4042149,-1.250848,9.579067,-0.229113,9.663107,91.358612,97.439667

18.4065609,-1.269991,9.588638,-0.291326,9.676763,91.725189,97.544769

18.4089108,-1.255634,9.612567,-0.257827,9.697656,91.523476,97.442078

18.4112568,-1.260419,9.617352,-0.315254,9.704716,91.861565,97.466446

18.4136066,-1.250848,9.598209,-0.343968,9.685482,92.035217,97.424995

18.4159527,-1.284348,9.593424,-0.305683,9.683841,91.808914,97.625298

18.4183025,-1.269991,9.607781,-0.276969,9.695311,91.637009,97.529907

18.4206524,-1.231705,9.588638,-0.310469,9.672408,91.839417,97.319824

18.4229984,-1.226920,9.579067,-0.267398,9.661023,91.586037,97.298897

18.4253483,-1.241277,9.574282,-0.253041,9.657726,91.501373,97.387024

18.4276943,-1.212563,9.555139,-0.229113,9.634494,91.362648,97.232269

18.4300442,-1.212563,9.569496,-0.233898,9.648849,91.389046,97.221535

18.4323902,-1.255634,9.574282,-0.257827,9.659708,91.529457,97.471504

18.4347401,-1.231705,9.593424,-0.262612,9.675735,91.555275,97.316216

18.4370861,-1.260419,9.622138,-0.296112,9.708856,91.747742,97.462776

18.4394360,-1.298705,9.622138,-0.315254,9.714502,91.859688,97.686783

18.4417820,-1.289133,9.602996,-0.291326,9.693517,91.722214,97.645836

18.4441319,-1.322633,9.602996,-0.248255,9.696831,91.467026,97.842079

18.4464779,-1.351347,9.617352,-0.238684,9.714761,91.407852,97.998337

18.4488277,-1.327418,9.593424,-0.209970,9.687100,91.241997,97.877853

18.4511757,-1.298705,9.583853,-0.181256,9.673144,91.073677,97.717125

18.4535236,-1.274776,9.569496,-0.157328,9.655313,90.933647,97.587837

18.4558716,-1.293919,9.583853,-0.109472,9.671424,90.648552,97.689026

18.4582195,-1.260419,9.540782,-0.114257,9.624356,90.680214,97.525688

18.4605675,-1.265205,9.579067,-0.095115,9.662728,90.563995,97.524086

18.4629154,-1.217349,9.579067,-0.080758,9.656448,90.479172,97.242569

18.4652634,-1.226920,9.588638,-0.095115,9.667283,90.563736,97.291695

18.4676113,-1.183849,9.593424,-0.104686,9.666759,90.620499,97.034859

18.4699612,-1.222134,9.574282,-0.080758,9.652306,90.479378,97.274330

18.4723091,-1.193420,9.602996,-0.090329,9.677290,90.534813,97.084160

18.4746571,-1.183849,9.579067,-0.119043,9.652678,90.706627,97.045296

18.4770050,-1.193420,9.588638,-0.114257,9.663297,90.677475,97.094658

18.4793530,-1.174278,9.622138,-0.123829,9.694318,90.731880,96.957924

18.4817009,-1.212563,9.631709,-0.095115,9.708201,90.561356,97.175377

18.4840488,-1.231705,9.555139,-0.066401,9.634427,90.394890,97.345207

18.4863968,-1.207777,9.526425,-0.052044,9.602823,90.310524,97.225510

18.4887447,-1.198206,9.564711,-0.052044,9.639611,90.309341,97.140450

18.4910927,-1.231705,9.579067,-0.109472,9.658551,90.649414,97.327057

18.4934406,-1.202992,9.598209,-0.171685,9.674828,91.016800,97.143913

18.4957886,-1.226920,9.602996,-0.229113,9.683767,91.355713,97.280907

18.4981384,-1.255634,9.612567,-0.281755,9.698321,91.664787,97.442078

18.5004845,-1.236491,9.612567,-0.329611,9.697371,91.947845,97.329865

18.5028343,-1.284348,9.607781,-0.387039,9.700970,92.286537,97.614037

18.5051804,-1.322633,9.598209,-0.363111,9.695712,92.146263,97.845940

18.5075302,-1.375275,9.602996,-0.353540,9.707415,92.087151,98.150085

18.5098763,-1.375275,9.588638,-0.334397,9.692533,91.977127,98.162125

18.5122261,-1.370489,9.607781,-0.324826,9.710469,91.916962,98.118118

18.5145721,-1.413560,9.588638,-0.324826,9.697714,91.919487,98.386162

18.5169220,-1.380060,9.555139,-0.315254,9.659432,91.870293,98.218468

18.5192680,-1.370489,9.583853,-0.296112,9.685874,91.751892,98.138115

18.5216179,-1.332204,9.598209,-0.276969,9.694179,91.637199,97.902008

18.5239677,-1.346561,9.574282,-0.281755,9.672615,91.669212,98.005768

18.5263138,-1.308276,9.612567,-0.281755,9.705277,91.663589,97.750366

18.5286636,-1.250848,9.579067,-0.343968,9.666512,92.039215,97.439667

18.5310097,-1.236491,9.641280,-0.382253,9.727759,92.252022,97.308273

18.5333595,-1.241277,9.617352,-0.430110,9.706659,92.539650,97.354301

18.5357056,-1.217349,9.669994,-0.506680,9.759480,92.975945,97.175179

18.5380554,-1.265205,9.693923,-0.549751,9.791584,93.218582,97.435944

18.5404015,-1.289133,9.717851,-0.602393,9.821475,93.516403,97.556519

18.5427513,-1.284348,9.722636,-0.588036,9.824714,93.431358,97.525131

18.5450974,-1.360918,9.727423,-0.549751,9.837534,93.203529,97.964287

18.5474472,-1.384846,9.689137,-0.535394,9.802236,93.131027,98.134064

18.5497952,-1.408774,9.708280,-0.492323,9.822308,92.873039,98.256592

18.5521431,-1.427917,9.650852,-0.473181,9.767385,92.776779,98.416283

18.5544910,-1.447060,9.665209,-0.449252,9.783255,92.631981,98.514984

18.5568390,-1.475773,9.579067,-0.377468,9.699429,92.230316,98.758263

18.5591869,-1.499702,9.574282,-0.363111,9.697826,92.145798,98.902390

18.5615349,-1.523630,9.583853,-0.305683,9.709023,91.804222,99.033218

18.5638828,-1.494916,9.526425,-0.300897,9.647698,91.787262,98.918297

18.5662308,-1.494916,9.540782,-0.324826,9.662650,91.926453,98.905098

18.5685787,-1.456631,9.583853,-0.305683,9.698734,91.806137,98.642128

18.5709267,-1.380060,9.559925,-0.305683,9.663859,91.812660,98.214409

18.5732765,-1.332204,9.622138,-0.320040,9.719193,91.887016,97.882599

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18.5779724,-1.202992,9.626924,-0.276969,9.705749,91.635246,97.122826

18.5803204,-1.164706,9.612567,-0.262612,9.686431,91.553558,96.908562

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18.5850163,-1.155135,9.631709,-0.190828,9.702606,91.126945,96.838844

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18.5897121,-1.159921,9.583853,-0.142971,9.654848,90.848480,96.900864

18.5920601,-1.217349,9.579067,-0.138186,9.657100,90.819885,97.242569

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18.5967579,-1.260419,9.559925,-0.099900,9.643174,90.593575,97.510788

18.5991039,-1.317847,9.545568,-0.128614,9.636966,90.764687,97.860481

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18.6037998,-1.327418,9.583853,-0.205185,9.677519,91.214890,97.885620

18.6061497,-1.317847,9.583853,-0.243470,9.677098,91.441681,97.829468

18.6084957,-1.346561,9.564711,-0.248255,9.662223,91.472282,98.013680

18.6108456,-1.346561,9.583853,-0.248255,9.681172,91.469406,97.997879

18.6131916,-1.308276,9.598209,-0.248255,9.690142,91.468040,97.761818

18.6155415,-1.260419,9.588638,-0.229113,9.673838,91.357109,97.488556

18.6178875,-1.241277,9.602996,-0.238684,9.685828,91.412064,97.365173

18.6202374,-1.236491,9.617352,-0.224327,9.699108,91.325294,97.326256

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18.6272831,-1.097707,9.602996,-0.243470,9.668597,91.442947,96.521111

18.6296291,-1.121636,9.593424,-0.272184,9.662604,91.614166,96.668579

18.6319790,-1.107279,9.593424,-0.276969,9.661085,91.642815,96.583977

18.6343250,-1.135993,9.569496,-0.272184,9.640530,91.617859,96.769890

18.6366749,-1.183849,9.626924,-0.257827,9.702868,91.522652,97.010620

18.6390209,-1.207777,9.612567,-0.262612,9.691704,91.552711,97.161438

18.6413708,-1.193420,9.641280,-0.229113,9.717563,91.350998,97.056313

18.6437168,-1.236491,9.617352,-0.238684,9.699450,91.410080,97.326256

18.6460667,-1.341775,9.583853,-0.190828,9.679205,91.129669,97.969818

18.6484146,-1.313061,9.617352,-0.214756,9.708950,91.267448,97.774551

18.6507626,-1.317847,9.583853,-0.200399,9.676110,91.186722,97.829468

18.6531105,-1.327418,9.612567,-0.209970,9.706059,91.239571,97.862366

18.6554585,-1.332204,9.598209,-0.200399,9.692293,91.184738,97.902008

18.6578064,-1.313061,9.593424,-0.209970,9.685143,91.242249,97.793701

18.6601543,-1.298705,9.622138,-0.214756,9.711761,91.267082,97.686783

18.6625023,-1.293919,9.579067,-0.229113,9.668777,91.357819,97.692825

18.6648502,-1.260419,9.598209,-0.200399,9.682688,91.185913,97.481171

18.6671982,-1.250848,9.598209,-0.214756,9.681754,91.271011,97.424995

18.6695461,-1.269991,9.579067,-0.214756,9.665275,91.273178,97.552216

18.6718960,-1.255634,9.588638,-0.224327,9.673103,91.328857,97.460442

18.6742439,-1.303490,9.588638,-0.224327,9.679432,91.327988,97.741394

18.6765919,-1.313061,9.593424,-0.214756,9.685248,91.270554,97.793701

18.6789398,-1.284348,9.588638,-0.200399,9.676348,91.186691,97.629059

18.6812878,-1.336990,9.602996,-0.214756,9.697999,91.268883,97.926125

18.6836357,-1.336990,9.598209,-0.238684,9.693820,91.410896,97.930031

18.6859837,-1.313061,9.602996,-0.219541,9.694837,91.297585,97.786026

18.6883316,-1.317847,9.583853,-0.229113,9.676747,91.356697,97.829468

18.6906796,-1.303490,9.598209,-0.248255,9.689497,91.468140,97.733772

18.6930275,-1.327418,9.598209,-0.238684,9.692504,91.411087,97.873978

18.6953754,-1.327418,9.579067,-0.233898,9.673431,91.385513,97.889511

18.6977234,-1.293919,9.579067,-0.276969,9.670030,91.641289,97.692825

18.7000732,-1.308276,9.564711,-0.281755,9.657881,91.671761,97.788673

18.7024193,-1.284348,9.579067,-0.257827,9.668224,91.528114,97.636589

18.7047691,-1.289133,9.598209,-0.276969,9.688354,91.638184,97.649605

18.7071152,-1.327418,9.569496,-0.238684,9.664071,91.415237,97.897301

18.7094650,-1.313061,9.602996,-0.243470,9.695408,91.438957,97.786026

18.7118111,-1.298705,9.598209,-0.257827,9.689104,91.524818,97.705719

18.7141609,-1.279562,9.579067,-0.233898,9.666981,91.386444,97.608467

18.7165070,-1.255634,9.555139,-0.219541,9.639787,91.304993,97.486298

18.7188568,-1.231705,9.593424,-0.181256,9.673868,91.073593,97.316216

18.7212067,-1.222134,9.574282,-0.186042,9.653761,91.104240,97.274330

18.7235527,-1.231705,9.593424,-0.176471,9.673780,91.045258,97.316216

18.7259026,-1.231705,9.569496,-0.176471,9.650052,91.047829,97.334312

18.7282486,-1.269991,9.579067,-0.162114,9.664248,90.961159,97.552216

18.7305984,-1.293919,9.607781,-0.133400,9.695436,90.788361,97.670105

18.7329445,-1.279562,9.593424,-0.123829,9.679173,90.733025,97.597221

18.7352943,-1.246062,9.550353,-0.099900,9.631817,90.594276,97.433556

18.7376404,-1.250848,9.574282,-0.138186,9.656634,90.819923,97.443344

18.7399902,-1.236491,9.579067,-0.176471,9.660154,91.046730,97.355217

18.7423363,-1.236491,9.602996,-0.171685,9.683796,91.015854,97.337090

18.7446861,-1.265205,9.612567,-0.181256,9.697166,91.071014,97.498161

18.7470322,-1.274776,9.607781,-0.195613,9.693955,91.156242,97.557953

18.7493820,-1.265205,9.607781,-0.205185,9.692900,91.212959,97.501854

18.7517300,-1.279562,9.602996,-0.209970,9.690145,91.241608,97.589729

18.7540779,-1.284348,9.602996,-0.186042,9.690289,91.100075,97.617790

18.7564259,-1.274776,9.607781,-0.190828,9.693861,91.127960,97.557953

18.7587738,-1.303490,9.598209,-0.209970,9.688592,91.241806,97.733772

18.7611217,-1.279562,9.579067,-0.219541,9.666644,91.301369,97.608467

18.7634697,-1.298705,9.598209,-0.233898,9.688497,91.383362,97.705719

18.7658176,-1.303490,9.598209,-0.272184,9.690139,91.609573,97.733772

18.7681656,-1.289133,9.602996,-0.262612,9.692696,91.552551,97.645836

18.7705135,-1.289133,9.612567,-0.262612,9.702179,91.551033,97.638313

18.7728634,-1.322633,9.593424,-0.286541,9.688408,91.694801,97.849808

18.7752113,-1.322633,9.622138,-0.257827,9.716037,91.520592,97.826675

18.7775593,-1.313061,9.574282,-0.296112,9.668438,91.755051,97.809090

18.7799072,-1.308276,9.588638,-0.296112,9.682007,91.752594,97.769470

18.7822552,-1.332204,9.574282,-0.310469,9.671506,91.839592,97.921501

18.7846031,-1.327418,9.574282,-0.324826,9.671320,91.924728,97.893410

18.7869511,-1.346561,9.569496,-0.329611,9.669391,91.953484,98.009720

18.7892990,-1.403989,9.579067,-0.320040,9.686699,91.893349,98.338379

18.7916470,-1.423131,9.588638,-0.358325,9.700293,92.116966,98.442123

18.7939949,-1.413560,9.593424,-0.410967,9.705711,92.426788,98.382034

18.7963428,-1.427917,9.588638,-0.377468,9.701722,92.229790,98.470100

18.7986927,-1.437488,9.641280,-0.382253,9.755346,92.245651,98.480171

18.8010387,-1.490130,9.626924,-0.415753,9.750436,92.443802,98.798859

18.8033886,-1.494916,9.617352,-0.449252,9.743206,92.642807,98.835320

18.8057346,-1.499702,9.622138,-0.439681,9.748229,92.585129,98.858818

18.8080845,-1.518844,9.617352,-0.410967,9.745216,92.416946,98.974457

18.8104305,-1.561915,9.636495,-0.406182,9.770700,92.382553,99.206627

18.8127804,-1.523630,9.626924,-0.358325,9.753333,92.105446,98.993469

18.8151264,-1.533201,9.588638,-0.334397,9.716199,91.972305,99.084564

18.8174763,-1.485345,9.588638,-0.339183,9.708927,92.002045,98.805511

18.8198223,-1.504487,9.569496,-0.363111,9.693843,92.146683,98.934738

18.8221722,-1.461416,9.579067,-0.358325,9.696528,92.117790,98.674362

18.8245220,-1.442274,9.593424,-0.377468,9.708574,92.228210,98.549805

18.8268681,-1.399203,9.574282,-0.372682,9.683157,92.205727,98.314453

18.8292179,-1.375275,9.607781,-0.396610,9.713812,92.340012,98.146080

18.8315639,-1.341775,9.622138,-0.401396,9.723529,92.365891,97.938515

18.8339138,-1.322633,9.607781,-0.406182,9.706895,92.398224,97.838226

18.8362598,-1.327418,9.631709,-0.430110,9.732259,92.532967,97.846931

18.8386097,-1.327418,9.612567,-0.434896,9.713528,92.566116,97.862366

18.8409557,-1.336990,9.617352,-0.425324,9.719151,92.508148,97.914444

18.8433056,-1.351347,9.617352,-0.439681,9.721776,92.592171,97.998337

18.8456516,-1.346561,9.612567,-0.410967,9.715120,92.424438,97.974297

18.8480015,-1.365704,9.602996,-0.420539,9.708735,92.482574,98.094124

18.8503494,-1.365704,9.588638,-0.410967,9.694123,92.429695,98.106079

18.8526974,-1.298705,9.579067,-0.449252,9.677137,92.660858,97.720932

18.8550453,-1.332204,9.593424,-0.444467,9.695674,92.627457,97.905899

18.8573933,-1.380060,9.612567,-0.420539,9.720229,92.479637,98.170036

18.8597412,-1.336990,9.598209,-0.377468,9.698229,92.230591,97.930031

18.8620892,-1.384846,9.617352,-0.382253,9.724062,92.252884,98.193954

18.8644371,-1.418346,9.612567,-0.358325,9.723248,92.111969,98.393494

18.8667850,-1.408774,9.602996,-0.367896,9.712750,92.170753,98.345848

18.8691330,-1.413560,9.617352,-0.358325,9.727283,92.111092,98.361473

18.8714809,-1.427917,9.598209,-0.377468,9.711182,92.227615,98.461777

18.8738308,-1.389632,9.607781,-0.387039,9.715468,92.283119,98.229965

18.8761787,-1.399203,9.612567,-0.367896,9.720831,92.168945,98.281799

18.8785267,-1.384846,9.631709,-0.315254,9.735862,91.855606,98.181908

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18.8832226,-1.356132,9.598209,-0.310469,9.698511,91.834465,98.042099

18.8855705,-1.336990,9.588638,-0.310469,9.686378,91.836761,97.937843

18.8879185,-1.289133,9.550353,-0.310469,9.641966,91.845230,97.687477

18.8902664,-1.274776,9.569496,-0.343968,9.660156,92.040558,97.587837

18.8926144,-1.265205,9.588638,-0.339183,9.677694,92.008507,97.516663

18.8949623,-1.289133,9.550353,-0.310469,9.641966,91.845230,97.687477

18.8973103,-1.265205,9.574282,-0.286541,9.661766,91.699478,97.527802

18.8996582,-1.246062,9.588638,-0.291326,9.673652,91.725746,97.404205

18.9020081,-1.241277,9.588638,-0.276969,9.672614,91.640854,97.376083

18.9043541,-1.236491,9.593424,-0.296112,9.677313,91.753441,97.344330

18.9067039,-1.260419,9.569496,-0.305683,9.656984,91.813950,97.503365

18.9090500,-1.255634,9.588638,-0.286541,9.674746,91.697197,97.460442

18.9113998,-1.260419,9.593424,-0.276969,9.679832,91.639626,97.484863

18.9137459,-1.274776,9.607781,-0.253041,9.695285,91.495552,97.557953

18.9160957,-1.250848,9.564711,-0.243470,9.649227,91.445847,97.450706

18.9184418,-1.255634,9.559925,-0.224327,9.644641,91.332779,97.482597

18.9207916,-1.222134,9.583853,-0.233898,9.664293,91.386826,97.267143

18.9231415,-1.222134,9.602996,-0.248255,9.683635,91.469032,97.252808

18.9254875,-1.183849,9.631709,-0.267398,9.707874,91.578377,97.007172

18.9278374,-1.179063,9.612567,-0.296112,9.689134,91.751305,96.992889

18.9301834,-1.155135,9.636495,-0.305683,9.710294,91.803986,96.835480

18.9325333,-1.155135,9.646067,-0.320040,9.720255,91.886810,96.828758

18.9348793,-1.164706,9.650852,-0.367896,9.727839,92.167381,96.881424

18.9372292,-1.159921,9.631709,-0.372682,9.708456,92.199974,96.866905

18.9395752,-1.188635,9.641280,-0.363111,9.721059,92.140671,97.028297

18.9419250,-1.155135,9.607781,-0.320040,9.682263,91.894211,96.855713

18.9442711,-1.183849,9.602996,-0.276969,9.679656,91.639656,97.027916

18.9466209,-1.179063,9.602996,-0.272184,9.678936,91.611443,96.999786

18.9489670,-1.188635,9.593424,-0.286541,9.671026,91.697853,97.063011

18.9513168,-1.174278,9.559925,-0.315254,9.636933,91.874657,97.002754

18.9536648,-1.179063,9.569496,-0.339183,9.647823,92.014725,97.024048

18.9560127,-1.183849,9.598209,-0.300897,9.675622,91.782104,97.031387

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18.9630566,-1.179063,9.574282,-0.238684,9.649561,91.417366,97.020569

18.9654045,-1.116850,9.593424,-0.238684,9.661164,91.415665,96.640388

18.9677525,-1.174278,9.612567,-0.229113,9.686736,91.355301,96.964783

18.9701004,-1.083350,9.622138,-0.257827,9.686365,91.525246,96.423843

18.9724483,-1.016351,9.660423,-0.310469,9.718700,91.830650,96.005867

18.9747982,-1.030708,9.660423,-0.329611,9.720842,91.943138,96.090073

18.9771461,-0.997209,9.698709,-0.353540,9.756248,92.076698,95.870453

18.9794941,-0.963709,9.684352,-0.372682,9.739317,92.193001,95.682907

18.9818420,-0.997209,9.655638,-0.396610,9.715095,92.339699,95.896454

18.9841900,-1.030708,9.708280,-0.406182,9.771287,92.382408,96.060272

18.9865379,-1.016351,9.684352,-0.482752,9.749496,92.838196,95.991135

18.9888859,-1.021137,9.722636,-0.573679,9.792931,93.358368,95.995613

18.9912338,-1.064208,9.751350,-0.616750,9.828619,93.597702,96.228294

18.9935818,-1.145564,9.741779,-0.626321,9.828879,93.653511,96.706772

18.9959297,-1.308276,9.722636,-0.578465,9.827302,93.374557,97.663673

18.9982777,-1.375275,9.698709,-0.477966,9.807384,92.793434,98.070724

19.0006275,-1.432703,9.660423,-0.367896,9.773011,92.157356,98.435844

19.0029736,-1.504487,9.626924,-0.315254,9.748873,91.853127,98.882286

19.0053234,-1.585843,9.617352,-0.272184,9.751023,91.599525,99.363472

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19.0100193,-1.671985,9.521640,-0.090329,9.667747,90.535339,99.959511

19.0123653,-1.604986,9.507282,0.053240,9.641952,89.683624,99.582123

19.0147152,-1.542772,9.492926,0.134596,9.618415,89.198196,99.230896

19.0170612,-1.437488,9.473783,0.211167,9.584547,88.737556,98.627861

19.0194111,-1.375275,9.492926,0.187238,9.593856,88.881714,98.243294

19.0217571,-1.250848,9.516854,0.105882,9.599289,89.368004,97.487755

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19.0593281,-1.188635,9.598209,0.192024,9.673435,88.862564,97.059525

19.0616760,-1.198206,9.579067,0.125025,9.654526,89.258003,97.129860

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19.0687199,-1.188635,9.650852,-0.157328,9.725047,90.926949,97.021400

19.0710678,-1.231705,9.650852,-0.233898,9.731945,91.377182,97.273148

19.0734158,-1.222134,9.631709,-0.253041,9.712233,91.492943,97.231422

19.0757656,-1.226920,9.660423,-0.214756,9.740392,91.263359,97.238083

19.0781136,-1.183849,9.650852,-0.195613,9.725159,91.152534,96.993408

19.0804615,-1.217349,9.626924,-0.176471,9.705192,91.041870,97.206940

19.0828094,-1.231705,9.646067,-0.162114,9.725739,90.955078,97.276718

19.0851574,-1.222134,9.636495,-0.205185,9.715850,91.210091,97.227867

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19.0898533,-1.293919,9.626924,-0.272184,9.717302,91.605080,97.655037

19.0922012,-1.255634,9.650852,-0.238684,9.735118,91.404907,97.412888

19.0945492,-1.260419,9.631709,-0.114257,9.714501,90.673904,97.455444

19.0968971,-1.246062,9.650852,0.043669,9.731060,89.742882,97.357002

19.0992470,-1.274776,9.665209,0.129811,9.749778,89.237129,97.513557

19.1015930,-1.241277,9.655638,0.244666,9.738171,88.560326,97.325462

19.1039429,-1.226920,9.693923,0.215952,9.773644,88.733925,97.213333

19.1062889,-1.241277,9.684352,0.163310,9.764943,89.041733,97.303970

19.1086388,-1.193420,9.775279,0.134596,9.848780,89.216957,96.960541

19.1109848,-1.193420,9.832706,0.014955,9.904877,89.913490,96.920280

19.1133347,-1.217349,9.851849,-0.085543,9.927144,90.493729,97.044075

19.1156807,-1.351347,9.832706,-0.162114,9.926456,90.935768,97.825356

19.1180305,-1.408774,9.832706,-0.176471,9.934682,91.017807,98.153526

19.1203766,-1.509273,9.803992,-0.142971,9.920515,90.825760,98.751678

19.1227264,-1.528415,9.751350,-0.052044,9.870542,90.302101,98.907997

19.1250763,-1.514058,9.732208,0.038883,9.849353,89.773804,98.842728

19.1274223,-1.490130,9.703494,0.148953,9.818375,89.130737,98.730499

19.1297722,-1.332204,9.669994,0.158524,9.762617,89.069595,97.844078

19.1321182,-1.255634,9.646067,0.129811,9.728312,89.235443,97.416519

19.1344681,-1.155135,9.622138,0.058026,9.691401,89.656944,96.845581

19.1368141,-1.073779,9.607781,-0.042473,9.667692,90.251717,96.376991

19.1391640,-1.016351,9.564711,-0.166899,9.620006,90.994087,96.065521

19.1415100,-0.982852,9.564711,-0.272184,9.618927,91.621498,95.867012

19.1438599,-0.958924,9.516854,-0.300897,9.569775,91.801819,95.753738

19.1462059,-0.958924,9.521640,-0.329611,9.575480,91.972649,95.750862

19.1485558,-0.997209,9.516854,-0.358325,9.575664,92.144531,95.981819

19.1509037,-1.102493,9.497711,-0.348754,9.567844,92.088928,96.621254

19.1532516,-1.140778,9.497711,-0.315254,9.571170,91.887543,96.849037

19.1555996,-1.207777,9.521640,-0.324826,9.603430,91.938339,97.229103

19.1579475,-1.236491,9.545568,-0.286541,9.629583,91.705162,97.380745

19.1602955,-1.260419,9.593424,-0.272184,9.679696,91.611313,97.484863

19.1626434,-1.298705,9.617352,-0.238684,9.707578,91.408897,97.690567

19.1649914,-1.327418,9.636495,-0.219541,9.729967,91.292900,97.843086

19.1673393,-1.351347,9.665209,-0.209970,9.761480,91.232529,97.959244

19.1696873,-1.303490,9.727423,-0.133400,9.815275,90.778732,97.632263

19.1720352,-1.298705,9.756136,-0.114257,9.842859,90.665115,97.582443

19.1743851,-1.322633,9.808778,-0.075972,9.897840,90.439789,97.679543

19.1767330,-1.293919,9.780065,-0.085543,9.865658,90.496811,97.536560

19.1790810,-1.260419,9.794421,-0.128614,9.876025,90.746178,97.332947

19.1814289,-1.298705,9.765707,-0.176471,9.853264,91.026215,97.575104

19.1837769,-1.298705,9.760921,-0.238684,9.849832,91.388542,97.578773

19.1861248,-1.231705,9.727423,-0.300897,9.809709,91.757736,97.216499

19.1884727,-1.246062,9.746565,-0.300897,9.830501,91.754013,97.285530

19.1908207,-1.241277,9.756136,-0.310469,9.839683,91.808136,97.250809

19.1931686,-1.246062,9.689137,-0.315254,9.774019,91.848358,97.328247

19.1955166,-1.241277,9.713065,-0.310469,9.796979,91.816025,97.282616

19.1978645,-1.236491,9.693923,-0.248255,9.775617,91.455200,97.269012

19.2002125,-1.231705,9.674780,-0.181256,9.754554,91.064713,97.255348

19.2025623,-1.250848,9.612567,-0.133400,9.694527,90.788437,97.414032

19.2049084,-1.207777,9.559925,-0.085543,9.636296,90.508636,97.200462

19.2072582,-1.207777,9.574282,-0.114257,9.650837,90.678345,97.189774

19.2096043,-1.183849,9.521640,-0.205185,9.597147,91.225060,97.087357

19.2119541,-1.135993,9.526425,-0.291326,9.598340,91.739296,96.800209

19.2143002,-1.116850,9.512068,-0.410967,9.586224,92.457062,96.696663

19.2166500,-1.135993,9.497711,-0.487538,9.577823,92.917778,96.820572

19.2189960,-1.145564,9.516854,-0.554537,9.601581,93.310944,96.863792

19.2213459,-1.169492,9.531211,-0.559322,9.618967,93.333504,96.995300

19.2236958,-1.246062,9.516854,-0.559322,9.614367,93.335106,97.459427

19.2260418,-1.274776,9.559925,-0.477966,9.656380,92.837158,97.595345

19.2283916,-1.341775,9.588638,-0.391825,9.689988,92.317444,97.965897

19.2307377,-1.341775,9.588638,-0.248255,9.685246,91.468788,97.965897

19.2330875,-1.365704,9.602996,-0.214756,9.702000,91.268356,98.094124

19.2354336,-1.332204,9.602996,-0.186042,9.696748,91.099342,97.898117

19.2377834,-1.332204,9.598209,-0.209970,9.692496,91.241302,97.902008

19.2401295,-1.341775,9.559925,-0.229113,9.656346,91.359566,97.989510

19.2424793,-1.346561,9.574282,-0.286541,9.672755,91.697548,98.005768

19.2448254,-1.375275,9.583853,-0.339183,9.687964,92.006378,98.166145

19.2471752,-1.389632,9.550353,-0.391825,9.658874,92.324913,98.278770

19.2495213,-1.427917,9.574282,-0.406182,9.688695,92.402733,98.482620

19.2518711,-1.418346,9.588638,-0.387039,9.700695,92.286598,98.414146

19.2542191,-1.418346,9.569496,-0.329611,9.679649,91.951416,98.430733

19.2565670,-1.456631,9.564711,-0.276969,9.678955,91.639778,98.659164

19.2589149,-1.447060,9.559925,-0.233898,9.671652,91.385773,98.607361

19.2612629,-1.442274,9.598209,-0.276969,9.709917,91.634544,98.545609

19.2636108,-1.380060,9.569496,-0.353540,9.674958,92.094154,98.206306

19.2659588,-1.423131,9.550353,-0.415753,9.664750,92.465477,98.475479

19.2683067,-1.456631,9.555139,-0.434896,9.675307,92.576256,98.667709

19.2706547,-1.504487,9.574282,-0.449252,9.702174,92.653992,98.930344

19.2730026,-1.470988,9.555139,-0.415753,9.676639,92.462448,98.751823

19.2753506,-1.466202,9.569496,-0.305683,9.685992,91.808517,98.710899

19.2777004,-1.427917,9.598209,-0.243470,9.706897,91.437248,98.461777

19.2800484,-1.418346,9.612567,-0.238684,9.719574,91.407158,98.393494

19.2823963,-1.389632,9.626924,-0.272184,9.730510,91.602898,98.213821

19.2847443,-1.360918,9.607781,-0.353540,9.710126,92.086563,98.062164

19.2870922,-1.332204,9.550353,-0.454038,9.653505,92.695816,97.941101

19.2894402,-1.279562,9.535996,-0.540180,9.636612,93.213394,97.642433

19.2917881,-1.279562,9.535996,-0.616750,9.641208,93.667725,97.642433

19.2941360,-1.250848,9.516854,-0.707677,9.624757,94.216576,97.487755

19.2964840,-1.226920,9.531211,-0.693320,9.634832,94.126556,97.335152

19.2988319,-1.260419,9.502497,-0.678963,9.609739,94.051537,97.555656

19.3011818,-1.260419,9.502497,-0.650250,9.607753,93.880730,97.555656

19.3035278,-1.308276,9.516854,-0.621536,9.626443,93.701904,97.827354

19.3058777,-1.313061,9.516854,-0.583251,9.624699,93.474213,97.855629

19.3082237,-1.341775,9.540782,-0.530608,9.649271,93.152252,98.005333

19.3105736,-1.351347,9.526425,-0.492323,9.634381,92.929131,98.073677

19.3129196,-1.341775,9.516854,-0.463609,9.622152,92.761665,98.025200

19.3152695,-1.308276,9.583853,-0.434896,9.682508,92.574341,97.773308

19.3176155,-1.274776,9.598209,-0.363111,9.689300,92.147690,97.565407

19.3199654,-1.269991,9.617352,-0.291326,9.705215,91.720131,97.522499

19.3223114,-1.289133,9.612567,-0.248255,9.701800,91.466278,97.638313

19.3246613,-1.231705,9.646067,-0.233898,9.727200,91.377853,97.276718

19.3270111,-1.207777,9.626924,-0.229113,9.705095,91.352737,97.150871

19.3293571,-1.246062,9.612567,-0.253041,9.696296,91.495399,97.385979

19.3317070,-1.246062,9.626924,-0.320040,9.712505,91.888313,97.375084

19.3340530,-1.250848,9.617352,-0.343968,9.704453,92.031242,97.410385

19.3364029,-1.327418,9.631709,-0.387039,9.730450,92.279602,97.846931

19.3387489,-1.365704,9.602996,-0.406182,9.708123,92.397919,98.094124

19.3410988,-1.375275,9.555139,-0.425324,9.662969,92.522743,98.190353

19.3434448,-1.442274,9.559925,-0.401396,9.676437,92.377411,98.579323

19.3457947,-1.499702,9.531211,-0.396610,9.656624,92.353874,98.941971

19.3481407,-1.547558,9.569496,-0.382253,9.701356,92.258156,99.186218

19.3504906,-1.581058,9.569496,-0.358325,9.705843,92.115753,99.381569

19.3528385,-1.614557,9.512068,-0.343968,9.654250,92.041809,99.633438

19.3551865,-1.638485,9.516854,-0.281755,9.660980,91.671227,99.768654

19.3575344,-1.648057,9.531211,-0.229113,9.675358,91.356895,99.810104

19.3598824,-1.619343,9.555139,-0.181256,9.693080,91.071465,99.618721

19.3622303,-1.609771,9.574282,-0.123829,9.709457,90.730736,99.544159

19.3645782,-1.595415,9.583853,-0.104686,9.716303,90.617332,99.451302

19.3669262,-1.528415,9.583853,-0.071186,9.705223,90.420258,99.061127

19.3692741,-1.418346,9.598209,-0.071186,9.702701,90.420372,98.405876

19.3716221,-1.403989,9.607781,-0.119043,9.710551,90.702415,98.313812

19.3739700,-1.317847,9.583853,-0.186042,9.675824,91.101723,97.829468

19.3763199,-1.236491,9.602996,-0.233898,9.685100,91.383850,97.337090

19.3786678,-1.202992,9.598209,-0.310469,9.678286,91.838303,97.143913

19.3810158,-1.159921,9.617352,-0.358325,9.693672,92.118416,96.877060

19.3833637,-1.088136,9.641280,-0.430110,9.712019,92.538254,96.439278

19.3857117,-1.092922,9.631709,-0.468395,9.704828,92.766403,96.473732

19.3880596,-1.068994,9.612567,-0.458824,9.682701,92.716034,96.345673

19.3904076,-1.083350,9.607781,-0.430110,9.678228,92.547119,96.433365

19.3927555,-1.035494,9.583853,-0.458824,9.650544,92.725090,96.166641

19.3951035,-1.054637,9.535996,-0.439681,9.604208,92.623924,96.310997

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19.4021473,-1.169492,9.478569,-0.501895,9.563622,93.008240,97.033760

19.4044971,-1.241277,9.430713,-0.482752,9.524293,92.905357,97.498207

19.4068432,-1.279562,9.435498,-0.449252,9.532456,92.701279,97.722855

19.4091930,-1.365704,9.421141,-0.415753,9.528687,92.500710,98.248230

19.4115391,-1.432703,9.497711,-0.434896,9.615004,92.592422,98.578232

19.4138889,-1.499702,9.502497,-0.430110,9.629723,92.559959,98.968552

19.4162350,-1.537987,9.492926,-0.449252,9.627194,92.674675,99.202751

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19.4373684,-1.523630,9.636495,-0.248255,9.759360,91.457626,98.984680

19.4397182,-1.475773,9.641280,-0.257827,9.756981,91.514206,98.702614

19.4420643,-1.423131,9.679565,-0.300897,9.788249,91.761589,98.363953

19.4444141,-1.375275,9.631709,-0.358325,9.735995,92.109200,98.126114

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19.4491100,-1.279562,9.588638,-0.420539,9.682774,92.489235,97.600967

19.4514561,-1.255634,9.545568,-0.458824,9.638723,92.728432,97.493721

19.4538059,-1.241277,9.550353,-0.401396,9.639042,92.386642,97.405327

19.4561539,-1.226920,9.579067,-0.353540,9.663791,92.096573,97.298897

19.4585018,-1.202992,9.569496,-0.233898,9.647651,91.389221,97.165131

19.4608498,-1.212563,9.588638,-0.209970,9.667284,91.244545,97.207268

19.4631977,-1.188635,9.607781,-0.267398,9.684721,91.582153,97.052559

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19.4819832,-1.384846,9.311071,-0.717249,9.440779,94.357155,98.459648

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19.4866791,-1.767698,9.100503,-0.678963,9.295424,94.188774,100.992348

19.4890270,-1.939981,9.038289,-0.717249,9.271927,94.436661,102.114182

19.4913750,-2.140978,8.933005,-0.769891,9.218194,94.790848,103.477882

19.4937229,-2.251048,8.928220,-0.793819,9.241779,94.927467,104.150902

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19.4984188,-2.380260,8.952147,-0.698106,9.289454,94.309860,104.889709

19.5007668,-2.332404,9.095717,-0.492323,9.402903,93.001305,104.382393

19.5031166,-2.212763,9.268001,-0.238684,9.531481,91.434929,103.428154

19.5054626,-2.016551,9.440284,0.043669,9.653359,89.740807,102.057808

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19.5125084,-1.083350,10.067204,0.938585,10.168736,84.704002,96.142067

19.5148544,-0.767498,10.263414,1.130010,10.353920,83.734344,94.276619

19.5172043,-0.403789,10.344770,1.268794,10.430108,83.012817,92.235298

19.5195503,-0.097508,10.397412,1.211366,10.468195,83.354919,90.537308

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19.5359879,0.242273,9.698709,0.426521,9.711105,87.482704,88.569054

19.5383377,-0.025723,9.588638,0.522234,9.602884,86.882545,90.153702

19.5406837,-0.279362,9.483355,0.603590,9.506649,86.359772,91.687340

19.5430336,-0.513859,9.382855,0.699302,9.422900,85.743988,93.134712

19.5453796,-0.738784,9.339785,0.866800,9.408970,84.714142,94.522720

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19.5524254,-1.308276,9.354142,0.933799,9.491235,84.353798,97.961777

19.5547733,-1.447060,9.411570,0.766301,9.552949,85.399002,98.740959

19.5571213,-1.537987,9.478569,0.550947,9.618327,86.716240,99.216454

19.5594692,-1.614557,9.617352,0.373879,9.759101,87.804420,99.529922

19.5618172,-1.667199,9.698709,0.244666,9.844002,88.575806,99.753769

19.5641651,-1.700699,9.751350,0.177667,9.900141,88.971718,99.893250

19.5665131,-1.715056,9.770494,0.220738,9.922333,88.725258,99.955940

19.5688610,-1.715056,9.818350,0.282951,9.971031,88.373878,99.908379

19.5712090,-1.662413,9.794421,0.297308,9.938949,88.285828,99.633049

19.5735569,-1.576272,9.727423,0.321236,9.859543,88.132904,99.204437

19.5759048,-1.456631,9.689137,0.340379,9.803928,88.010368,98.549622

19.5782547,-1.351347,9.727423,0.330808,9.826409,88.070763,97.908989

19.5806026,-1.250848,9.650852,0.316451,9.736720,88.137512,97.384941

19.5829506,-1.140778,9.693923,0.302094,9.765490,88.227280,96.711685

19.5852985,-1.068994,9.698709,0.316451,9.762573,88.142448,96.289764

19.5876465,-1.016351,9.679565,0.378664,9.740141,87.771973,95.994072

19.5899944,-0.982852,9.655638,0.455234,9.716202,87.314529,95.812149

19.5923424,-0.978066,9.655638,0.498305,9.717832,87.060730,95.784035

19.5946903,-0.939781,9.598209,0.479163,9.656004,87.155624,95.592125

19.5970383,-0.911067,9.574282,0.407378,9.626155,87.574524,95.435768

19.5993862,-0.887139,9.521640,0.273380,9.566786,88.362495,95.322929

19.6017361,-0.853639,9.559925,0.129811,9.598840,89.225136,95.102608

19.6040821,-0.863211,9.507282,0.014955,9.546401,89.910240,95.187927

19.6064320,-0.920639,9.535996,-0.047258,9.580451,90.282631,95.514442

19.6087780,-0.954138,9.521640,-0.047258,9.569443,90.282951,95.722351

19.6111279,-1.011566,9.512068,0.000598,9.565704,89.996414,96.070335

19.6134739,-1.092922,9.497711,0.101097,9.560922,89.394142,96.564278

19.6158237,-1.121636,9.507282,0.182453,9.574955,88.908150,96.728455

19.6181698,-1.174278,9.473783,0.220738,9.548834,88.675392,97.065788

19.6205196,-1.202992,9.478569,0.259023,9.558114,88.447105,97.233139

19.6228657,-1.236491,9.521640,0.230309,9.604352,88.625931,97.399086

19.6252155,-1.231705,9.555139,0.220738,9.636726,88.687477,97.345207

19.6275654,-1.241277,9.559925,0.168096,9.641639,89.001038,97.397995

19.6299114,-1.226920,9.555139,0.125025,9.634398,89.256454,97.316978

19.6322613,-1.222134,9.564711,0.115454,9.643165,89.314003,97.281532

19.6346073,-1.222134,9.622138,0.115454,9.700128,89.318031,97.238533

19.6369572,-1.183849,9.593424,0.148953,9.667340,89.117157,97.034859

19.6393032,-1.193420,9.598209,0.148953,9.673265,89.117699,97.087654

19.6416531,-1.145564,9.579067,0.158524,9.648625,89.058601,96.819633

19.6439991,-1.150349,9.593424,0.110668,9.662781,89.343773,96.837700

19.6463490,-1.150349,9.593424,0.148953,9.663295,89.116791,96.837700

19.6486950,-1.188635,9.564711,0.144168,9.639363,89.143044,97.083992

19.6510448,-1.212563,9.598209,0.215952,9.676909,88.721268,97.200157

19.6533909,-1.231705,9.617352,0.235095,9.698754,88.611031,97.298210

19.6557407,-1.241277,9.588638,0.292523,9.673073,88.267059,97.376083

19.6580887,-1.255634,9.583853,0.354736,9.672264,87.898170,97.464127

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19.6698284,-1.150349,9.593424,-0.047258,9.662263,90.280235,96.837700

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19.6745243,-1.140778,9.593424,-0.171685,9.662538,91.018089,96.781342

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19.6792221,-1.183849,9.598209,-0.133400,9.671862,90.790283,97.031387

19.6815701,-1.226920,9.588638,-0.119043,9.667548,90.705536,97.291695

19.6839180,-1.269991,9.598209,-0.066401,9.682093,90.392944,97.537331

19.6862659,-1.284348,9.574282,-0.085543,9.660421,90.507362,97.640366

19.6886139,-1.274776,9.602996,-0.095115,9.687705,90.562546,97.561676

19.6909618,-1.265205,9.588638,-0.128614,9.672605,90.761871,97.516663

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19.7003536,-1.150349,9.641280,-0.477966,9.721422,92.818161,96.804077

19.7027016,-1.112064,9.684352,-0.540180,9.762948,93.171768,96.550644

19.7050514,-1.135993,9.689137,-0.516252,9.769155,93.029213,96.687050

19.7073975,-1.179063,9.641280,-0.410967,9.721799,92.422775,96.972267

19.7097473,-1.222134,9.631709,-0.267398,9.712618,91.577606,97.231422

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19.7191391,-1.279562,9.588638,0.034098,9.673697,89.798042,97.600967

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19.7285309,-1.241277,9.622138,-0.209970,9.704144,91.239815,97.350685

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19.7332268,-1.246062,9.607781,-0.119043,9.688978,90.703979,97.389618

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19.7379227,-1.265205,9.588638,-0.066401,9.671977,90.393356,97.516663

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19.7426186,-1.255634,9.593424,-0.028116,9.675287,90.166496,97.456764

19.7449684,-1.217349,9.602996,0.005384,9.679851,89.968132,97.224709

19.7473145,-1.207777,9.622138,0.038883,9.697721,89.770271,97.154388

19.7496643,-1.183849,9.607781,0.010169,9.680448,89.939812,97.024452

19.7520103,-1.135993,9.583853,0.005384,9.650946,89.968040,96.759842

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19.7567081,-1.059422,9.626924,-0.023330,9.685070,90.138016,96.280006

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19.7614040,-1.049851,9.617352,-0.071186,9.674747,90.421585,96.229866

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19.7801895,-1.255634,9.660423,-0.363111,9.748448,92.134651,97.405624

19.7825375,-1.317847,9.646067,-0.444467,9.745812,92.613937,97.779594

19.7848854,-1.370489,9.622138,-0.406182,9.727732,92.393082,98.106163

19.7872334,-1.437488,9.626924,-0.324826,9.739074,91.911331,98.492638

19.7895813,-1.475773,9.564711,-0.209970,9.680170,91.242889,98.771202

19.7919292,-1.518844,9.593424,-0.133400,9.713828,90.786865,98.996475

19.7942772,-1.499702,9.617352,-0.052044,9.733719,90.306351,98.863152

19.7966251,-1.432703,9.607781,0.019741,9.714036,89.883560,98.481392

19.7989731,-1.399203,9.665209,0.053240,9.766109,89.687645,98.237312

19.8013210,-1.303490,9.665209,0.077169,9.753016,89.546654,97.680801

19.8036709,-1.212563,9.669994,0.034098,9.745781,89.799538,97.147263

19.8060169,-1.116850,9.674780,0.029312,9.739075,89.827553,96.585037

19.8083668,-1.102493,9.717851,-0.008973,9.780194,90.052567,96.472549

19.8107128,-0.978066,9.717851,-0.018544,9.766964,90.108788,95.747261

19.8130627,-0.949352,9.722636,-0.052044,9.769013,90.305244,95.576881

19.8154087,-0.877568,9.727423,-0.052044,9.767066,90.305305,95.155029

19.8177586,-0.872782,9.746565,-0.042473,9.785657,90.248680,95.117058

19.8201046,-0.848854,9.727423,-0.023330,9.764417,90.136894,94.987228

19.8224545,-0.839283,9.674780,0.038883,9.711193,89.770592,94.957970

19.8248005,-0.863211,9.669994,0.048455,9.708567,89.714043,95.101097

19.8271503,-0.877568,9.612567,0.072383,9.652814,89.570358,95.216293

19.8295002,-0.920639,9.607781,0.101097,9.652319,89.399879,95.473495

19.8318462,-0.915853,9.579067,0.096311,9.623232,89.426567,95.461441

19.8341961,-0.992423,9.545568,0.081954,9.597368,89.510735,95.935539

19.8365421,-1.021137,9.507282,0.072383,9.562237,89.566284,96.130394

19.8388920,-1.068994,9.483355,0.043669,9.543514,89.737823,96.431412

19.8412380,-1.092922,9.492926,0.024526,9.555664,89.852936,96.567558

19.8435879,-1.116850,9.445069,0.067597,9.511112,89.592781,96.743736

19.8459339,-1.169492,9.473783,0.053240,9.545843,89.680443,97.037277

19.8482838,-1.179063,9.497711,0.038883,9.570696,89.767220,97.076599

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19.8576756,-1.217349,9.521640,0.048455,9.599267,89.710785,97.285782

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20.4987011,-1.375275,9.535996,0.105882,9.635238,89.370361,98.206573

20.5010490,-1.375275,9.483355,0.110668,9.583196,89.338326,98.251503

20.5033970,-1.389632,9.521640,0.120239,9.623261,89.284088,98.303383

20.5057449,-1.380060,9.502497,0.105882,9.602772,89.368233,98.263367

20.5080948,-1.322633,9.512068,0.168096,9.605053,88.997231,97.916100

20.5104408,-1.289133,9.550353,0.144168,9.638044,89.142929,97.687477

20.5127907,-1.241277,9.516854,0.125025,9.598277,89.253654,97.431099

20.5151367,-1.236491,9.545568,0.125025,9.626131,89.255814,97.380745

20.5174866,-1.183849,9.540782,0.120239,9.614701,89.283455,97.073280

20.5198326,-1.164706,9.555139,0.125025,9.626674,89.255859,96.949684

20.5221825,-1.116850,9.583853,0.101097,9.649239,89.399689,96.646957

20.5245285,-1.088136,9.607781,0.134596,9.670140,89.202492,96.461540

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20.5292263,-1.135993,9.602996,0.067597,9.670190,89.599487,96.746490

20.5315742,-1.121636,9.602996,0.062812,9.668482,89.627777,96.661995

20.5339241,-1.159921,9.617352,0.038883,9.687125,89.770020,96.877060

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20.5433159,-1.265205,9.569496,-0.075972,9.653070,90.450935,97.531525

20.5456619,-1.303490,9.583853,-0.142971,9.673146,90.846878,97.745216

20.5480118,-1.279562,9.569496,-0.162114,9.656025,90.961975,97.615990

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20.5527077,-1.365704,9.588638,-0.296112,9.689934,91.751160,98.106079

20.5550537,-1.346561,9.588638,-0.343968,9.688835,92.034515,97.993942

20.5574036,-1.384846,9.564711,-0.324826,9.669902,91.925011,98.238434

20.5597515,-1.432703,9.593424,-0.257827,9.703241,91.522598,98.493896

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20.6184521,-1.260419,9.617352,-0.109472,9.700212,90.646622,97.466446

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20.6818523,-1.269991,9.622138,-0.176471,9.707191,91.041656,97.518799

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20.7006359,-1.341775,9.545568,0.077169,9.639719,89.541328,98.001373

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20.7429008,-1.308276,9.612567,-0.171685,9.702706,91.013878,97.750366

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20.9636211,-1.317847,9.602996,-0.315254,9.698125,91.862823,97.814056

20.9659691,-1.289133,9.636495,-0.348754,9.728593,92.054398,97.619568

20.9683170,-1.255634,9.655638,-0.353540,9.743354,92.079445,97.409248

20.9706650,-1.226920,9.646067,-0.358325,9.730382,92.110420,97.248741

20.9730129,-1.241277,9.646067,-0.353540,9.732028,92.081863,97.332649

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20.9777107,-1.207777,9.598209,-0.315254,9.679036,91.866501,97.172035

20.9800568,-1.222134,9.579067,-0.276969,9.660686,91.642876,97.270737

20.9824066,-1.212563,9.559925,-0.205185,9.638701,91.219780,97.228691

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21.0129299,-1.427917,9.617352,-0.152542,9.723975,90.898849,98.445183

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21.0199757,-1.356132,9.545568,-0.142971,9.642479,90.849571,98.085861

21.0223217,-1.365704,9.574282,-0.166899,9.672635,90.988678,98.118073

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21.0317154,-1.284348,9.598209,-0.238684,9.686700,91.411934,97.621544

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21.0434551,-1.557129,9.674780,-0.334397,9.804991,91.954437,99.143188

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21.0904179,-1.370489,9.607781,-0.224327,9.707627,91.324127,98.118118

21.0927658,-1.408774,9.617352,-0.233898,9.722799,91.378479,98.333565

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21.1021576,-1.447060,9.602996,-0.224327,9.714002,91.323257,98.569336

21.1045055,-1.461416,9.617352,-0.229113,9.730452,91.349205,98.640350

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21.1092014,-1.466202,9.593424,-0.205185,9.706988,91.211197,98.689507

21.1115494,-1.418346,9.607781,-0.214756,9.714283,91.266754,98.397621

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21.1162453,-1.432703,9.574282,-0.205185,9.683058,91.214195,98.510635

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21.1303349,-1.485345,9.555139,-0.166899,9.671338,90.988808,98.835899

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21.1843414,-1.408774,9.598209,-0.243470,9.704100,91.437668,98.349953

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21.1984291,-1.308276,9.631709,-0.229113,9.722855,91.350266,97.735153

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21.4308872,-1.279562,9.617352,-0.434896,9.711843,92.566559,97.578537

21.4332371,-1.313061,9.636495,-0.434896,9.735260,92.560379,97.759293

21.4355850,-1.346561,9.617352,-0.410967,9.719855,92.423256,97.970383

21.4379330,-1.380060,9.617352,-0.305683,9.720673,91.802063,98.166023

21.4402828,-1.394417,9.607781,-0.200399,9.710511,91.182518,98.257919

21.4426289,-1.375275,9.588638,-0.142971,9.687818,90.845589,98.162125

21.4449787,-1.327418,9.593424,-0.075972,9.685122,90.449448,97.877853

21.4473248,-1.308276,9.555139,-0.080758,9.644625,90.479759,97.796379

21.4496746,-1.298705,9.569496,-0.104686,9.657786,90.621071,97.728561

21.4520206,-1.260419,9.588638,-0.138186,9.672112,90.818611,97.488556

21.4543705,-1.260419,9.617352,-0.205185,9.701764,91.211853,97.466446

21.4567165,-1.260419,9.660423,-0.262612,9.745840,91.544083,97.433533

21.4590664,-1.269991,9.650852,-0.305683,9.738853,91.798698,97.496681

21.4614124,-1.274776,9.684352,-0.310469,9.772825,91.820511,97.498878

21.4637623,-1.317847,9.655638,-0.296112,9.749654,91.740425,97.771980

21.4661102,-1.327418,9.607781,-0.253041,9.702347,91.494469,97.866226

21.4684582,-1.365704,9.641280,-0.205185,9.739688,91.207130,98.062401

21.4708061,-1.370489,9.631709,-0.138186,9.729705,90.813766,98.098213

21.4731541,-1.399203,9.574282,-0.080758,9.676320,90.478188,98.314453

21.4755020,-1.437488,9.550353,-0.090329,9.658353,90.535866,98.559723

21.4778500,-1.418346,9.579067,-0.099900,9.684018,90.591072,98.422432

21.4801979,-1.442274,9.574282,-0.157328,9.683582,90.930916,98.566650

21.4825459,-1.427917,9.545568,-0.181256,9.653480,91.075867,98.507759

21.4848957,-1.447060,9.588638,-0.200399,9.699285,91.183884,98.581970

21.4872417,-1.451845,9.598209,-0.200399,9.709461,91.182640,98.601471

21.4895916,-1.432703,9.593424,-0.224327,9.702409,91.324837,98.493896

21.4919395,-1.432703,9.579067,-0.186042,9.687403,91.100403,98.506447

21.4942875,-1.432703,9.569496,-0.181256,9.677848,91.073158,98.514824

21.4966354,-1.432703,9.569496,-0.157328,9.677429,90.931511,98.514824

21.4989834,-1.413560,9.559925,-0.099900,9.664383,90.592278,98.410988

21.5013313,-1.370489,9.550353,-0.075972,9.648485,90.451149,98.166275

21.5036793,-1.375275,9.559925,-0.138186,9.659329,90.819695,98.186310

21.5060272,-1.341775,9.569496,-0.171685,9.664631,91.017868,97.981621

21.5083752,-1.336990,9.583853,-0.186042,9.678450,91.101425,97.941757

21.5107231,-1.336990,9.598209,-0.205185,9.693052,91.212936,97.930031

21.5130730,-1.370489,9.602996,-0.219541,9.702782,91.296524,98.122108

21.5154190,-1.332204,9.564711,-0.205185,9.659221,91.217186,97.929329

21.5177689,-1.403989,9.607781,-0.205185,9.711989,91.210571,98.313812

21.5201149,-1.413560,9.626924,-0.229113,9.732846,91.348877,98.353279

21.5224648,-1.418346,9.598209,-0.219541,9.704923,91.296234,98.405876

21.5248108,-1.442274,9.574282,-0.181256,9.684001,91.072472,98.566650

21.5271606,-1.485345,9.559925,-0.157328,9.675906,90.931656,98.831543

21.5295067,-1.475773,9.583853,-0.157328,9.698087,90.929527,98.753952

21.5318565,-1.475773,9.607781,-0.229113,9.723161,91.350220,98.732491

21.5342026,-1.475773,9.593424,-0.315254,9.711390,91.860283,98.745354

21.5365524,-1.499702,9.583853,-0.372682,9.707638,92.200157,98.893639

21.5389023,-1.499702,9.607781,-0.425324,9.733420,92.504471,98.871841

21.5412483,-1.485345,9.593424,-0.377468,9.715066,92.226723,98.801193

21.5435982,-1.528415,9.617352,-0.305683,9.742842,91.797958,99.030083

21.5459442,-1.504487,9.564711,-0.219541,9.684801,91.298927,98.939133

21.5482941,-1.494916,9.555139,-0.162114,9.672731,90.960312,98.891930

21.5506401,-1.490130,9.579067,-0.104686,9.694842,90.618698,98.842125

21.5529900,-1.466202,9.550353,-0.080758,9.662583,90.478874,98.728096

21.5553360,-1.427917,9.531211,-0.095115,9.638048,90.565445,98.520393

21.5576859,-1.427917,9.564711,-0.109472,9.671329,90.648560,98.490982

21.5600319,-1.380060,9.574282,-0.181256,9.674931,91.073479,98.202263

21.5623817,-1.408774,9.593424,-0.162114,9.697665,90.957848,98.354057

21.5647278,-1.380060,9.598209,-0.200399,9.698987,91.183922,98.182091

21.5670776,-1.389632,9.598209,-0.162114,9.699638,90.957649,98.238060

21.5694256,-1.413560,9.617352,-0.152542,9.721877,90.899048,98.361473

21.5717735,-1.432703,9.598209,-0.114257,9.705221,90.674545,98.489723

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21.5764694,-1.418346,9.602996,-0.056830,9.707340,90.335426,98.401741

21.5788174,-1.403989,9.598209,-0.099900,9.700866,90.590050,98.321983

21.5811653,-1.380060,9.583853,-0.123829,9.683498,90.732697,98.194176

21.5835133,-1.408774,9.574282,-0.200399,9.679446,91.186310,98.370522

21.5858612,-1.408774,9.622138,-0.209970,9.726987,91.236900,98.329475

21.5882111,-1.375275,9.622138,-0.238684,9.722854,91.406685,98.134094

21.5905590,-1.403989,9.598209,-0.267398,9.704036,91.579002,98.321983

21.5929070,-1.447060,9.612567,-0.262612,9.724422,91.547485,98.560928

21.5952549,-1.437488,9.569496,-0.243470,9.679923,91.441254,98.542847

21.5976028,-1.475773,9.540782,-0.209970,9.656528,91.245926,98.792854

21.5999508,-1.499702,9.564711,-0.166899,9.683008,90.987617,98.911156

21.6022987,-1.514058,9.555139,-0.152542,9.675552,90.903351,99.003937

21.6046467,-1.475773,9.555139,-0.123829,9.669226,90.733780,98.779854

21.6069946,-1.480559,9.555139,-0.109472,9.669784,90.648659,98.807877

21.6093426,-1.499702,9.550353,-0.128614,9.668242,90.762215,98.924339

21.6116905,-1.470988,9.555139,-0.085543,9.668081,90.506958,98.751823

21.6140385,-1.427917,9.588638,-0.090329,9.694798,90.533852,98.470100

21.6163883,-1.418346,9.583853,-0.095115,9.688704,90.562485,98.418282

21.6187344,-1.389632,9.583853,-0.090329,9.684496,90.534416,98.250229

21.6210842,-1.351347,9.593424,-0.109472,9.688752,90.647392,98.018028

21.6234303,-1.370489,9.598209,-0.085543,9.695936,90.505501,98.126106

21.6257801,-1.356132,9.607781,-0.075972,9.703316,90.448601,98.034187

21.6281261,-1.365704,9.598209,-0.066401,9.695111,90.392418,98.098106

21.6304760,-1.356132,9.593424,-0.071186,9.689063,90.420959,98.046059

21.6328220,-1.389632,9.583853,-0.023330,9.684103,90.138031,98.250229

21.6351719,-1.389632,9.535996,-0.018544,9.636734,90.110260,98.291061

21.6375217,-1.413560,9.559925,-0.023330,9.663895,90.138321,98.410988

21.6398678,-1.442274,9.545568,0.038883,9.653990,89.769226,98.592033

21.6422176,-1.437488,9.516854,0.048455,9.624928,89.711555,98.589401

21.6445637,-1.499702,9.507282,0.029312,9.624884,89.825508,98.964111

21.6469135,-1.518844,9.512068,0.038883,9.632644,89.768715,99.072144

21.6492596,-1.499702,9.550353,0.024526,9.667418,89.854637,98.924339

21.6516094,-1.490130,9.564711,-0.008973,9.680097,90.053108,98.855186

21.6539555,-1.480559,9.564711,-0.032901,9.678679,90.194771,98.799202

21.6563053,-1.494916,9.555139,-0.099900,9.671888,90.591812,98.891930

21.6586514,-1.480559,9.564711,-0.123829,9.679415,90.733002,98.799202

21.6610012,-1.466202,9.579067,-0.099900,9.691143,90.590637,98.702332

21.6633472,-1.437488,9.602996,-0.142971,9.711042,90.843567,98.513489

21.6656971,-1.423131,9.617352,-0.205185,9.724241,91.209045,98.417282

21.6680450,-1.384846,9.569496,-0.257827,9.672618,91.527420,98.234375

21.6703930,-1.403989,9.588638,-0.253041,9.694184,91.495728,98.330177

21.6727409,-1.413560,9.593424,-0.267398,9.700693,91.579552,98.382034

21.6750889,-1.427917,9.550353,-0.257827,9.659952,91.529419,98.503563

21.6774368,-1.413560,9.583853,-0.224327,9.690135,91.326515,98.390289

21.6797848,-1.432703,9.598209,-0.243470,9.707603,91.437149,98.489723

21.6821327,-1.475773,9.602996,-0.253041,9.719027,91.491898,98.736778

21.6844807,-1.461416,9.593424,-0.257827,9.707522,91.521927,98.661575

21.6868305,-1.470988,9.602996,-0.262612,9.718554,91.548424,98.708878

21.6891766,-1.475773,9.588638,-0.257827,9.704967,91.522324,98.749657

21.6915264,-1.490130,9.598209,-0.253041,9.716489,91.492287,98.824768

21.6938744,-1.499702,9.631709,-0.262612,9.751302,91.543221,98.850151

21.6962223,-1.499702,9.617352,-0.200399,9.735642,91.179459,98.863152

21.6985703,-1.490130,9.612567,-0.147757,9.728503,90.870247,98.811798

21.7009182,-1.461416,9.622138,-0.133400,9.733399,90.785286,98.636116

21.7032661,-1.437488,9.593424,-0.133400,9.701441,90.787872,98.521858

21.7056141,-1.427917,9.579067,-0.157328,9.686188,90.930672,98.478439

21.7079620,-1.384846,9.564711,-0.114257,9.665120,90.677345,98.238434

21.7103100,-1.375275,9.564711,-0.099900,9.663594,90.592323,98.182266

21.7126579,-1.384846,9.579067,-0.119043,9.679385,90.704674,98.226257

21.7150078,-1.351347,9.545568,-0.123829,9.641542,90.735886,98.057701

21.7173538,-1.327418,9.569496,-0.157328,9.662404,90.932961,97.897301

21.7197037,-1.332204,9.602996,-0.233898,9.697783,91.382034,97.898117

21.7220497,-1.322633,9.588638,-0.214756,9.681811,91.271004,97.853676

21.7243996,-1.332204,9.579067,-0.229113,9.673975,91.357086,97.917595

21.7267456,-1.360918,9.583853,-0.233898,9.682822,91.384171,98.082031

21.7290955,-1.380060,9.574282,-0.181256,9.674931,91.073479,98.202263

21.7314415,-1.389632,9.569496,-0.171685,9.671391,91.017159,98.262436

21.7337914,-1.461416,9.579067,-0.162114,9.691261,90.958481,98.674362

21.7361374,-1.442274,9.583853,-0.205185,9.693941,91.212830,98.558220

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21.7408371,-1.475773,9.574282,-0.267398,9.691041,91.581123,98.762573

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21.7502289,-1.499702,9.555139,-0.233898,9.674941,91.385300,98.919937

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21.7596207,-1.423131,9.579067,-0.310469,9.689180,91.836235,98.450439

21.7619667,-1.403989,9.569496,-0.329611,9.677556,91.951836,98.346603

21.7643166,-1.399203,9.593424,-0.300897,9.699593,91.777695,98.298096

21.7666645,-1.351347,9.559925,-0.296112,9.659503,91.756676,98.045761

21.7690125,-1.346561,9.602996,-0.286541,9.701179,91.692574,97.982140

21.7713604,-1.341775,9.602996,-0.238684,9.699220,91.410110,97.954140

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21.7760563,-1.356132,9.598209,-0.253041,9.696842,91.495316,98.042099

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21.7901459,-1.509273,9.598209,-0.458824,9.726975,92.703659,98.936317

21.7924938,-1.542772,9.588638,-0.367896,9.718924,92.169373,99.140320

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21.7971897,-1.557129,9.569496,-0.276969,9.699310,91.636337,99.242058

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21.8018856,-1.561915,9.569496,-0.200399,9.698195,91.184013,99.269966

21.8042336,-1.509273,9.607781,-0.181256,9.727293,91.067696,98.927559

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21.8793716,-1.408774,9.555139,-0.147757,9.659563,90.876457,98.387054

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21.8887634,-1.360918,9.574282,-0.176471,9.672131,91.045433,98.090004

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21.8934612,-1.380060,9.602996,-0.171685,9.703173,91.013824,98.178062

21.8958092,-1.384846,9.593424,-0.181256,9.694557,91.071304,98.214119

21.8981571,-1.375275,9.602996,-0.233898,9.703794,91.381180,98.150085

21.9005051,-1.356132,9.598209,-0.276969,9.697496,91.636642,98.042099

21.9028530,-1.360918,9.622138,-0.267398,9.721581,91.576157,98.050301

21.9052010,-1.389632,9.617352,-0.305683,9.722036,91.801811,98.221886

21.9075489,-1.413560,9.593424,-0.315254,9.702130,91.862061,98.382034

21.9098969,-1.403989,9.598209,-0.253041,9.703651,91.494263,98.321983

21.9122448,-1.470988,9.593424,-0.253041,9.708842,91.493469,98.717430

21.9145927,-1.437488,9.602996,-0.238684,9.712923,91.408119,98.513489

21.9169426,-1.480559,9.602996,-0.200399,9.718526,91.181541,98.764664

21.9192886,-1.456631,9.583853,-0.219541,9.696402,91.297379,98.642128

21.9216385,-1.451845,9.564711,-0.186042,9.676062,91.101692,98.631149

21.9239845,-1.442274,9.583853,-0.200399,9.693841,91.184547,98.558220

21.9263344,-1.432703,9.574282,-0.200399,9.682958,91.185883,98.510635

21.9286804,-1.432703,9.598209,-0.209970,9.706820,91.239471,98.489723

21.9310303,-1.423131,9.588638,-0.152542,9.694873,90.901550,98.442123

21.9333763,-1.380060,9.602996,-0.176471,9.703259,91.042084,98.178062

21.9357262,-1.351347,9.593424,-0.162114,9.689489,90.958656,98.018028

21.9380722,-1.346561,9.574282,-0.171685,9.670034,91.017303,98.005768

21.9404221,-1.341775,9.555139,-0.147757,9.650020,90.877319,97.993462

21.9427719,-1.341775,9.574282,-0.104686,9.668412,90.620392,97.977684

21.9451180,-1.380060,9.535996,-0.028116,9.635382,90.167191,98.234741

21.9474678,-1.327418,9.545568,0.005384,9.637424,89.967995,97.916847

21.9498138,-1.341775,9.550353,0.048455,9.644271,89.712135,97.997414

21.9521637,-1.322633,9.521640,0.053240,9.613211,89.682678,97.908241

21.9545097,-1.317847,9.555139,0.072383,9.645861,89.570045,97.852707

21.9568596,-1.322633,9.545568,0.067597,9.637001,89.598106,97.888664

21.9592056,-1.332204,9.559925,0.062812,9.652506,89.627159,97.933250

21.9615555,-1.303490,9.579067,0.010169,9.667354,89.939728,97.749039

21.9639015,-1.327418,9.583853,0.000598,9.675344,89.996460,97.885620

21.9662514,-1.327418,9.574282,-0.018544,9.665881,90.109924,97.893410

21.9685993,-1.332204,9.593424,-0.052044,9.685621,90.307869,97.905899

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21.9756432,-1.336990,9.545568,-0.104686,9.639313,90.622261,97.973206

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21.9803391,-1.332204,9.579067,-0.142971,9.672318,90.846947,97.917595

21.9826870,-1.346561,9.622138,-0.186042,9.717684,91.096977,97.966469

21.9850349,-1.360918,9.569496,-0.229113,9.668497,91.357857,98.093994

21.9873829,-1.418346,9.588638,-0.296112,9.697494,91.749794,98.414146

21.9897308,-1.389632,9.593424,-0.286541,9.697782,91.693169,98.242111

21.9920788,-1.413560,9.617352,-0.305683,9.725486,91.801170,98.361473

21.9944286,-1.389632,9.593424,-0.281755,9.697641,91.664902,98.242111

21.9967766,-1.413560,9.583853,-0.224327,9.690135,91.326515,98.390289

21.9991245,-1.423131,9.564711,-0.248255,9.673191,91.470619,98.462936

22.0014725,-1.432703,9.593424,-0.219541,9.702299,91.296585,98.493896

22.0038204,-1.456631,9.617352,-0.238684,9.729964,91.405655,98.612480

22.0061684,-1.475773,9.602996,-0.233898,9.718547,91.379082,98.736778

22.0085163,-1.490130,9.588638,-0.209970,9.706007,91.239578,98.833435

22.0108643,-1.466202,9.559925,-0.195613,9.673685,91.158669,98.719490

22.0132122,-1.470988,9.588638,-0.190828,9.702690,91.126938,98.721718

22.0155621,-1.480559,9.626924,-0.209970,9.742372,91.234947,98.743217

22.0179081,-1.442274,9.593424,-0.190828,9.703111,91.126884,98.549805

22.0202579,-1.432703,9.588638,-0.186042,9.696867,91.099335,98.498077

22.0226040,-1.418346,9.588638,-0.190828,9.694849,91.127846,98.414146

22.0249538,-1.427917,9.569496,-0.152542,9.676646,90.903244,98.486801

22.0272999,-1.475773,9.607781,-0.157328,9.721735,90.927269,98.732491

22.0296497,-1.470988,9.583853,-0.119043,9.696815,90.703407,98.726006

22.0319958,-1.475773,9.579067,-0.095115,9.692548,90.562263,98.758263

22.0343456,-1.494916,9.579067,-0.061615,9.695210,90.364128,98.870071

22.0366917,-1.485345,9.535996,-0.023330,9.651011,90.138504,98.853355

22.0390415,-1.470988,9.545568,0.000598,9.658243,89.996452,98.760460

22.0413876,-1.490130,9.540782,0.053240,9.656596,89.684105,98.877045

22.0437374,-1.485345,9.545568,0.058026,9.660614,89.655853,98.844620

22.0460873,-1.451845,9.526425,0.062812,9.636627,89.626541,98.665306

22.0484333,-1.461416,9.545568,0.067597,9.657026,89.598938,98.704338

22.0507832,-1.485345,9.535996,0.067597,9.651219,89.598694,98.853355

22.0531292,-1.490130,9.512068,0.053240,9.628227,89.683174,98.903412

22.0554790,-1.480559,9.516854,-0.032901,9.631389,90.195724,98.842751

22.0578251,-1.499702,9.583853,-0.037687,9.700555,90.222595,98.893639

22.0601749,-1.490130,9.555139,-0.075972,9.670933,90.450104,98.863914

22.0625210,-1.466202,9.559925,-0.047258,9.671823,90.279961,98.719490

22.0648708,-1.494916,9.535996,-0.128614,9.653317,90.763390,98.909492

22.0672169,-1.504487,9.507282,-0.138186,9.626577,90.822487,98.992249

22.0695667,-1.418346,9.569496,-0.229113,9.676748,91.356697,98.430733

22.0719147,-1.427917,9.588638,-0.272184,9.698196,91.608238,98.470100

22.0742626,-1.432703,9.588638,-0.296112,9.699603,91.749413,98.498077

22.0766106,-1.475773,9.650852,-0.291326,9.767381,91.709183,98.694115

22.0789585,-1.504487,9.622138,-0.248255,9.742209,91.460197,98.886635

22.0813065,-1.518844,9.602996,-0.195613,9.724334,91.152634,98.987656

22.0836544,-1.499702,9.588638,-0.181256,9.706902,91.069939,98.889275

22.0860023,-1.514058,9.593424,-0.209970,9.714435,91.238503,98.968590

22.0883503,-1.475773,9.559925,-0.276969,9.677127,91.640091,98.775528

22.0906982,-1.427917,9.631709,-0.415753,9.745852,92.444954,98.432770

22.0930481,-1.423131,9.674780,-0.540180,9.793797,93.161774,98.368027

22.0953941,-1.509273,9.665209,-0.602393,9.800870,93.523804,98.875359

22.0977440,-1.585843,9.674780,-0.535394,9.818499,93.125839,99.308868

22.1000919,-1.700699,9.626924,-0.310469,9.780922,91.819008,100.018539

22.1024399,-1.734198,9.583853,-0.099900,9.740003,90.587677,100.256691

22.1047878,-1.762912,9.550353,0.000598,9.711699,89.996468,100.458572

22.1071358,-1.671985,9.545568,-0.008973,9.690896,90.053055,99.935043

22.1094837,-1.576272,9.521640,-0.071186,9.651494,90.422600,99.399849

22.1118317,-1.523630,9.497711,-0.190828,9.621038,91.136505,99.113777

22.1141796,-1.437488,9.540782,-0.253041,9.651784,91.502296,98.568176

22.1165276,-1.380060,9.535996,-0.276969,9.639320,91.646523,98.234741

22.1188774,-1.332204,9.583853,-0.305683,9.680829,91.809479,97.913689

22.1212234,-1.308276,9.569496,-0.267398,9.662212,91.585838,97.784821

22.1235733,-1.279562,9.598209,-0.248255,9.686306,91.468620,97.593475

22.1259193,-1.269991,9.622138,-0.248255,9.708761,91.465225,97.518799

22.1282692,-1.289133,9.617352,-0.310469,9.708333,91.832611,97.634560

22.1306152,-1.303490,9.598209,-0.339183,9.692252,92.005486,97.733772

22.1329651,-1.336990,9.631709,-0.353540,9.730486,92.082199,97.902802

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22.1376610,-1.351347,9.626924,-0.382253,9.728819,92.251778,97.990494

22.1400070,-1.413560,9.588638,-0.382253,9.699807,92.258514,98.386162

22.1423569,-1.456631,9.583853,-0.363111,9.700714,92.145157,98.642128

22.1447048,-1.475773,9.564711,-0.358325,9.684524,92.120415,98.771202

22.1470528,-1.518844,9.540782,-0.329611,9.666543,91.954056,99.045296

22.1494026,-1.561915,9.545568,-0.348754,9.678795,92.064972,99.292801

22.1517487,-1.590629,9.550353,-0.387039,9.689641,92.289207,99.455917

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22.1611404,-1.604986,9.574282,-0.377468,9.715211,92.226692,99.516304

22.1634903,-1.561915,9.555139,-0.377468,9.689310,92.232643,99.283653

22.1658363,-1.557129,9.564711,-0.363111,9.697433,92.145889,99.246597

22.1681862,-1.528415,9.569496,-0.391825,9.698703,92.315361,99.074493

22.1705341,-1.485345,9.569496,-0.410967,9.692801,92.430023,98.822853

22.1728821,-1.475773,9.574282,-0.415753,9.696269,92.457458,98.762573

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22.1799259,-1.408774,9.593424,-0.363111,9.703107,92.144630,98.354057

22.1822739,-1.403989,9.588638,-0.358325,9.697503,92.117577,98.330177

22.1846218,-1.456631,9.631709,-0.339183,9.747135,91.994194,98.599838

22.1869698,-1.480559,9.617352,-0.353540,9.737069,92.080788,98.751785

22.1893177,-1.485345,9.598209,-0.401396,9.720751,92.366570,98.796875

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22.1940136,-1.494916,9.602996,-0.430110,9.728170,92.534035,98.848320

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22.2245388,-1.370489,9.665209,-0.501895,9.774784,92.943192,98.070518

22.2268887,-1.356132,9.660423,-0.492323,9.767562,92.889153,97.990974

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22.2315845,-1.336990,9.655638,-0.391825,9.755634,92.301842,97.883461

22.2339306,-1.365704,9.626924,-0.343968,9.729395,92.026031,98.074272

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22.2527180,-1.169492,9.636495,0.110668,9.707831,89.346825,96.919617

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22.2855892,-1.322633,9.550353,-0.114257,9.642181,90.678955,97.884766

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22.3442917,-1.222134,9.607781,-0.219541,9.687687,91.298546,97.249237

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22.3607292,-1.231705,9.607781,-0.300897,9.691084,91.779259,97.305397

22.3630753,-1.236491,9.622138,-0.286541,9.705491,91.691818,97.322655

22.3654251,-1.193420,9.636495,-0.272184,9.713926,91.605637,97.059784

22.3677711,-1.231705,9.612567,-0.243470,9.694216,91.439133,97.301804

22.3701210,-1.222134,9.607781,-0.233898,9.688023,91.383430,97.249237

22.3724689,-1.202992,9.602996,-0.229113,9.680765,91.356133,97.140388

22.3748169,-1.222134,9.636495,-0.166899,9.715117,90.984352,97.227867

22.3771648,-1.222134,9.636495,-0.171685,9.715200,91.012573,97.227867

22.3795128,-1.188635,9.641280,-0.186042,9.716056,91.097160,97.028297

22.3818607,-1.198206,9.588638,-0.253041,9.666526,91.500008,97.122818

22.3842087,-1.222134,9.612567,-0.291326,9.694324,91.722069,97.245667

22.3865566,-1.174278,9.612567,-0.281755,9.688125,91.666542,96.964783

22.3889046,-1.174278,9.626924,-0.329611,9.703877,91.946541,96.954498

22.3912525,-1.150349,9.650852,-0.276969,9.723115,91.632332,96.797394

22.3936005,-1.164706,9.646067,-0.243470,9.719178,91.435432,96.884804

22.3959484,-1.150349,9.631709,-0.176471,9.701766,91.042244,96.810776

22.3982983,-1.193420,9.622138,-0.099900,9.696380,90.590317,97.070206

22.4006443,-1.155135,9.569496,-0.008973,9.638967,90.053337,96.882881

22.4029942,-1.159921,9.579067,0.081954,9.649386,89.513367,96.904282

22.4053421,-1.131207,9.555139,0.125025,9.622679,89.255547,96.751663

22.4076900,-1.102493,9.526425,0.091525,9.590446,89.453194,96.601471

22.4100380,-1.083350,9.550353,0.062812,9.611807,89.625580,96.471718

22.4123859,-1.064208,9.579067,0.000598,9.638001,89.996445,96.339409

22.4147339,-1.021137,9.588638,-0.032901,9.642914,90.195488,96.078773

22.4170818,-1.078565,9.579067,-0.042473,9.639690,90.252449,96.424217

22.4194317,-1.073779,9.593424,-0.056830,9.653498,90.337296,96.386459

22.4217777,-1.092922,9.607781,-0.090329,9.670165,90.535210,96.489716

22.4241276,-1.140778,9.626924,-0.052044,9.694418,90.307587,96.757965

22.4264736,-1.126421,9.617352,-0.013759,9.683103,90.081413,96.680267

22.4288235,-1.145564,9.617352,-0.018544,9.685356,90.109703,96.792740

22.4311695,-1.135993,9.588638,-0.004187,9.655697,90.024849,96.756493

22.4335194,-1.174278,9.559925,0.010169,9.631781,89.939507,97.002754

22.4358654,-1.169492,9.555139,0.024526,9.626473,89.854019,96.977959

22.4382153,-1.131207,9.569496,0.058026,9.636299,89.654984,96.741631

22.4405613,-1.145564,9.579067,0.067597,9.647560,89.598541,96.819633

22.4429111,-1.126421,9.545568,0.043669,9.611898,89.739693,96.730042

22.4452572,-1.155135,9.555139,0.019741,9.624728,89.882484,96.893120

22.4476070,-1.179063,9.507282,0.019741,9.580135,89.881935,97.069550

22.4499550,-1.159921,9.579067,-0.004187,9.649039,90.024864,96.904282

22.4523029,-1.145564,9.598209,-0.008973,9.666335,90.053185,96.806160

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22.4569988,-1.135993,9.622138,-0.056830,9.689131,90.336060,96.733192

22.4593487,-1.131207,9.598209,-0.047258,9.664755,90.280167,96.721649

22.4616947,-1.193420,9.598209,-0.066401,9.672347,90.393341,97.087654

22.4640446,-1.198206,9.602996,-0.052044,9.677600,90.308128,97.112274

22.4663906,-1.212563,9.588638,-0.061615,9.665200,90.365257,97.207268

22.4687405,-1.198206,9.579067,-0.056830,9.653883,90.337288,97.129860

22.4710884,-1.217349,9.602996,-0.104686,9.680414,90.619621,97.224709

22.4734364,-1.202992,9.579067,-0.147757,9.655441,90.876831,97.158043

22.4757843,-1.255634,9.583853,-0.114257,9.666431,90.677254,97.464127

22.4781322,-1.207777,9.602996,-0.109472,9.679269,90.648026,97.168503

22.4804802,-1.198206,9.607781,-0.090329,9.682630,90.534515,97.108772

22.4828281,-1.150349,9.583853,-0.028116,9.652685,90.166885,96.844467

22.4851761,-1.126421,9.598209,-0.037687,9.664154,90.223434,96.693466

22.4875240,-1.126421,9.583853,-0.052044,9.649961,90.309006,96.703407

22.4898720,-1.107279,9.607781,-0.066401,9.671605,90.393372,96.574226

22.4922199,-1.097707,9.559925,-0.104686,9.623309,90.623299,96.550232

22.4945679,-1.097707,9.593424,-0.090329,9.656444,90.535965,96.527557

22.4969177,-1.140778,9.598209,-0.114257,9.666440,90.677254,96.777992

22.4992638,-1.155135,9.602996,-0.109472,9.672841,90.648453,96.859100

22.5016136,-1.188635,9.598209,-0.119043,9.672261,90.705193,97.059525

22.5039597,-1.246062,9.593424,-0.119043,9.674742,90.705017,97.400551

22.5063095,-1.260419,9.602996,-0.123829,9.686151,90.732491,97.477486

22.5086575,-1.250848,9.607781,-0.142971,9.689919,90.845406,97.417679

22.5110054,-1.265205,9.622138,-0.123829,9.705752,90.731018,97.490791

22.5133533,-1.284348,9.622138,-0.095115,9.707942,90.561371,97.602806

22.5157013,-1.284348,9.593424,-0.099900,9.679531,90.591347,97.625298

22.5180492,-1.241277,9.588638,-0.075972,9.668947,90.450195,97.376083

22.5203972,-1.260419,9.593424,-0.095115,9.676336,90.563202,97.484863

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22.5250931,-1.222134,9.564711,-0.037687,9.642548,90.223938,97.281532

22.5274429,-1.198206,9.607781,-0.071186,9.682470,90.421249,97.108772

22.5297890,-1.222134,9.626924,-0.080758,9.704524,90.476799,97.234978

22.5321388,-1.222134,9.598209,-0.099900,9.676219,90.591553,97.256386

22.5344849,-1.207777,9.617352,-0.095115,9.693360,90.562218,97.157913

22.5368347,-1.198206,9.598209,-0.095115,9.673178,90.563385,97.115784

22.5391808,-1.231705,9.588638,-0.090329,9.667846,90.535339,97.319824

22.5415306,-1.231705,9.607781,-0.066401,9.686639,90.392761,97.305397

22.5438766,-1.226920,9.617352,-0.037687,9.695371,90.222717,97.270157

22.5462265,-1.265205,9.602996,-0.032901,9.686039,90.194618,97.505554

22.5485744,-1.241277,9.583853,-0.071186,9.664165,90.422043,97.379723

22.5509224,-1.236491,9.564711,-0.109472,9.644925,90.650330,97.366135

22.5532703,-1.269991,9.598209,-0.123829,9.682656,90.732758,97.537331

22.5556183,-1.279562,9.617352,-0.128614,9.702952,90.759483,97.578537

22.5579681,-1.293919,9.602996,-0.138186,9.690762,90.817039,97.673882

22.5603142,-1.327418,9.617352,-0.123829,9.709317,90.730743,97.858498

22.5626640,-1.322633,9.593424,-0.109472,9.684789,90.647652,97.849808

22.5650101,-1.308276,9.602996,-0.095115,9.692170,90.562286,97.757996

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22.5767517,-1.226920,9.593424,-0.195613,9.673540,91.158684,97.288094

22.5790997,-1.265205,9.617352,-0.238684,9.703154,91.409538,97.494476

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22.5837955,-1.083350,9.861421,-0.147757,9.921849,90.853287,96.269226

22.5861435,-0.954138,10.024133,-0.056830,10.069600,90.323357,95.437263

22.5884914,-1.121636,9.880563,-0.152542,9.945192,90.878853,96.476456

22.5908394,-1.485345,9.646067,-0.296112,9.764248,91.737823,98.753906

22.5931873,-1.834697,9.468997,-0.449252,9.655560,92.666809,100.965652

22.5955372,-2.030908,9.459426,-0.530608,9.689524,93.139145,102.117271

22.5978832,-2.093122,9.574282,-0.544965,9.815550,93.182732,102.331932

22.6002331,-1.992623,9.689137,-0.540180,9.906651,93.125717,101.621155

22.6025791,-1.877768,9.760921,-0.602393,9.958137,93.468086,100.889305

22.6049290,-1.624128,9.693923,-0.779462,9.859894,94.534180,99.511047

22.6072750,-1.236491,9.574282,-0.760319,9.683691,94.503242,97.358856

22.6096249,-0.805783,9.483355,-0.578465,9.535089,93.478096,94.856651

22.6119728,-0.489930,9.483355,-0.367896,9.503125,92.218658,92.957390

22.6143208,-0.308076,9.531211,-0.133400,9.537121,90.801445,91.851318

22.6166687,-0.274576,9.631709,-0.013759,9.635633,90.081810,91.632919

22.6190166,-0.408574,9.669994,-0.008973,9.678626,90.053116,92.419411

22.6213665,-0.772283,9.679565,-0.095115,9.710791,90.561203,94.561676

22.6237125,-1.179063,9.722636,-0.200399,9.795918,91.172203,96.914490

22.6260624,-1.600200,9.679565,-0.262612,9.814458,91.533287,99.387085

22.6284084,-1.906481,9.693923,-0.425324,9.888767,92.465103,101.126228

22.6307583,-1.992623,9.760921,-0.387039,9.969751,92.224861,101.537994

22.6331043,-1.954338,9.713065,-0.339183,9.913532,91.960709,101.376419

22.6354542,-1.825125,9.669994,-0.276969,9.844623,91.612175,100.688339

22.6378002,-1.633700,9.626924,-0.276969,9.768488,91.624741,99.631401

22.6401501,-1.399203,9.569496,-0.233898,9.674075,91.385422,98.318550

22.6424961,-1.217349,9.526425,-0.095115,9.604362,90.567429,97.282158

22.6448460,-1.035494,9.492926,0.029312,9.549280,89.824127,96.225243

22.6471939,-0.978066,9.473783,0.058026,9.524314,89.650932,95.894295

22.6495419,-0.920639,9.488140,0.139382,9.533719,89.162315,95.542084

22.6518898,-0.944567,9.516854,0.120239,9.564370,89.279678,95.668159

22.6542377,-0.973281,9.531211,0.043669,9.580874,89.738846,95.830551

22.6565857,-1.059422,9.579067,0.029312,9.637519,89.825737,96.311127

22.6589336,-1.140778,9.588638,-0.028116,9.656301,90.166824,96.784691

22.6612835,-1.217349,9.593424,-0.028116,9.670394,90.166580,97.231842

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22.6659794,-1.322633,9.526425,0.014955,9.617815,89.910912,97.904320

22.6683254,-1.389632,9.507282,0.072383,9.608576,89.568375,98.315750

22.6706753,-1.394417,9.545568,0.115454,9.647569,89.314316,98.310989

22.6730232,-1.437488,9.579067,0.163310,9.687702,89.034096,98.534439

22.6753712,-1.447060,9.598209,0.220738,9.709188,88.697273,98.573540

22.6777191,-1.423131,9.612567,0.211167,9.719637,88.755104,98.421410

22.6800671,-1.413560,9.636495,0.168096,9.741070,89.011230,98.345100

22.6824150,-1.360918,9.665209,0.072383,9.760819,89.575111,98.014893

22.6847630,-1.308276,9.646067,-0.023330,9.734409,90.137321,97.723778

22.6871109,-1.284348,9.612567,-0.047258,9.698105,90.279198,97.610291

22.6894588,-1.260419,9.593424,-0.042473,9.675961,90.251503,97.484863

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22.6941547,-1.102493,9.569496,0.048455,9.632917,89.711792,96.572021

22.6965027,-1.116850,9.531211,0.077169,9.596733,89.539276,96.683334

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22.7011986,-1.068994,9.535996,0.067597,9.595964,89.596382,96.396202

22.7035484,-1.073779,9.545568,0.038883,9.605851,89.768074,96.418213

22.7058945,-1.088136,9.588638,0.029312,9.650228,89.825966,96.474335

22.7082443,-1.107279,9.612567,-0.042473,9.676224,90.251495,96.570984

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22.7270279,-1.346561,9.574282,-0.099900,9.669026,90.591988,98.005768

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22.7340736,-1.389632,9.569496,-0.032901,9.669923,90.194946,98.262436

22.7364197,-1.394417,9.559925,-0.028116,9.661126,90.166740,98.298683

22.7387695,-1.380060,9.564711,-0.061615,9.663957,90.365311,98.210358

22.7411156,-1.341775,9.569496,-0.114257,9.663781,90.677437,97.981621

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22.7458115,-1.360918,9.602996,-0.090329,9.699370,90.533600,98.066132

22.7481613,-1.303490,9.631709,-0.061615,9.719707,90.363213,97.707199

22.7505093,-1.317847,9.622138,-0.075972,9.712262,90.448189,97.798706

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22.7692947,-0.863211,9.827921,0.373879,9.872839,87.829727,95.019547

22.7716408,-0.920639,9.803992,0.211167,9.849387,88.771507,95.364601

22.7739906,-1.179063,9.770494,0.225524,9.843962,88.687248,96.880951

22.7763386,-1.423131,9.708280,0.321236,9.817290,88.124863,98.339561

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22.8350391,-1.265205,9.598209,-0.243470,9.684299,91.440605,97.509254

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22.8538246,-1.380060,9.545568,-0.425324,9.654187,92.525040,98.226593

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22.8655643,-1.322633,9.641280,-0.243470,9.734625,91.433159,97.811325

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23.0862846,-1.274776,9.607781,0.196810,9.693980,88.836685,97.557953

23.0886326,-1.246062,9.588638,0.196810,9.671267,88.833954,97.404205

23.0909805,-1.183849,9.636495,0.129811,9.709808,89.233986,97.003723

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23.0956764,-1.150349,9.655638,0.010169,9.723927,89.940079,96.794060

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23.2976112,-0.987638,9.684352,-0.037687,9.734655,90.221817,95.823051

23.2999611,-1.001994,9.660423,0.034098,9.712308,89.798843,95.921631

23.3023071,-0.992423,9.612567,0.091525,9.664095,89.457359,95.894463

23.3046570,-0.987638,9.607781,0.129811,9.659283,89.229980,95.869141

23.3070030,-0.987638,9.564711,0.153739,9.616796,89.084000,95.895386

23.3093529,-0.934995,9.550353,0.105882,9.596597,89.367821,95.591530

23.3116989,-0.920639,9.512068,0.053240,9.556664,89.680801,95.528229

23.3140488,-0.954138,9.521640,0.000598,9.569326,89.996422,95.722351

23.3163948,-0.963709,9.535996,-0.032901,9.584625,90.196678,95.770729

23.3187447,-0.968495,9.555139,-0.052044,9.604237,90.310478,95.787651

23.3210907,-1.016351,9.564711,-0.095115,9.619028,90.566559,96.065521

23.3234406,-1.073779,9.602996,-0.080758,9.663180,90.478844,96.380142

23.3257866,-1.035494,9.607781,-0.013759,9.663431,90.081581,96.151398

23.3281364,-1.030708,9.641280,0.024526,9.696249,89.855072,96.102074

23.3304863,-0.958924,9.693923,0.034098,9.741296,89.799446,95.649323

23.3328323,-0.867996,9.856635,0.081954,9.895119,89.525452,95.032608

23.3351822,-0.738784,10.052846,0.134596,10.080854,89.234985,94.203110

23.3375282,-0.762712,10.033704,0.196810,10.064575,88.879524,94.346977

23.3398781,-0.920639,9.770494,0.268594,9.817447,88.432259,95.382881

23.3422241,-1.001994,9.569496,0.287737,9.626112,88.287102,95.977493

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23.3469200,-0.934995,9.478569,0.302094,9.529363,88.183342,95.633606

23.3492699,-0.839283,9.478569,0.235095,9.518557,88.584732,95.060074

23.3516178,-0.858425,9.550353,0.168096,9.590328,88.995689,95.136177

23.3539658,-0.896710,9.516854,0.125025,9.559824,89.250656,95.382713

23.3563137,-0.949352,9.531211,0.077169,9.578685,89.538406,95.688164

23.3586617,-0.987638,9.588638,0.043669,9.639466,89.740433,95.880775

23.3610096,-0.968495,9.665209,0.091525,9.714043,89.460152,95.722183

23.3633575,-0.954138,9.665209,0.163310,9.713563,89.036667,95.637901

23.3657055,-1.155135,9.521640,0.235095,9.594334,88.595909,96.917137

23.3680534,-1.226920,9.454640,0.220738,9.536471,88.673676,97.393898

23.3704014,-1.188635,9.488140,0.158524,9.563618,89.050232,97.140579

23.3727493,-1.092922,9.598209,0.110668,9.660867,89.343643,96.496132

23.3750973,-1.011566,9.622138,0.120239,9.675911,89.287987,96.001404

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23.3821430,-1.059422,9.617352,0.062812,9.675732,89.628052,96.286209

23.3844910,-1.025923,9.588638,0.014955,9.643377,89.911148,96.107048

23.3868389,-1.016351,9.607781,-0.018544,9.661407,90.109978,96.038528

23.3891869,-0.949352,9.588638,-0.018544,9.635538,90.110268,95.654312

23.3915348,-0.939781,9.646067,-0.028116,9.691779,90.166214,95.564560

23.3938828,-0.925424,9.626924,-0.052044,9.671441,90.308319,95.490898

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23.4079723,-0.877568,9.674780,-0.162114,9.715852,90.956055,95.182930

23.4103184,-0.901496,9.674780,-0.171685,9.718206,91.012260,95.323448

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23.4173641,-0.911067,9.636495,-0.080758,9.679803,90.478020,95.400887

23.4197102,-0.901496,9.669994,-0.095115,9.712391,90.561111,95.326065

23.4220600,-0.887139,9.665209,-0.075972,9.706135,90.448471,95.244301

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23.4267559,-0.906282,9.679565,-0.032901,9.721955,90.193901,95.348915

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23.4338017,-1.001994,9.684352,-0.008973,9.736054,90.052803,95.907104

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23.4408436,-1.112064,9.641280,0.019741,9.705223,89.883461,96.579651

23.4431934,-1.131207,9.622138,0.053240,9.688551,89.685150,96.705086

23.4455395,-1.140778,9.593424,0.072383,9.661283,89.570732,96.781342

23.4478893,-1.174278,9.583853,0.091525,9.655959,89.456902,96.985443

23.4502354,-1.246062,9.521640,0.110668,9.603465,89.339722,97.455719

23.4525852,-1.212563,9.540782,0.125025,9.618340,89.255211,97.243042

23.4549332,-1.274776,9.512068,0.139382,9.598120,89.167931,97.633110

23.4572811,-1.293919,9.473783,0.163310,9.563130,89.021507,97.777275

23.4596291,-1.317847,9.540782,0.120239,9.632118,89.284752,97.864372

23.4619770,-1.308276,9.516854,0.110668,9.606995,89.339966,97.827354

23.4643250,-1.327418,9.612567,0.105882,9.704365,89.374847,97.862366

23.4666729,-1.327418,9.641280,0.081954,9.732576,89.517532,97.839241

23.4690208,-1.384846,9.669994,0.086740,9.769038,89.491264,98.149948

23.4713688,-1.341775,9.684352,0.096311,9.777337,89.435600,97.888161

23.4737167,-1.336990,9.703494,0.062812,9.795371,89.632599,97.845062

23.4760666,-1.179063,9.832706,0.072383,9.903411,89.581230,96.837822

23.4784126,-1.207777,9.813564,-0.004187,9.887608,90.024261,97.016235

23.4807625,-1.207777,9.736994,-0.004187,9.811615,90.024452,97.070854

23.4831104,-1.236491,9.684352,0.005384,9.762972,89.968407,97.276115

23.4854584,-1.250848,9.607781,0.029312,9.688909,89.826660,97.417679

23.4878063,-1.198206,9.588638,0.067597,9.663449,89.599205,97.122818

23.4901543,-1.174278,9.555139,0.105882,9.627606,89.369858,97.006226

23.4925022,-1.183849,9.569496,0.081954,9.642794,89.513039,97.052269

23.4948502,-1.188635,9.531211,0.101097,9.605574,89.396965,97.108643

23.4971981,-1.231705,9.521640,0.091525,9.601412,89.453819,97.370766

23.4995461,-1.274776,9.564711,0.153739,9.650512,89.087204,97.591591

23.5018959,-1.274776,9.559925,0.201595,9.646650,88.802551,97.595345

23.5042419,-1.289133,9.540782,0.235095,9.630350,88.601166,97.695099

23.5065918,-1.313061,9.559925,0.287737,9.653968,88.292046,97.820679

23.5089378,-1.341775,9.583853,0.287737,9.681601,88.296921,97.969818

23.5112877,-1.332204,9.593424,0.239880,9.688452,88.581245,97.905899

23.5136337,-1.336990,9.574282,0.206381,9.669385,88.777000,97.949593

23.5159836,-1.298705,9.607781,0.129811,9.696028,89.232903,97.698135

23.5183296,-1.317847,9.593424,0.163310,9.684894,89.033813,97.821754

23.5206795,-1.303490,9.593424,0.129811,9.682445,89.231827,97.737579

23.5230255,-1.269991,9.574282,0.101097,9.658673,89.400276,97.555946

23.5253754,-1.207777,9.555139,0.081954,9.631516,89.512466,97.204025

23.5277214,-1.150349,9.602996,0.034098,9.671711,89.798004,96.830948

23.5300713,-1.030708,9.626924,0.019741,9.681963,89.883179,96.111107

23.5324192,-0.982852,9.583853,0.000598,9.634118,89.996445,95.855377

23.5347672,-0.973281,9.588638,-0.013759,9.637918,90.081795,95.795876

23.5371170,-0.973281,9.559925,0.005384,9.609343,89.967896,95.813164

23.5394630,-0.978066,9.588638,0.067597,9.638629,89.598175,95.824173

23.5418129,-0.997209,9.617352,0.062812,9.669118,89.627800,95.919762

23.5441589,-1.021137,9.564711,0.086740,9.619456,89.483353,96.093864

23.5465088,-1.078565,9.602996,0.053240,9.663523,89.684334,96.408348

23.5488548,-1.102493,9.646067,-0.004187,9.708867,90.024712,96.520302

23.5512047,-1.112064,9.612567,-0.061615,9.676876,90.364822,96.599129

23.5535526,-1.121636,9.626924,-0.052044,9.692184,90.307663,96.645584

23.5559006,-1.150349,9.612567,-0.061615,9.681351,90.364655,96.824211

23.5582485,-1.183849,9.641280,-0.071186,9.713951,90.419884,97.000282

23.5605965,-1.198206,9.636495,-0.018544,9.710719,90.109413,97.087807

23.5629444,-1.140778,9.641280,0.010169,9.708541,89.939987,96.747993

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23.5676403,-1.155135,9.617352,0.000598,9.686476,89.996460,96.848953

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23.5817280,-1.059422,9.622138,-0.042473,9.680378,90.251389,96.283104

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23.6005135,-0.882353,9.646067,-0.142971,9.687393,90.845627,95.226463

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23.6427784,-0.939781,9.598209,0.024526,9.644139,89.854286,95.592125

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23.6498241,-0.915853,9.622138,0.038883,9.665704,89.769508,95.437141

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23.6733036,-0.839283,9.574282,0.172881,9.612552,88.969482,95.009750

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23.7578354,-1.169492,9.693923,-0.339183,9.770103,91.989502,96.879021

23.7601833,-1.202992,9.703494,-0.353540,9.784170,92.070770,97.067192

23.7625313,-1.198206,9.703494,-0.372682,9.784293,92.182915,97.039360

23.7648792,-1.188635,9.732208,-0.310469,9.809440,91.813713,96.963280

23.7672272,-1.164706,9.703494,-0.296112,9.777629,91.735443,96.844444

23.7695751,-1.116850,9.674780,-0.296112,9.743531,91.741524,96.585037

23.7719231,-1.097707,9.679565,-0.315254,9.746709,91.853539,96.469963

23.7742710,-1.068994,9.636495,-0.305683,9.700424,91.805824,96.330040

23.7766190,-1.083350,9.655638,-0.334397,9.721975,91.971130,96.401741

23.7789669,-1.016351,9.679565,-0.367896,9.739728,92.164734,95.994072

23.7813168,-1.025923,9.684352,-0.363111,9.745309,92.135338,96.047142

23.7836628,-1.025923,9.646067,-0.367896,9.707444,92.171936,96.070961

23.7860126,-1.049851,9.660423,-0.396610,9.725393,92.337219,96.202301

23.7883606,-1.073779,9.684352,-0.372682,9.750824,92.190414,96.326981

23.7907085,-1.078565,9.689137,-0.324826,9.754394,91.908325,96.351837

23.7930565,-1.073779,9.698709,-0.281755,9.762035,91.653915,96.317696

23.7954044,-1.116850,9.665209,-0.276969,9.733464,91.630592,96.591499

23.7977524,-1.169492,9.679565,-0.253041,9.753242,91.486664,96.889122

23.8001003,-1.159921,9.679565,-0.257827,9.752224,91.514946,96.833282

23.8024502,-1.198206,9.636495,-0.281755,9.714788,91.661964,97.087807

23.8047962,-1.260419,9.636495,-0.257827,9.721993,91.519661,97.451782

23.8071461,-1.241277,9.641280,-0.229113,9.723557,91.350166,97.336250

23.8094921,-1.250848,9.631709,-0.176471,9.714195,91.040909,97.399460

23.8118420,-1.217349,9.646067,-0.171685,9.724094,91.011642,97.192787

23.8141880,-1.183849,9.636495,-0.171685,9.710458,91.013069,97.003723

23.8165379,-1.135993,9.617352,-0.171685,9.685733,91.015656,96.736511

23.8188839,-1.092922,9.650852,-0.166899,9.713974,90.984467,96.460999

23.8212337,-1.068994,9.669994,-0.166899,9.730333,90.982811,96.308289

23.8235798,-1.083350,9.650852,-0.214756,9.713841,91.266815,96.404892

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23.8329735,-1.064208,9.650852,-0.281755,9.713437,91.662193,96.292633

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23.8376694,-1.083350,9.646067,-0.281755,9.710799,91.662643,96.408043

23.8400173,-1.083350,9.593424,-0.229113,9.657118,91.359459,96.442909

23.8423672,-1.135993,9.579067,-0.186042,9.647985,91.104904,96.763184

23.8447132,-1.183849,9.564711,-0.133400,9.638619,90.793007,97.055763

23.8470631,-1.121636,9.583853,-0.075972,9.649564,90.451103,96.675179

23.8494091,-1.078565,9.574282,-0.018544,9.634859,90.110275,96.427406

23.8517590,-1.126421,9.564711,0.043669,9.630910,89.740204,96.716698

23.8541050,-1.102493,9.612567,0.105882,9.676164,89.373024,96.542831

23.8564548,-1.135993,9.612567,0.144168,9.680532,89.146690,96.739830

23.8588028,-1.140778,9.583853,0.120239,9.652257,89.286240,96.788048

23.8611507,-1.102493,9.617352,0.005384,9.680341,89.968132,96.539604

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23.8681946,-1.021137,9.660423,-0.171685,9.715759,91.012512,96.033936

23.8705425,-1.035494,9.646067,-0.147757,9.702612,90.872566,96.127174

23.8728905,-1.049851,9.646067,-0.162114,9.704384,90.957184,96.211464

23.8752384,-1.006780,9.650852,-0.157328,9.704499,90.928909,95.955574

23.8775864,-0.939781,9.631709,-0.190828,9.679330,91.129654,95.572800

23.8799362,-0.934995,9.612567,-0.186042,9.659724,91.103561,95.555573

23.8822823,-0.939781,9.650852,-0.186042,9.698286,91.099174,95.561813

23.8846321,-0.958924,9.660423,-0.176471,9.709503,91.041412,95.668785

23.8869781,-0.958924,9.641280,-0.190828,9.690729,91.128326,95.679970

23.8893280,-0.997209,9.636495,-0.209970,9.690229,91.241592,95.908081

23.8916759,-1.001994,9.593424,-0.243470,9.648682,91.445923,95.962692

23.8940239,-1.045065,9.583853,-0.219541,9.643163,91.304543,96.223198

23.8963718,-1.049851,9.626924,-0.186042,9.685786,91.100586,96.223717

23.8987198,-1.059422,9.646067,-0.181256,9.705763,91.070068,96.267647

23.9010677,-1.088136,9.636495,-0.138186,9.698720,90.816368,96.442451

23.9034157,-1.121636,9.602996,-0.152542,9.669481,90.903915,96.661995

23.9057655,-1.131207,9.626924,-0.186042,9.694942,91.099548,96.701782

23.9081116,-1.107279,9.617352,-0.190828,9.682766,91.129257,96.567741

23.9104614,-1.073779,9.674780,-0.243470,9.737229,91.432770,96.333191

23.9128075,-1.112064,9.641280,-0.267398,9.708886,91.578217,96.579651

23.9151573,-1.107279,9.665209,-0.238684,9.731357,91.405449,96.535507

23.9175034,-1.078565,9.669994,-0.224327,9.732544,91.320740,96.364311

23.9198532,-1.049851,9.607781,-0.224327,9.667573,91.329613,96.236023

23.9221992,-1.049851,9.650852,-0.238684,9.710721,91.408440,96.208405

23.9245491,-1.006780,9.641280,-0.272184,9.697524,91.608353,95.961441

23.9268951,-1.045065,9.684352,-0.276969,9.744514,91.628746,96.159111

23.9292450,-1.030708,9.669994,-0.281755,9.728850,91.659561,96.084091

23.9315929,-1.068994,9.665209,-0.296112,9.728653,91.744186,96.311386

23.9339409,-1.049851,9.641280,-0.276969,9.702226,91.635841,96.214523

23.9362888,-1.088136,9.636495,-0.267398,9.701421,91.579430,96.442451

23.9386368,-1.126421,9.636495,-0.195613,9.704077,91.155037,96.667114

23.9409847,-1.179063,9.631709,-0.200399,9.705677,91.183105,96.979126

23.9433327,-1.155135,9.602996,-0.157328,9.673501,90.931892,96.859100

23.9456825,-1.183849,9.593424,-0.152542,9.667397,90.904114,97.034859

23.9480286,-1.145564,9.612567,-0.157328,9.681865,90.931084,96.796089

23.9503784,-1.116850,9.636495,-0.152542,9.702198,90.900871,96.610970

23.9527245,-1.112064,9.646067,-0.128614,9.710810,90.758873,96.576416

23.9550743,-1.155135,9.646067,-0.157328,9.716259,90.927788,96.828758

23.9574223,-1.150349,9.674780,-0.123829,9.743716,90.728165,96.780739

23.9597702,-1.164706,9.660423,-0.133400,9.731296,90.785454,96.874672

23.9621181,-1.169492,9.650852,-0.133400,9.722368,90.786179,96.909424

23.9644661,-1.212563,9.622138,-0.123829,9.699030,90.731522,97.182442

23.9668140,-1.174278,9.622138,-0.133400,9.694445,90.788437,96.957924

23.9691620,-1.145564,9.617352,-0.123829,9.686131,90.732498,96.792740

23.9715099,-1.155135,9.598209,-0.061615,9.667665,90.365166,96.862488

23.9738579,-1.188635,9.612567,-0.008973,9.685782,90.053078,97.049080

23.9762058,-1.135993,9.593424,0.014955,9.660460,89.911301,96.753159

23.9785538,-1.116850,9.583853,0.005384,9.648710,89.968033,96.646957

23.9809017,-1.064208,9.588638,-0.023330,9.647542,90.138557,96.333130

23.9832516,-1.021137,9.588638,-0.028116,9.642900,90.167053,96.078773

23.9855976,-0.973281,9.564711,0.010169,9.614108,89.939392,95.810272

23.9879475,-0.949352,9.526425,0.024526,9.573644,89.853218,95.691002

23.9902935,-0.954138,9.559925,0.029312,9.607466,89.825195,95.699585

23.9926434,-0.901496,9.516854,0.024526,9.559488,89.852997,95.411270

23.9949913,-0.882353,9.516854,0.019741,9.557691,89.881660,95.297028

23.9973392,-0.877568,9.555139,-0.004187,9.595354,90.025002,95.247467

23.9996872,-0.901496,9.598209,-0.008973,9.640457,90.053329,95.365669

24.0020351,-0.906282,9.579067,0.014955,9.621856,89.910942,95.404701

24.0043850,-0.939781,9.636495,-0.018544,9.682229,90.109741,95.570053

24.0067310,-0.978066,9.703494,-0.042473,9.752754,90.249519,95.755707

24.0090809,-1.035494,9.746565,-0.028116,9.801457,90.164352,96.064468

24.0114269,-1.092922,9.741779,-0.023330,9.802922,90.136360,96.401199

24.0137768,-1.150349,9.703494,-0.032901,9.771499,90.192917,96.760864

24.0161228,-1.212563,9.655638,-0.013759,9.731487,90.081009,97.157784

24.0184727,-1.222134,9.564711,-0.032901,9.642530,90.195503,97.281532

24.0208187,-1.198206,9.512068,-0.018544,9.587255,90.110825,97.179558

24.0231686,-1.174278,9.526425,0.019741,9.598547,89.882164,97.027130

24.0255146,-1.102493,9.564711,0.014955,9.628053,89.911003,96.575279

24.0278645,-1.092922,9.669994,0.034098,9.731620,89.799248,96.448318

24.0302105,-1.064208,9.660423,0.048455,9.718985,89.714348,96.286446

24.0325603,-1.035494,9.631709,0.038883,9.687290,89.770020,96.136238

24.0349083,-0.997209,9.545568,0.034098,9.597575,89.796440,95.963959

24.0372562,-1.001994,9.588638,0.034098,9.640909,89.797356,95.965645

24.0396042,-0.939781,9.588638,-0.061615,9.634779,90.366417,95.597672

24.0419521,-0.896710,9.660423,-0.080758,9.702288,90.476913,95.303177

24.0443001,-0.896710,9.679565,-0.071186,9.721272,90.419563,95.292747

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