participation\_cpp.R

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library(Rcpp)  
Rcpp::sourceCpp("mySweep\_cpp.cpp")  
  
  
start <- Sys.time()  
set.seed(123)  
X <- rnorm(50000)  
dim(X)<-c(100,500)  
n <- nrow(X)  
p <- ncol(X)  
A = t(X)%\*%X  
mySweep\_cpp(A,p)

## [,1] [,2] [,3] [,4] [,5]  
## [1,] 1.548873e+13 3.448940e+13 -9.554672e+12 -3.699242e+13 1.593634e+13  
## [2,] 3.448940e+13 1.784279e+13 -6.013905e+13 -3.747746e+13 4.225790e+13  
## [3,] -9.554672e+12 -6.013905e+13 -6.665460e+13 5.134884e+13 -3.009498e+13  
## [4,] -3.699242e+13 -3.747746e+13 5.134884e+13 4.538041e+13 -4.619496e+13  
## [5,] 1.593634e+13 4.225790e+13 -3.009498e+13 -4.619496e+13 4.421985e+13  
## [6,] -8.143528e+12 -2.732781e+13 -7.993394e+12 2.612890e+13 -2.803625e+13  
## [7,] 2.801438e+13 4.916826e+13 -3.290894e+13 -5.534584e+13 8.022197e+13  
## [8,] -8.380072e+12 -2.542895e+13 -1.952531e+13 1.851985e+13 8.864172e+12  
## [9,] 1.535319e+13 5.781215e+13 4.965911e+13 -3.615708e+13 3.820839e+13  
## [10,] 1.124689e+13 9.341915e+12 -4.784477e+13 -1.929387e+13 2.556359e+13  
## [11,] 6.763219e+12 4.469826e+12 1.470669e+13 -1.023744e+13 -6.057023e+12  
## [12,] 1.531267e+13 5.669440e+13 5.016204e+13 -3.857182e+13 2.596936e+13  
## [13,] 1.390177e+12 2.071200e+13 2.378041e+13 -1.365645e+13 7.226296e+12  
## [14,] -1.280163e+13 -1.263286e+13 8.782726e+12 1.161006e+13 -5.881496e+12  
## [15,] -1.435134e+13 -2.421746e+13 2.097938e+12 2.566494e+13 -2.236194e+13  
## [16,] 2.707702e+13 7.794087e+12 -5.660593e+13 -2.727841e+13 3.444708e+13  
## [17,] 1.065724e+13 1.766562e+13 -1.353352e+13 -2.674218e+13 2.138498e+13  
## [18,] 1.979431e+13 2.143116e+13 -2.960007e+13 -2.062923e+13 3.698845e+13  
## [19,] 1.075890e+13 1.140287e+13 -1.184562e+13 -1.236931e+13 2.679378e+13  
## [20,] 7.671743e+12 1.205354e+13 2.488173e+13 -5.818603e+12 6.312900e+12  
## [21,] -7.416489e+11 1.905634e+13 5.201687e+13 -3.474625e+12 -9.951298e+12  
## [22,] -1.433311e+13 -3.957211e+13 -1.193062e+13 3.573093e+13 -3.448821e+13  
## [23,] -2.583317e+13 -1.497913e+13 6.218310e+13 3.411613e+13 -3.118666e+13  
## [24,] 2.050063e+11 -2.479121e+13 -3.752740e+13 1.220248e+13 -2.288642e+12  
## [25,] -8.491393e+12 -2.025362e+13 6.486721e+12 1.760818e+13 -2.282757e+13  
## [26,] 1.139683e+13 1.767092e+13 1.637495e+13 -1.324078e+13 1.175697e+13  
## [27,] -9.484917e+12 -1.688204e+13 -1.043807e+13 1.903110e+13 -2.402196e+13  
## [28,] -3.593525e+12 1.278575e+13 2.855791e+13 -9.965120e+12 1.717744e+13  
## [29,] -3.224540e+12 -4.074529e+12 -1.225840e+13 1.557325e+12 5.276860e+11  
## [30,] -2.735723e+12 -1.477531e+13 -3.733257e+13 7.162105e+12 3.105207e+12  
## [31,] -1.141865e+13 -3.438434e+13 -1.058557e+13 2.921168e+13 -3.043000e+13  
## [32,] -7.201320e+12 1.521171e+12 3.841065e+13 6.039668e+12 -1.358804e+13  
## [33,] 2.450916e+13 4.395565e+13 -9.217731e+12 -4.053070e+13 4.700418e+13  
## [34,] 2.236169e+13 2.892384e+13 7.336806e+12 -3.698866e+13 2.977363e+13  
## [35,] 4.361398e+12 -4.249394e+10 1.427220e+13 8.205211e+11 -1.320820e+13  
## [36,] -9.331147e+12 -1.243736e+13 1.295384e+13 1.691997e+13 -1.532929e+13  
## [37,] -7.222331e+12 -2.917839e+13 -2.464994e+13 2.693783e+13 -1.065985e+13  
## [38,] 3.898476e+12 -5.009224e+11 -1.481795e+13 -1.005470e+13 -7.777066e+12  
## [39,] 3.743637e+13 2.086465e+13 -4.991645e+13 -4.570993e+13 1.833220e+13  
## [40,] 8.458442e+11 -9.329106e+12 -9.802738e+12 9.808211e+12 3.475193e+10  
## [41,] 1.702779e+12 -1.164121e+13 -5.887417e+12 7.759640e+12 -1.220241e+13  
## [42,] -1.723361e+13 -3.229673e+13 7.660101e+12 3.538414e+13 -3.832276e+13  
## [43,] -1.837315e+13 -1.227966e+13 2.545313e+13 1.902275e+13 -1.326930e+13  
## [44,] -4.996100e+12 -4.661887e+12 2.384158e+13 1.157110e+13 -6.754964e+12  
## [45,] -2.793546e+12 -7.922237e+12 -1.187028e+13 1.785497e+13 -7.304583e+12  
## [46,] 1.391457e+13 1.478977e+13 1.280532e+13 -1.458146e+13 -2.819285e+12  
## [47,] 7.577613e+12 -2.679924e+12 -2.219755e+12 -4.035838e+12 3.253379e+12  
## [48,] -3.693132e+12 4.884665e+12 2.029954e+12 -1.908294e+12 1.137865e+13  
## [49,] 1.463389e+13 1.697617e+13 -2.141034e+13 -1.906836e+13 3.806238e+13  
## [50,] -6.616335e+12 -9.487944e+12 9.798829e+12 9.308240e+12 -1.649722e+13  
## [51,] 4.527802e+11 5.613873e+12 -2.271251e+12 -7.591559e+12 -1.135369e+13  
## [52,] -2.374444e+13 -4.471842e+13 5.213351e+12 4.966646e+13 -4.894291e+13  
## [53,] -1.755133e+13 -2.544807e+13 -9.830382e+11 2.894395e+13 -1.550199e+13  
## [54,] 1.517723e+13 1.806295e+13 -2.411670e+13 -2.556375e+13 1.349670e+13  
## [55,] 1.887205e+12 1.982580e+13 1.372770e+13 -1.498867e+13 1.325192e+13  
## [56,] -1.824215e+13 -2.042449e+13 2.213193e+13 2.815740e+13 -2.045995e+13  
## [57,] 1.561422e+13 2.088604e+13 -2.778260e+13 -2.888423e+13 2.742716e+13  
## [58,] -2.857816e+12 -1.368809e+12 7.106495e+12 1.426869e+12 9.017100e+11  
## [59,] 4.379958e+12 8.201421e+12 9.928752e+12 -5.574876e+12 3.052418e+12  
## [60,] -1.146331e+13 -1.242180e+13 2.821637e+13 1.502010e+13 -3.180721e+13  
## [61,] 1.080880e+13 1.030172e+12 -1.139757e+13 1.859748e+12 8.451825e+12  
## [62,] -7.960187e+12 -1.040415e+13 -3.276779e+12 6.287392e+12 -5.581969e+12  
## [63,] 1.655311e+13 1.750823e+13 -5.470224e+12 -1.670393e+13 2.297052e+13  
## [64,] -3.708904e+12 -1.984163e+13 -2.938055e+13 1.608466e+13 -1.057693e+13  
## [65,] 2.113494e+13 2.263514e+13 -4.401070e+13 -4.024094e+13 2.885664e+13  
## [66,] 3.051202e+10 1.582102e+12 3.412509e+12 2.521931e+12 2.666237e+12  
## [67,] -1.213790e+13 -3.784585e+12 1.004328e+13 8.644413e+12 2.108064e+11  
## [68,] -1.328151e+13 -2.658707e+13 -2.499388e+13 2.295276e+13 -1.574070e+13  
## [69,] -8.576701e+12 -2.910464e+13 -2.374034e+13 2.475552e+13 -1.583790e+13  
## [70,] -3.294936e+12 -1.329692e+12 1.134139e+12 5.534527e+12 2.968240e+12  
## [71,] -9.019965e+12 -1.863278e+13 -9.592941e+12 1.209266e+13 -6.461872e+12  
## [72,] -5.205728e+12 7.226108e+12 2.497375e+13 -2.922692e+12 2.588504e+12  
## [73,] 2.083851e+13 3.652778e+13 2.450341e+12 -3.699458e+13 2.979311e+13  
## [74,] 1.230522e+13 3.386875e+13 7.630397e+12 -2.642405e+13 3.789947e+13  
## [75,] 6.866749e+12 2.302314e+13 -9.101152e+12 -2.116550e+13 1.735887e+13  
## [76,] -1.388181e+12 1.328135e+13 3.128794e+13 -1.992434e+12 -4.102097e+12  
## [77,] -6.884164e+12 -2.435451e+11 3.884788e+13 7.746326e+12 -1.777216e+13  
## [78,] 2.071396e+13 1.594819e+13 -2.009021e+13 -2.379906e+13 2.508157e+13  
## [79,] -1.696928e+13 -1.231796e+13 3.282557e+13 2.602024e+13 -1.828118e+13  
## [80,] -1.545727e+13 -1.560011e+13 2.491119e+13 2.509391e+13 -2.248173e+13  
## [81,] -1.670555e+13 -2.179202e+13 2.699609e+13 3.145559e+13 -2.254633e+13  
## [82,] 4.264875e+12 1.389351e+12 -9.897718e+12 -6.296753e+12 -2.443974e+12  
## [83,] 6.041105e+12 1.010512e+13 1.135432e+13 -1.051495e+13 5.976796e+12  
## [84,] -6.556838e+12 -1.300039e+13 5.685127e+12 1.104161e+13 -1.262365e+13  
## [85,] -1.453786e+12 -1.246758e+13 -1.392050e+13 1.525899e+12 -1.037227e+13  
## [86,] -1.622884e+12 -1.278373e+13 -2.366401e+13 6.493104e+12 3.613007e+12  
## [87,] 1.223368e+13 9.506616e+12 -2.193907e+13 -1.751635e+13 9.515848e+12  
## [88,] -5.827315e+12 -1.418587e+13 -8.131479e+11 1.025253e+13 -1.696166e+13  
## [89,] 2.153368e+12 -1.767678e+13 -2.298184e+13 9.579792e+12 -8.132779e+12  
## [90,] -1.803740e+13 -2.907873e+13 1.712618e+13 3.559885e+13 -2.850655e+13  
## [91,] -4.505554e+12 -1.386014e+13 -1.699229e+13 7.050818e+12 -8.106464e+12  
## [92,] 2.709582e+12 -1.369190e+13 -2.360846e+13 6.506281e+12 -1.261207e+13  
## [93,] -2.261718e+13 -2.142059e+13 3.386208e+13 3.226669e+13 -2.871282e+13  
## [94,] 1.064612e+13 1.005791e+13 -6.993543e+12 -1.009642e+13 -2.812877e+12  
## [95,] 3.977704e+12 8.146004e+12 -5.230378e+12 -1.305807e+13 1.272325e+13  
## [96,] 1.954885e+13 1.393837e+13 -4.746833e+13 -2.389485e+13 3.694806e+13  
## [97,] 3.796305e+12 1.048228e+12 4.426287e+12 1.698626e+12 -4.916466e+11  
## [98,] -9.493450e+12 4.584980e+12 2.359563e+13 5.889891e+12 -9.747898e+12  
## [99,] 5.089075e+11 1.256255e+13 2.911839e+13 -4.987803e+12 -3.316668e+12  
## [100,] -1.980970e+12 4.552927e+12 3.637093e+12 -8.013667e+12 -4.418816e+12  
## [101,] 5.305772e+12 -1.509354e+13 -1.375090e+13 9.168531e+12 -7.964701e+12  
## [102,] 2.480499e+12 1.472411e+13 -1.229023e+13 -1.563375e+13 1.358144e+13  
## [103,] 6.433331e+12 1.862753e+13 -1.165110e+13 -2.145569e+13 2.446151e+13  
## [104,] 1.268759e+12 -8.807340e+11 2.145188e+13 5.731807e+12 -1.665759e+13  
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## [106,] 1.491741e+12 1.521635e+13 1.676710e+13 -6.895995e+12 8.219995e+12  
## [107,] -1.462839e+13 -2.332895e+13 9.162512e+12 3.261184e+13 -1.344111e+13  
## [108,] 4.000174e+12 -1.693828e+13 -3.902271e+13 7.285626e+12 -2.782311e+12  
## [109,] 4.474060e+12 -5.665994e+12 -1.028052e+13 7.837136e+12 -8.897606e+12  
## [110,] 9.028212e+12 7.233733e+12 -1.527451e+12 -8.169276e+12 7.466094e+12  
## [111,] -2.220376e+13 -2.694709e+13 6.823534e+12 3.454008e+13 -1.995214e+13  
## [112,] 2.465616e+13 2.642550e+13 -3.042498e+13 -3.681052e+13 3.917067e+13  
## [113,] -9.032824e+12 -1.552184e+13 -9.229311e+12 1.826228e+13 -6.928478e+12  
## [114,] 5.090653e+12 2.539303e+13 1.688653e+13 -1.566752e+13 5.225057e+12  
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## [116,] -1.005739e+13 -2.368037e+13 1.096586e+13 3.114039e+13 -1.820010e+13  
## [117,] -1.969800e+13 -1.188233e+13 2.595022e+13 1.839268e+13 -2.104318e+13  
## [118,] 1.497775e+13 2.405032e+13 -1.434611e+13 -2.508614e+13 1.733042e+13  
## [119,] -9.616105e+12 -5.149135e+12 2.740330e+13 1.334776e+13 -1.455361e+13  
## [120,] -2.245703e+13 -1.903514e+13 5.186368e+13 4.338572e+13 -3.987026e+13  
## [121,] 1.845724e+13 3.258104e+13 -1.082574e+13 -3.957091e+13 3.253688e+13  
## [122,] 2.207393e+13 3.643640e+13 3.057318e+12 -3.055094e+13 3.445888e+13  
## [123,] 1.231627e+12 -1.028718e+13 -4.274627e+12 8.581702e+12 -1.663055e+12  
## [124,] 4.004347e+12 -1.465053e+13 -4.466685e+13 -1.465791e+12 5.134921e+12  
## [125,] 2.580745e+12 1.979336e+13 1.024828e+13 -1.712685e+13 1.564755e+13  
## [126,] 1.363321e+13 2.257562e+13 -1.685888e+13 -2.025257e+13 3.132126e+13  
## [127,] -1.583913e+13 -4.374803e+13 1.591610e+12 4.363073e+13 -5.755080e+13  
## [128,] 1.586517e+13 -2.192860e+11 -5.725666e+13 -1.064822e+13 2.367061e+13  
## [129,] 1.685278e+13 1.444957e+13 -1.064788e+13 -1.407283e+13 2.233626e+13  
## [130,] 1.820376e+13 8.797643e+12 -3.230893e+13 -2.084220e+13 2.512104e+13  
## [131,] -1.291128e+13 -6.090363e+12 8.219023e+12 7.262607e+12 -1.602610e+13  
## [132,] -2.302343e+13 -7.768661e+12 5.507328e+13 1.933324e+13 -1.747923e+13  
## [133,] -1.880172e+12 -1.025013e+12 -1.576509e+13 -6.120646e+12 8.696670e+11  
## [134,] -6.135961e+12 -3.678891e+12 4.728289e+12 8.698671e+12 -1.424200e+13  
## [135,] 4.492742e+12 4.272912e+12 1.627061e+13 -1.850608e+12 6.403080e+12  
## [136,] -1.517895e+13 8.790868e+12 7.320579e+13 1.014475e+13 -3.019122e+13  
## [137,] -6.926295e+12 -1.199535e+13 4.729247e+12 1.218426e+13 -1.346562e+13  
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## [140,] -1.082937e+13 -5.784047e+12 3.584326e+13 1.582205e+13 -7.739935e+12  
## [141,] -3.368565e+13 -3.887405e+13 5.315811e+12 3.971711e+13 -3.889528e+13  
## [142,] -1.060515e+13 -2.010271e+13 2.117562e+13 2.719202e+13 -2.422375e+13  
## [143,] 1.390193e+12 -9.792080e+11 -3.212068e+13 -6.391943e+12 1.176644e+13  
## [144,] -1.543617e+13 -2.926725e+13 2.004314e+13 3.284759e+13 -3.662107e+13  
## [145,] 5.818509e+12 2.825550e+12 2.733735e+12 -5.866781e+12 -9.800504e+11  
## [146,] -1.986235e+11 -9.245760e+12 -1.021355e+13 1.396329e+12 5.515822e+11  
## [147,] 8.490525e+12 4.364675e+12 2.804226e+12 -1.086836e+13 -3.384399e+12  
## [148,] -9.818919e+12 -2.794938e+11 2.985488e+13 1.114695e+13 -1.191939e+13  
## [149,] 4.321968e+12 1.685635e+13 7.723984e+12 -1.621084e+13 1.523674e+13  
## [150,] -1.156830e+13 -3.300353e+13 -2.388551e+13 2.408825e+13 -1.606893e+13  
## [151,] -1.982944e+13 -2.465870e+13 2.127750e+13 3.397571e+13 -2.731082e+13  
## [152,] -2.306626e+13 -7.687891e+12 4.017161e+13 2.147386e+13 -2.528139e+13  
## [153,] 2.220591e+13 4.993820e+13 2.362750e+13 -4.720260e+13 2.288828e+13  
## [154,] 2.837399e+12 -8.394426e+12 -3.774589e+13 -9.052874e+12 9.731850e+12  
## [155,] -1.171346e+13 -2.920020e+13 -5.722198e+12 2.700361e+13 -2.851035e+13  
## [156,] 9.033065e+12 1.593253e+13 -2.369092e+13 -2.388551e+13 1.604429e+13  
## [157,] -1.848589e+12 -2.120093e+12 9.764391e+12 7.877369e+12 9.363320e+11  
## [158,] 1.523884e+13 1.376208e+13 -1.365574e+13 -2.064635e+13 1.041897e+13  
## [159,] -8.553788e+12 -8.638402e+12 -1.745075e+10 7.736774e+12 -1.991675e+12  
## [160,] -1.017550e+13 -6.611017e+12 7.448963e+12 8.015955e+12 -4.073264e+12  
## [161,] 8.888257e+11 -1.366428e+13 -2.219697e+13 2.286822e+12 -1.441807e+13  
## [162,] 6.631393e+12 -6.798567e+12 -8.849889e+12 2.616734e+11 1.968467e+12  
## [163,] 2.219277e+13 4.821474e+13 1.867072e+13 -4.727665e+13 3.274595e+13  
## [164,] -1.582865e+13 -1.563817e+13 4.127166e+13 2.721239e+13 -3.095540e+13  
## [165,] 3.105213e+12 -1.599752e+13 -3.020574e+13 3.173723e+12 1.461053e+12  
## [166,] -1.879422e+13 -1.753329e+13 3.890974e+13 3.412385e+13 -2.359106e+13  
## [167,] -2.356509e+13 -4.164091e+13 -5.842088e+12 3.872082e+13 -2.178041e+13  
## [168,] -1.915295e+13 -2.756080e+13 7.348219e+12 2.966591e+13 -2.355113e+13  
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## [170,] 7.560554e+12 -6.687716e+12 -2.919434e+13 -4.372495e+12 1.538298e+13  
## [171,] 7.830561e+12 9.211562e+12 -7.901272e+12 -1.245485e+13 -6.267474e+11  
## [172,] -1.975003e+13 -4.270265e+13 -2.781426e+13 3.422667e+13 -1.836123e+13  
## [173,] -1.095094e+13 -7.262835e+12 2.520489e+13 1.842734e+13 -1.193244e+13  
## [174,] -1.489226e+13 -9.821254e+12 2.802945e+13 1.752096e+13 -1.855795e+13  
## [175,] 2.695344e+12 7.986455e+12 -1.119578e+12 -7.666456e+12 1.190925e+13  
## [176,] 7.570413e+12 8.095587e+12 -4.125702e+12 -9.793914e+12 2.346419e+13  
## [177,] -1.892316e+12 -7.392588e+12 -2.580268e+13 -1.801927e+12 -5.256946e+11  
## [178,] 7.506560e+12 3.377326e+13 4.802590e+13 -1.748289e+13 6.082350e+12  
## [179,] 1.097459e+13 -5.528156e+12 -2.271094e+13 -3.933747e+12 9.418719e+12  
## [180,] -9.307214e+12 -2.578941e+13 -9.252138e+12 2.176691e+13 -1.641067e+13  
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## [182,] 1.773872e+13 3.826342e+13 2.650196e+12 -3.925148e+13 2.539742e+13  
## [183,] -1.502969e+13 -1.547498e+13 2.207125e+13 2.496287e+13 -1.826921e+13  
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## [193,] 1.397976e+13 1.403170e+13 -1.836608e+13 -1.513794e+13 2.372127e+13  
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## [196,] 6.943948e+12 1.102400e+13 8.475277e+12 -1.020045e+13 1.006923e+13  
## [197,] -3.353890e+12 4.341094e+12 7.606369e+12 2.008794e+12 5.326693e+12  
## [198,] 8.383676e+12 2.091884e+13 -7.828632e+12 -2.674126e+13 2.009220e+13  
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## [,6] [,7] [,8] [,9] [,10]  
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## [3,] -7.993394e+12 -3.290894e+13 -1.952531e+13 4.965911e+13 -4.784477e+13  
## [4,] 2.612890e+13 -5.534584e+13 1.851985e+13 -3.615708e+13 -1.929387e+13  
## [5,] -2.803625e+13 8.022197e+13 8.864172e+12 3.820839e+13 2.556359e+13  
## [6,] 1.419663e+13 -3.257667e+13 -1.122645e+13 -4.256488e+12 -1.645255e+13  
## [7,] -3.257667e+13 5.061036e+13 2.755688e+12 5.068018e+13 4.072231e+13  
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## [13,] 4.826003e+12 1.665776e+11 6.872494e+12 -2.039080e+13 1.415531e+13  
## [14,] 5.671101e+12 -1.388710e+13 9.218638e+12 -5.772223e+12 -1.113836e+13  
## [15,] 9.637056e+12 -2.340709e+13 3.561609e+12 -1.252349e+13 -1.245057e+13  
## [16,] -1.876871e+13 2.156880e+13 -2.323807e+13 5.302279e+13 2.719673e+11  
## [17,] -1.226102e+13 2.867981e+13 -3.247700e+12 2.086672e+13 1.293342e+13  
## [18,] -1.221671e+13 3.521600e+13 -5.606937e+12 2.374606e+13 1.627281e+13  
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## [20,] 5.945622e+12 -5.592853e+12 4.231167e+12 -2.259255e+13 4.643611e+12  
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## [132,] 1.509670e+13 -1.694754e+13 2.348772e+13 -4.507667e+13 -7.895823e+11  
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## [134,] 1.019905e+13 -5.919292e+12 1.322085e+11 -1.659473e+13 -7.443808e+12  
## [135,] -3.104303e+12 7.910794e+12 -2.984497e+12 -1.537973e+13 1.223596e+13  
## [136,] 2.153053e+13 -3.549373e+13 1.962771e+13 -6.135939e+13 -1.573123e+12  
## [137,] 3.803729e+12 -1.436700e+13 -3.859723e+12 -3.194147e+12 -5.984402e+12  
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## [158,] -1.018563e+13 1.923116e+12 -6.416565e+12 1.021148e+13 2.140950e+12  
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## [3,] 1.470669e+13 5.016204e+13 2.378041e+13 8.782726e+12 2.097938e+12  
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## [5,] -6.057023e+12 2.596936e+13 7.226296e+12 -5.881496e+12 -2.236194e+13  
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## [7,] -9.321710e+12 4.208974e+13 1.665776e+11 -1.388710e+13 -2.340709e+13  
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## [86,] -2.552507e+12 1.870435e+13 5.437325e+12 1.164091e+12 3.708644e+12  
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## [99,] -1.157321e+12 -2.454888e+13 -9.299283e+12 -2.496608e+12 -1.599254e+12  
## [100,] 1.162811e+12 -5.803464e+12 1.517873e+12 1.223002e+12 1.491160e+12  
## [101,] 3.375207e+12 1.389956e+13 5.530633e+12 -1.934110e+12 6.055510e+12  
## [102,] -1.921473e+12 6.403769e+12 5.170746e+12 -1.307448e+11 -8.863147e+12  
## [103,] -3.689838e+12 1.670759e+13 -9.206800e+11 -6.767863e+12 -1.099387e+13  
## [104,] 4.366322e+12 -1.845675e+13 -6.373120e+12 1.655987e+12 2.292381e+12  
## [105,] -4.132167e+12 8.191615e+12 -2.985978e+12 5.295189e+12 2.707824e+12  
## [106,] -5.089691e+12 -1.056942e+13 -1.245731e+12 3.818927e+11 3.087934e+11  
## [107,] -1.906317e+12 -2.093686e+13 3.291631e+12 1.462314e+13 1.055807e+13  
## [108,] 7.208823e+12 2.844516e+13 1.197480e+13 3.255206e+12 -1.414904e+12  
## [109,] 8.223503e+12 3.483569e+12 3.437755e+12 -6.187212e+11 -1.040884e+11  
## [110,] -1.030659e+11 4.367221e+12 1.995882e+10 -6.640153e+10 -3.036366e+12  
## [111,] -1.026000e+13 -1.395803e+13 1.677967e+12 1.400716e+13 1.333076e+13  
## [112,] -1.776821e+12 3.666034e+13 1.347571e+13 -1.904267e+13 -1.686731e+13  
## [113,] -2.776247e+12 2.984383e+12 3.819337e+12 4.315216e+12 8.344307e+12  
## [114,] -1.934844e+12 -1.995073e+13 -5.946416e+12 9.058906e+12 -9.177239e+12  
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## [10,] 2.719673e+11 1.293342e+13 1.627281e+13 4.881214e+12 4.643611e+12  
## [11,] 5.796836e+12 1.181658e+12 5.159034e+11 -3.324902e+12 -5.157643e+11  
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## [65,] 3.013212e+11 1.562915e+13 1.605594e+13 2.065951e+12 6.226565e+12  
## [66,] -1.681344e+12 2.613631e+12 1.775182e+12 -4.478136e+12 -1.306461e+12  
## [67,] 1.286594e+13 -4.646188e+12 4.319102e+11 8.691375e+12 3.865957e+12  
## [68,] -2.999886e+13 -1.010337e+13 -1.152869e+13 -7.411310e+12 4.019997e+12  
## [69,] -4.466442e+13 -8.217449e+12 -2.287539e+13 -1.581696e+13 8.036028e+11  
## [70,] 2.716003e+12 -1.213509e+12 3.837500e+11 1.926274e+12 -4.416412e+12  
## [71,] -2.749635e+13 -1.030659e+13 -1.010109e+13 -1.147181e+13 1.727945e+12  
## [72,] 1.072506e+12 -4.781802e+12 -1.523043e+12 -1.282239e+12 -4.267699e+12  
## [73,] 3.290681e+13 1.553835e+13 1.984880e+13 1.280156e+13 -3.709045e+12  
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## [75,] 2.229934e+13 1.150745e+13 1.963514e+13 1.140270e+13 2.402559e+11  
## [76,] 2.268099e+13 -1.510521e+12 2.917642e+12 7.329766e+12 -3.770954e+12  
## [77,] -1.686589e+12 -9.389196e+12 -6.842831e+12 -8.429169e+12 -1.010718e+13  
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## [80,] -1.562069e+13 -1.626767e+13 -1.835262e+13 -8.784278e+12 -2.482579e+12  
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## [83,] 2.697333e+12 3.473773e+12 5.597543e+12 -9.559520e+11 -5.319456e+12  
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## [88,] -1.357876e+13 -7.849583e+12 -6.226950e+12 -5.179800e+12 4.549099e+12  
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## [38,] 1.589171e+13 -3.866995e+12 1.187438e+12 -3.392895e+12 -1.552324e+12  
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## [42,] 6.156563e+12 1.768858e+13 1.957744e+13 4.706796e+11 1.222176e+13  
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## [198,] -6.929711e+12 -1.232417e+13 -1.617912e+13 2.246779e+12 -1.045279e+13  
## [199,] 9.922079e+12 -1.561623e+13 -2.003710e+12 -1.165282e+13 -6.526275e+12  
## [,26] [,27] [,28] [,29] [,30]  
## [1,] 1.139683e+13 -9.484917e+12 -3.593525e+12 -3.224540e+12 -2.735723e+12  
## [2,] 1.767092e+13 -1.688204e+13 1.278575e+13 -4.074529e+12 -1.477531e+13  
## [3,] 1.637495e+13 -1.043807e+13 2.855791e+13 -1.225840e+13 -3.733257e+13  
## [4,] -1.324078e+13 1.903110e+13 -9.965120e+12 1.557325e+12 7.162105e+12  
## [5,] 1.175697e+13 -2.402196e+13 1.717744e+13 5.276860e+11 3.105207e+12  
## [6,] -2.320839e+12 7.309969e+12 7.510992e+12 -5.396482e+12 -7.312544e+12  
## [7,] 8.793359e+12 -1.783041e+13 1.149721e+12 6.845482e+12 7.064414e+12  
## [8,] -1.603536e+12 -1.829611e+12 1.296867e+13 5.393978e+10 -4.383585e+12  
## [9,] -4.085829e+12 1.531402e+12 -1.853952e+13 9.376053e+12 2.716115e+13  
## [10,] 1.302635e+13 -1.941392e+13 1.924144e+13 -1.924514e+12 -3.130780e+12  
## [11,] 4.113116e+12 2.221933e+12 -2.242915e+13 -2.695662e+12 -1.568107e+12  
## [12,] -7.764676e+12 2.826116e+12 -9.463522e+12 6.599119e+12 2.157750e+13  
## [13,] -1.556032e+12 1.972825e+12 -6.321615e+12 9.040691e+11 2.749273e+12  
## [14,] -4.518894e+12 9.042614e+12 -1.278748e+12 -2.389919e+12 2.042455e+12  
## [15,] -7.361209e+12 6.512616e+12 5.580079e+12 -3.726732e+12 -3.558203e+12  
## [16,] 2.273196e+13 -1.383294e+13 2.841244e+11 -3.065283e+12 -1.431736e+13  
## [17,] 9.568668e+12 -7.445599e+12 6.108297e+12 1.668873e+12 1.171889e+12  
## [18,] 7.306943e+12 -1.019467e+13 1.173809e+13 -3.426390e+11 -1.027542e+12  
## [19,] 4.858150e+12 -3.204223e+12 -7.111069e+12 3.488639e+12 5.413020e+12  
## [20,] -6.758711e+12 9.126060e+12 -1.174588e+13 5.792895e+12 9.627111e+12  
## [21,] -1.156616e+13 1.669116e+13 -2.358675e+13 1.733612e+12 1.210962e+13  
## [22,] 2.317905e+12 6.794935e+12 5.259839e+12 -4.343595e+12 -8.455851e+12  
## [23,] -1.598111e+13 2.139484e+13 -1.416942e+13 1.572887e+12 1.091753e+13  
## [24,] 4.129765e+12 -5.749092e+12 1.656389e+13 -4.472739e+12 -1.417340e+13  
## [25,] -1.892134e+11 7.218602e+12 2.779858e+10 -4.310649e+12 -3.364317e+12  
## [26,] 1.045335e+11 -6.748829e+11 -8.561100e+11 2.144986e+12 6.301351e+12  
## [27,] -6.748829e+11 2.810063e+12 7.570396e+11 -1.868950e+12 -7.657904e+12  
## [28,] -8.561100e+11 7.570396e+11 -1.751665e+13 4.984267e+12 1.354570e+13  
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## [31,] -1.766280e+12 -2.310027e+11 7.134395e+12 -6.431964e+12 -1.031245e+13  
## [32,] -9.742181e+12 1.032474e+13 -9.289406e+12 3.818632e+11 4.778529e+12  
## [33,] 1.069018e+13 -1.485178e+13 7.595808e+12 2.472230e+12 4.580057e+12  
## [34,] 5.344444e+12 -3.525119e+12 -1.495687e+13 1.162283e+12 5.387786e+12  
## [35,] 3.851101e+11 4.812053e+12 -1.237813e+13 -3.291576e+12 -3.150820e+12  
## [36,] -4.671010e+12 6.285183e+12 -2.576472e+12 -6.327137e+11 -2.542226e+12  
## [37,] -2.298832e+12 3.437059e+12 1.119045e+13 -2.680689e+12 -4.744939e+12  
## [38,] 5.836792e+12 1.190947e+12 5.571006e+11 -3.060513e+12 -1.770173e+12  
## [39,] 2.265205e+13 -2.196620e+13 7.222950e+12 -4.816340e+12 -1.068905e+13  
## [40,] -2.330223e+12 -7.130944e+11 4.760380e+12 2.080614e+12 -7.140458e+12  
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## [50,] -2.511711e+12 5.878720e+12 -3.729093e+12 -2.611190e+12 -3.585428e+12  
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## [55,] -9.655692e+11 -1.090934e+12 -1.511619e+12 1.102296e+12 9.594865e+12  
## [56,] -1.401295e+13 1.412346e+13 -6.823162e+12 2.809733e+12 8.515251e+12  
## [57,] 1.221119e+13 -1.946572e+13 9.827653e+12 -1.545262e+12 -1.580463e+12  
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## [69,] 3.007582e+12 2.690963e+12 -7.340112e+11 -1.858257e+12 -7.304001e+12  
## [70,] -2.927745e+12 -4.824325e+11 2.889910e+12 -3.849794e+12 1.636542e+12  
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## [80,] -9.402721e+12 1.431559e+13 -1.483405e+13 9.433071e+11 5.258740e+11  
## [81,] -1.280104e+13 1.422530e+13 -2.123585e+12 -3.053084e+12 3.677221e+12  
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## [7,] -2.124938e+13 -1.053057e+13 6.714672e+13 1.306963e+13 -1.120035e+13  
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## [99,] -2.925241e+11 6.245043e+12 4.226681e+12 7.777506e+12 -1.415760e+11  
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## [101,] 1.083839e+12 -3.853670e+12 2.183492e+12 -4.265815e+12 2.603639e+12  
## [102,] -3.192322e+12 -2.959735e+12 -3.286923e+12 2.338661e+11 -2.822012e+12  
## [103,] -9.019393e+12 3.301886e+11 8.257934e+12 1.891763e+13 5.908985e+12  
## [104,] 2.480557e+11 5.027085e+12 8.948016e+11 1.766296e+12 1.233708e+12  
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## [106,] -4.530734e+12 5.996877e+12 3.511838e+12 1.279179e+13 3.842848e+12  
## [107,] 9.918176e+12 2.001814e+11 -7.077323e+12 -3.240130e+13 -2.970301e+11  
## [108,] -3.133310e+12 -1.043684e+13 -9.017719e+11 -5.298727e+12 -9.603018e+12  
## [109,] 1.821632e+11 -5.894757e+12 1.194000e+12 -1.064854e+12 -3.979505e+12  
## [110,] -6.269109e+12 1.669118e+12 6.975177e+12 9.418717e+12 1.977582e+12  
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## [112,] -1.254832e+13 -1.814723e+13 1.904374e+12 3.704655e+13 -7.425290e+12  
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## [4,] 7.759640e+12 3.538414e+13 1.902275e+13 1.157110e+13 1.785497e+13  
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## [65,] -6.216763e+12 -1.596843e+13 -9.484427e+12 -3.801628e+12 -7.321004e+12  
## [66,] 1.755624e+11 -1.326499e+12 1.606554e+12 -3.163522e+11 -1.060937e+12  
## [67,] -2.883047e+12 3.119352e+12 1.549571e+12 -2.190150e+11 2.204451e+12  
## [68,] -1.405462e+12 7.629216e+12 1.537775e+13 8.110140e+12 1.553743e+12  
## [69,] -8.648399e+11 2.340805e+13 2.205656e+13 9.111615e+12 -2.568385e+12  
## [70,] -1.084626e+11 3.047194e+11 -7.046743e+11 -4.481197e+11 2.016260e+11  
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## [72,] 2.920576e+12 1.037888e+13 5.655549e+12 1.082865e+12 3.765804e+12  
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## [75,] -1.766775e+12 -2.119756e+13 -1.347105e+13 -7.307389e+12 -8.696202e+11  
## [76,] 3.375314e+12 -8.438960e+11 -1.213341e+13 -3.570287e+12 5.551710e+12  
## [77,] 7.787638e+12 1.693394e+13 1.033117e+12 -2.110661e+12 1.027853e+13  
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## [80,] 9.029774e+12 2.331077e+13 8.281725e+12 6.476930e+12 6.969566e+12  
## [81,] 1.795618e+12 1.602111e+13 1.151012e+13 2.240049e+12 3.608782e+12  
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## [103,] -4.766762e+12 -8.309997e+12 -1.303700e+12 -4.827919e+12 -7.821938e+12  
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## [36,] -3.774370e+12 -3.769161e+12 -3.884184e+12 -6.188311e+12 5.647590e+12  
## [37,] 1.363545e+12 -7.284520e+11 1.080239e+12 -1.481233e+13 3.844078e+11  
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## [39,] 3.002353e+13 6.723927e+12 -2.017730e+12 1.973009e+13 -4.657718e+12  
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## [199,] 1.063506e+13 2.364097e+11 5.853454e+12 6.773975e+12 -3.553780e+12  
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## [2,] 5.613873e+12 -4.471842e+13 -2.544807e+13 1.806295e+13 1.982580e+13  
## [3,] -2.271251e+12 5.213351e+12 -9.830382e+11 -2.411670e+13 1.372770e+13  
## [4,] -7.591559e+12 4.966646e+13 2.894395e+13 -2.556375e+13 -1.498867e+13  
## [5,] -1.135369e+13 -4.894291e+13 -1.550199e+13 1.349670e+13 1.325192e+13  
## [6,] 3.475375e+12 1.912036e+13 4.313808e+12 -1.390456e+13 -3.665952e+12  
## [7,] -1.398264e+13 -5.777939e+13 -1.934144e+13 1.950876e+13 2.496781e+13  
## [8,] -6.719999e+12 -3.007189e+12 7.808481e+12 -1.000592e+13 9.613188e+12  
## [9,] -5.881071e+12 -1.899398e+13 -4.518013e+12 2.105093e+13 -7.465655e+12  
## [10,] -1.632650e+12 -3.800894e+13 -2.189045e+13 1.422059e+12 1.278819e+13  
## [11,] 1.416290e+12 2.903161e+12 -3.168183e+12 9.503268e+12 -4.099856e+12  
## [12,] 3.588022e+12 1.710632e+12 -3.267736e+12 2.616861e+13 -1.136719e+13  
## [13,] 2.050071e+12 1.162364e+12 1.897940e+12 6.862192e+12 -6.193809e+12  
## [14,] -1.858917e+11 1.441289e+13 1.028832e+13 -7.890601e+12 8.153561e+11  
## [15,] 6.664524e+11 1.937718e+13 1.455484e+13 -9.935961e+12 -3.863454e+12  
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## [21,] 8.328205e+12 2.259574e+13 1.262606e+13 8.986122e+12 -1.798078e+13  
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## [25,] 1.061823e+12 2.623373e+13 7.758527e+12 -5.396987e+12 -8.536068e+12  
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## [30,] -3.152317e+12 -6.926531e+12 -3.103316e+11 4.320624e+11 9.594865e+12  
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## [32,] 6.150043e+11 2.024710e+13 1.409269e+13 -4.443301e+12 -1.246484e+13  
## [33,] -3.333261e+12 -3.932592e+13 -1.884240e+13 2.237855e+13 7.004166e+12  
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## [36,] -1.876867e+12 1.207673e+13 8.824427e+12 -9.921116e+12 -5.479953e+12  
## [37,] 1.807156e+12 1.603068e+13 5.854501e+12 -3.458937e+12 2.110198e+12  
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## [41,] 1.038005e+12 1.489712e+13 2.986278e+12 -4.477036e+12 -1.217962e+11  
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## [43,] -8.102681e+11 1.707618e+13 2.161367e+13 -6.384117e+12 -7.793994e+12  
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## [67,] -1.257588e+13 1.024574e+13 6.813964e+12 -6.531653e+12 -5.995048e+11  
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## [78,] 3.607487e+12 -2.544354e+13 -1.668933e+13 9.261331e+12 1.016855e+13  
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## [165,] 4.652627e+12 -4.961551e+12 -7.543698e+12 -1.687277e+11 7.566270e+12  
## [166,] -8.852475e+10 2.398414e+13 2.516289e+13 -1.611061e+13 -1.214014e+13  
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## [172,] -6.308650e+12 1.865734e+13 1.268809e+13 -1.901591e+13 5.885554e+12  
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## [176,] -1.262387e+12 -1.807956e+13 -6.621350e+12 6.596893e+12 8.540457e+12  
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## [179,] 2.037910e+12 -1.564286e+13 -1.080686e+13 -6.422715e+11 9.633306e+12  
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## [4,] 2.815740e+13 -2.888423e+13 1.426869e+12 -5.574876e+12 1.502010e+13  
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## [134,] 1.759539e+12 -8.490846e+12 -9.161931e+11 1.498628e+12 9.776810e+12  
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## [139,] -2.256615e+12 1.010624e+13 6.399932e+10 5.133713e+12 -4.629453e+12  
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## [5,] 8.451825e+12 -5.581969e+12 2.297052e+13 -1.057693e+13 2.885664e+13  
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## [102,] 3.425075e+12 -1.849118e+12 5.663684e+12 -1.608625e+12 1.094978e+13  
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## [105,] -8.113018e+12 -3.198544e+11 -3.302213e+12 -1.456329e+12 -1.299314e+13  
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## [107,] -6.422587e+12 6.080605e+12 -1.145833e+13 2.366352e+12 -1.837716e+13  
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## [66,] 2.439503e+12 5.116748e+12 -1.458998e+12 -2.164526e+12 -3.118288e+12  
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## [72,] -1.209474e+12 -5.618810e+12 9.277473e+12 8.056017e+12 4.178580e+12  
## [73,] -8.994687e+11 -1.113470e+13 -3.367229e+12 1.231245e+12 1.272343e+12  
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## [75,] 3.627424e+10 -1.304099e+12 -7.244686e+12 -5.246660e+12 -2.065150e+12  
## [76,] 6.864728e+11 -7.794641e+12 8.089211e+12 1.683946e+13 -2.561029e+12  
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## [80,] -4.080439e+12 2.943630e+12 1.370005e+13 1.339106e+13 -2.205629e+12  
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## [82,] -1.838691e+12 -2.315807e+12 -7.212039e+12 -9.480129e+12 -3.068326e+11  
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## [31,] 6.583458e+12 1.206475e+13 -1.330743e+13 1.718081e+12 -1.225962e+13  
## [32,] 1.355176e+13 -5.077535e+12 -1.618883e+13 -3.857865e+12 -6.309016e+12  
## [33,] -5.692119e+12 -2.221953e+12 2.150004e+13 2.309460e+13 1.764184e+13  
## [34,] -1.107600e+13 -8.524087e+12 1.547142e+13 -1.159875e+13 1.691044e+13  
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## [38,] -5.917776e+12 6.722545e+12 1.012393e+13 3.466675e+12 -6.368879e+12  
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## [41,] 1.326815e+12 2.920576e+12 1.098312e+12 -8.968765e+12 -1.766775e+12  
## [42,] 1.189441e+13 1.037888e+13 -2.234897e+13 4.901745e+12 -2.119756e+13  
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## [197,] 1.755244e+12 -3.096424e+12 -1.506005e+12 -2.141844e+12 -2.583886e+12  
## [198,] -1.472923e+12 -5.767532e+12 1.223702e+13 9.218264e+12 1.213662e+13  
## [199,] -1.407332e+13 -1.951044e+12 1.811236e+13 2.550421e+12 1.330270e+13  
## [,76] [,77] [,78] [,79] [,80]  
## [1,] -1.388181e+12 -6.884164e+12 2.071396e+13 -1.696928e+13 -1.545727e+13  
## [2,] 1.328135e+13 -2.435451e+11 1.594819e+13 -1.231796e+13 -1.560011e+13  
## [3,] 3.128794e+13 3.884788e+13 -2.009021e+13 3.282557e+13 2.491119e+13  
## [4,] -1.992434e+12 7.746326e+12 -2.379906e+13 2.602024e+13 2.509391e+13  
## [5,] -4.102097e+12 -1.777216e+13 2.508157e+13 -1.828118e+13 -2.248173e+13  
## [6,] 7.149832e+12 1.329905e+13 -8.352910e+12 2.064762e+13 1.099794e+13  
## [7,] 1.258459e+12 -2.654006e+13 1.100311e+13 -3.161708e+13 -3.335398e+13  
## [8,] 8.927275e+12 8.554687e+12 -1.177121e+13 1.093892e+13 5.192525e+12  
## [9,] -2.459878e+13 -3.304735e+13 1.891762e+13 -3.950477e+13 -2.510619e+13  
## [10,] 1.110929e+13 -3.290592e+12 1.152262e+13 -6.685870e+12 -1.410736e+13  
## [11,] 9.811202e+11 -1.478907e+12 2.203397e+12 -2.852515e+12 -1.542321e+12  
## [12,] -2.818608e+13 -2.882600e+13 2.310712e+13 -3.233311e+13 -2.444857e+13  
## [13,] -7.804753e+12 -1.246407e+13 6.567036e+12 -7.625928e+12 -6.133766e+12  
## [14,] -1.471835e+12 8.186840e+11 -1.245627e+13 7.832069e+12 1.169723e+13  
## [15,] -1.930330e+12 1.004490e+13 -8.279820e+12 1.195598e+13 1.256907e+13  
## [16,] 2.268099e+13 -1.686589e+12 5.379105e+10 -1.733295e+13 -1.562069e+13  
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## [18,] 2.917642e+12 -6.842831e+12 6.228954e+12 -1.557113e+13 -1.835262e+13  
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## [20,] -3.770954e+12 -1.010718e+13 -4.456528e+12 -9.566512e+12 -2.482579e+12  
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## [22,] 1.308184e+13 2.117274e+13 -8.330992e+12 2.756365e+13 1.642247e+13  
## [23,] -1.673715e+13 1.014042e+11 -1.202283e+13 6.727673e+12 1.175593e+13  
## [24,] 1.526201e+13 1.407553e+13 -5.628862e+12 1.190342e+13 7.948982e+12  
## [25,] 1.994951e+12 8.521932e+12 -9.471033e+12 1.318340e+13 1.174949e+13  
## [26,] -4.247692e+12 -1.115825e+13 1.080553e+13 -1.089407e+13 -9.402721e+12  
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## [30,] 5.967320e+12 7.908074e+12 -2.951888e+12 4.453699e+12 5.258740e+11  
## [31,] 6.276211e+12 1.928222e+13 -3.969821e+12 2.361602e+13 2.044659e+13  
## [32,] -1.487539e+13 -2.262733e+11 -3.079433e+12 1.076957e+12 5.430651e+12  
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## [34,] -1.862425e+12 -1.887240e+13 7.443755e+12 -2.231628e+13 -1.831403e+13  
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## [46,] 1.530631e+11 -1.557956e+12 1.203065e+13 -1.028563e+13 -3.436001e+12  
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## [70,] -2.561029e+12 1.116289e+11 -6.721294e+11 1.221273e+12 -2.205629e+12  
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## [80,] -4.786649e+12 7.263974e+12 -1.307087e+13 7.268826e+12 1.584019e+13  
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## [164,] -8.488590e+12 7.255408e+12 -2.645494e+12 1.053243e+13 7.724975e+12  
## [165,] 1.194853e+13 8.979865e+12 -5.135204e+12 8.908259e+12 1.594393e+12  
## [166,] -9.215319e+12 2.724413e+12 -1.428717e+13 1.103061e+13 1.776520e+13  
## [167,] 6.958818e+12 1.713278e+13 -1.692036e+13 1.781465e+13 1.482143e+13  
## [168,] -3.651044e+11 1.278337e+13 -6.216975e+12 1.744633e+13 1.695822e+13  
## [169,] -5.984206e+12 -2.909367e+12 -3.300133e+12 1.922925e+10 1.744563e+12  
## [170,] 8.391315e+12 1.913048e+12 -1.931629e+12 3.044647e+12 -2.117144e+12  
## [171,] 2.915068e+12 -1.691777e+12 6.003483e+12 -4.581840e+12 -6.138164e+12  
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## [173,] -5.430967e+12 3.209234e+11 -7.527785e+12 4.639884e+12 8.754036e+12  
## [174,] -6.412095e+12 2.774825e+12 -8.590425e+12 7.156825e+12 4.790686e+12  
## [175,] -2.023216e+12 -8.423083e+12 -8.150479e+11 -3.720097e+12 -5.653958e+12  
## [176,] 1.221812e+12 -5.153602e+12 2.721025e+12 -9.764420e+12 -9.669740e+12  
## [177,] 7.121611e+12 3.202862e+12 -1.374118e+12 5.929647e+12 5.544348e+11  
## [178,] -1.607918e+13 -1.368219e+13 1.114228e+13 -1.710915e+13 -9.451179e+12  
## [179,] 8.199473e+12 -2.156641e+11 -4.408347e+12 -4.765147e+12 4.297389e+11  
## [180,] 8.310719e+12 1.268114e+13 -3.657974e+12 1.271672e+13 9.750517e+12  
## [181,] 1.326427e+13 -3.982842e+12 -5.569724e+12 -1.101164e+12 -3.749520e+12  
## [182,] -7.046578e+12 -1.479962e+13 2.705061e+13 -2.245027e+13 -2.447254e+13  
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## [186,] -2.789960e+12 -1.565598e+13 3.122331e+13 -2.488789e+13 -2.653528e+13  
## [187,] -1.863818e+12 -3.005569e+12 1.673141e+12 -3.932320e+12 -6.666244e+12  
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## [189,] 3.196248e+12 -8.253162e+12 1.513837e+13 -1.792786e+13 -1.790081e+13  
## [190,] -1.146228e+13 -6.837914e+12 3.019580e+12 -8.216469e+11 1.136436e+12  
## [191,] 1.314815e+13 9.177721e+12 -1.254389e+13 8.375399e+12 7.078312e+12  
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## [3,] 2.699609e+13 -9.897718e+12 1.135432e+13 5.685127e+12 -1.392050e+13  
## [4,] 3.145559e+13 -6.296753e+12 -1.051495e+13 1.104161e+13 1.525899e+12  
## [5,] -2.254633e+13 -2.443974e+12 5.976796e+12 -1.262365e+13 -1.037227e+13  
## [6,] 8.231372e+12 -3.376242e+11 -6.130481e+12 4.906406e+12 4.455021e+12  
## [7,] -1.974375e+13 -9.966212e+09 -1.494717e+11 -1.636694e+13 -1.318063e+13  
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## [9,] -2.950056e+13 7.884776e+12 -3.786356e+12 -6.138961e+12 1.326933e+13  
## [10,] -1.368826e+13 -1.543338e+12 5.101095e+12 -5.821732e+12 -6.982719e+12  
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## [13,] -5.160823e+12 6.099356e+12 -7.080415e+12 4.285399e+11 4.538617e+12  
## [14,] 1.467433e+13 -4.939529e+12 -7.303152e+12 8.414312e+11 -4.477792e+12  
## [15,] 1.141750e+13 1.360100e+12 -2.806034e+12 5.733988e+12 3.940992e+12  
## [16,] -1.369232e+13 5.478060e+11 2.697333e+12 -7.004746e+12 -8.044311e+12  
## [17,] -1.056624e+13 5.676593e+12 3.473773e+12 -5.572477e+12 1.446937e+12  
## [18,] -1.380312e+13 1.130985e+12 5.597543e+12 -4.492360e+12 -5.366359e+12  
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## [20,] -8.396960e+12 3.996291e+12 -5.319456e+12 7.954252e+11 4.750261e+12  
## [21,] -5.343181e+12 5.146919e+12 -7.168658e+12 1.135884e+11 1.196015e+13  
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## [131,] 3.776149e+12 -9.080897e+11 6.090855e+11 1.887747e+12 -1.141062e+12  
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## [133,] 6.151342e+11 1.127439e+12 5.080813e+12 -4.433236e+12 -3.041040e+12  
## [134,] 3.231830e+12 -2.111664e+12 1.006904e+12 1.707952e+12 3.940250e+11  
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## [140,] 5.143029e+12 1.437737e+12 -5.122893e+11 5.324825e+12 1.082644e+13  
## [141,] 3.034291e+13 -1.286414e+13 -3.528702e+11 6.249437e+12 -5.604986e+12  
## [142,] 1.013370e+13 2.621629e+11 -3.645245e+11 8.558446e+12 7.836790e+12  
## [143,] -1.073518e+12 -3.700903e+12 3.179791e+12 -2.548184e+12 -7.294895e+12  
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## [160,] 4.016276e+12 -2.191767e+12 -1.624272e+12 3.580711e+12 -2.290267e+11  
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## [163,] -2.815161e+13 1.134810e+13 -5.615037e+10 -7.614955e+12 6.504721e+12  
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## [166,] 1.586568e+13 -4.413404e+12 -3.729837e+12 8.120843e+12 3.167930e+12  
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## [99,] 7.057021e+12 1.068012e+13 4.268921e+12 6.439099e+12 6.188013e+11  
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## [101,] -1.008639e+13 -5.733216e+12 2.849067e+12 2.365073e+11 9.332980e+12  
## [102,] -6.090588e+11 3.403932e+12 -4.200618e+12 -6.245539e+12 -6.587018e+12  
## [103,] -6.679743e+11 5.704612e+12 -1.698578e+12 3.048676e+12 -1.335027e+13  
## [104,] 2.235692e+12 2.598619e+12 4.060009e+12 4.478076e+12 5.188041e+12  
## [105,] -2.203715e+12 -1.093625e+13 2.445158e+12 2.960490e+12 7.850026e+12  
## [106,] 2.508346e+12 5.133151e+12 7.383143e+11 6.952060e+12 -4.585207e+12  
## [107,] 2.039243e+12 -1.177075e+13 7.670206e+12 -2.964891e+12 1.101391e+13  
## [108,] -1.083057e+13 -7.782745e+12 -3.663555e+12 -1.119600e+13 -1.747873e+12  
## [109,] -2.765259e+12 -9.698562e+11 3.360353e+12 -6.108316e+12 -2.794316e+12  
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## [111,] 1.104869e+12 -1.488134e+13 4.596247e+12 -6.234576e+12 1.690074e+13  
## [112,] -8.575159e+12 2.141074e+13 -8.862520e+12 -7.973750e+12 -2.621272e+13  
## [113,] -3.300135e+11 -1.027704e+13 -1.820900e+11 1.869856e+12 7.204045e+12  
## [114,] 8.804175e+12 8.189466e+12 1.234544e+11 -4.854981e+12 -7.829533e+12  
## [115,] 9.529338e+12 5.978927e+12 5.297456e+12 4.364507e+12 6.244822e+12  
## [116,] -2.446250e+12 -8.371983e+12 6.191050e+12 -1.219866e+12 1.033986e+13  
## [117,] 1.063605e+13 -6.580126e+12 7.178557e+12 4.852939e+12 1.283267e+13  
## [118,] 1.019974e+12 1.006819e+13 -6.400878e+12 -3.639702e+11 -1.552973e+13  
## [119,] 2.114810e+12 -4.423645e+12 9.842847e+12 3.298759e+12 9.655263e+12  
## [120,] 9.242841e+12 -9.150569e+12 1.488273e+13 7.782041e+12 2.497528e+13  
## [121,] -1.451197e+12 1.835840e+13 -6.658338e+12 -1.000462e+12 -2.433135e+13  
## [122,] -3.137777e+12 1.224130e+13 -4.428668e+12 -2.202674e+12 -2.356189e+13  
## [123,] -6.809682e+11 -3.015697e+12 2.282228e+12 1.830094e+12 6.415739e+12  
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## [128,] -1.409987e+13 -9.214832e+11 -9.542599e+12 -8.112891e+12 -1.361304e+13  
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## [130,] -1.232258e+13 4.252782e+12 -8.278160e+12 -8.913965e+12 -1.692010e+13  
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## [150,] -8.538233e+12 -1.444227e+13 -1.991480e+12 -5.641403e+12 1.067549e+13  
## [151,] 1.324826e+12 -1.424019e+13 5.491750e+12 7.904857e+12 1.729646e+13  
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## [154,] -6.372230e+12 -5.690712e+11 -8.247446e+12 -1.039247e+13 -4.290281e+12  
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## [174,] 6.869712e+12 -6.827417e+12 7.793277e+12 5.016584e+12 1.406591e+13  
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## [67,] 1.346054e+12 4.801117e+12 1.172074e+11 -6.668889e+12 2.528628e+12  
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## [73,] 3.786979e+12 5.424804e+12 -2.856522e+13 7.351295e+12 6.125544e+12  
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## [77,] 5.293084e+12 1.152610e+13 4.823290e+12 2.306769e+12 -3.171457e+12  
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## [81,] 7.254406e+12 7.887859e+12 1.650098e+13 -8.706601e+12 -7.549391e+12  
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## [33,] 3.798877e+13 -4.369200e+12 -1.009219e+13 -8.962361e+12 1.361642e+12  
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## [35,] 2.525975e+12 1.611614e+12 5.068946e+09 -1.874208e+12 -4.892760e+11  
## [36,] -1.174544e+13 -1.383186e+12 1.079880e+12 -2.925241e+11 1.724123e+12  
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## [40,] -9.489965e+11 4.965338e+12 2.818520e+12 -1.415760e+11 -3.968439e+12  
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## [,101] [,102] [,103] [,104] [,105]  
## [1,] 5.305772e+12 2.480499e+12 6.433331e+12 1.268759e+12 -7.749722e+12  
## [2,] -1.509354e+13 1.472411e+13 1.862753e+13 -8.807340e+11 -1.447516e+13  
## [3,] -1.375090e+13 -1.229023e+13 -1.165110e+13 2.145188e+13 -1.016402e+13  
## [4,] 9.168531e+12 -1.563375e+13 -2.145569e+13 5.731807e+12 1.436668e+13  
## [5,] -7.964701e+12 1.358144e+13 2.446151e+13 -1.665759e+13 1.463633e+12  
## [6,] 1.093612e+12 -9.810460e+12 -7.991357e+12 4.395442e+12 -3.598156e+12  
## [7,] -2.553579e+13 1.858323e+13 2.180246e+13 -8.511235e+12 -1.194311e+13  
## [8,] -1.060892e+13 8.777957e+11 -1.030189e+12 3.298973e+11 1.902246e+12  
## [9,] 1.140584e+13 1.248994e+13 1.120768e+13 -1.448021e+13 8.703512e+12  
## [10,] -1.350067e+13 9.432937e+12 1.152388e+13 -3.275919e+12 -1.378574e+13  
## [11,] 3.375207e+12 -1.921473e+12 -3.689838e+12 4.366322e+12 -4.132167e+12  
## [12,] 1.389956e+13 6.403769e+12 1.670759e+13 -1.845675e+13 8.191615e+12  
## [13,] 5.530633e+12 5.170746e+12 -9.206800e+11 -6.373120e+12 -2.985978e+12  
## [14,] -1.934110e+12 -1.307448e+11 -6.767863e+12 1.655987e+12 5.295189e+12  
## [15,] 6.055510e+12 -8.863147e+12 -1.099387e+13 2.292381e+12 2.707824e+12  
## [16,] -3.062387e+13 6.409057e+12 2.728010e+12 8.358117e+12 -1.630391e+13  
## [17,] -3.608157e+12 4.435741e+12 1.451878e+13 -3.869553e+12 -3.242491e+12  
## [18,] -1.556036e+13 1.294858e+13 1.173946e+13 -7.360639e+12 -1.263060e+13  
## [19,] -1.185898e+13 6.498816e+12 -2.268911e+12 3.066068e+12 -4.353595e+12  
## [20,] 3.006699e+12 1.765369e+12 -2.248149e+12 -2.566162e+11 -1.551218e+12  
## [21,] 1.904187e+13 -3.048705e+11 -1.119556e+11 -5.131811e+12 1.326643e+13  
## [22,] 3.797967e+12 -1.276753e+13 -9.154559e+12 1.014811e+13 3.117604e+12  
## [23,] 1.873442e+13 -6.721611e+12 -1.650991e+13 3.131548e+11 1.389321e+13  
## [24,] -8.725603e+12 -8.864069e+11 -1.728547e+12 6.931535e+12 -3.466083e+12  
## [25,] 5.082484e+12 -4.515983e+12 -1.132269e+13 4.000727e+12 4.114954e+12  
## [26,] 5.455221e+12 2.513726e+12 3.444676e+12 -1.239559e+12 -4.629231e+12  
## [27,] 3.338337e+12 -9.370125e+12 -6.689506e+12 8.203368e+12 5.312108e+12  
## [28,] -3.572963e+12 1.095934e+13 1.656423e+12 -7.361703e+12 3.374342e+12  
## [29,] -1.322191e+12 4.200662e+12 1.607386e+12 -3.714301e+11 -8.467977e+10  
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## [31,] 6.645866e+12 -1.034827e+13 -7.197429e+12 5.510935e+12 2.173673e+12  
## [32,] 1.242117e+13 -1.977938e+12 -4.346745e+12 -5.141171e+12 9.061360e+12  
## [33,] 1.374918e+12 1.145337e+13 1.893884e+13 -1.077362e+13 -4.352631e+12  
## [34,] -2.505341e+12 7.054185e+12 5.259667e+12 -3.479092e+12 -8.165003e+12  
## [35,] 5.113677e+12 -4.790326e+12 -5.114262e+12 2.659804e+12 2.309861e+12  
## [36,] 1.083839e+12 -3.192322e+12 -9.019393e+12 2.480557e+11 -1.668526e+12  
## [37,] -3.853670e+12 -2.959735e+12 3.301886e+11 5.027085e+12 3.053475e+12  
## [38,] 2.183492e+12 -3.286923e+12 8.257934e+12 8.948016e+11 6.444725e+12  
## [39,] -4.265815e+12 2.338661e+11 1.891763e+13 1.766296e+12 -1.400084e+13  
## [40,] 2.603639e+12 -2.822012e+12 5.908985e+12 1.233708e+12 5.661786e+12  
## [41,] 4.410818e+11 -4.041816e+12 -4.766762e+12 3.737249e+12 -8.884772e+11  
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## [43,] 1.004503e+13 -3.379825e+12 -1.303700e+12 -9.057987e+12 1.477321e+13  
## [44,] 3.753737e+12 -1.872027e+12 -4.827919e+12 -1.959663e+12 1.406853e+12  
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## [49,] -1.740480e+13 1.341032e+13 4.757742e+12 -5.056171e+12 -1.236533e+13  
## [50,] 4.853580e+12 -4.190210e+12 -8.929541e+12 5.604275e+12 -3.609787e+11  
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## [54,] -6.520516e+12 1.398116e+12 3.134407e+12 1.136529e+11 -5.103405e+12  
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## [57,] -5.381296e+12 7.128093e+12 1.228142e+13 -3.347361e+12 -9.479828e+12  
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## [59,] 8.289867e+12 -2.942875e+11 6.107275e+12 -2.948640e+12 5.267524e+12  
## [60,] 1.358491e+13 -4.603600e+12 -1.068062e+13 -5.020847e+11 2.518621e+12  
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## [67,] 1.780490e+12 -2.491022e+12 -4.910670e+11 -2.526153e+12 9.182597e+12  
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## [83,] 7.014408e+11 3.849853e+11 2.040788e+12 -1.294177e+12 -2.232245e+12  
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## [173,] 6.525008e+12 -4.255510e+12 -6.594789e+12 -3.924493e+10 6.621014e+12  
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## [177,] -7.330730e+12 2.653054e+12 5.367101e+12 -2.083690e+12 5.702519e+11  
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## [3,] 1.676710e+13 9.162512e+12 -3.902271e+13 -1.028052e+13 -1.527451e+12  
## [4,] -6.895995e+12 3.261184e+13 7.285626e+12 7.837136e+12 -8.169276e+12  
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## [7,] 3.910787e+12 -8.052893e+12 -2.223613e+12 -1.102106e+12 -2.514053e+12  
## [8,] 4.103741e+12 9.809785e+12 -1.458549e+13 -8.444802e+12 -3.788176e+12  
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## [14,] 3.818927e+11 1.462314e+13 3.255206e+12 -6.187212e+11 -6.640153e+10  
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## [138,] 3.062873e+12 4.292983e+12 -2.783054e+12 -2.779837e+11 -2.798752e+12  
## [139,] 3.169698e+12 -7.340565e+12 -1.749284e+12 8.069266e+11 1.550783e+12  
## [140,] -7.038353e+12 3.569480e+12 1.173125e+13 -2.138240e+12 -1.632530e+12  
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## [160,] -2.094831e+12 5.951955e+12 -5.696486e+12 2.541402e+12 -5.402399e+12  
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## [67,] 2.047914e+12 -4.951576e+12 -5.103467e+12 -5.222631e+11 -5.675813e+12  
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## [69,] 1.044816e+13 1.832795e+13 -5.829087e+12 1.312703e+13 3.709769e+13  
## [70,] 1.396066e+12 1.678633e+12 -1.062591e+12 -1.219189e+11 -3.857587e+12  
## [71,] 3.633271e+12 1.158975e+13 -5.339936e+12 5.755383e+12 1.813853e+13  
## [72,] -1.885855e+12 4.950899e+12 -3.327611e+12 -3.105593e+12 -4.506892e+12  
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## [81,] 7.812149e+12 1.600437e+13 -1.465279e+13 3.918742e+12 1.210305e+13  
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## [199,] 2.074471e+13 1.832981e+13 -5.151020e+12 -8.551385e+12 9.034946e+12  
## [,126] [,127] [,128] [,129] [,130]  
## [1,] 1.363321e+13 -1.583913e+13 1.586517e+13 1.685278e+13 1.820376e+13  
## [2,] 2.257562e+13 -4.374803e+13 -2.192860e+11 1.444957e+13 8.797643e+12  
## [3,] -1.685888e+13 1.591610e+12 -5.725666e+13 -1.064788e+13 -3.230893e+13  
## [4,] -2.025257e+13 4.363073e+13 -1.064822e+13 -1.407283e+13 -2.084220e+13  
## [5,] 3.132126e+13 -5.755080e+13 2.367061e+13 2.233626e+13 2.512104e+13  
## [6,] -1.090584e+13 1.527295e+13 -1.581780e+13 1.265192e+12 -1.526423e+13  
## [7,] 2.795603e+13 -6.075622e+13 1.802083e+13 7.174465e+11 2.738842e+13  
## [8,] -2.896452e+12 -1.149810e+13 -1.626450e+13 -8.333699e+12 -1.053434e+13  
## [9,] 1.570220e+13 -1.991110e+13 4.465785e+13 7.850173e+12 3.599036e+13  
## [10,] 9.370433e+12 -4.235911e+13 -3.713636e+12 7.343766e+12 5.933998e+12  
## [11,] -6.244439e+12 1.049795e+13 7.643066e+12 -2.902180e+11 8.337444e+12  
## [12,] 2.395808e+13 -2.168195e+13 4.980408e+13 2.511254e+13 3.325757e+13  
## [13,] 5.143953e+12 2.013514e+12 1.106961e+13 2.049525e+12 1.146168e+13  
## [14,] -9.824891e+12 1.671082e+13 -6.701932e+12 -1.046234e+13 -1.015569e+13  
## [15,] -9.509684e+12 1.538641e+13 -1.070330e+13 1.593933e+12 -1.058710e+13  
## [16,] 7.113270e+11 -3.353090e+13 -1.068130e+13 -8.327022e+12 1.166821e+13  
## [17,] 1.557446e+13 -2.820848e+13 1.442670e+13 1.222016e+13 2.093021e+13  
## [18,] 1.112924e+13 -3.249326e+13 1.251614e+11 4.843909e+12 8.184133e+12  
## [19,] -1.022343e+12 -1.125379e+13 4.582164e+12 -1.431472e+13 7.906712e+12  
## [20,] -7.527939e+12 5.465980e+12 9.375468e+12 -7.036192e+12 6.875375e+12  
## [21,] 1.854527e+12 2.605470e+13 1.885020e+13 1.395427e+12 5.952262e+12  
## [22,] -1.088060e+13 1.900282e+13 -2.453289e+13 -1.319805e+13 -1.652756e+13  
## [23,] -1.329281e+13 4.015138e+13 6.864514e+12 -6.751183e+12 -6.915098e+12  
## [24,] -5.421535e+12 -7.744778e+12 -1.949297e+13 -2.714762e+12 -1.189174e+13  
## [25,] -1.226471e+13 2.234522e+13 -6.928732e+12 -7.615652e+12 -1.028696e+13  
## [26,] 5.661771e+12 -7.945178e+12 1.148039e+13 1.985757e+12 1.568836e+13  
## [27,] -4.369352e+12 1.642712e+13 -1.527486e+13 -4.721744e+12 -1.577887e+13  
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## [33,] 2.557264e+13 -4.452101e+13 2.842311e+13 1.861123e+13 3.304188e+13  
## [34,] 5.390746e+12 -1.152756e+13 1.939919e+13 -2.272114e+12 2.142938e+13  
## [35,] -3.181647e+12 1.535596e+13 -1.529978e+12 -1.815411e+12 5.361254e+10  
## [36,] -1.123531e+13 1.293541e+13 -1.073598e+13 -8.478572e+12 -9.368438e+12  
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## [40,] 8.004568e+12 -1.885423e+12 -7.636102e+12 3.056801e+12 -7.917464e+12  
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## [44,] -1.092855e+13 1.498658e+13 -2.357562e+11 -7.013850e+12 -4.678859e+12  
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## [165,] -1.873339e+12 -5.176918e+12 -1.390750e+13 7.694282e+11 -9.896193e+12  
## [166,] -1.266870e+13 2.689069e+13 -7.882901e+12 -7.981505e+12 -1.426998e+13  
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## [168,] -4.737862e+12 1.970197e+13 -1.013064e+13 -7.505108e+12 -1.150584e+13  
## [169,] -6.746007e+12 2.157500e+13 3.187002e+12 -6.118773e+12 -4.386521e+12  
## [170,] 2.441937e+12 -2.090514e+13 -4.456481e+12 4.944018e+12 -1.909392e+11  
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## [172,] -9.116317e+12 9.551374e+12 -2.762942e+13 -1.380877e+13 -2.443165e+13  
## [173,] -6.967474e+12 1.526296e+13 1.461345e+12 -6.227914e+12 -4.112613e+12  
## [174,] -7.061696e+12 2.155598e+13 -5.424419e+12 -6.251603e+12 -9.541853e+12  
## [175,] -3.256951e+10 -1.022860e+13 5.744544e+12 4.531511e+11 4.386038e+12  
## [176,] 3.475111e+12 -1.510780e+13 3.974170e+12 -5.998501e+11 7.876987e+12  
## [177,] 2.011917e+12 -7.614519e+12 -7.290065e+12 -2.196870e+12 -4.820302e+12  
## [178,] 4.526150e+12 1.005947e+13 2.595800e+13 6.350561e+12 1.769423e+13  
## [179,] -9.135266e+11 -8.484710e+12 -6.655217e+12 -3.611417e+12 -1.335920e+12  
## [180,] -6.087839e+12 5.175991e+12 -1.630086e+13 -2.932751e+12 -8.245425e+12  
## [181,] -3.647986e+12 -1.911835e+13 -1.469045e+13 -1.204458e+13 5.992657e+11  
## [182,] 1.882513e+13 -3.454878e+13 2.595302e+13 2.249706e+13 3.118960e+13  
## [183,] -8.981494e+12 2.005420e+13 -6.843986e+12 -1.028278e+13 -9.003483e+12  
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## [187,] 6.215791e+12 -2.082559e+13 2.851784e+12 6.498970e+11 -7.646171e+11  
## [188,] -3.967675e+12 1.121972e+13 1.135591e+12 7.795580e+11 -4.404427e+12  
## [189,] 1.877584e+13 -3.250499e+13 1.218993e+13 9.659450e+12 2.017586e+13  
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## [191,] -1.186903e+13 3.203496e+12 -2.007789e+13 -1.282726e+13 -1.154310e+13  
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## [193,] 7.160184e+11 -1.822108e+13 1.757084e+12 -9.771441e+12 8.121371e+12  
## [194,] 1.154511e+13 -2.940363e+13 8.408090e+12 6.926516e+12 1.416168e+13  
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## [199,] 9.002782e+12 -2.176231e+13 -5.978502e+12 2.474401e+12 7.416035e+12  
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## [2,] -6.090363e+12 -7.768661e+12 -1.025013e+12 -3.678891e+12 4.272912e+12  
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## [5,] -1.602610e+13 -1.747923e+13 8.696670e+11 -1.424200e+13 6.403080e+12  
## [6,] 7.978918e+12 1.509670e+13 -3.795971e+12 1.019905e+13 -3.104303e+12  
## [7,] 2.032623e+12 -1.694754e+13 5.204483e+11 -5.919292e+12 7.910794e+12  
## [8,] 8.755500e+12 2.348772e+13 -8.039127e+11 1.322085e+11 -2.984497e+12  
## [9,] -1.399220e+13 -4.507667e+13 9.853478e+12 -1.659473e+13 -1.537973e+13  
## [10,] -2.302205e+12 -7.895823e+11 -3.562019e+12 -7.443808e+12 1.223596e+13  
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## [13,] 2.220378e+12 -2.024700e+13 -2.638684e+12 3.028847e+12 -2.950054e+12  
## [14,] 8.916787e+12 1.318383e+13 -1.941318e+12 6.640732e+12 3.200998e+12  
## [15,] 8.623250e+12 1.157167e+13 -5.106414e+12 6.981992e+12 -4.210155e+12  
## [16,] 9.140562e+12 1.234906e+13 -1.490145e+12 -5.503623e+12 2.115266e+13  
## [17,] -1.115591e+13 -9.505005e+12 1.113780e+12 -4.663925e+12 2.743606e+12  
## [18,] 5.424583e+12 -7.661992e+12 -6.258590e+11 -4.088918e+12 7.387755e+12  
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## [20,] 8.812712e+11 -9.406577e+12 4.615953e+12 -1.999305e+12 -1.225030e+12  
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## [134,] 5.075425e+12 -2.350904e+11 -2.062122e+12 3.723813e+12 -2.283133e+12  
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## [106,] -1.399849e+13 1.276544e+12 3.062873e+12 3.169698e+12 -7.038353e+12  
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## [67,] 3.894190e+12 -3.050550e+12 8.832254e+12 -2.376227e+12 -3.418432e+12  
## [68,] 1.464852e+13 8.385969e+12 -1.006750e+13 1.449640e+13 -1.126187e+12  
## [69,] 1.610020e+13 1.963429e+13 -1.074136e+13 1.580265e+13 -5.833553e+12  
## [70,] 5.292866e+12 -3.882256e+12 2.185470e+12 -5.100553e+10 -1.494346e+12  
## [71,] 1.593466e+13 1.167630e+13 -5.187606e+12 1.101087e+13 -3.861763e+12  
## [72,] 8.448792e+12 -1.808748e+12 6.912064e+12 6.039694e+10 -5.384280e+12  
## [73,] -2.539128e+13 -1.953856e+13 1.026138e+13 -2.523209e+13 3.621395e+12  
## [74,] 2.805127e+12 -8.918253e+12 1.576476e+13 -1.401981e+13 -8.516654e+12  
## [75,] -2.082207e+13 -9.219013e+12 6.224023e+12 -1.839314e+13 3.682289e+12  
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## [77,] 1.533865e+13 8.565760e+12 2.275361e+11 1.398289e+13 -3.572359e+12  
## [78,] -1.910590e+13 -4.347973e+12 3.554069e+12 -1.798507e+13 4.042646e+12  
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## [80,] 2.754058e+13 1.370847e+13 -3.889021e+12 2.051297e+13 -7.494214e+12  
## [81,] 3.034291e+13 1.013370e+13 -1.073518e+12 1.828396e+13 -5.263931e+12  
## [82,] -1.286414e+13 2.621629e+11 -3.700903e+12 -3.272070e+12 4.573563e+12  
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## [84,] 6.249437e+12 8.558446e+12 -2.548184e+12 6.239220e+12 -4.149812e+11  
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## [32,] 8.144307e+12 -4.961241e+12 3.635452e+12 -1.918758e+13 1.895801e+13  
## [33,] 4.415497e+12 1.213395e+11 -1.624479e+13 9.391912e+12 -8.176913e+12  
## [34,] -2.869232e+12 6.541133e+12 -1.215485e+13 1.330032e+13 -5.808149e+12  
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## [36,] -3.030225e+12 5.506676e+11 7.281262e+12 -3.623610e+12 7.807758e+12  
## [37,] 2.457752e+12 -3.129049e+12 9.591099e+12 -8.385512e+11 -6.583850e+12  
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## [40,] 4.358997e+12 -3.448443e+12 7.013240e+12 -1.111484e+13 -1.347330e+12  
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## [42,] 5.102368e+12 -1.212913e+13 1.166636e+13 -2.141830e+13 6.330906e+12  
## [43,] 8.874343e+12 -1.065148e+13 2.712558e+12 -1.578147e+13 1.540562e+13  
## [44,] 3.320109e+12 -3.701026e+12 2.954200e+12 -9.227683e+12 7.011777e+12  
## [45,] -4.616205e+12 6.727505e+11 8.839515e+12 -5.956782e+11 -2.560666e+12  
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## [47,] -8.167760e+11 1.230016e+12 -3.973731e+12 3.229591e+12 -4.659642e+12  
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## [49,] -9.611676e+12 -5.173589e+11 -2.789327e+12 2.326519e+13 -1.465638e+13  
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## [198,] -3.358498e+12 1.474471e+12 -4.684815e+12 7.117869e+12 -4.733621e+12  
## [199,] -2.423956e+12 8.007590e+12 -5.417553e+12 1.381838e+13 -1.696047e+13  
## [,151] [,152] [,153] [,154] [,155]  
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## [2,] -2.465870e+13 -7.687891e+12 4.993820e+13 -8.394426e+12 -2.920020e+13  
## [3,] 2.127750e+13 4.017161e+13 2.362750e+13 -3.774589e+13 -5.722198e+12  
## [4,] 3.397571e+13 2.147386e+13 -4.720260e+13 -9.052874e+12 2.700361e+13  
## [5,] -2.731082e+13 -2.528139e+13 2.288828e+13 9.731850e+12 -2.851035e+13  
## [6,] 1.692626e+13 1.956942e+13 -1.232752e+12 -1.673509e+13 3.805990e+12  
## [7,] -3.475706e+13 -2.038158e+13 3.309389e+13 1.520783e+13 -1.879897e+13  
## [8,] 4.422641e+12 2.080161e+13 -1.522438e+12 -8.184864e+12 -2.859282e+12  
## [9,] -2.501405e+13 -3.096188e+13 -1.083940e+13 3.585592e+13 -7.068262e+12  
## [10,] -1.765769e+13 -4.315654e+12 3.072229e+13 -1.111151e+12 -1.591836e+13  
## [11,] -1.618012e+12 -4.697999e+12 5.377418e+12 -1.530103e+12 6.580190e+12  
## [12,] -1.715452e+13 -3.299514e+13 -8.995228e+12 3.080282e+13 -1.087963e+13  
## [13,] 5.607495e+11 -9.816232e+12 -4.159462e+12 7.690049e+12 2.119780e+12  
## [14,] 1.012848e+13 8.733139e+12 -1.063886e+13 -4.732676e+12 9.814965e+12  
## [15,] 1.716433e+13 1.409573e+13 -1.142353e+13 -8.568258e+12 8.210486e+12  
## [16,] -2.528013e+13 -6.512185e+12 5.347012e+13 9.518309e+11 -1.275724e+13  
## [17,] -1.702546e+13 -1.484530e+13 1.532093e+13 6.708322e+12 -1.046744e+13  
## [18,] -1.832438e+13 -8.551322e+12 2.672258e+13 6.481087e+12 -1.507707e+13  
## [19,] -1.393169e+13 -5.851161e+12 1.068582e+13 6.671681e+12 -3.537685e+11  
## [20,] -5.742239e+12 -8.029055e+12 -4.494945e+12 1.648588e+13 6.104171e+12  
## [21,] 3.516423e+12 -1.130002e+13 -2.073593e+13 1.033223e+13 4.587641e+12  
## [22,] 2.072169e+13 2.350607e+13 -5.154750e+12 -1.907622e+13 1.120430e+13  
## [23,] 2.547002e+13 8.225396e+12 -4.465672e+13 7.773259e+12 1.910474e+13  
## [24,] 4.070797e+12 1.255706e+13 2.097128e+13 -1.756063e+13 1.555600e+11  
## [25,] 1.339559e+13 1.096025e+13 -9.547012e+12 -4.854681e+12 9.650583e+12  
## [26,] -8.713383e+12 -9.514678e+12 2.732463e+12 9.242802e+12 -5.268195e+12  
## [27,] 1.161897e+13 1.108776e+13 -7.045600e+12 -1.613323e+13 6.293900e+12  
## [28,] -7.358769e+12 -1.139622e+13 -1.181532e+13 1.560562e+13 5.448818e+12  
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## [30,] -7.367167e+11 8.833171e+12 8.449704e+12 -8.029320e+12 -5.168882e+12  
## [31,] 1.887150e+13 2.119377e+13 -7.631362e+12 -1.891374e+13 3.920583e+12  
## [32,] 1.021631e+13 1.159566e+11 -2.391631e+13 3.049864e+12 1.390912e+12  
## [33,] -3.044082e+13 -2.012162e+13 2.084333e+13 1.575875e+13 -2.765719e+13  
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## [35,] 3.132184e+12 3.472094e+10 -4.673042e+12 2.987031e+12 1.948745e+12  
## [36,] 1.130885e+13 1.106470e+13 -1.275605e+13 -3.047479e+12 7.050495e+12  
## [37,] 6.785943e+12 1.693373e+13 -1.164226e+11 -1.297269e+13 2.827427e+12  
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## [41,] 5.505435e+12 4.671802e+12 4.569911e+12 -7.332834e+12 6.356621e+12  
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## [57,] -1.800914e+13 -1.520354e+13 2.794477e+13 1.907407e+12 -1.600997e+13  
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## [67,] 2.852704e+12 4.445414e+12 -1.700666e+13 5.460588e+12 -4.029507e+12  
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## [70,] 1.851478e+12 1.774333e+12 -2.434369e+12 -5.523663e+11 -9.093443e+11  
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## [166,] 2.054901e+13 1.398314e+13 -3.265145e+13 1.740081e+12 9.084732e+12  
## [167,] 1.868358e+13 2.359057e+13 -1.466131e+13 -1.004147e+13 1.171152e+13  
## [168,] 1.543366e+13 1.485843e+13 -2.165152e+13 -1.083151e+13 9.519424e+12  
## [169,] 7.419812e+12 -5.590399e+12 -1.257125e+13 2.887216e+12 1.309368e+13  
## [170,] -1.612078e+12 5.664962e+12 1.550516e+13 -6.539208e+12 -6.184331e+12  
## [171,] -6.022821e+12 -8.473723e+12 1.162717e+13 -1.879503e+12 -5.646722e+12  
## [172,] 1.809811e+13 2.796770e+13 -4.616596e+12 -2.029184e+13 6.768418e+12  
## [173,] 8.244494e+12 7.939942e+12 -2.130016e+13 1.824309e+12 4.825689e+12  
## [174,] 1.351846e+13 7.980076e+12 -1.982926e+13 -3.997745e+12 8.965132e+12  
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## [176,] -1.086831e+13 -3.470015e+12 8.605704e+12 5.804366e+12 -2.865638e+12  
## [177,] -1.730765e+12 7.569573e+11 1.157623e+13 -4.837858e+12 -5.655963e+11  
## [178,] -9.048443e+12 -1.794185e+13 -1.181789e+13 1.767725e+13 -7.946978e+11  
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## [183,] 1.610874e+13 1.391357e+13 -2.263351e+13 -2.635809e+12 9.089760e+12  
## [184,] 2.115265e+13 1.926708e+13 -1.867472e+13 -6.993337e+12 1.264118e+13  
## [185,] -1.126264e+12 -1.868679e+12 4.700678e+11 -3.875200e+12 -2.170223e+12  
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## [189,] -2.640873e+13 -2.245856e+13 3.328512e+13 3.506914e+12 -1.129165e+13  
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## [191,] 3.274111e+12 1.308253e+13 8.900059e+12 -1.035717e+13 3.427296e+12  
## [192,] -5.387250e+12 -7.691424e+12 -4.458933e+12 8.423812e+12 6.069740e+12  
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## [194,] -1.944426e+13 -1.646076e+13 3.176915e+13 7.582393e+12 -1.552723e+13  
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## [4,] -2.388551e+13 7.877369e+12 -2.064635e+13 7.736774e+12 8.015955e+12  
## [5,] 1.604429e+13 9.363320e+11 1.041897e+13 -1.991675e+12 -4.073264e+12  
## [6,] -5.923289e+12 -2.215867e+12 -1.018563e+13 2.729304e+12 6.068964e+11  
## [7,] 2.412787e+13 -7.899694e+11 1.923116e+12 -3.603193e+12 -3.384618e+12  
## [8,] -4.486313e+12 1.680958e+12 -6.416565e+12 3.612148e+12 4.019656e+12  
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## [14,] -8.425693e+12 2.212349e+12 -1.594532e+13 4.120628e+12 2.720054e+12  
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## [16,] 1.120678e+13 -1.897819e+12 -6.643365e+12 -5.616712e+12 -6.957179e+12  
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## [18,] 1.592056e+13 4.932599e+10 3.277138e+11 3.442330e+12 1.188371e+12  
## [19,] 5.216287e+12 -2.554887e+12 -5.535157e+12 1.829069e+12 -1.465866e+12  
## [20,] 6.687562e+12 -5.752957e+12 -3.144568e+12 2.936835e+12 2.059170e+12  
## [21,] 3.431420e+12 -3.525054e+12 5.302125e+12 4.517951e+11 -2.496337e+12  
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## [25,] -7.771233e+12 2.881037e+12 -1.888483e+12 -2.678920e+12 -4.942811e+12  
## [26,] 1.236983e+13 -7.753485e+12 8.773970e+12 -2.611823e+12 -2.223634e+12  
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## [144,] -1.475687e+13 1.884665e+12 -8.323899e+12 5.089145e+12 9.969887e+11  
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## [101,] -2.752743e+12 -2.187280e+12 7.719357e+12 1.578154e+13 -9.535570e+12  
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## [105,] -4.923126e+12 -4.515734e+12 2.256005e+12 7.333110e+12 -6.728462e+12  
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## [107,] -1.877852e+12 -6.507574e+11 -1.739395e+13 1.230166e+13 -2.278571e+12  
## [108,] -8.790506e+12 -2.150320e+12 2.087486e+13 5.134938e+12 -1.492863e+13  
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## [112,] -8.607494e+11 -2.884084e+12 3.775068e+13 -1.690672e+13 -7.212709e+12  
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## [115,] 7.060102e+12 6.881049e+12 -2.520929e+13 -5.355711e+12 1.102977e+13  
## [116,] 8.231545e+11 -9.918446e+11 -1.665113e+13 1.182111e+13 -2.755346e+12  
## [117,] 3.399188e+12 -3.446888e+12 -3.018279e+13 1.081458e+13 4.242640e+12  
## [118,] -6.138478e+11 2.262621e+12 1.773384e+13 -1.409401e+13 2.154832e+12  
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## [123,] -1.185252e+12 -4.036830e+12 -1.278438e+12 4.916589e+12 -3.964037e+12  
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## [126,] -3.746509e+12 -5.762608e+12 2.552523e+13 -8.398191e+12 -1.873339e+12  
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## [132,] 9.032331e+12 6.174265e+12 -3.800491e+13 -1.140981e+12 1.233354e+13  
## [133,] -3.532793e+12 -1.133348e+12 3.673616e+12 5.172809e+11 -1.368983e+12  
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## [137,] -2.725907e+11 4.159112e+12 -7.483264e+12 2.178176e+12 -2.901754e+12  
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## [150,] -8.959328e+12 -6.494768e+12 4.500829e+12 1.814768e+13 -1.195269e+13  
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## [67,] 2.610774e+12 1.157349e+13 3.705679e+12 -9.297749e+12 6.572006e+12  
## [68,] 1.934873e+13 5.463686e+12 7.514018e+12 1.154335e+13 -1.065209e+13  
## [69,] 2.257797e+13 3.164625e+12 1.619382e+13 8.363440e+12 -1.484748e+13  
## [70,] -1.664966e+12 4.700987e+11 -4.173747e+11 1.843334e+12 -6.154364e+11  
## [71,] 1.882411e+13 8.585905e+12 7.944769e+12 7.136051e+12 -9.442057e+12  
## [72,] 6.924646e+11 7.975133e+12 8.908790e+12 -8.094008e+12 1.923858e+12  
## [73,] -2.803039e+13 -1.943847e+13 -1.681437e+13 -8.993986e+12 9.629752e+12  
## [74,] -7.457935e+12 -2.548839e+12 -3.962838e+12 -1.474737e+13 8.115363e+12  
## [75,] -1.683793e+13 -1.350160e+13 -1.802889e+13 1.158922e+12 9.197235e+12  
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## [78,] -1.428717e+13 -1.692036e+13 -6.216975e+12 -3.300133e+12 -1.931629e+12  
## [79,] 1.103061e+13 1.781465e+13 1.744633e+13 1.922925e+10 3.044647e+12  
## [80,] 1.776520e+13 1.482143e+13 1.695822e+13 1.744563e+12 -2.117144e+12  
## [81,] 1.586568e+13 2.120301e+13 1.560819e+13 2.262285e+12 2.479226e+12  
## [82,] -4.413404e+12 -8.323433e+12 -8.028308e+12 3.854063e+12 -1.457305e+12  
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## [85,] 3.167930e+12 -2.346457e+12 3.049503e+12 3.127478e+12 -5.238841e+12  
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## [142,] 9.984988e+12 1.442997e+13 9.509130e+12 2.693948e+12 -3.813402e+12  
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## [34,] 1.189091e+13 -3.617950e+12 -1.235971e+13 -1.710729e+13 9.520716e+11  
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## [37,] -7.696049e+12 -2.126099e+12 1.111826e+13 1.258326e+13 -2.521426e+12  
## [38,] 3.359418e+12 -7.803344e+12 3.053017e+12 6.603400e+11 -5.276022e+12  
## [39,] 1.401218e+13 -4.737248e+13 -1.070150e+13 -1.892662e+13 4.058878e+12  
## [40,] -4.561539e+12 -5.141072e+12 3.114620e+12 3.571749e+12 -1.434628e+12  
## [41,] -2.029343e+10 -2.473841e+12 4.768557e+12 4.521362e+12 -4.232266e+12  
## [42,] -1.094447e+13 1.653089e+13 9.453283e+12 1.832786e+13 -1.808831e+12  
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## [44,] -1.229488e+12 1.134971e+13 -1.377957e+12 7.641830e+12 -4.905325e+12  
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## [47,] -1.062317e+12 -8.741942e+12 9.466576e+11 -5.083758e+12 -2.203763e+12  
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## [198,] 2.955532e+12 -5.365230e+12 -9.735932e+12 -1.100066e+13 2.385816e+12  
## [199,] 2.810404e+12 -2.275141e+13 -1.085454e+12 -1.110525e+13 5.512427e+12  
## [,176] [,177] [,178] [,179] [,180]  
## [1,] 7.570413e+12 -1.892316e+12 7.506560e+12 1.097459e+13 -9.307214e+12  
## [2,] 8.095587e+12 -7.392588e+12 3.377326e+13 -5.528156e+12 -2.578941e+13  
## [3,] -4.125702e+12 -2.580268e+13 4.802590e+13 -2.271094e+13 -9.252138e+12  
## [4,] -9.793914e+12 -1.801927e+12 -1.748289e+13 -3.933747e+12 2.176691e+13  
## [5,] 2.346419e+13 -5.256946e+11 6.082350e+12 9.418719e+12 -1.641067e+13  
## [6,] -9.511198e+12 -7.083096e+12 7.443925e+12 -6.712192e+12 -1.383064e+12  
## [7,] 1.637385e+13 4.732721e+12 1.607494e+13 2.202151e+12 -1.096942e+13  
## [8,] 1.147745e+12 -2.475794e+12 7.950826e+12 -8.069042e+12 1.016259e+12  
## [9,] 1.338803e+13 1.416719e+13 -3.784892e+13 2.437523e+13 7.682576e+12  
## [10,] 1.062810e+13 -7.073098e+12 1.732776e+13 -2.372501e+12 -1.244149e+13  
## [11,] -2.801292e+12 -3.308318e+12 -4.788254e+11 2.985454e+12 7.570893e+12  
## [12,] 7.358005e+12 1.564662e+13 -3.623249e+13 2.918374e+13 5.374672e+12  
## [13,] -6.166513e+11 5.722714e+12 -1.098675e+13 3.799865e+12 6.362347e+12  
## [14,] -5.640757e+12 -2.205862e+12 -1.196792e+12 -8.760817e+12 7.231132e+12  
## [15,] -6.265595e+12 -1.263573e+12 -5.539752e+12 -1.831112e+12 5.008923e+12  
## [16,] 3.215660e+12 -1.102523e+13 3.037999e+13 -1.155347e+13 -1.390596e+13  
## [17,] 6.434124e+12 5.353481e+12 4.702858e+12 3.749526e+12 -6.279082e+12  
## [18,] 3.734097e+12 -2.121237e+12 1.112663e+13 -4.897234e+12 -9.112476e+12  
## [19,] 8.558746e+11 6.599436e+11 7.387666e+12 -5.810770e+12 -4.168306e+12  
## [20,] -2.604068e+12 2.975117e+12 -1.314840e+13 4.513785e+12 8.722835e+12  
## [21,] -3.662308e+12 1.154195e+13 -2.091614e+13 1.232150e+13 9.887318e+12  
## [22,] -5.083697e+12 -8.355003e+12 1.216294e+13 -8.113691e+12 4.240252e+12  
## [23,] -1.116263e+13 9.312423e+12 -3.413416e+13 4.380481e+12 2.032009e+13  
## [24,] -4.188502e+12 -8.105286e+12 2.120598e+13 -1.057384e+13 -9.573111e+12  
## [25,] -7.218397e+12 -2.578143e+12 -3.028944e+12 -5.692918e+12 8.424280e+12  
## [26,] 1.994752e+12 4.131124e+12 -8.057970e+12 6.068341e+12 1.048426e+12  
## [27,] -5.349303e+11 -7.119820e+12 1.013430e+13 -1.619696e+12 -3.055507e+12  
## [28,] -5.041130e+12 8.761648e+12 -1.477798e+13 -5.586846e+12 6.113347e+12  
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## [30,] 2.149442e+12 -1.252123e+12 1.365017e+13 -1.988061e+11 -5.996350e+12  
## [31,] -1.151221e+12 -7.568252e+12 9.140168e+12 -3.849008e+12 -2.403376e+12  
## [32,] -8.008451e+12 4.259789e+12 -1.587463e+13 4.489042e+12 7.791992e+12  
## [33,] 1.667362e+13 3.836196e+12 -4.830145e+12 1.495988e+13 -9.934459e+12  
## [34,] 5.077362e+12 3.889469e+12 -4.184741e+12 4.121655e+12 6.255743e+11  
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## [36,] -2.723499e+12 -1.151457e+12 -4.190941e+12 -8.672728e+12 9.079731e+12  
## [37,] -3.670395e+12 -2.677856e+12 9.492133e+12 -4.493402e+12 -2.809132e+12  
## [38,] 2.901080e+12 -4.179276e+12 8.270013e+12 4.158146e+12 -3.411209e+12  
## [39,] 1.461708e+13 -9.721819e+12 2.758579e+13 1.068526e+13 -1.758272e+13  
## [40,] -3.706884e+12 4.791427e+11 7.195363e+12 3.464852e+12 -5.388268e+12  
## [41,] -7.951267e+12 -5.910288e+12 5.053406e+12 -4.442868e+12 2.168579e+12  
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## [45,] -6.550166e+12 -4.062158e+12 9.004848e+12 -8.969179e+12 1.976228e+12  
## [46,] 2.621079e+12 -3.579007e+12 7.133566e+11 5.290304e+12 2.201363e+12  
## [47,] -4.202744e+11 2.001456e+12 6.260356e+12 -2.377545e+12 -1.426708e+12  
## [48,] 2.796814e+12 3.021779e+12 -8.444009e+12 5.608757e+12 -1.045776e+12  
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## [51,] -1.262387e+12 1.579822e+12 5.893434e+12 2.037910e+12 -1.009355e+12  
## [52,] -1.807956e+13 -3.046729e+12 8.061362e+12 -1.564286e+13 3.865755e+12  
## [53,] -6.621350e+12 -3.552246e+12 -1.405040e+11 -1.080686e+13 5.087633e+12  
## [54,] 6.596893e+12 -8.692952e+11 1.151134e+13 -6.422715e+11 -6.326186e+12  
## [55,] 8.540457e+12 4.640274e+12 -1.417029e+13 9.633306e+12 -6.372055e+10  
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## [57,] 9.368044e+12 1.046486e+11 1.133609e+13 4.635877e+12 -1.081584e+13  
## [58,] -2.234898e+12 9.090089e+11 -3.887666e+12 1.274449e+12 4.570494e+12  
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## [60,] -9.452033e+12 2.483730e+12 -1.516579e+13 1.006518e+12 7.191348e+12  
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## [63,] 5.181192e+12 -7.010003e+09 7.828791e+11 4.612575e+12 -1.290547e+12  
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## [65,] 6.323587e+12 -7.259827e+12 2.173781e+13 -3.667495e+12 -1.105282e+13  
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## [67,] 1.258254e+12 -6.985080e+11 -1.119893e+13 8.820975e+12 5.050113e+12  
## [68,] -6.149258e+12 -4.352953e+12 1.003328e+13 -1.063427e+13 -4.066680e+12  
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## [81,] -6.676699e+12 1.435027e+11 -2.068978e+13 -1.585581e+11 1.363289e+13  
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## [98,] -1.367146e+13 -4.288411e+12 4.103407e+12 -1.286977e+13 4.531081e+09  
## [99,] 1.971033e+12 -4.676713e+11 -3.116823e+12 3.821032e+12 -1.237402e+13  
## [100,] -9.688643e+11 -2.353801e+12 3.273025e+12 -2.426427e+12 -2.080857e+12  
## [101,] -3.458036e+12 -8.138789e+12 5.228405e+12 -8.499718e+12 1.233910e+13  
## [102,] 7.828732e+12 5.134846e+12 -7.472339e+11 5.034690e+12 7.565610e+10  
## [103,] 2.809587e+13 6.396895e+12 -5.832753e+12 1.689846e+13 -4.697896e+12  
## [104,] -1.201937e+13 -5.746747e+12 2.031601e+12 2.165694e+11 -4.762874e+12  
## [105,] -6.808772e+12 -7.848153e+11 1.049394e+11 -5.849290e+12 7.731963e+12  
## [106,] 5.932396e+12 2.958192e+12 -3.278200e+12 3.783350e+12 -7.639080e+12  
## [107,] -3.031468e+13 -4.827309e+12 6.099578e+12 -1.678970e+13 1.264434e+13  
## [108,] 1.207939e+12 -3.032921e+12 3.630018e+12 2.492831e+12 1.327795e+13  
## [109,] -5.090766e+12 -2.074822e+12 -5.017728e+11 -2.728952e+12 4.194747e+12  
## [110,] 1.154104e+13 -2.499670e+12 -4.378884e+11 5.238395e+12 -1.505093e+12  
## [111,] -3.298917e+13 -5.505659e+12 1.217749e+13 -2.976957e+13 8.815540e+12  
## [112,] 4.387298e+13 1.046833e+13 -9.423844e+12 2.698452e+13 -1.343607e+12  
## [113,] -1.303722e+13 -4.629946e+12 8.834413e+12 -1.272884e+13 7.364348e+12  
## [114,] -4.173142e+12 7.894224e+12 -3.534842e+12 8.712502e+12 -1.199524e+13  
## [115,] -1.432933e+13 -5.210179e+11 -3.219780e+12 -4.192066e+12 -9.734498e+12  
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## [117,] -2.944871e+13 -2.849190e+10 4.071184e+12 -2.547639e+13 -2.098450e+11  
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## [131,] -2.112565e+13 -2.483899e+12 6.475714e+12 -1.085926e+13 -7.300151e+12  
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## [32,] -5.764190e+11 -7.649663e+12 -5.331584e+12 2.959963e+12 2.159648e+12  
## [33,] 3.247629e+12 -3.831385e+11 1.968066e+13 2.438359e+13 -3.597140e+12  
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## [36,] -1.516397e+12 -4.541592e+12 -6.438826e+12 -8.932377e+12 4.962418e+12  
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## [38,] 4.343277e+12 3.461582e+12 3.076061e+12 1.482118e+12 1.951988e+12  
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## [40,] -1.136107e+12 4.792808e+11 1.772643e+12 -4.282357e+12 -1.952515e+12  
## [41,] 2.451368e+12 -3.419407e+12 -3.951272e+12 -4.003899e+12 -2.025535e+12  
## [42,] -1.317315e+12 -3.716856e+12 -1.266096e+13 -1.313046e+13 1.117533e+13  
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## [45,] 3.598207e+12 -4.836177e+12 -1.639309e+12 -1.064541e+13 -3.288383e+12  
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## [197,] -2.514318e+12 3.727415e+11 -2.125448e+12 1.029569e+13 -6.847070e+11  
## [198,] 1.998135e+12 -2.125448e+12 6.081368e+12 8.218126e+12 -5.401889e+12  
## [199,] 2.084785e+12 1.029569e+13 8.218126e+12 -5.921832e+11 -5.399783e+12  
## [,201] [,202] [,203] [,204] [,205]  
## [1,] -1.895230e+13 2.390095e+12 -2.490080e+12 -4.750410e+12 -6.739721e+12  
## [2,] -2.644453e+13 1.507432e+13 1.116461e+13 2.414115e+11 -1.555103e+13  
## [3,] -6.404329e+11 2.749382e+13 2.198465e+13 1.979811e+13 -2.848877e+12  
## [4,] 3.275150e+13 -8.370403e+12 -3.885950e+12 9.158596e+12 1.160114e+13  
## [5,] -8.423708e+12 3.230944e+12 2.008056e+13 -8.625969e+12 -1.271835e+13  
## [6,] 1.633634e+12 6.623068e+12 -2.706890e+12 4.945968e+12 -2.443701e+11  
## [7,] -1.403668e+13 3.375323e+12 9.825125e+12 -8.238867e+12 -8.776394e+12  
## [8,] 6.568988e+12 6.212865e+12 1.241970e+13 5.910109e+12 -4.272203e+11  
## [9,] -5.159904e+12 -1.964702e+13 -1.248013e+13 -2.012201e+13 -8.575087e+11  
## [10,] -1.481842e+13 1.324907e+13 1.328248e+13 -1.896786e+12 -7.161541e+12  
## [11,] -1.093793e+13 6.128281e+11 -1.305491e+13 -2.547433e+12 6.317065e+12  
## [12,] -1.282700e+13 -1.502545e+13 -1.784019e+13 -2.383353e+13 1.700290e+11  
## [13,] -1.046979e+11 -7.679896e+12 -1.204265e+13 3.271532e+12 1.593843e+12  
## [14,] 1.449483e+13 -5.087746e+12 3.643357e+12 4.003612e+12 2.913052e+12  
## [15,] 4.312824e+12 2.111252e+12 -2.654941e+12 3.019304e+12 2.838120e+12  
## [16,] -1.896416e+13 8.976497e+12 8.792435e+12 -1.756646e+12 -9.401753e+12  
## [17,] -1.344891e+13 1.007678e+13 7.488452e+12 -1.518217e+12 -3.946427e+12  
## [18,] -1.236621e+13 1.480029e+12 3.785822e+12 -1.266707e+12 -4.699045e+12  
## [19,] -3.663557e+12 -1.566655e+12 -9.244165e+11 -2.310149e+12 -1.079641e+12  
## [20,] 3.049375e+12 -8.876814e+12 -9.613503e+12 -8.560878e+12 5.078389e+12  
## [21,] 1.436009e+12 -1.660791e+13 -2.169247e+13 -3.972392e+12 3.508094e+12  
## [22,] 5.496978e+12 1.334934e+13 2.894645e+12 1.078634e+13 2.824973e+12  
## [23,] 1.848390e+13 -1.623914e+13 -1.412321e+13 -1.727144e+12 1.126187e+13  
## [24,] -5.297012e+12 1.384746e+13 9.726589e+12 9.881254e+12 -4.379649e+12  
## [25,] 8.258748e+12 2.621587e+12 -2.201210e+12 2.540864e+12 4.644957e+12  
## [26,] -7.439066e+12 -8.245471e+10 -7.003251e+12 -5.512100e+12 3.480163e+11  
## [27,] 5.994243e+12 4.859658e+12 2.247770e+12 4.812022e+12 -3.110670e+11  
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## [29,] 3.154815e+11 4.898200e+12 4.161175e+12 -1.369565e+12 -4.061289e+11  
## [30,] -3.714044e+12 8.345201e+12 1.442431e+13 3.667490e+12 -5.487112e+12  
## [31,] 4.252635e+12 1.050892e+13 6.703361e+12 8.103201e+12 4.078482e+12  
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## [33,] -1.996324e+13 1.981173e+12 -1.289488e+11 -1.169487e+13 -9.591861e+12  
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## [37,] 7.692658e+12 8.967208e+12 8.830739e+12 7.024052e+12 -5.230129e+12  
## [38,] -6.005388e+12 8.092074e+12 4.110741e+12 -6.162912e+11 -1.287085e+12  
## [39,] -4.350923e+13 2.463203e+13 -6.136456e+11 -5.460149e+12 -7.859521e+12  
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## [41,] -9.036580e+10 1.131813e+12 6.037214e+10 3.082954e+12 -1.430045e+11  
## [42,] 1.321586e+13 -2.417498e+12 3.191632e+12 7.255235e+12 4.302426e+12  
## [43,] 1.450290e+13 -4.991899e+12 4.858231e+12 4.278930e+12 4.272895e+12  
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## [46,] -1.182505e+13 -2.450800e+12 -1.571510e+13 -5.061631e+12 1.006472e+12  
## [47,] -8.790323e+12 7.086818e+12 -2.026521e+12 -1.717884e+11 3.196609e+12  
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## [70,] 2.412783e+11 8.835146e+11 8.914889e+11 2.337868e+12 -6.917189e+11  
## [71,] 8.832486e+12 6.231828e+11 4.129866e+12 8.052865e+12 1.339730e+12  
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## [91,] 7.042853e+11 5.928101e+12 6.655067e+12 1.509634e+12 7.815121e+11  
## [92,] -5.993741e+10 1.323572e+12 5.591465e+12 9.929796e+12 -2.918428e+12  
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## [142,] 7.353143e+12 9.276388e+10 -5.909025e+12 2.176754e+12 6.858574e+12  
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## [163,] -1.763398e+13 -2.081746e+12 -9.976370e+12 -1.201390e+13 -1.995539e+12  
## [164,] 8.305813e+12 -4.700798e+12 -1.103190e+13 8.719014e+10 8.086544e+12  
## [165,] -2.500119e+12 9.588718e+12 3.616129e+12 6.510555e+12 -2.143997e+12  
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## [168,] 1.176271e+13 5.629695e+11 3.835316e+12 5.600959e+12 5.672632e+12  
## [169,] 4.329581e+12 -8.336295e+12 -1.158863e+13 -8.776985e+11 6.649115e+12  
## [170,] -6.350407e+12 1.062267e+13 8.178415e+12 -2.554919e+11 -1.755158e+12  
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## [173,] 1.138591e+13 -7.380425e+12 -4.183834e+12 -3.470717e+12 3.635600e+12  
## [174,] 1.177263e+13 -9.150964e+12 -5.531420e+12 9.649382e+12 3.248669e+12  
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## [176,] -5.822086e+12 3.141542e+12 -4.034568e+10 -9.177825e+11 7.141443e+11  
## [177,] 1.382525e+11 5.492433e+12 1.006714e+13 3.253598e+12 -4.029142e+12  
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## [187,] -1.076018e+12 2.591085e+11 9.229991e+12 -1.081730e+12 -3.872614e+12  
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## [191,] 4.626978e+12 5.015841e+12 7.400509e+12 5.322394e+12 -2.116836e+12  
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## [4,] 1.976228e+13 9.170024e+12 -9.802629e+12 -1.750446e+13 9.009647e+12  
## [5,] -1.641057e+13 -1.341608e+13 8.331377e+12 -1.921650e+12 4.048014e+12  
## [6,] 1.160641e+13 3.430210e+12 5.153021e+12 1.053125e+13 -3.402398e+12  
## [7,] -2.571795e+13 -2.494222e+12 9.946639e+12 9.105891e+12 -9.011537e+12  
## [8,] 3.548664e+12 9.638780e+12 9.010269e+12 1.339439e+13 5.691215e+12  
## [9,] -2.660792e+13 -3.455639e+12 -3.046054e+13 -3.976278e+13 1.544270e+13  
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## [13,] -1.221631e+13 -2.193818e+12 -8.873964e+12 -1.149445e+13 -3.382314e+12  
## [14,] 5.989934e+12 2.286605e+11 3.825785e+12 1.464653e+12 1.604640e+12  
## [15,] 8.640801e+12 3.152445e+12 -2.255672e+12 2.341886e+11 5.516715e+11  
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## [20,] -4.443948e+12 3.932129e+12 -1.041956e+13 -9.871575e+12 -1.730690e+12  
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## [131,] 5.599865e+12 -7.625531e+12 -3.110696e+12 -1.103226e+13 5.549206e+12  
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## [137,] 9.528693e+11 1.155385e+12 -2.311247e+12 -1.466750e+11 1.672278e+12  
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## [141,] 1.821264e+13 -1.264969e+12 6.857511e+12 -7.329306e+12 7.773494e+12  
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## [97,] 6.701386e+11 1.143442e+12 2.067871e+12 -4.840548e+11 3.493557e+12  
## [98,] -9.552082e+12 1.261973e+13 9.324051e+12 -1.056728e+13 -1.212964e+13  
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## [109,] 1.531685e+12 1.842454e+12 -3.707045e+12 4.502940e+12 -5.485514e+12  
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## [64,] -1.309012e+12 1.606077e+13 -5.574229e+11 1.369850e+13 1.149116e+13  
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## [66,] 1.431590e+12 -1.987563e+12 1.948072e+12 -1.292103e+12 -3.705426e+12  
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## [70,] -1.330964e+12 -7.749932e+11 -3.378421e+11 -7.061485e+11 1.276178e+12  
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## [74,] -2.384354e+12 -1.664515e+13 -5.720266e+11 -1.082272e+13 -1.737699e+12  
## [75,] 3.237798e+12 -1.957367e+13 4.076220e+12 -1.644447e+12 -1.248978e+13  
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## [81,] -1.394250e+13 2.032804e+13 -6.589743e+12 -7.981265e+12 8.762378e+12  
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## [30,] 2.416298e+12 -6.502409e+12 3.280055e+12 1.096367e+13 -3.775071e+12  
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## [32,] -3.188672e+12 1.401691e+13 3.806299e+12 -1.264777e+13 7.422394e+12  
## [33,] -1.474412e+13 -5.144866e+12 -4.151513e+13 4.947546e+13 -2.074285e+13  
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## [35,] -9.285251e+11 -1.097240e+12 3.709227e+12 -1.257323e+13 2.731198e+12  
## [36,] 4.107742e+12 1.423060e+11 8.345738e+12 -2.054370e+13 5.503521e+12  
## [37,] 8.308433e+12 -3.999566e+12 1.621853e+13 -7.113503e+12 9.979813e+12  
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## [39,] -1.502142e+10 -1.779964e+13 -2.910029e+13 3.919580e+13 -2.314113e+13  
## [40,] 4.606093e+12 8.566466e+11 4.117685e+12 5.817095e+12 2.485091e+12  
## [41,] 4.358981e+12 -2.647227e+12 8.141866e+12 -1.220036e+13 7.420884e+12  
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## [44,] 1.539735e+11 3.339033e+12 3.845792e+12 -1.110452e+13 7.562524e+12  
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## [46,] -3.300292e+12 9.167258e+11 -6.985968e+12 -3.595768e+12 -4.976698e+12  
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## [196,] 5.530106e+11 -4.431845e+11 -5.696851e+12 -1.789801e+12 -4.181445e+12  
## [197,] -3.724902e+12 2.611008e+12 -8.673704e+12 7.736171e+12 -8.025285e+11  
## [198,] -6.632102e+12 8.381499e+11 -1.246500e+13 2.021641e+13 -9.657940e+12  
## [199,] 5.205663e+12 -1.183181e+13 -1.162880e+13 1.804758e+13 -9.911500e+12  
## [,226] [,227] [,228] [,229] [,230]  
## [1,] -1.570144e+13 -1.542998e+12 -1.008107e+13 -1.024258e+12 -3.202962e+12  
## [2,] -1.901852e+13 -1.526852e+12 -3.271604e+13 -2.435565e+13 2.176518e+13  
## [3,] 3.516601e+12 1.921604e+12 -1.151187e+13 -4.193099e+13 4.970222e+13  
## [4,] 1.906349e+13 3.190724e+12 2.566700e+13 7.140394e+12 -1.204201e+13  
## [5,] -3.042402e+13 1.467994e+12 -2.579189e+13 -3.600796e+12 3.722292e+12  
## [6,] 7.102269e+12 -2.186853e+12 6.065313e+12 -9.541187e+12 1.061292e+13  
## [7,] -1.709085e+13 -4.863319e+11 -2.861874e+13 -1.380868e+13 -3.969429e+12  
## [8,] 1.031792e+12 5.807892e+11 -1.012278e+13 -1.455554e+13 1.312638e+13  
## [9,] -1.089030e+13 -4.790729e+12 5.508671e+11 3.141263e+13 -3.236104e+13  
## [10,] -1.534691e+13 -1.238672e+12 -2.063119e+13 -1.949429e+13 1.750189e+13  
## [11,] -7.087870e+11 -1.365892e+12 1.936556e+12 -1.641603e+12 -7.459885e+12  
## [12,] -1.396174e+13 -5.940795e+12 4.195921e+12 3.957125e+13 -3.094453e+13  
## [13,] -3.156557e+11 -7.652849e+11 8.482579e+12 1.255403e+13 -1.502728e+13  
## [14,] 1.139606e+13 3.495353e+12 3.299240e+12 -1.361791e+12 -3.927440e+12  
## [15,] 1.022474e+13 6.573971e+10 1.226215e+13 -9.056056e+11 3.827727e+12  
## [16,] -7.647607e+12 1.956868e+12 -2.565635e+13 -3.391590e+13 2.068752e+13  
## [17,] -1.599833e+13 -2.518861e+11 -9.806839e+12 4.577443e+11 -2.305195e+12  
## [18,] -6.253707e+12 2.134192e+11 -1.927282e+13 -9.815157e+12 5.047342e+12  
## [19,] 2.043321e+12 4.311251e+11 -7.035754e+12 -1.120811e+13 -3.131020e+12  
## [20,] 3.365106e+12 -4.324447e+12 7.297417e+12 9.835519e+12 -1.078639e+13  
## [21,] 2.301942e+12 -4.370265e+12 1.467825e+13 2.982466e+13 -2.705012e+13  
## [22,] 2.250297e+12 -1.036401e+12 6.652661e+12 -1.347204e+13 1.223402e+13  
## [23,] 1.717801e+13 1.178590e+12 2.639266e+13 2.998234e+13 -2.231282e+13  
## [24,] 2.210040e+11 -1.181151e+12 -8.491402e+12 -1.951499e+13 2.195055e+13  
## [25,] 7.210996e+12 1.060557e+12 9.170365e+12 1.467543e+12 5.802224e+12  
## [26,] -2.471446e+12 -2.151862e+12 1.860792e+12 7.758425e+12 -6.959535e+12  
## [27,] 1.102585e+12 1.107052e+11 3.810067e+12 -6.817873e+12 7.708180e+12  
## [28,] 4.742693e+12 -2.067457e+11 4.691796e+12 9.707187e+12 -1.748170e+13  
## [29,] -6.623059e+12 -1.804719e+12 -6.386918e+11 6.146174e+11 7.452374e+12  
## [30,] -3.653939e+12 1.122398e+12 -1.222448e+13 -1.317965e+13 1.313191e+13  
## [31,] 8.952222e+11 5.297326e+11 5.492575e+12 -1.034501e+13 1.349827e+13  
## [32,] 6.111671e+12 9.261810e+11 1.341453e+13 1.826882e+13 -1.517590e+13  
## [33,] -2.660664e+13 -5.954053e+12 -2.569098e+13 4.377873e+12 -3.813914e+12  
## [34,] -6.996153e+12 4.470390e+11 1.581602e+12 5.183879e+12 -1.146052e+13  
## [35,] 6.329548e+12 -6.644733e+11 5.881773e+12 2.914304e+12 -1.796664e+12  
## [36,] 8.978508e+12 -1.115054e+12 9.467436e+12 1.914458e+12 1.655414e+12  
## [37,] 2.520480e+12 -9.829569e+11 -6.317319e+12 -1.058941e+13 1.590730e+13  
## [38,] -8.675584e+12 -1.711435e+12 -1.594451e+12 -2.667630e+12 3.957994e+12  
## [39,] -2.873067e+13 -4.629328e+12 -1.874647e+13 -9.322143e+12 1.601168e+13  
## [40,] -2.001908e+12 -1.154334e+12 -2.847335e+12 -2.993684e+12 5.502760e+12  
## [41,] 4.168989e+12 -1.521110e+12 6.122531e+12 -1.571654e+11 4.626447e+12  
## [42,] 5.444337e+12 2.536651e+12 3.550142e+12 4.312406e+12 1.581713e+12  
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## [44,] 9.219373e+12 -1.977353e+12 8.261317e+12 5.008670e+12 -4.806539e+12  
## [45,] 8.612781e+12 1.118800e+12 -1.979179e+12 -7.191311e+12 9.621247e+12  
## [46,] -5.692374e+12 -4.781609e+12 -1.445917e+12 5.527531e+12 -7.102302e+12  
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## [50,] 7.373942e+12 1.100407e+12 8.316679e+12 -1.439433e+12 -9.726697e+11  
## [51,] -3.314793e+12 2.318248e+12 6.173833e+12 7.866904e+11 -1.691487e+12  
## [52,] 2.548826e+13 2.001340e+12 1.160502e+13 -2.855045e+12 9.301316e+12  
## [53,] 1.450333e+13 2.339035e+12 5.350208e+12 -7.331614e+12 6.073607e+12  
## [54,] -1.031915e+13 -4.233311e+11 -9.564797e+12 -3.348183e+12 2.003901e+12  
## [55,] -9.544158e+12 -3.835956e+11 -1.091346e+12 1.057531e+13 -9.511019e+12  
## [56,] 1.380463e+13 1.351782e+12 1.266737e+13 5.853094e+12 -7.479913e+12  
## [57,] -1.701419e+13 -1.188722e+12 -1.556017e+13 -7.256015e+12 4.815853e+12  
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## [62,] 2.128217e+12 2.313797e+12 -3.576248e+12 -5.424687e+12 2.725943e+12  
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## [67,] -2.148440e+12 -7.362458e+11 -1.190471e+12 8.155534e+12 -4.147901e+12  
## [68,] 8.580443e+12 4.679045e+12 1.287914e+11 -1.336067e+13 1.593193e+13  
## [69,] 1.896476e+13 3.876862e+12 -6.761731e+11 -2.268165e+13 1.436019e+13  
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## [76,] -8.185031e+11 -1.559770e+12 1.000819e+13 1.830422e+13 -1.755051e+13  
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## [78,] -5.044852e+12 -1.216436e+12 -9.603936e+12 -9.626820e+12 3.916797e+12  
## [79,] 1.351887e+13 1.207872e+12 1.848965e+13 1.339272e+13 -1.363869e+13  
## [80,] 1.213218e+13 1.563945e+11 1.372439e+13 7.120260e+12 -6.757952e+12  
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## [85,] 4.926499e+11 -2.876630e+09 4.223443e+12 -8.773976e+12 6.089258e+12  
## [86,] 6.864814e+12 2.928165e+12 -4.588493e+12 -1.335952e+13 1.022166e+13  
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## [168,] 4.898727e+12 -1.817056e+12 6.249808e+12 3.959707e+12 2.081795e+12  
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## [170,] -2.991464e+12 -5.464805e+10 -1.153621e+13 -1.619857e+13 1.165689e+13  
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## [172,] 7.188046e+12 2.601381e+12 -5.000753e+10 -1.917291e+13 2.128363e+13  
## [173,] 6.201443e+12 -6.348638e+11 8.864420e+12 8.586703e+12 -4.922944e+12  
## [174,] 1.380317e+13 1.265781e+12 1.239369e+13 8.799614e+12 -8.698467e+12  
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## [5,] -1.395096e+13 1.866994e+13 -5.738596e+13 -1.570040e+12 -2.120740e+13  
## [6,] 9.360797e+12 -2.140771e+13 2.367941e+13 7.990029e+12 8.737401e+12  
## [7,] -1.863992e+13 3.577342e+13 -5.607568e+13 -1.229524e+13 -3.359877e+13  
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## [15,] 1.247189e+13 -7.708033e+12 2.224460e+13 1.063682e+12 1.084669e+13  
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## [17,] -9.680098e+12 1.682340e+13 -2.479308e+13 -1.747027e+12 -1.226972e+13  
## [18,] -5.294494e+12 1.179305e+13 -3.067626e+13 -9.185632e+11 -2.078349e+13  
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## [100,] 3.375965e+12 -7.867623e+11 1.512413e+12 -3.289662e+12 -2.691923e+12  
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## [104,] 1.410563e+13 1.138411e+13 1.165869e+12 -3.947681e+12 -2.565833e+12  
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## [108,] -3.206800e+13 -1.395221e+13 5.065671e+12 1.031679e+13 -8.743937e+11  
## [109,] -3.806075e+12 -1.703080e+12 2.295569e+12 4.209941e+12 5.501852e+11  
## [110,] -4.699885e+12 -1.015617e+12 3.893719e+12 -9.900529e+11 -5.648430e+11  
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## [112,] -2.242429e+13 -3.361893e+13 4.724283e+12 7.838581e+12 5.339786e+12  
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## [114,] 2.315631e+13 -6.028074e+11 -6.347735e+12 -5.390267e+12 2.333200e+12  
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## [131,] 1.488347e+13 1.055302e+13 -4.424799e+12 6.354001e+11 -9.066744e+11  
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## [68,] 1.368484e+13 1.602220e+13 8.786625e+12 -1.018281e+13 1.234114e+13  
## [69,] 1.699247e+13 2.858198e+13 1.032600e+12 -1.382388e+13 1.185066e+13  
## [70,] 2.708474e+12 -3.504708e+12 2.410239e+12 -1.274085e+12 3.392077e+12  
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## [80,] 8.096300e+12 1.447074e+13 2.527374e+13 -1.308954e+13 1.094444e+13  
## [81,] 1.429872e+13 5.597253e+12 3.317726e+13 -9.806512e+12 1.087386e+13  
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## [30,] -5.303165e+11 1.011816e+12 2.567531e+11 -1.930578e+12 -1.026522e+13  
## [31,] -2.473557e+13 4.064154e+12 8.499063e+12 -1.862265e+13 -1.035231e+13  
## [32,] -1.448803e+12 2.222668e+10 7.558195e+12 -2.324795e+12 8.975078e+12  
## [33,] 1.376089e+13 -5.904479e+12 -8.643805e+12 4.063235e+13 9.104517e+12  
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## [35,] 7.930822e+11 -4.979187e+11 1.595887e+11 -2.926133e+12 1.950634e+12  
## [36,] -8.160104e+12 7.327986e+12 3.825356e+12 -1.077028e+13 4.109468e+12  
## [37,] -5.490621e+12 9.863164e+11 8.383573e+12 -1.155441e+13 -1.248007e+13  
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## [39,] 1.400827e+13 -7.744048e+12 -9.156291e+12 2.522614e+13 -1.294192e+13  
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## [41,] -3.162850e+12 3.807512e+11 7.172935e+11 -1.033217e+13 -7.384721e+12  
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## [44,] -4.969053e+12 3.971480e+11 4.381692e+12 -4.523311e+12 7.061135e+12  
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## [196,] 6.494183e+12 2.506007e+12 -1.014024e+12 -5.153281e+12 6.503562e+12  
## [197,] 3.837381e+12 -5.362702e+12 -1.445890e+12 9.610983e+12 5.458299e+12  
## [198,] 6.379562e+12 -3.119218e+12 -8.588671e+12 9.132042e+12 3.942566e+12  
## [199,] 1.147557e+13 -7.485464e+11 -5.716033e+12 4.851962e+12 -9.008544e+12  
## [,251] [,252] [,253] [,254] [,255]  
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## [2,] -3.337397e+13 -6.423068e+12 1.924944e+13 -5.443415e+13 -7.912413e+12  
## [3,] 2.972303e+13 -3.635237e+13 -2.512718e+13 7.780741e+12 3.323322e+13  
## [4,] 3.513579e+13 -9.974784e+12 -2.158964e+13 5.750982e+13 1.513025e+13  
## [5,] -3.484439e+13 1.890996e+13 2.537869e+13 -4.255505e+13 -2.317789e+13  
## [6,] 1.693020e+13 -1.390802e+13 -8.748753e+12 1.466964e+13 1.254972e+13  
## [7,] -3.182478e+13 7.567344e+12 3.274852e+13 -5.915167e+13 -1.949974e+13  
## [8,] 1.483481e+13 -5.662303e+12 -6.408189e+12 2.951404e+12 7.643794e+12  
## [9,] -2.858421e+13 3.279721e+13 2.101052e+13 -1.858583e+13 -3.208119e+13  
## [10,] -1.223458e+13 -3.068563e+12 8.499549e+12 -3.158156e+13 -5.896448e+12  
## [11,] -1.068392e+13 -9.735919e+11 4.433918e+12 -1.252056e+13 -2.436554e+12  
## [12,] -3.702203e+13 4.007872e+13 2.666200e+13 -1.317203e+13 -3.508011e+13  
## [13,] -2.803209e+12 4.365395e+12 3.900651e+12 -5.695928e+11 -1.140813e+12  
## [14,] 2.230833e+13 -1.440602e+13 -2.229843e+12 1.525991e+13 3.991918e+12  
## [15,] 1.702320e+13 -5.663149e+12 -1.128076e+13 2.239168e+13 1.166720e+13  
## [16,] -9.159106e+12 -1.913063e+13 1.660372e+13 -5.362157e+13 2.454482e+11  
## [17,] -2.622471e+13 1.381232e+13 1.483119e+13 -2.465890e+13 -1.165203e+13  
## [18,] -1.054767e+13 -6.924916e+11 1.521226e+13 -2.827076e+13 -5.085885e+12  
## [19,] -3.349138e+12 -2.488448e+12 8.334535e+12 -1.978849e+13 -4.985137e+12  
## [20,] 2.972446e+12 3.059057e+12 1.996583e+12 3.127947e+12 -5.282277e+12  
## [21,] -7.748793e+12 2.002566e+13 1.548921e+11 1.557630e+13 -6.597283e+12  
## [22,] 1.818423e+13 -1.244306e+13 -1.770920e+13 1.793639e+13 1.879505e+13  
## [23,] 2.403763e+13 7.504831e+12 -1.423085e+13 4.815680e+13 3.715294e+12  
## [24,] 3.641442e+12 -1.604077e+13 -2.461352e+12 -8.758786e+12 1.425855e+13  
## [25,] 1.273056e+13 -6.574384e+12 -1.139745e+13 1.188889e+13 1.011462e+13  
## [26,] -1.244927e+13 8.407661e+12 5.105641e+12 -1.102811e+13 -8.689445e+12  
## [27,] 1.008066e+13 -8.058674e+12 -1.041449e+13 1.483052e+13 1.096313e+13  
## [28,] 5.050983e+12 5.682017e+12 2.734889e+12 5.850710e+12 -6.212367e+12  
## [29,] -1.214408e+12 -1.529359e+12 1.539117e+12 -2.167895e+12 -7.475683e+11  
## [30,] -2.247982e+12 1.981350e+12 -3.835483e+11 -6.037727e+12 2.339020e+12  
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## [32,] 1.774016e+12 4.707278e+12 -5.326759e+12 2.080498e+13 -1.100547e+12  
## [33,] -3.913442e+13 2.404252e+13 2.068687e+13 -4.343165e+13 -2.671643e+13  
## [34,] -2.116864e+13 4.754991e+12 1.034450e+13 -2.833796e+13 -1.131156e+13  
## [35,] 9.959285e+11 -1.810030e+12 -1.606243e+12 4.301104e+11 2.487087e+11  
## [36,] 1.931523e+13 -6.339224e+12 -8.635973e+12 1.606717e+13 6.442996e+12  
## [37,] 8.394045e+12 -3.898238e+12 -9.459083e+12 9.438303e+12 8.090118e+12  
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## [46,] -1.888411e+13 3.403348e+12 2.063176e+12 -1.421978e+13 -5.489383e+12  
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## [63,] -1.630341e+13 9.235992e+12 1.098983e+13 -2.031949e+13 -9.689623e+12  
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## [65,] -2.039338e+13 -1.190811e+13 1.649490e+13 -4.746495e+13 -3.570203e+12  
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## [67,] -8.072683e+11 1.039378e+13 8.441337e+11 1.691333e+13 -4.923083e+12  
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## [4,] -1.612527e+13 1.872806e+13 -1.685618e+13 1.643969e+13 -1.696677e+13  
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## [11,] -5.652176e+11 -6.105168e+11 1.382939e+12 -1.808880e+12 6.227810e+12  
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## [13,] 1.116468e+13 2.481481e+12 -8.380580e+11 3.394500e+12 4.894454e+12  
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## [20,] 7.319259e+12 -9.344109e+11 -1.761933e+12 8.830544e+12 5.876672e+12  
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## [136,] 2.472116e+12 1.105052e+13 -9.679939e+12 1.548948e+13 1.422033e+12  
## [137,] -5.796578e+12 4.381300e+12 -3.543505e+11 2.142470e+11 -6.979252e+12  
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## [140,] 5.013137e+11 7.107481e+12 -6.278001e+12 8.371616e+12 1.620225e+12  
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## [109,] 2.072652e+12 4.632388e+11 1.528202e+12 5.375940e+11 4.274196e+12  
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## [64,] -2.469996e+12 6.743885e+12 -1.446887e+13 -2.576945e+10 -3.665236e+12  
## [65,] -3.447639e+11 2.097186e+13 -1.174942e+13 -2.303837e+13 -2.385146e+13  
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## [67,] -1.290696e+12 -1.057838e+13 4.277715e+12 4.277607e+12 1.170213e+13  
## [68,] -5.942701e+12 4.279249e+12 -1.235770e+13 5.400709e+12 -3.927485e+12  
## [69,] -8.904398e+11 4.796958e+12 -1.723882e+13 6.655493e+12 -6.792935e+12  
## [70,] -1.241101e+12 -3.231335e+12 1.880380e+12 -1.901506e+12 -1.931967e+12  
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## [73,] 3.652696e+12 6.372826e+12 8.979183e+12 -1.591471e+13 -2.643651e+12  
## [74,] 9.910066e+12 -1.534547e+12 1.469278e+13 -2.430833e+13 2.331000e+12  
## [75,] -3.248553e+12 5.821545e+12 2.893105e+12 -8.531064e+12 -7.038040e+12  
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## [78,] 3.388477e+12 1.508114e+13 -3.596944e+12 -1.252485e+13 -1.465067e+13  
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## [196,] 1.133065e+12 3.072913e+12 -2.965516e+12 1.980627e+12 -2.660845e+12  
## [197,] -1.663153e+12 4.751496e+12 -8.703826e+11 2.174010e+11 -3.489711e+12  
## [198,] 9.801833e+12 2.744499e+12 -9.755145e+12 -9.380936e+12 2.089517e+12  
## [199,] 1.478937e+13 -6.132345e+12 -8.176110e+12 -2.022630e+13 1.252075e+13  
## [,276] [,277] [,278] [,279] [,280]  
## [1,] -1.478880e+13 -4.748263e+13 -7.356435e+12 2.229081e+13 -5.611338e+12  
## [2,] 7.918859e+12 -5.177760e+13 3.007334e+13 1.360703e+13 1.152338e+13  
## [3,] 5.116864e+13 6.912945e+13 6.064740e+13 -3.457079e+13 5.897833e+13  
## [4,] 4.904045e+12 7.522314e+13 -1.193786e+13 -2.476756e+13 6.529352e+12  
## [5,] -9.966588e+12 -6.500268e+13 1.468838e+12 2.892352e+13 6.892869e+11  
## [6,] 1.234263e+13 3.417132e+13 1.395410e+13 -1.714682e+13 1.167305e+13  
## [7,] -1.101350e+13 -6.865205e+13 8.826006e+12 2.835250e+13 -1.857981e+13  
## [8,] 1.858065e+13 2.254905e+13 2.144391e+13 -1.543149e+13 1.475881e+13  
## [9,] -4.188043e+13 -7.331216e+13 -4.858195e+13 2.831793e+13 -5.024069e+13  
## [10,] 1.205075e+13 -2.781405e+13 2.121210e+13 9.923523e+12 1.087539e+13  
## [11,] -5.448581e+12 -7.475963e+12 -1.399230e+13 2.932028e+12 -7.993221e+12  
## [12,] -4.417511e+13 -7.673978e+13 -4.489561e+13 3.102544e+13 -5.153096e+13  
## [13,] -1.334020e+13 -1.748167e+13 -1.480414e+13 6.504264e+12 -2.270253e+13  
## [14,] 2.143310e+12 2.803725e+13 8.845350e+11 -1.408564e+13 6.702751e+12  
## [15,] 6.397750e+12 3.359815e+13 5.690504e+12 -1.305767e+13 3.575745e+12  
## [16,] 1.985177e+13 -3.627819e+13 2.246866e+13 5.429769e+12 1.452328e+13  
## [17,] -9.896057e+12 -3.733570e+13 -1.219332e+12 1.418302e+13 -9.397965e+12  
## [18,] 2.445024e+12 -4.032044e+13 1.049162e+13 1.169015e+13 -7.053778e+12  
## [19,] -7.487648e+11 -1.823903e+13 -1.945042e+11 5.660257e+12 4.450765e+11  
## [20,] -9.730830e+12 -1.405631e+13 -2.023633e+13 -1.364107e+12 -1.823727e+13  
## [21,] -2.948670e+13 -9.903338e+12 -3.069466e+13 3.135892e+12 -2.676868e+13  
## [22,] 1.717673e+13 5.055185e+13 1.479561e+13 -2.425438e+13 2.020483e+13  
## [23,] -1.174573e+13 3.269307e+13 -3.048939e+13 -1.155892e+13 -2.406423e+13  
## [24,] 2.055228e+13 1.766967e+13 3.027048e+13 -1.114476e+13 2.207218e+13  
## [25,] 5.631158e+12 2.966461e+13 -1.163468e+12 -1.616445e+13 8.346987e+12  
## [26,] -1.324145e+13 -2.844205e+13 -1.029020e+13 9.716015e+12 -1.952649e+13  
## [27,] 7.355318e+12 3.757021e+13 1.271220e+13 -1.154608e+13 1.893463e+13  
## [28,] -9.948260e+12 -1.754957e+13 -1.600977e+13 7.264229e+12 -1.680197e+13  
## [29,] 5.933926e+12 3.119067e+12 2.772964e+12 -3.680587e+12 4.713155e+12  
## [30,] 1.243996e+13 8.991567e+12 1.727587e+13 -2.358813e+12 1.721295e+13  
## [31,] 1.686797e+13 4.869771e+13 2.013171e+13 -1.444327e+13 2.494985e+13  
## [32,] -1.331636e+13 8.989337e+12 -1.543437e+13 7.370935e+11 -1.428966e+13  
## [33,] -1.718008e+13 -7.731915e+13 -1.077483e+13 2.532063e+13 -2.171406e+13  
## [34,] -1.223221e+13 -4.385923e+13 -1.951017e+13 1.697498e+13 -2.185923e+13  
## [35,] -3.351479e+11 5.230322e+12 -6.360976e+12 -4.229889e+12 -2.371950e+12  
## [36,] 3.865112e+12 2.307319e+13 3.810727e+11 -1.160937e+13 1.422870e+11  
## [37,] 1.547982e+13 3.371282e+13 1.513887e+13 -1.492335e+13 2.144275e+13  
## [38,] -2.171133e+12 5.937440e+12 1.812651e+12 -1.320705e+12 9.297910e+12  
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## [40,] 2.734270e+12 9.165076e+12 1.205685e+13 -5.027923e+12 7.532114e+12  
## [41,] 4.051788e+12 1.362058e+13 5.455752e+12 -1.064132e+13 7.041032e+12  
## [42,] 6.371332e+12 4.888212e+13 1.208975e+12 -1.588297e+13 1.793349e+13  
## [43,] -5.529082e+12 2.275809e+13 -7.955999e+12 -2.315595e+12 1.023292e+12  
## [44,] -4.171129e+12 9.679066e+12 -6.969307e+12 -9.742767e+12 -2.272580e+12  
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## [46,] -1.138531e+13 -1.924624e+13 -1.655431e+13 8.966612e+12 -1.141492e+13  
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## [54,] -3.666153e+12 -2.844426e+13 3.740752e+12 8.232546e+12 -3.781135e+12  
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## [56,] -1.377100e+10 3.929511e+13 -9.569979e+12 -1.295013e+13 3.001639e+12  
## [57,] -6.209769e+11 -4.139657e+13 5.553814e+12 2.159157e+13 -1.417514e+12  
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## [64,] 1.511425e+13 2.426857e+13 2.196645e+13 -1.313065e+13 2.395487e+13  
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## [68,] 2.101226e+13 3.732968e+13 2.341017e+13 -1.586944e+13 2.617904e+13  
## [69,] 2.255632e+13 4.119920e+13 2.299531e+13 -2.136602e+13 2.989321e+13  
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## [75,] -3.132355e+12 -3.910406e+13 -4.411963e+12 1.302937e+13 -9.222557e+12  
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## [79,] -2.997918e+12 2.931453e+13 -1.563686e+13 -1.599800e+13 -8.528426e+12  
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## [163,] -2.951741e+13 -6.833880e+13 -2.799442e+13 3.371118e+13 -3.594449e+13  
## [164,] -2.690607e+12 2.732846e+13 -1.515135e+13 -7.823820e+12 -6.589710e+12  
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## [166,] -1.325231e+11 3.830058e+13 -8.418500e+12 -1.537567e+13 -2.446894e+12  
## [167,] 2.358548e+13 5.435152e+13 1.804240e+13 -1.885885e+13 2.372585e+13  
## [168,] 3.379559e+12 4.473082e+13 -3.569759e+11 -1.364846e+13 1.203455e+13  
## [169,] -1.094934e+13 7.158946e+12 -1.362871e+13 -1.145884e+12 -1.478998e+13  
## [170,] 9.889101e+12 -9.261128e+11 2.234312e+13 1.434265e+12 8.579398e+12  
## [171,] -2.250645e+12 -1.462740e+13 5.198759e+12 8.596810e+12 5.544995e+12  
## [172,] 2.453425e+13 5.758424e+13 2.879957e+13 -2.328809e+13 2.840479e+13  
## [173,] -4.115502e+12 1.986287e+13 -1.090875e+13 -1.150057e+13 -1.666258e+12  
## [174,] -4.461346e+12 2.454744e+13 -6.224757e+12 -7.461220e+12 -4.309689e+12  
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## [180,] 1.091687e+13 2.849404e+13 1.530819e+13 -1.038856e+13 1.426083e+13  
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## [6,] 1.290390e+13 -5.751885e+12 -1.438253e+13 -1.680664e+13 -7.688142e+12  
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## [13,] -5.614712e+12 -8.591904e+11 8.413436e+12 1.324100e+13 9.299872e+12  
## [14,] 1.137343e+13 5.446373e+12 -9.172980e+12 -1.421143e+13 1.212735e+12  
## [15,] 1.103680e+13 2.649442e+12 -8.740687e+12 -7.887195e+12 -3.339337e+12  
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## [20,] -8.717419e+12 6.024652e+12 3.427304e+12 4.693858e+12 -2.282676e+12  
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## [35,] -3.946305e+11 2.637292e+12 2.775629e+12 -2.739213e+12 -6.919142e+11  
## [36,] 2.708388e+12 2.964204e+12 -8.914672e+12 -7.692383e+12 -6.255981e+12  
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## [130,] -1.777105e+13 -8.773590e+12 3.108090e+12 5.570977e+11 -1.413247e+11  
## [131,] 1.131027e+13 4.461355e+11 2.908309e+12 3.871368e+12 2.650314e+11  
## [132,] 7.513878e+12 1.661139e+13 1.174697e+13 5.712423e+12 3.278529e+12  
## [133,] 1.421259e+12 2.656074e+12 -3.886771e+12 -1.705719e+12 -1.723287e+12  
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## [135,] -1.185852e+12 6.856285e+10 1.555812e+13 1.860137e+13 6.437762e+12  
## [136,] 3.556224e+12 1.871028e+13 1.410742e+13 6.156837e+12 1.618709e+12  
## [137,] 8.375253e+12 -1.476752e+12 -1.523936e+11 1.428594e+12 3.519031e+11  
## [138,] -4.535847e+12 1.278855e+12 -1.273582e+13 -8.917488e+12 -5.244823e+12  
## [139,] -9.089489e+12 -3.730042e+12 2.287824e+12 -3.369204e+12 -1.128142e+12  
## [140,] 1.682832e+12 1.237763e+13 1.288743e+13 1.453216e+13 9.842145e+12  
## [141,] 3.084205e+13 4.669521e+12 -2.005608e+13 -2.014610e+13 -4.330438e+12  
## [142,] 1.020402e+13 4.169028e+12 -4.102745e+12 -1.108591e+11 -6.014116e+12  
## [143,] 4.380580e+10 -7.320938e+12 -2.309471e+12 1.679204e+12 -3.024744e+12  
## [144,] 1.861254e+13 8.459155e+12 -1.361775e+13 -1.695614e+13 -2.224301e+12  
## [145,] -9.843007e+12 1.972986e+12 -4.828715e+11 -1.372218e+12 -2.090371e+12  
## [146,] -4.606319e+11 5.047207e+11 -1.046872e+13 -1.842077e+13 -2.495282e+12  
## [147,] -2.100363e+12 -2.727407e+12 1.090297e+13 3.533020e+12 -1.645211e+12  
## [148,] 1.085155e+13 6.080417e+12 -4.531692e+12 -1.369122e+12 4.148317e+12  
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## [151,] 9.555924e+12 6.667930e+12 -1.828647e+13 -2.103246e+13 -6.764121e+12  
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## [153,] -1.744774e+13 -1.816703e+12 3.580591e+13 3.410414e+13 1.714376e+13  
## [154,] 5.826889e+11 -6.760078e+12 3.460421e+10 -9.679311e+11 -2.555140e+12  
## [155,] 9.287322e+12 1.898284e+12 -8.973985e+12 -7.846745e+12 -6.595461e+12  
## [156,] -1.083242e+13 -4.416612e+12 6.801282e+12 5.733092e+12 1.058691e+12  
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## [160,] 1.220278e+13 8.531604e+11 -3.996219e+12 1.768821e+12 1.169899e+12  
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## [163,] -2.114257e+13 -7.472475e+10 4.104813e+13 4.150615e+13 1.552193e+13  
## [164,] 1.205196e+13 5.906089e+12 5.483567e+12 4.308761e+12 -2.653412e+12  
## [165,] 4.346993e+12 -2.678733e+12 -1.554060e+13 -1.247162e+13 -2.222927e+12  
## [166,] 1.106479e+13 9.192771e+12 -7.874123e+12 -2.772820e+12 -3.146524e+12  
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## [168,] 1.453856e+13 5.967646e+12 -4.065061e+12 -8.929615e+12 -3.120263e+12  
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## [170,] -9.863656e+11 -6.755996e+12 -6.519057e+12 -3.904685e+12 -3.576634e+12  
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## [174,] 9.633303e+12 9.424176e+12 -1.047111e+12 -4.132430e+12 5.482371e+12  
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## [181,] -8.573390e+12 -2.278469e+12 -1.776659e+13 -1.672295e+13 -6.321587e+12  
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## [187,] -3.831041e+12 -2.750561e+12 -1.634617e+12 6.831811e+12 3.183418e+11  
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## [2,] 5.100411e+12 7.171118e+12 -2.831931e+12 1.379918e+13 -1.699204e+13  
## [3,] 4.536636e+13 3.774570e+12 -3.049629e+13 3.603401e+13 -2.494817e+13  
## [4,] 6.088602e+12 -6.075626e+12 -9.813902e+11 -6.310067e+12 1.576905e+13  
## [5,] -3.596772e+11 1.398896e+12 1.431463e+13 -8.484594e+11 -1.899845e+12  
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## [12,] -3.534072e+13 5.820697e+11 3.363574e+13 -3.128241e+13 2.550118e+13  
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## [15,] 5.789192e+12 -2.096166e+12 -6.411927e+12 -2.886169e+12 -3.555433e+12  
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## [97,] -3.313178e+12 7.244509e+11 -3.902459e+11 -7.775506e+11 1.768833e+12  
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## [99,] -9.654743e+12 6.410346e+11 7.686372e+12 -8.429239e+12 9.018749e+12  
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## [101,] 7.904598e+12 -9.090360e+11 -1.393002e+13 9.885199e+12 -7.555900e+12  
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## [103,] -9.092129e+12 6.948467e+11 -1.878606e+11 7.114272e+11 -2.045510e+12  
## [104,] -9.154949e+11 2.442449e+11 7.390255e+12 -6.567590e+12 8.742238e+12  
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## [106,] -1.087401e+13 -2.965577e+12 3.773193e+12 -6.730775e+12 6.215681e+12  
## [107,] 5.521354e+12 -5.066881e+12 -3.881432e+12 -1.465814e+12 -3.229475e+12  
## [108,] 1.973908e+13 -5.304304e+11 -8.094683e+12 8.652429e+12 -7.599969e+12  
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## [110,] -1.429811e+12 -2.360206e+12 -1.797124e+12 1.702502e+12 -4.397563e+11  
## [111,] 1.330369e+13 7.097809e+11 -5.657314e+12 3.050624e+12 -4.644120e+12  
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## [117,] -5.122623e+12 -1.325708e+12 -2.048183e+12 -2.827466e+12 -7.627922e+11  
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## [119,] -6.071629e+12 -3.774866e+12 6.621745e+11 -7.010807e+12 6.302652e+12  
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## [131,] 4.800465e+11 3.242167e+12 1.920517e+12 8.146489e+11 -1.503987e+12  
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## [140,] -8.564641e+12 -6.743264e+12 1.573778e+13 -2.125786e+13 1.572674e+13  
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## [64,] -5.512466e+12 9.622395e+12 2.596861e+12 -7.246415e+12 -6.577345e+12  
## [65,] -2.753147e+13 -9.214996e+12 9.012000e+12 3.638914e+12 -3.254196e+12  
## [66,] 3.070470e+12 4.223668e+12 2.346538e+12 1.932799e+12 -1.767719e+12  
## [67,] 3.822469e+12 -5.379433e+11 -3.982523e+12 -7.350671e+11 -1.961366e+11  
## [68,] -6.775037e+11 1.827634e+13 1.360020e+12 -5.072784e+12 -7.165360e+12  
## [69,] 1.680074e+12 1.879217e+13 7.273359e+12 -1.193651e+13 -4.940357e+12  
## [70,] 1.073484e+12 -3.146844e+11 -1.087295e+12 1.237146e+12 -3.379006e+12  
## [71,] 4.528471e+12 1.532673e+13 -2.438255e+12 -6.786329e+12 -2.251034e+12  
## [72,] 1.172632e+13 -1.187675e+11 -2.506066e+12 1.305563e+12 4.559527e+12  
## [73,] -8.121976e+12 -1.964970e+13 2.778438e+12 9.723622e+12 2.131397e+12  
## [74,] 1.734259e+12 1.915336e+12 8.615913e+12 4.787908e+12 2.624195e+12  
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## [76,] 7.446365e+12 -1.236893e+13 -1.127354e+13 3.434315e+12 7.974571e+12  
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## [78,] -1.414839e+13 -1.207599e+13 9.432265e+12 1.737080e+12 3.487676e+12  
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## [80,] 2.118863e+13 1.236673e+13 -7.772358e+12 -7.843603e+12 1.870298e+12  
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## [29,] -2.723938e+12 -4.490525e+11 -1.002320e+12 -4.683954e+12 -1.207165e+12  
## [30,] -1.472146e+13 9.318073e+11 -1.482376e+13 -5.981916e+11 -5.069996e+12  
## [31,] -3.336490e+13 1.251537e+13 -1.000434e+13 1.467834e+13 -1.223351e+11  
## [32,] 8.709282e+12 2.875989e+12 1.267196e+13 1.369557e+13 5.798215e+12  
## [33,] 4.430076e+13 -2.653417e+13 1.612685e+13 -4.003054e+13 -1.367939e+13  
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## [35,] 4.574556e+12 3.815702e+12 -1.565069e+12 1.023652e+12 9.399385e+12  
## [36,] -1.321254e+13 1.078815e+13 -6.668607e+12 1.395865e+13 3.756529e+12  
## [37,] -2.462812e+13 7.331599e+12 -1.569354e+13 3.604795e+11 1.763994e+12  
## [38,] -1.970174e+12 -5.147354e+12 -1.636009e+12 -7.043927e+12 2.189598e+12  
## [39,] 1.342369e+13 -2.847431e+13 3.014003e+12 -4.176085e+13 -8.545561e+12  
## [40,] -5.074412e+12 -2.767654e+12 -1.213891e+12 -6.617624e+11 4.087313e+12  
## [41,] -1.722867e+13 2.669115e+12 -4.691882e+12 5.931144e+12 3.352143e+12  
## [42,] -1.715403e+13 1.338723e+13 -9.113461e+12 1.796412e+13 4.906431e+12  
## [43,] 2.836480e+12 3.193562e+12 4.548887e+12 1.296521e+13 4.663865e+12  
## [44,] -1.678026e+12 5.459340e+12 5.633969e+12 9.170060e+12 6.570681e+12  
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## [195,] 2.846771e+13 -1.018327e+13 1.638115e+13 -1.802461e+13 -9.950865e+11  
## [196,] 9.265907e+11 -3.128643e+12 6.593958e+12 7.018832e+12 -1.119839e+12  
## [197,] 1.161836e+13 -2.278156e+12 3.315047e+12 -6.039367e+12 1.287043e+12  
## [198,] 1.644673e+13 -1.108421e+13 9.946414e+12 -1.045997e+13 -8.690262e+12  
## [199,] -4.310139e+12 -8.060578e+12 -7.978298e+12 -1.863775e+13 -4.448015e+12  
## [,301] [,302] [,303] [,304] [,305]  
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## [2,] -1.691435e+13 9.883691e+12 -3.104410e+13 1.345279e+13 -5.650591e+12  
## [3,] -1.249808e+13 2.603286e+12 2.251128e+13 -9.721988e+12 -4.001103e+13  
## [4,] 1.070579e+13 -6.718718e+12 3.325759e+13 -1.453023e+13 -2.083474e+12  
## [5,] -6.549908e+12 1.712191e+13 -4.063726e+13 1.428822e+13 1.812496e+13  
## [6,] -1.675429e+12 -4.475974e+11 1.632460e+13 -4.779951e+12 -1.444123e+13  
## [7,] -1.090883e+13 1.518998e+13 -4.174436e+13 2.293620e+13 2.289803e+13  
## [8,] -7.089224e+12 6.621024e+12 1.300657e+12 -6.971394e+12 -3.433717e+12  
## [9,] 7.942424e+12 -2.287793e+12 -2.887544e+13 1.073175e+13 3.381682e+13  
## [10,] -4.223264e+12 1.083165e+13 -1.858622e+13 1.035353e+13 2.631694e+12  
## [11,] 5.899261e+12 -8.905782e+12 6.831960e+12 8.715687e+12 -5.174566e+12  
## [12,] 1.033799e+13 -1.450807e+12 -2.862906e+13 1.070219e+13 2.699429e+13  
## [13,] 6.460398e+12 3.576917e+12 3.587378e+12 4.347289e+12 1.098778e+13  
## [14,] -7.040260e+12 -1.426086e+12 5.538597e+12 -8.362988e+12 4.698580e+12  
## [15,] 3.030205e+12 2.772201e+11 1.531166e+13 -1.214449e+13 -3.052355e+12  
## [16,] -1.296403e+13 -3.530406e+12 -2.325835e+13 1.006818e+13 -2.026690e+12  
## [17,] -4.235542e+12 2.896542e+12 -1.384920e+13 8.385542e+12 3.230491e+12  
## [18,] -5.301362e+12 1.010982e+13 -1.859967e+13 8.898316e+12 1.126425e+13  
## [19,] -4.869651e+12 -3.412693e+12 -1.080999e+13 3.637704e+12 7.265017e+12  
## [20,] 5.603086e+12 -7.995817e+12 -2.308796e+12 1.552640e+12 4.837946e+12  
## [21,] 9.780036e+12 -9.338022e+12 3.730279e+12 -9.200408e+11 8.259578e+12  
## [22,] 6.259372e+11 -3.483243e+12 2.540015e+13 -5.070507e+12 -1.991821e+13  
## [23,] 1.280082e+13 -7.558736e+12 2.426339e+13 -1.496193e+13 6.075433e+12  
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## [25,] 6.513714e+11 -4.055152e+12 1.488634e+13 -4.941152e+12 -9.974687e+12  
## [26,] 2.250439e+12 -1.463220e+12 -5.962319e+12 4.261901e+12 3.263799e+12  
## [27,] -3.040691e+12 -3.042818e+12 1.103082e+13 -5.398663e+12 -1.372290e+13  
## [28,] 1.039983e+12 1.170391e+12 -6.918682e+12 -6.176176e+11 1.901428e+13  
## [29,] -4.079226e+12 3.909318e+12 -4.514918e+11 -3.270849e+11 -1.712794e+12  
## [30,] -7.627430e+12 4.424372e+12 -6.469111e+12 2.385064e+12 -5.950008e+12  
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## [37,] -6.153358e+12 -2.446845e+11 5.578562e+12 -9.219161e+12 -1.632910e+13  
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## [40,] -3.557363e+12 2.610590e+12 -1.215032e+12 -7.689321e+12 -7.476311e+12  
## [41,] -2.582364e+12 -3.654908e+12 4.360236e+12 -2.822531e+12 -9.928307e+12  
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## [44,] 5.381625e+11 -1.419056e+12 4.696561e+12 -4.784737e+12 -2.437845e+12  
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## [163,] 9.895179e+12 1.398177e+12 -1.866149e+13 1.729602e+13 2.013006e+13  
## [164,] 1.385362e+13 -5.359488e+11 2.295677e+13 -8.129776e+12 -4.800693e+12  
## [165,] -5.955195e+12 -3.595693e+11 1.157533e+11 -1.462617e+12 -1.370288e+13  
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## [169,] 5.726680e+12 -7.433861e+12 7.806793e+12 -8.867906e+11 2.923503e+12  
## [170,] -8.402939e+12 6.525404e+12 -4.621688e+12 2.659255e+12 -2.226190e+12  
## [171,] 1.033764e+12 -3.580306e+12 -5.502082e+12 6.235738e+12 -1.049199e+12  
## [172,] -7.879824e+12 4.033895e+12 1.318763e+13 -1.374185e+13 -1.301800e+13  
## [173,] 4.180479e+12 -4.443652e+12 7.494947e+12 -8.251534e+12 -1.405821e+12  
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## [189,] -3.253767e+12 5.523090e+11 -2.413910e+13 1.135281e+13 4.943472e+12  
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## [3,] -2.102981e+13 -3.365584e+13 -1.008058e+13 -6.172111e+12 -2.720503e+13  
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## [5,] 1.386416e+13 1.984194e+13 4.530531e+13 4.448352e+12 4.490932e+12  
## [6,] -1.225755e+13 -1.301804e+13 -1.733717e+13 -2.018910e+12 -9.412824e+12  
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## [10,] 3.318423e+12 3.388449e+12 2.704718e+13 3.961157e+12 -1.110667e+13  
## [11,] 7.800348e+12 -2.939433e+12 -2.150869e+12 -1.633060e+12 -1.425047e+12  
## [12,] 1.967419e+13 3.423063e+13 1.113480e+13 5.754674e+11 1.687052e+13  
## [13,] 1.709728e+12 6.866597e+12 -1.632878e+12 2.946851e+12 6.872087e+12  
## [14,] -6.090221e+12 -1.274256e+13 -7.214392e+12 2.824604e+12 4.840662e+12  
## [15,] -1.226111e+13 -7.031656e+12 -2.212563e+13 -1.869875e+11 2.992695e+12  
## [16,] 1.002915e+13 -1.144068e+13 2.984861e+13 5.307153e+12 -1.693544e+13  
## [17,] 6.698596e+12 1.318248e+13 2.365006e+13 -3.269058e+12 -2.277739e+11  
## [18,] 9.882109e+12 1.714583e+12 2.531980e+13 -1.168792e+12 -7.315549e+12  
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## [21,] 5.368947e+12 8.102188e+12 -1.323160e+13 -3.676355e+12 1.308535e+13  
## [22,] -1.736048e+13 -1.458174e+13 -1.502112e+13 -3.652973e+12 -5.970648e+12  
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## [127,] -1.791676e+13 -2.128425e+13 -3.772232e+13 1.258573e+12 -8.071318e+12  
## [128,] 2.485113e+11 -2.676051e+12 2.129384e+13 1.558331e+12 -1.138461e+13  
## [129,] 7.313033e+12 -1.035217e+12 8.009653e+12 7.006209e+12 -6.108849e+12  
## [130,] 3.176137e+12 6.142138e+12 2.474246e+13 -1.048955e+12 -9.055269e+12  
## [131,] -3.896862e+12 4.840847e+12 -8.450127e+12 4.938665e+12 2.419937e+12  
## [132,] -7.419145e+12 1.004710e+13 -2.278785e+13 5.315026e+11 1.631749e+13  
## [133,] 5.060638e+11 -1.796360e+12 3.900380e+12 1.640152e+12 -3.404112e+12  
## [134,] -3.413165e+12 -3.712437e+11 -9.517054e+12 5.604589e+12 6.669053e+11  
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## [136,] -4.006134e+12 1.121513e+13 -2.667168e+13 1.602567e+12 1.759205e+13  
## [137,] -8.262881e+12 -5.445459e+11 -1.002252e+13 -4.157171e+12 -2.882515e+12  
## [138,] 2.498709e+12 -8.545804e+12 4.345420e+12 5.497619e+12 -1.887412e+12  
## [139,] 4.035018e+12 1.364262e+12 1.154268e+13 -2.209579e+12 -4.475074e+12  
## [140,] -5.137585e+12 5.867597e+12 -1.490895e+13 -8.516035e+12 1.186370e+13  
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## [67,] -9.672138e+12 3.281410e+12 8.801070e+11 -4.273698e+12 -7.520206e+12  
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## [71,] -3.669499e+12 -6.335548e+12 1.420013e+12 1.321589e+13 6.299983e+11  
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## [73,] 6.316320e+12 6.752336e+12 -1.136052e+12 -1.403060e+13 3.673317e+12  
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## [27,] -1.054452e+12 9.481815e+12 4.868573e+12 6.683402e+12 5.005072e+11  
## [28,] -7.638587e+12 -5.893998e+12 -7.591505e+12 -8.667344e+12 -2.628279e+12  
## [29,] -1.721360e+12 1.334851e+12 -6.322211e+11 -8.495376e+11 -7.605238e+12  
## [30,] -5.360218e+12 -4.037768e+10 -1.715707e+12 8.903493e+11 -5.242804e+12  
## [31,] 1.025941e+13 1.516417e+13 8.387648e+12 1.155310e+13 -4.250014e+12  
## [32,] 6.929187e+12 -2.870725e+11 5.177517e+12 -3.414061e+11 2.664999e+10  
## [33,] -1.601964e+12 -1.799771e+13 5.239448e+12 -1.718424e+13 9.889940e+10  
## [34,] -2.585713e+12 -1.321651e+13 -6.236180e+12 -9.273825e+12 2.838627e+12  
## [35,] 1.666488e+11 1.189819e+12 2.763253e+12 -1.659929e+12 3.206884e+12  
## [36,] -8.744262e+11 7.858259e+12 2.096107e+12 3.691367e+12 -1.439350e+12  
## [37,] 2.078752e+12 1.296466e+13 7.030867e+11 5.783634e+12 -3.275458e+12  
## [38,] 2.743514e+12 -7.588565e+11 -1.928440e+12 -9.446673e+11 1.059141e+12  
## [39,] 5.804111e+12 -1.735596e+13 5.273613e+12 -3.775554e+12 5.883465e+12  
## [40,] 2.989853e+12 1.838939e+12 5.609987e+12 -6.909175e+11 8.615304e+11  
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## [42,] 8.522393e+12 1.087799e+13 7.197677e+12 6.527859e+12 -1.535397e+12  
## [43,] 9.523188e+11 4.559139e+12 6.415259e+12 -2.274945e+12 -2.777201e+12  
## [44,] 4.374761e+12 4.675945e+12 1.336577e+12 1.011792e+12 3.512609e+12  
## [45,] 1.272184e+12 9.371236e+12 2.325584e+12 6.169761e+12 -7.296013e+12  
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## [65,] -3.531517e+12 -1.110551e+13 -9.921060e+12 -6.845696e+12 -8.594398e+12  
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## [194,] -2.081201e+12 -1.101530e+13 -6.527541e+12 -8.049979e+12 -3.930092e+12  
## [195,] 6.866317e+12 -8.612388e+12 5.729749e+12 -8.779929e+12 9.987885e+11  
## [196,] 2.286563e+11 -5.942388e+12 -8.539903e+11 1.464174e+12 4.545872e+12  
## [197,] -1.144560e+12 1.584679e+12 3.159426e+12 -5.034429e+12 1.877182e+12  
## [198,] -2.223168e+12 -1.153595e+13 -4.301486e+12 -4.046217e+12 1.310853e+12  
## [199,] -5.802716e+12 -6.347337e+12 -2.098005e+12 -1.113533e+12 -2.229190e+12  
## [,326] [,327] [,328] [,329] [,330]  
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## [2,] -1.298074e+13 9.811533e+12 -3.739827e+13 1.586212e+13 -1.278921e+13  
## [3,] -1.869672e+13 -4.699040e+13 -2.575551e+13 9.903765e+12 -2.901882e+13  
## [4,] 4.170175e+12 -2.159228e+13 2.960205e+13 -1.638180e+13 5.405591e+12  
## [5,] -9.764738e+12 3.448822e+13 -3.199953e+13 8.727789e+12 6.847391e+12  
## [6,] -5.376385e+11 -1.528822e+13 4.598591e+12 -6.443044e+12 -1.208184e+13  
## [7,] -1.140106e+13 3.122718e+13 -3.970882e+13 1.679155e+13 1.054750e+13  
## [8,] -5.031252e+12 -8.683426e+12 -1.406566e+13 -5.098800e+12 -7.888588e+12  
## [9,] 8.359468e+12 3.861619e+13 1.415148e+13 6.919689e+10 2.015740e+13  
## [10,] -1.700175e+13 2.457928e+12 -3.204522e+13 1.508716e+13 -1.737301e+12  
## [11,] -6.000072e+12 -4.673945e+12 4.606444e+12 8.744811e+12 -4.638759e+12  
## [12,] 1.321808e+13 4.761606e+13 1.727093e+13 -6.472815e+12 1.841353e+13  
## [13,] 1.646511e+12 1.139952e+13 6.850014e+12 6.448293e+10 7.487439e+12  
## [14,] 3.729691e+12 -4.805205e+12 9.773150e+12 -1.260889e+13 1.046692e+12  
## [15,] 3.339588e+12 -1.069812e+13 9.830313e+12 -1.255347e+13 -2.261876e+12  
## [16,] -1.984948e+13 -5.136605e+12 -3.270216e+13 2.692656e+13 -8.723284e+12  
## [17,] -9.387441e+12 2.084260e+13 -1.674875e+13 1.130384e+13 1.022659e+12  
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## [19,] -7.365891e+12 -2.491489e+12 -1.091381e+13 9.862334e+12 -8.483662e+10  
## [20,] -2.409230e+11 3.886386e+12 9.476296e+12 9.150162e+11 7.950873e+12  
## [21,] 1.709253e+13 1.347061e+13 2.897404e+13 -1.122340e+13 9.218542e+12  
## [22,] -5.978053e+12 -2.023281e+13 7.041596e+11 -7.531958e+11 -1.232524e+13  
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## [24,] -8.206374e+12 -1.701308e+13 -1.535997e+13 3.016126e+12 -1.281496e+13  
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## [29,] -4.940576e+12 2.584012e+12 -3.660256e+12 -1.279311e+12 -2.954288e+12  
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## [31,] -1.193020e+12 -1.960125e+13 2.757958e+12 -5.082515e+12 -9.352746e+12  
## [32,] 8.076877e+12 3.583381e+12 2.016272e+13 -1.269327e+13 1.092062e+12  
## [33,] -9.376785e+12 2.944588e+13 -1.790198e+13 1.161689e+13 1.628536e+12  
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## [39,] -1.455808e+13 2.172371e+13 -2.983789e+13 2.973474e+13 -1.242378e+13  
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## [44,] 7.429277e+12 -6.725596e+12 1.049445e+13 -5.581820e+12 -2.663754e+10  
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## [46,] -1.925510e+12 6.853793e+12 7.799769e+12 9.333771e+12 -4.040801e+12  
## [47,] -4.116919e+12 -1.046509e+12 -3.384088e+12 8.269700e+12 -4.940310e+12  
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## [161,] -4.209216e+12 -1.031617e+13 -5.468543e+12 6.742105e+12 -5.349024e+12  
## [162,] -1.949891e+12 -6.320632e+12 -3.951148e+12 5.908198e+12 -9.499667e+11  
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## [164,] 5.668596e+12 -8.503927e+12 2.272777e+13 -1.156054e+13 -1.678356e+12  
## [165,] -2.534251e+12 -8.260692e+12 -1.338621e+13 2.700696e+12 -4.895079e+12  
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## [167,] 1.698063e+12 -3.098103e+13 3.358429e+12 -1.057860e+13 -2.153256e+12  
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## [172,] 1.210865e+12 -1.968467e+13 -7.014773e+12 -9.205159e+12 -1.202349e+13  
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## [9,] -4.934904e+12 1.882019e+13 1.438361e+13 -7.586808e+12 1.713866e+13  
## [10,] -1.722897e+13 -4.275188e+13 -1.459306e+13 5.637802e+12 1.195712e+13  
## [11,] -1.347926e+12 1.681902e+12 1.181306e+13 -1.111138e+13 6.966971e+11  
## [12,] 4.834683e+12 1.936602e+13 1.397832e+13 -1.026716e+13 1.407194e+13  
## [13,] 3.656839e+12 7.602058e+12 4.532528e+12 -6.611224e+12 6.011856e+11  
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## [20,] 6.258597e+11 1.453171e+13 5.570335e+12 -9.015338e+12 3.778896e+12  
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## [92,] 4.910962e+12 -9.434678e+11 -1.251476e+12 -1.777623e+11 -2.520573e+12  
## [93,] -2.312869e+13 -1.147769e+13 5.941766e+11 -4.457970e+12 1.777332e+11  
## [94,] 8.671115e+12 -1.666957e+12 -6.263138e+12 -2.207136e+12 -3.060122e+12  
## [95,] 3.741915e+12 5.589736e+12 2.391220e+12 -7.067300e+11 1.033338e+12  
## [96,] 1.770317e+13 1.850598e+13 -6.414139e+12 6.613993e+12 4.945055e+11  
## [97,] 2.811217e+12 -4.512102e+12 -2.696951e+12 -1.310873e+12 -3.891048e+11  
## [98,] -1.142801e+13 -3.686696e+12 1.382267e+12 9.203798e+11 -4.522529e+10  
## [99,] -2.443965e+12 -3.914426e+12 1.811170e+12 -1.604288e+12 4.542832e+11  
## [100,] -2.752681e+11 -2.410989e+12 3.895617e+12 -1.982311e+12 -2.317500e+11  
## [101,] 3.476747e+12 5.394376e+11 -3.849936e+12 2.492650e+12 -2.565672e+12  
## [102,] 3.608488e+12 9.403823e+12 1.644839e+12 -1.860490e+12 -4.230086e+11  
## [103,] 8.027655e+12 1.080251e+13 4.821838e+10 8.937621e+12 2.517814e+12  
## [104,] -7.132602e+12 -8.129695e+12 -9.223216e+11 -3.150514e+12 -1.132240e+12  
## [105,] -4.371627e+12 -1.623458e+12 -4.946422e+12 1.012931e+12 2.246849e+12  
## [106,] 2.302753e+12 8.177585e+10 5.699602e+11 1.978282e+12 -4.854287e+10  
## [107,] -9.171912e+12 -8.452784e+12 2.275102e+12 -7.020057e+11 2.356343e+11  
## [108,] 9.767636e+12 7.458584e+12 -4.297189e+12 -7.032993e+11 -7.173961e+11  
## [109,] 1.212014e+12 -4.480791e+11 -1.501734e+11 -6.048318e+11 -1.797438e+11  
## [110,] 6.142576e+12 2.038130e+12 -1.308216e+12 -3.121717e+11 -2.363351e+12  
## [111,] -1.457158e+13 -5.279964e+12 1.168978e+12 -5.013897e+12 1.118050e+12  
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## [113,] 4.006423e+11 1.892477e+12 -2.042524e+12 1.455371e+12 -3.073777e+11  
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## [115,] -9.789623e+12 -7.925075e+12 2.150341e+12 -1.522147e+12 -2.672977e+12  
## [116,] -8.350381e+12 -1.044931e+13 -5.426882e+12 8.507151e+11 -2.847493e+12  
## [117,] -1.057580e+13 -1.010995e+13 3.966141e+12 -5.340729e+12 -1.651388e+12  
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## [119,] -1.244969e+13 -7.886323e+12 -1.433497e+12 -1.506124e+12 1.109432e+11  
## [120,] -1.946297e+13 -2.262990e+13 -3.760793e+12 -4.881530e+12 -3.976076e+12  
## [121,] 9.905130e+12 1.276782e+13 2.391817e+12 5.823314e+12 1.400211e+12  
## [122,] 8.994906e+12 8.579757e+12 1.266180e+12 7.231157e+12 3.176103e+12  
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## [124,] 1.194263e+13 7.258453e+12 -5.564419e+12 9.312814e+11 4.753559e+12  
## [125,] 7.026211e+12 2.091201e+12 5.457087e+12 -6.764271e+11 7.758496e+11  
## [126,] 9.492105e+12 9.652595e+12 -2.029803e+12 7.078470e+12 4.910701e+12  
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## [129,] 1.414600e+13 8.322850e+12 -3.962706e+12 9.945477e+12 1.162141e+12  
## [130,] 1.031966e+13 1.121164e+13 -1.349213e+12 2.045104e+12 -5.989950e+11  
## [131,] -4.430542e+12 -4.315313e+12 5.773803e+12 -7.463756e+12 8.263453e+11  
## [132,] -2.553960e+13 -1.185841e+13 7.974645e+11 -8.342550e+11 1.093534e+12  
## [133,] -5.368336e+11 3.780679e+11 -5.624549e+11 -4.193121e+10 -4.122469e+11  
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## [137,] -2.571258e+12 -6.307131e+12 -3.341874e+12 -5.349501e+12 7.537850e+11  
## [138,] 4.695760e+12 7.812065e+12 2.158155e+12 5.612732e+12 4.098132e+12  
## [139,] 3.662196e+12 7.896385e+12 -2.257166e+12 1.169997e+12 -1.556152e+12  
## [140,] -1.600133e+13 -1.231409e+13 -2.646655e+12 6.492454e+12 -7.602730e+11  
## [141,] -1.542567e+13 -9.453714e+12 3.136261e+12 -5.468586e+12 -2.318642e+11  
## [142,] -8.487364e+12 -1.014097e+13 -3.372622e+12 -4.922662e+12 -1.912638e+12  
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## [144,] -1.174073e+13 -1.683391e+13 -3.071985e+12 -3.783799e+12 -1.049362e+12  
## [145,] 6.860009e+12 2.829408e+12 -3.414749e+12 2.113320e+12 6.441560e+11  
## [146,] 6.567313e+11 1.599417e+12 -2.468496e+12 5.915198e+11 1.243629e+10  
## [147,] 7.266718e+12 -1.365519e+12 -1.423129e+11 -5.944545e+12 -3.771566e+12  
## [148,] -9.176779e+12 -5.436510e+12 2.111123e+12 2.828995e+12 -1.925126e+12  
## [149,] -2.140052e+12 1.087471e+12 2.785874e+12 2.515465e+10 1.832348e+12  
## [150,] -6.863681e+11 1.839516e+12 -1.628902e+12 -3.433472e+12 1.660128e+12  
## [151,] -8.377170e+12 -8.910389e+12 -1.696788e+12 -4.564893e+12 -2.033855e+12  
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## [161,] 5.736172e+12 2.120941e+12 -8.281505e+11 -3.799374e+12 -2.500269e+12  
## [162,] 1.300717e+12 4.152741e+12 -2.429721e+12 1.017710e+12 1.257481e+12  
## [163,] 3.610568e+12 2.900107e+12 7.377333e+12 2.130434e+12 1.207364e+12  
## [164,] -1.399069e+13 -1.159268e+13 3.620021e+12 -7.415436e+12 -3.900476e+12  
## [165,] 9.807917e+12 7.022268e+12 -1.135724e+12 9.975951e+11 -8.517829e+11  
## [166,] -1.551252e+13 -1.117142e+13 2.549918e+12 -2.480883e+12 -1.666049e+11  
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## [174,] -1.248027e+13 -7.211807e+12 1.431793e+12 8.372508e+11 -3.912916e+12  
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## [184,] -9.515098e+12 -8.107026e+12 -3.278019e+12 -1.755044e+11 -2.539954e+12  
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## [3,] -8.882626e+12 -1.735132e+13 -1.237081e+13 -6.146893e+12 -2.236157e+13  
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## [33,] 8.480229e+11 1.746742e+13 1.285297e+13 1.413279e+12 -7.671782e+12  
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## [25,] 8.615198e+12 -7.562758e+12 -5.774977e+12 -2.507992e+12 4.208402e+12  
## [26,] -1.065871e+13 8.234137e+12 7.058426e+12 2.093128e+12 -3.207131e+12  
## [27,] 9.129041e+12 -5.855286e+12 -8.546253e+12 -2.875518e+12 5.839472e+12  
## [28,] -3.637101e+12 3.036950e+12 3.884301e+12 9.900838e+12 -1.424486e+13  
## [29,] 1.147952e+12 2.322234e+11 1.275355e+12 -1.920666e+11 1.864927e+12  
## [30,] 7.752566e+11 -4.682099e+12 8.394912e+11 -6.645493e+12 4.449452e+12  
## [31,] 1.773411e+13 -5.646016e+11 -1.107959e+13 -1.744991e+12 7.643877e+12  
## [32,] 5.337482e+11 9.534817e+11 -1.350128e+13 5.483293e+12 -1.657633e+12  
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## [36,] 1.349628e+13 1.720973e+12 -1.350286e+12 2.745664e+12 6.179701e+11  
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## [191,] 9.558432e+12 -1.110117e+13 2.817831e+12 -1.142063e+12 4.532435e+12  
## [192,] -4.827356e+12 5.273007e+11 9.033879e+11 6.229616e+11 -3.102518e+12  
## [193,] -6.590820e+12 -3.354536e+12 1.440919e+13 8.376571e+11 -1.030187e+12  
## [194,] -1.446876e+13 5.054654e+12 1.671295e+13 -5.173615e+12 -2.371343e+12  
## [195,] -1.064057e+13 1.227440e+13 7.719240e+12 2.788665e+12 -2.650465e+12  
## [196,] -6.886858e+12 -1.344238e+12 2.911481e+12 3.484465e+12 -1.352884e+12  
## [197,] -2.196340e+12 1.528186e+12 2.255319e+11 2.128426e+12 -1.471023e+12  
## [198,] -9.095345e+12 -1.667252e+11 9.295935e+12 2.464877e+11 -5.021804e+12  
## [199,] -7.290820e+12 1.399615e+12 1.049261e+13 -7.555351e+12 3.399477e+12  
## [,351] [,352] [,353] [,354] [,355]  
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## [2,] -8.513371e+12 -6.677125e+12 -2.717840e+13 -7.725061e+12 -6.229614e+11  
## [3,] -2.176872e+11 -1.348499e+11 6.241965e+13 9.277297e+10 2.077433e+13  
## [4,] 1.171166e+13 -8.692816e+11 4.567634e+13 4.970981e+12 3.518710e+12  
## [5,] 5.780721e+11 -1.047956e+12 -5.787520e+13 -3.070784e+12 -3.535189e+12  
## [6,] 5.193595e+12 -3.112315e+12 2.976551e+13 -2.225310e+12 9.238255e+12  
## [7,] -9.261376e+12 -7.842224e+12 -4.692688e+13 -6.662859e+12 -5.613408e+12  
## [8,] 1.456738e+12 -1.796907e+12 2.225415e+13 -4.875299e+12 9.915864e+12  
## [9,] -3.181054e+12 3.963288e+12 -6.318966e+13 2.032092e+12 -1.146117e+13  
## [10,] -4.718288e+12 3.285366e+12 -2.040730e+13 -3.271500e+12 3.850232e+12  
## [11,] -2.160157e+12 -1.136645e+12 -2.023468e+12 1.778305e+12 -3.277446e+12  
## [12,] 8.663069e+12 1.260984e+13 -6.367714e+13 5.878238e+12 -1.191710e+13  
## [13,] -2.042954e+12 5.256141e+11 -1.108956e+13 4.344123e+12 -8.209606e+12  
## [14,] -1.216135e+12 -7.735469e+12 1.944773e+13 -2.154668e+12 1.623702e+12  
## [15,] 5.486472e+12 3.537085e+12 2.104298e+13 9.234600e+11 5.843596e+12  
## [16,] -2.343449e+13 -9.229303e+12 3.049280e+12 -5.781986e+12 1.005293e+13  
## [17,] -5.226812e+11 2.332863e+12 -2.816785e+13 -4.486370e+11 -5.183754e+12  
## [18,] -9.736626e+12 -3.962062e+12 -2.051620e+13 -4.349633e+12 5.023088e+12  
## [19,] -1.354276e+13 -4.948026e+12 -4.213929e+12 -5.010309e+12 -2.969965e+12  
## [20,] -5.505495e+12 -1.153497e+12 -4.380815e+12 1.549112e+11 5.582137e+11  
## [21,] 2.026564e+12 -1.015401e+12 -1.275039e+13 5.528175e+12 -7.897023e+12  
## [22,] 4.900697e+12 2.331168e+12 3.728430e+13 -2.113320e+12 7.798640e+12  
## [23,] 7.681927e+12 6.176255e+12 2.003126e+13 4.898342e+12 -7.361605e+11  
## [24,] -3.456076e+12 -2.827940e+12 1.975278e+13 -4.270671e+12 7.586516e+12  
## [25,] 5.605188e+12 5.054033e+12 1.669021e+13 3.033319e+12 5.978521e+12  
## [26,] 3.726636e+12 5.508515e+12 -2.260192e+13 1.231338e+12 -3.119692e+12  
## [27,] 5.390003e+11 -2.814847e+12 2.010684e+13 9.833707e+11 -6.113310e+11  
## [28,] -3.208791e+12 -6.045166e+12 -6.732988e+12 -1.388433e+12 -1.919729e+12  
## [29,] 1.853417e+12 7.764241e+11 -1.814381e+11 -9.963192e+11 4.173525e+12  
## [30,] 1.431277e+12 -2.121310e+12 4.504514e+12 -1.170239e+12 5.378404e+12  
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## [33,] -1.688743e+12 1.642369e+12 -4.982719e+13 -3.040303e+12 -7.665569e+12  
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## [35,] 5.900123e+10 1.851620e+12 3.045600e+12 1.542345e+12 -2.181464e+12  
## [36,] 2.126555e+12 9.296813e+11 2.136929e+13 -7.041600e+11 4.243087e+12  
## [37,] 6.122128e+12 -1.435373e+12 1.643729e+13 -3.305862e+12 6.775939e+12  
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## [39,] -1.964108e+12 8.609466e+12 -3.924051e+13 3.570009e+12 -7.012336e+12  
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## [41,] -1.523146e+12 5.580371e+11 1.146673e+13 -1.698828e+12 3.052752e+12  
## [42,] 1.256420e+13 5.027987e+12 1.730328e+13 1.084032e+12 5.198874e+11  
## [43,] 1.322214e+13 2.436320e+12 2.457353e+11 5.670006e+11 -2.837204e+11  
## [44,] -7.957314e+11 -9.858005e+11 1.046541e+13 4.652781e+11 1.703603e+12  
## [45,] -5.800680e+12 -4.502284e+12 2.505623e+13 -3.868675e+12 5.118236e+12  
## [46,] -4.670703e+12 -1.980765e+12 -8.311204e+12 2.271835e+12 -6.355647e+12  
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## [51,] -4.259734e+12 1.073617e+12 3.671698e+12 -4.872562e+11 -5.022283e+12  
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## [71,] -4.394478e+12 -1.035051e+13 2.613134e+13 -1.331031e+12 4.961706e+12  
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## [85,] 1.940079e+11 3.238266e+12 8.667696e+12 9.839541e+11 -7.990863e+11  
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## [163,] 2.056653e+12 4.928794e+12 -6.081588e+13 3.910463e+12 -1.310668e+13  
## [164,] 1.067565e+13 6.686111e+12 1.238937e+13 2.505052e+12 1.828947e+12  
## [165,] -2.177807e+11 -7.276061e+12 1.316402e+13 -4.177487e+12 1.149609e+12  
## [166,] 5.202851e+12 -8.834594e+10 2.422543e+13 1.750962e+12 4.116283e+12  
## [167,] -7.225820e+11 -3.031530e+12 4.235964e+13 1.796292e+12 9.704361e+12  
## [168,] 9.678034e+12 5.219469e+12 1.854098e+13 4.425926e+12 -3.679424e+11  
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## [170,] 4.380627e+11 -4.349176e+12 4.644513e+12 -4.108070e+12 4.139462e+12  
## [171,] -5.398207e+12 -8.387043e+11 -5.804314e+12 -1.417705e+12 -4.886990e+12  
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## [184,] 9.556783e+11 2.993161e+12 3.795267e+13 -1.548429e+12 7.475785e+12  
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## [7,] 2.083881e+11 2.436522e+13 1.207204e+12 5.296301e+13 -3.254210e+13  
## [8,] -1.916353e+13 4.968081e+12 -3.034716e+12 -1.088180e+13 -5.089446e+12  
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## [11,] 7.875977e+12 -2.046843e+12 4.289855e+12 6.731775e+11 -2.290580e+11  
## [12,] 3.249309e+13 -1.291908e+13 -2.747161e+12 5.202258e+13 -5.614270e+11  
## [13,] 1.483539e+13 -4.490812e+12 -1.706877e+11 6.223233e+12 3.085228e+12  
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## [15,] -4.422580e+12 -8.299596e+12 -2.018258e+11 -2.447402e+13 9.894993e+12  
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## [18,] -1.838971e+11 1.474851e+13 8.126516e+10 2.476744e+13 -1.763557e+13  
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## [20,] 4.865857e+12 9.115754e+11 -2.524159e+11 8.726661e+12 6.147844e+12  
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## [124,] -1.077109e+13 1.778384e+13 2.630931e+12 -5.568381e+12 -8.588569e+12  
## [125,] 9.996488e+12 -1.921036e+12 -4.452809e+12 2.114791e+13 -7.589434e+12  
## [126,] 1.774951e+12 1.183257e+13 8.003889e+11 2.000177e+13 -9.751772e+12  
## [127,] -1.019717e+13 -7.906719e+12 3.044822e+12 -5.097533e+13 1.984935e+13  
## [128,] -3.121179e+12 2.117805e+13 4.890082e+12 8.721314e+12 -1.670095e+13  
## [129,] 4.004494e+11 1.446533e+13 3.292186e+12 1.168546e+13 -6.395049e+12  
## [130,] 5.075722e+12 1.142909e+13 4.843706e+12 1.889264e+13 -1.980725e+13  
## [131,] -1.881417e+12 -1.015157e+13 -3.656314e+12 -1.023609e+13 4.582179e+12  
## [132,] -5.636673e+11 -2.019789e+13 -4.884564e+12 -7.952950e+12 1.232096e+13  
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## [134,] 2.561083e+12 -3.022490e+12 3.709371e+11 -1.159613e+13 6.828957e+12  
## [135,] 1.024270e+13 -1.039681e+13 -2.081477e+12 9.212271e+12 -6.231118e+11  
## [136,] 8.877509e+12 -2.014905e+13 8.724970e+11 -7.907951e+12 2.391871e+13  
## [137,] -7.979691e+11 -3.542785e+12 2.278345e+11 -8.432028e+12 6.709443e+12  
## [138,] -7.902798e+12 1.215232e+13 -9.009541e+11 1.492677e+12 -9.076504e+12  
## [139,] 3.565266e+12 4.855322e+12 3.799975e+12 9.435244e+12 -6.124019e+12  
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## [141,] -2.484365e+13 -8.697708e+12 -8.853017e+12 -3.882093e+13 1.768487e+13  
## [142,] -1.351204e+12 -1.607831e+13 7.358515e+11 -1.941619e+13 1.163248e+13  
## [143,] -8.542265e+12 1.092719e+13 -3.138610e+12 6.564375e+12 -1.155811e+13  
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## [146,] -3.338557e+12 4.724609e+12 5.263046e+12 -8.442976e+12 3.132495e+12  
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## [150,] -1.809299e+13 4.174061e+12 -1.370230e+12 -2.840057e+13 3.111645e+12  
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## [152,] -9.037584e+12 -1.255890e+13 -5.275058e+12 -1.835563e+13 1.525538e+13  
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## [156,] 1.291831e+13 8.761492e+12 -1.553083e+11 1.970474e+13 -1.242629e+13  
## [157,] -6.906058e+12 -1.048248e+12 6.768068e+10 3.819257e+11 2.431043e+12  
## [158,] 8.137000e+11 1.064074e+13 6.690999e+12 7.263651e+12 -7.486357e+12  
## [159,] -8.904244e+12 2.844876e+11 -7.257902e+12 -7.419712e+12 7.161103e+11  
## [160,] -5.887498e+12 -5.228141e+12 -5.349348e+12 -7.488167e+12 3.926259e+12  
## [161,] -2.285514e+12 2.677761e+12 2.337109e+12 -1.050189e+13 4.354596e+11  
## [162,] -5.281305e+12 6.439385e+12 3.102978e+12 -4.426382e+12 -3.304585e+11  
## [163,] 2.750876e+13 -5.403377e+12 2.927546e+12 4.672420e+13 -9.175665e+12  
## [164,] -2.553374e+11 -2.320710e+13 -4.570098e+12 -1.910797e+13 1.290076e+13  
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## [166,] -9.720107e+12 -1.499863e+13 -6.100121e+12 -2.429377e+13 1.514997e+13  
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## [173,] -3.903740e+12 -7.903376e+12 -2.562944e+12 -1.023985e+13 9.385010e+12  
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## [194,] 9.651798e+12 1.386749e+13 1.990072e+12 2.586755e+13 -1.693989e+13  
## [195,] 1.684244e+13 -4.072053e+12 -3.031991e+12 2.310562e+13 -4.168016e+12  
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## [90,] 3.398827e+12 4.339272e+12 3.359345e+12 -5.647534e+12 1.804402e+13  
## [91,] 1.549791e+12 1.006084e+13 3.312869e+12 -4.459942e+12 -5.214297e+12  
## [92,] 8.807294e+12 1.186899e+13 1.688245e+12 -5.049760e+12 -7.518597e+12  
## [93,] 1.176075e+12 1.551418e+12 8.409246e+12 -1.058638e+13 2.795527e+13  
## [94,] -2.264666e+11 5.685753e+12 5.414662e+11 1.336650e+13 -1.086595e+13  
## [95,] -4.465393e+12 -5.106077e+12 -2.602775e+12 7.586117e+11 -3.491958e+12  
## [96,] 5.491860e+12 -1.855108e+12 -9.197253e+12 4.704425e+12 -3.763566e+13  
## [97,] -3.502454e+12 -4.037560e+12 -2.598026e+11 -4.197709e+11 5.311209e+11  
## [98,] -9.672063e+11 -1.013354e+12 5.120847e+12 -2.222170e+11 1.778841e+13  
## [99,] -5.497216e+12 -4.896052e+12 -1.699045e+12 3.297312e+12 8.284721e+12  
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## [102,] -8.808221e+11 -8.753855e+11 1.977411e+12 2.554088e+12 -2.785491e+12  
## [103,] 6.991001e+11 -1.109279e+13 -3.519098e+12 9.589760e+12 -9.540484e+12  
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## [108,] 5.091772e+12 1.350904e+13 -2.511590e+12 -5.388820e+12 -1.767203e+13  
## [109,] -2.931678e+12 7.494862e+12 -1.016483e+12 -2.907781e+12 -1.559238e+12  
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## [114,] -3.226362e+12 -7.959513e+12 1.570218e+12 7.113685e+12 1.138260e+13  
## [115,] -3.041174e+12 -6.923729e+12 1.412057e+12 -9.583739e+10 1.700451e+13  
## [116,] 2.772289e+11 1.201431e+12 4.257590e+11 -7.790203e+12 9.003958e+12  
## [117,] -5.199890e+12 -1.708867e+12 1.226331e+13 -8.758545e+12 2.722264e+13  
## [118,] -2.698529e+11 8.541752e+10 -4.092934e+12 1.133832e+13 -1.367402e+13  
## [119,] -2.451582e+12 -4.833568e+12 3.847981e+12 1.008035e+12 1.345275e+13  
## [120,] -7.264385e+11 -2.207922e+12 1.353407e+12 -8.745748e+12 2.277393e+13  
## [121,] -6.021342e+12 -1.095088e+13 -5.888412e+12 1.160061e+13 -1.851294e+13  
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## [123,] 1.732384e+12 2.471879e+12 -1.477227e+12 5.987480e+11 6.180211e+09  
## [124,] 5.791344e+12 5.951755e+12 -1.771499e+12 -2.205866e+12 -1.500862e+13  
## [125,] -7.675517e+12 -5.889777e+12 -1.897047e+12 4.755626e+11 -3.417010e+12  
## [126,] 1.280221e+12 -1.085528e+13 -5.286813e+12 7.685610e+12 -1.222288e+13  
## [127,] 3.983401e+12 2.248850e+13 8.513529e+12 -1.521916e+13 1.071081e+13  
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## [130,] 2.929176e+12 1.783658e+12 -7.220936e+12 2.140894e+12 -2.762162e+13  
## [131,] -1.219429e+12 5.679745e+12 7.060547e+12 -7.170749e+12 9.390374e+12  
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## [135,] -5.863241e+12 -3.955139e+12 -6.245040e+12 7.252443e+12 5.475880e+12  
## [136,] -3.023814e+12 -1.495229e+13 8.869250e+12 9.089703e+12 3.305882e+13  
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## [138,] 1.949654e+12 -3.805535e+12 1.420754e+12 9.541579e+11 -4.568026e+12  
## [139,] 4.332448e+12 5.148133e+12 -2.267058e+12 -1.528597e+12 -1.454577e+13  
## [140,] -2.266998e+12 -1.099551e+13 -5.269189e+12 1.528066e+12 1.552571e+13  
## [141,] 5.653906e+12 1.382118e+13 1.455448e+13 -1.778415e+13 2.633784e+13  
## [142,] -2.877797e+12 5.418989e+12 -2.047907e+11 -5.382605e+12 1.460706e+13  
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## [146,] 3.287592e+12 6.931779e+12 2.262516e+12 1.493165e+12 -5.608082e+12  
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## [158,] 1.621430e+12 -7.873214e+11 -3.256618e+12 5.379372e+12 -1.196361e+13  
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## [165,] 4.933044e+12 1.128274e+13 -5.417788e+12 -4.866816e+12 -1.320245e+13  
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## [174,] -4.308803e+11 -1.358991e+12 4.621997e+12 -5.957707e+12 1.635903e+13  
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## [59,] -6.546214e+11 1.004682e+12 2.712286e+12 8.779583e+12 3.023724e+12  
## [60,] -4.543081e+13 2.448086e+12 -5.174691e+12 1.724445e+11 -1.224373e+13  
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## [62,] -3.934182e+12 -8.925325e+11 5.149647e+10 -2.035752e+12 -2.697749e+12  
## [63,] 2.006534e+13 3.013205e+11 4.736513e+12 5.272605e+12 1.130134e+13  
## [64,] 4.377806e+12 -2.841142e+12 1.305451e+12 -3.828175e+12 -8.207231e+12  
## [65,] 5.559302e+13 -9.724888e+12 2.221586e+12 8.396096e+11 1.034514e+13  
## [66,] 2.596763e+12 1.719097e+11 -2.744979e+12 -3.890823e+11 2.062712e+12  
## [67,] -8.676751e+12 2.481395e+12 1.994327e+12 9.718345e+11 -9.901051e+10  
## [68,] -3.425628e+12 -2.321201e+12 1.042051e+11 -7.914402e+12 -1.326763e+13  
## [69,] -6.719679e+12 -4.361994e+12 -1.010488e+12 -2.253553e+13 -1.095114e+13  
## [70,] 8.893717e+11 -1.334846e+12 -5.492980e+11 2.661244e+12 -4.209443e+11  
## [71,] -8.902267e+12 -1.611931e+12 1.884840e+12 -9.020700e+12 -1.394257e+13  
## [72,] -2.075068e+13 4.137074e+12 7.249677e+11 -9.975759e+11 3.351064e+11  
## [73,] 2.197941e+13 4.009502e+12 2.819852e+12 1.320203e+13 1.601910e+13  
## [74,] 1.188436e+13 8.119775e+11 7.098042e+12 5.085506e+12 -2.383765e+11  
## [75,] 2.537840e+13 -1.253871e+12 -1.683220e+12 9.978040e+12 1.228788e+13  
## [76,] -1.666623e+13 2.669778e+12 -1.799488e+12 2.967342e+12 6.757866e+12  
## [77,] -3.839791e+13 5.611130e+12 2.794513e+11 -3.725658e+12 -2.718115e+12  
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## [88,] -4.255015e+12 -2.912452e+11 -3.894129e+11 -1.044799e+12 -1.317266e+12  
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## [93,] -5.374537e+13 4.643332e+12 -4.245850e+12 1.808204e+12 -1.454422e+13  
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## [24,] 8.114524e+12 1.528660e+12 6.301147e+12 1.546366e+13 8.554193e+12  
## [25,] 8.940987e+12 -1.174760e+13 -1.828998e+12 -3.738693e+12 2.256295e+13  
## [26,] -1.259166e+13 -1.541932e+12 -2.307421e+12 3.318485e+12 -1.681978e+13  
## [27,] 1.063103e+13 -8.486946e+12 -3.984161e+12 3.053200e+12 2.429953e+13  
## [28,] -1.753050e+12 8.333491e+12 -1.294643e+12 -1.662445e+13 -7.928079e+12  
## [29,] -1.019848e+12 1.930028e+12 -1.743770e+10 1.319405e+12 -1.298292e+11  
## [30,] 1.513722e+12 4.622943e+12 4.994021e+12 4.286850e+12 -7.793689e+11  
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## [32,] -9.200480e+11 -1.047811e+13 -5.995150e+12 -1.513666e+13 1.507912e+13  
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## [190,] -3.612213e+12 -1.644895e+12 -5.814791e+12 -1.619542e+13 7.682776e+12  
## [191,] 1.282476e+13 -3.970389e+12 2.356311e+12 5.620045e+12 1.367537e+13  
## [192,] -3.955665e+12 1.137401e+12 -7.079982e+11 -3.783772e+12 -8.859098e+12  
## [193,] -2.653627e+12 8.539432e+12 5.132485e+12 6.719577e+12 -2.487971e+13  
## [194,] -1.091585e+13 1.521931e+13 6.578934e+12 1.411183e+13 -3.478292e+13  
## [195,] -7.157961e+12 5.360698e+12 -3.466293e+12 1.645630e+12 -1.575952e+13  
## [196,] -2.243090e+12 -4.406306e+12 -9.037028e+11 -3.936052e+12 -3.448359e+12  
## [197,] -3.812767e+12 2.290594e+12 -7.953766e+11 -5.022963e+12 -6.684091e+12  
## [198,] -1.008482e+13 6.568721e+12 1.092318e+12 2.443208e+12 -2.760815e+13  
## [199,] -5.557722e+12 7.528005e+12 6.390454e+12 1.896508e+13 -2.105729e+13  
## [,376] [,377] [,378] [,379] [,380]  
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## [2,] -5.585465e+12 -6.808978e+12 -1.286723e+13 -2.010078e+13 -2.982484e+13  
## [3,] -2.854534e+13 -8.315002e+12 3.415557e+13 1.523372e+13 -3.452386e+13  
## [4,] 1.806302e+12 9.364774e+12 1.853988e+13 2.007469e+13 1.980276e+13  
## [5,] 1.870216e+13 4.242738e+12 -2.703349e+13 -1.915612e+13 -1.385904e+13  
## [6,] -7.931174e+12 1.029358e+12 1.290447e+13 8.214573e+12 -4.955590e+12  
## [7,] 6.379115e+12 -3.093611e+12 -1.690891e+13 -2.942306e+13 -1.341665e+12  
## [8,] -9.614638e+12 -2.557145e+12 9.129629e+12 4.202977e+12 -1.152594e+12  
## [9,] 1.672679e+13 2.115140e+12 -3.657362e+13 -1.530590e+13 2.698028e+13  
## [10,] -2.974498e+11 -1.334568e+12 -5.983832e+12 -1.389802e+13 -1.973557e+13  
## [11,] 2.244919e+12 -1.526616e+12 1.746422e+12 -3.105504e+12 3.973974e+12  
## [12,] 2.696321e+13 9.675367e+12 -3.503054e+13 -1.213440e+13 2.223256e+13  
## [13,] 1.369593e+13 3.379004e+12 -1.035746e+13 1.757027e+12 1.102356e+13  
## [14,] -6.307033e+12 3.447950e+12 8.760396e+12 7.541579e+12 6.651373e+12  
## [15,] -2.588404e+12 2.546499e+11 8.394237e+12 1.059208e+13 1.248472e+12  
## [16,] -2.650894e+13 -7.416348e+12 6.969605e+12 -2.441742e+13 -1.680142e+13  
## [17,] 6.005505e+12 -3.636141e+12 -1.331638e+13 -1.109331e+13 -6.061131e+12  
## [18,] -6.778580e+12 -1.011642e+11 -9.266638e+12 -1.322446e+13 -6.540635e+12  
## [19,] -1.023178e+13 -6.062813e+12 -3.978686e+11 -9.530529e+12 7.955260e+11  
## [20,] -3.909966e+12 2.400728e+11 -2.486329e+12 -6.660355e+12 1.362865e+13  
## [21,] 1.478260e+13 5.496026e+12 -1.226401e+13 6.163972e+12 2.432773e+13  
## [22,] -1.246389e+13 -4.436142e+12 1.910033e+13 1.460743e+13 -8.657282e+12  
## [23,] 5.786796e+12 6.529173e+12 5.259538e+12 1.889992e+13 2.959849e+13  
## [24,] -9.296618e+12 -6.273888e+12 1.315498e+13 3.897022e+11 -2.207010e+13  
## [25,] -5.091586e+12 -8.813856e+11 1.028949e+13 1.250004e+13 -1.982376e+12  
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## [28,] 4.009616e+12 7.074566e+12 -5.510545e+12 8.541339e+11 2.120970e+13  
## [29,] -1.597830e+12 6.113250e+11 1.863864e+12 6.233096e+11 -6.303631e+12  
## [30,] -6.825125e+12 5.059707e+11 6.402642e+12 -2.349518e+11 -1.231523e+13  
## [31,] -4.270651e+12 -5.083805e+11 1.276096e+13 9.465960e+12 -9.817217e+12  
## [32,] 1.356508e+13 6.439429e+12 -4.295969e+12 9.080313e+12 1.635036e+13  
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## [35,] -3.025371e+12 -1.794626e+12 1.224054e+12 -3.964697e+11 4.042788e+12  
## [36,] -2.807128e+12 8.376202e+11 8.719333e+12 7.988832e+12 7.426770e+12  
## [37,] -1.136471e+13 -3.221048e+12 1.335510e+13 7.803603e+12 -1.341940e+13  
## [38,] 2.371271e+12 2.205182e+11 4.497216e+12 -2.908713e+12 -1.059850e+13  
## [39,] 7.262161e+12 -9.543944e+12 -1.153458e+13 -2.383493e+13 -3.260308e+13  
## [40,] -1.039309e+12 -3.207313e+12 1.448752e+12 4.888608e+12 -3.514915e+12  
## [41,] -4.432823e+12 -4.449202e+12 9.142593e+12 1.813100e+12 -2.670930e+12  
## [42,] 4.256122e+12 1.949778e+12 6.006002e+12 1.845278e+13 -2.678502e+12  
## [43,] 1.075298e+13 8.572907e+12 -4.858145e+12 1.519070e+13 1.014657e+13  
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## [46,] 6.376753e+11 -3.913021e+12 -3.826939e+12 -1.588706e+12 4.903111e+12  
## [47,] -1.072230e+12 -5.195361e+12 1.215852e+12 -5.153209e+12 -3.437195e+12  
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## [49,] -1.092564e+13 1.236204e+12 -4.790583e+12 -1.753823e+13 -1.745491e+12  
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## [51,] 4.880663e+12 2.966416e+12 4.596011e+12 1.599378e+12 -3.788696e+12  
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## [62,] -8.990386e+10 8.420783e+11 2.905612e+12 6.718424e+12 -3.494865e+12  
## [63,] -2.458771e+11 -5.693673e+12 -9.426391e+12 -1.069659e+13 2.309409e+12  
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## [70,] -1.380395e+12 1.218388e+12 -9.969719e+11 1.495263e+12 1.497429e+12  
## [71,] -6.242932e+12 2.549266e+12 1.582152e+13 5.617388e+12 3.780500e+11  
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## [158,] -6.005584e+12 -3.452891e+12 1.312699e+12 -1.201697e+13 -5.275255e+12  
## [159,] 4.672830e+12 3.836727e+12 4.496926e+12 5.073327e+12 4.936754e+12  
## [160,] 3.828669e+11 4.868532e+12 2.715317e+11 1.006939e+13 3.260458e+12  
## [161,] -3.543114e+12 2.309538e+11 8.785794e+12 -2.353057e+12 -1.245522e+13  
## [162,] -1.346211e+13 -6.596211e+12 7.229955e+12 -2.779106e+12 -7.192055e+11  
## [163,] 2.591460e+13 1.735061e+12 -3.030419e+13 -1.589496e+13 7.796061e+12  
## [164,] 9.609233e+12 5.254661e+12 5.224828e+11 1.473766e+13 1.472261e+13  
## [165,] -1.275158e+13 -4.183561e+12 8.680321e+12 -3.620710e+12 -1.609574e+13  
## [166,] 1.211935e+12 4.447694e+12 6.054968e+12 1.339036e+13 1.941013e+13  
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## [169,] 4.811026e+12 5.998488e+11 1.364394e+12 3.314350e+12 1.546096e+13  
## [170,] -5.941177e+12 -1.818418e+12 4.444838e+12 -6.618217e+12 -1.065903e+13  
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## [173,] -1.197895e+12 3.350584e+11 2.416371e+12 1.037513e+13 1.138644e+13  
## [174,] 3.931658e+12 7.207954e+12 8.156240e+12 1.262885e+13 1.539944e+13  
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## [176,] -2.812901e+12 -4.533000e+12 -5.500407e+12 -5.117243e+12 9.885811e+11  
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## [184,] -5.725295e+12 9.904993e+11 1.943663e+13 1.259351e+13 4.983695e+12  
## [185,] 4.953179e+12 1.303562e+12 -5.508793e+12 -6.607540e+11 -3.417552e+12  
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## [189,] 2.956619e+12 -8.204299e+12 -1.053921e+13 -2.039165e+13 -1.169587e+13  
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## [191,] -2.077538e+13 -4.599897e+12 1.088679e+13 1.862136e+12 -1.029139e+13  
## [192,] 1.642834e+12 -2.037766e+12 -4.112015e+12 -3.855824e+12 6.694361e+12  
## [193,] -1.102025e+13 -1.997582e+12 -4.065892e+12 -1.337325e+13 -4.967409e+12  
## [194,] -1.619314e+12 -1.635944e+12 -9.106130e+12 -1.903161e+13 -1.150594e+13  
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## [197,] 4.352074e+12 3.339076e+11 -7.112149e+12 -3.622429e+12 4.207413e+12  
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## [5,] -1.470179e+13 -1.057941e+13 1.955194e+13 -3.466897e+13 -3.509717e+13  
## [6,] 6.526574e+12 7.572528e+12 -2.912118e+12 9.831448e+12 7.370889e+11  
## [7,] -2.489579e+13 1.770009e+10 1.988686e+13 -3.239802e+13 -2.570479e+13  
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## [10,] -1.380667e+13 -9.137745e+11 1.317409e+13 -1.874776e+13 -2.481495e+13  
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## [14,] 7.317775e+12 4.737829e+12 -3.711756e+12 1.471620e+13 8.745427e+12  
## [15,] 9.186664e+12 5.375689e+12 -6.717638e+12 9.386056e+12 8.344997e+12  
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## [125,] -6.216939e+12 -6.397404e+12 9.069858e+12 -1.116192e+13 -1.122951e+12  
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## [130,] -1.183337e+13 2.097730e+12 9.959485e+12 -2.037307e+13 -1.679530e+13  
## [131,] 8.048594e+12 -9.381137e+11 -2.437998e+12 2.020509e+12 -4.196846e+12  
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## [134,] 6.995317e+12 -3.223259e+12 4.241844e+11 1.001119e+13 3.110391e+12  
## [135,] -7.600292e+11 -2.816618e+12 -1.962417e+12 -8.305852e+12 1.725414e+12  
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## [147,] -1.965062e+12 2.227063e+11 2.234699e+12 -5.166122e+12 -8.424727e+11  
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## [91,] -2.785975e+12 -5.180496e+12 1.992397e+12 -7.406300e+11 6.090684e+12  
## [92,] 1.472789e+12 -1.343469e+13 7.914421e+12 -5.851603e+11 1.169089e+13  
## [93,] 1.204537e+13 9.233608e+12 -2.078594e+13 -9.004609e+12 -2.842892e+13  
## [94,] -4.991468e+12 -4.251556e+12 1.877795e+13 3.950472e+11 1.487334e+13  
## [95,] -1.973191e+12 1.493829e+12 5.844860e+11 -4.057881e+11 3.212760e+12  
## [96,] -1.009047e+13 -7.711291e+12 1.629901e+13 1.327862e+13 2.936947e+13  
## [97,] -6.165216e+11 4.041844e+11 6.093434e+12 -9.307757e+11 -2.356365e+12  
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## [100,] 1.940207e+11 9.920896e+11 -1.359169e+12 9.201599e+11 -1.204711e+12  
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## [102,] -5.040254e+12 2.521936e+12 -4.709865e+12 3.934291e+12 7.232027e+12  
## [103,] -4.262776e+12 2.431584e+11 8.518479e+12 5.910325e+12 9.381360e+12  
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## [117,] 1.096125e+13 3.349632e+11 -1.384179e+13 -5.764874e+12 -1.942543e+13  
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## [140,] 6.904780e+12 1.422919e+13 -8.903943e+12 -4.174993e+11 -2.001097e+13  
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## [147,] -5.383292e+12 1.300172e+12 4.761784e+12 -2.507537e+11 3.622041e+12  
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## [59,] 2.785395e+12 7.808025e+12 8.707271e+12 -5.952470e+12 1.827863e+12  
## [60,] -7.967542e+12 2.386335e+11 -7.824454e+12 -1.589912e+13 7.453952e+12  
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## [25,] -1.294021e+13 5.556429e+12 3.907775e+12 -4.900219e+12 8.999216e+12  
## [26,] 1.143032e+13 6.095748e+12 7.969111e+11 -3.200433e+12 -8.915216e+12  
## [27,] -1.263627e+13 6.464521e+11 -6.232045e+10 8.032581e+11 6.243506e+12  
## [28,] -2.986685e+12 3.235141e+12 -9.133379e+09 8.353492e+12 -2.121942e+12  
## [29,] -1.636766e+11 -1.356441e+12 2.811722e+12 -2.442898e+12 9.691586e+11  
## [30,] 3.039552e+12 -1.602788e+13 -6.960098e+11 -1.086432e+12 6.717274e+12  
## [31,] -9.641011e+12 2.409550e+12 2.281155e+12 -1.766738e+12 8.319174e+12  
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## [33,] 3.090637e+13 3.287751e+12 -6.818767e+12 -8.565175e+12 -1.661532e+13  
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## [190,] -8.534550e+12 2.144949e+13 -5.435095e+11 1.782744e+12 -2.105335e+12  
## [191,] -7.913524e+12 -8.406233e+12 2.230296e+12 1.216474e+12 8.375256e+12  
## [192,] 1.493459e+12 -8.997444e+11 2.232783e+12 3.709251e+12 -4.409109e+12  
## [193,] 9.704090e+12 -3.093818e+12 2.438523e+12 -6.457366e+11 -5.310375e+12  
## [194,] 1.944035e+13 -1.083211e+13 -4.964692e+11 -5.269222e+12 -8.628293e+12  
## [195,] 1.059207e+13 1.645495e+13 -4.795055e+12 1.030136e+12 -8.811284e+12  
## [196,] -6.526336e+11 -2.451295e+12 -3.293375e+12 4.624001e+12 -1.317781e+12  
## [197,] 4.212538e+12 3.224766e+12 -8.167835e+11 7.376456e+11 -1.029480e+12  
## [198,] 8.784224e+12 -9.689015e+12 -6.339812e+11 7.316150e+10 -7.882053e+12  
## [199,] 1.808819e+13 -1.723406e+13 -1.741073e+12 -6.217563e+12 -3.616341e+12  
## [,401] [,402] [,403] [,404] [,405]  
## [1,] 1.110184e+13 2.468590e+12 -2.730878e+12 -2.408507e+13 2.386836e+12  
## [2,] 3.948091e+12 6.781966e+12 -6.680601e+12 -2.703191e+13 -7.797567e+11  
## [3,] -4.283808e+13 3.606190e+13 6.712207e+12 5.361248e+13 -1.879572e+12  
## [4,] -1.269525e+13 2.147148e+12 8.849027e+12 4.518199e+13 9.760273e+11  
## [5,] 1.199995e+13 -8.518837e+12 -2.047077e+13 -4.849096e+13 9.810777e+12  
## [6,] -1.195794e+13 8.121379e+12 3.834129e+12 2.592082e+13 4.155858e+12  
## [7,] 2.670841e+13 -2.507655e+13 -1.591873e+13 -4.851408e+13 -3.159604e+12  
## [8,] -1.266575e+13 2.664738e+11 7.819972e+10 1.473155e+13 -4.457118e+12  
## [9,] 3.030073e+13 -2.465153e+13 -1.433676e+13 -5.793261e+13 7.098680e+12  
## [10,] -2.925594e+11 2.323607e+12 -1.065962e+13 -1.757906e+13 4.156713e+12  
## [11,] 6.681371e+12 5.600891e+12 3.360638e+12 -1.214143e+12 9.994362e+11  
## [12,] 3.212726e+13 -3.067539e+13 -1.108093e+13 -6.243252e+13 9.019908e+12  
## [13,] 1.355850e+13 -1.457495e+13 2.403568e+12 -7.744942e+12 -2.295216e+12  
## [14,] -3.982487e+12 5.340827e+12 1.424617e+12 1.681151e+13 -1.929449e+12  
## [15,] -8.931729e+12 1.857580e+12 4.307832e+12 2.024022e+13 3.474350e+12  
## [16,] 2.294487e+12 1.043965e+13 -6.192301e+12 -1.589353e+13 -1.189585e+13  
## [17,] 5.693803e+12 -2.341437e+12 -6.212389e+12 -3.122948e+13 4.393849e+11  
## [18,] 7.929878e+12 -7.356555e+12 -8.555798e+12 -2.311673e+13 -1.846407e+12  
## [19,] 7.422156e+12 -9.203533e+11 -2.637131e+12 -1.125735e+13 -2.860116e+12  
## [20,] 1.218046e+13 -6.328668e+12 -1.340459e+12 -7.185042e+12 -4.016688e+12  
## [21,] 9.677003e+12 -1.241770e+13 1.050519e+13 -8.046206e+12 1.111931e+12  
## [22,] -2.166823e+13 1.486812e+13 6.261600e+12 3.432668e+13 -4.844117e+11  
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## [24,] -1.304451e+13 1.426383e+13 4.143336e+12 1.754348e+13 -3.243259e+12  
## [25,] -1.110892e+13 1.277046e+13 2.100884e+12 2.099505e+13 2.310424e+12  
## [26,] 1.447622e+13 -1.029367e+13 -3.639117e+12 -1.673609e+13 7.203781e+11  
## [27,] -1.496998e+13 1.087770e+13 7.083827e+12 2.511776e+13 5.206455e+11  
## [28,] 9.086038e+12 -1.694669e+13 -1.754538e+12 -1.117166e+13 -5.087404e+12  
## [29,] -5.134939e+12 6.233389e+12 -1.810839e+12 1.042181e+12 1.988105e+12  
## [30,] -8.447771e+12 1.933885e+12 -1.657322e+12 3.308125e+12 -5.276875e+12  
## [31,] -1.783283e+13 1.165696e+13 4.426812e+12 3.197764e+13 1.575547e+12  
## [32,] 2.219471e+12 -2.094365e+12 4.152255e+12 2.981824e+12 4.203332e+12  
## [33,] 1.996501e+13 -1.347327e+13 -1.489296e+13 -5.162217e+13 4.309118e+12  
## [34,] 1.902047e+13 -9.678043e+12 -1.357008e+12 -3.073455e+13 -4.520034e+12  
## [35,] 7.472792e+11 2.093595e+12 3.579138e+12 6.588315e+12 -1.732887e+12  
## [36,] -4.310848e+12 3.802397e+12 3.682741e+12 1.881590e+13 2.583902e+12  
## [37,] -1.639211e+13 1.136405e+13 2.406963e+11 1.343454e+13 -2.391120e+12  
## [38,] -7.136610e+12 1.005997e+13 -1.884390e+12 -3.595152e+12 3.065206e+11  
## [39,] 4.076084e+12 6.054213e+12 -3.956262e+12 -3.850308e+13 8.664129e+11  
## [40,] -8.029183e+12 -1.260945e+12 1.332004e+12 5.626626e+12 -2.764486e+12  
## [41,] -6.626704e+12 1.066581e+13 3.880022e+12 1.293717e+13 -2.132349e+11  
## [42,] -1.677723e+13 9.444602e+12 7.657003e+12 2.970143e+13 -4.717428e+10  
## [43,] -7.011884e+12 -2.776361e+12 5.168269e+11 9.089455e+12 2.547206e+12  
## [44,] 2.656383e+12 -1.738990e+12 1.464559e+12 8.819737e+12 2.714259e+12  
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## [46,] 6.547272e+12 3.159390e+12 5.098223e+12 -1.021065e+13 -5.040989e+09  
## [47,] 2.217815e+11 -2.035563e+12 2.577830e+12 -3.200160e+12 -2.592697e+12  
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## [49,] 1.165165e+13 1.210678e+12 -1.055891e+13 -1.699590e+13 -2.896996e+11  
## [50,] -3.825283e+12 3.377680e+12 4.091164e+12 1.556746e+13 -9.116337e+11  
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## [61,] 1.225881e+12 7.021283e+12 1.905990e+12 3.157043e+12 -3.910267e+12  
## [62,] -5.783188e+12 2.328195e+12 4.737325e+11 1.003892e+13 -8.038000e+11  
## [63,] 8.299250e+12 -4.704648e+12 -2.421123e+12 -2.384291e+13 1.078448e+11  
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## [67,] -2.013983e+12 -6.521467e+12 -5.493611e+12 -5.277587e+12 6.669504e+12  
## [68,] -1.569183e+13 9.707396e+12 9.716118e+11 2.625593e+13 -3.954257e+12  
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## [70,] -2.041306e+12 -1.725007e+12 -1.305788e+12 1.022686e+12 1.325936e+11  
## [71,] -8.008351e+12 7.118530e+12 4.664677e+12 2.098721e+13 -6.320983e+12  
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## [74,] 1.426159e+13 -1.550045e+13 -7.849821e+12 -2.105657e+13 -1.662905e+12  
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## [158,] 9.055245e+12 2.231465e+12 -3.475762e+11 -6.862597e+12 -3.446513e+12  
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## [160,] -4.020663e+12 -2.783964e+12 -1.873981e+12 9.145583e+12 2.744155e+12  
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## [165,] -8.461074e+12 5.192251e+12 1.432782e+12 8.824314e+12 -4.985075e+12  
## [166,] -5.101033e+12 -3.597106e+12 6.178264e+12 2.539027e+13 1.237947e+12  
## [167,] -1.758074e+13 7.881046e+12 3.783497e+12 3.934809e+13 -2.000668e+11  
## [168,] -1.415839e+13 6.277381e+12 5.202863e+12 2.011557e+13 1.056134e+12  
## [169,] 4.916377e+12 -8.272511e+12 8.840616e+12 6.353758e+12 -6.411485e+12  
## [170,] -2.903100e+12 -8.798286e+11 -4.888874e+12 -1.571738e+12 -4.730115e+11  
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## [173,] -1.906290e+12 1.522696e+11 1.545297e+12 1.096472e+13 3.205300e+12  
## [174,] -5.671366e+12 -1.561646e+12 8.228205e+12 1.681884e+13 -7.915796e+11  
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## [183,] -7.019047e+12 3.500386e+12 1.834972e+12 1.914120e+13 1.257869e+12  
## [184,] -1.378377e+13 8.642346e+12 6.425554e+12 3.081229e+13 -2.755827e+12  
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## [3,] 4.093683e+13 -1.963812e+13 1.618559e+13 -1.859272e+12 -3.096125e+13  
## [4,] 2.878977e+13 -1.283103e+13 -2.526499e+13 -3.144367e+13 -3.957684e+13  
## [5,] -1.177228e+13 8.804772e+12 1.750037e+13 2.001714e+13 3.860680e+13  
## [6,] 1.587066e+13 -1.004390e+13 7.190003e+11 -8.194781e+12 -1.697544e+13  
## [7,] -2.399570e+13 2.028378e+13 4.077394e+12 1.772432e+13 3.726284e+13  
## [8,] 1.976006e+13 -2.402354e+12 1.671662e+12 -5.513148e+12 -1.424378e+13  
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## [15,] 1.120406e+13 -8.110611e+12 -6.741667e+12 -1.343967e+13 -1.736467e+13  
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## [18,] -1.203570e+13 5.065075e+12 7.004413e+12 1.311502e+13 1.713313e+13  
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## [126,] -1.114354e+13 7.079088e+12 -2.134422e+12 1.455136e+13 1.224062e+13  
## [127,] 2.289966e+13 -1.259716e+13 -6.251850e+12 -1.230710e+13 -3.405637e+13  
## [128,] -3.056660e+12 5.575698e+11 1.482039e+13 2.090405e+13 8.732988e+12  
## [129,] -1.434054e+13 5.332782e+12 -2.521360e+11 1.454148e+13 5.975065e+12  
## [130,] -1.092858e+13 3.888998e+12 2.093871e+13 1.592428e+13 1.865455e+13  
## [131,] 7.524053e+12 -2.948898e+12 -7.459432e+11 -6.328072e+12 -1.536228e+12  
## [132,] 6.123471e+12 9.696269e+11 -1.432916e+13 -2.081532e+13 -1.604139e+13  
## [133,] 9.599967e+11 -2.329728e+12 2.766970e+12 7.790356e+12 2.489833e+12  
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## [136,] -7.562743e+12 1.030334e+12 -1.927298e+13 -1.394119e+13 -1.132777e+13  
## [137,] 7.279409e+12 -4.782496e+12 1.093106e+12 -6.106905e+12 -5.297614e+12  
## [138,] -8.161691e+11 -9.294075e+11 -4.487464e+12 7.959341e+12 -2.712969e+12  
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## [140,] -2.123605e+12 2.731255e+12 -9.758803e+12 -1.283982e+13 -7.965936e+12  
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## [142,] 1.053744e+13 -2.631843e+12 -3.263196e+12 -1.618370e+13 -1.756416e+13  
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## [92,] -6.328021e+11 1.068711e+12 -1.405435e+13 1.248861e+13 6.846633e+12  
## [93,] -1.364367e+13 1.432079e+13 1.226662e+13 2.272506e+13 -4.429737e+11  
## [94,] -1.269535e+12 -1.775210e+12 -4.366487e+11 6.732407e+12 -2.296919e+11  
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## [97,] -3.156680e+12 -1.679413e+12 2.538975e+12 5.352353e+12 8.780513e+11  
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## [99,] -4.409458e+12 -5.187409e+11 1.559516e+13 -6.671080e+12 -4.767819e+12  
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## [102,] 7.315068e+12 -8.276308e+12 -3.924213e+12 -1.478109e+13 -1.389419e+12  
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## [60,] 4.965849e+12 7.841299e+12 7.330909e+12 -1.888598e+12 1.534930e+13  
## [61,] -4.089020e+12 2.173750e+12 -4.255516e+12 4.747517e+11 -1.288609e+12  
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## [63,] -5.915415e+12 -2.418951e+12 -1.883425e+12 -2.190972e+12 -1.660675e+13  
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## [65,] 8.405971e+12 9.645533e+12 -1.042233e+13 4.722600e+11 -2.656904e+13  
## [66,] -2.513427e+12 -3.421895e+12 -1.064564e+12 -1.946137e+12 -3.942395e+12  
## [67,] -2.885374e+12 -9.941651e+12 3.797230e+12 2.467611e+12 3.031854e+12  
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## [69,] 1.653240e+12 3.038519e+12 -4.054736e+12 1.257409e+12 1.431740e+13  
## [70,] -1.161120e+12 4.974264e+11 -9.750397e+11 1.981458e+12 2.404532e+12  
## [71,] 3.634943e+12 4.240396e+12 2.284563e+12 1.552739e+11 1.329685e+13  
## [72,] -3.784749e+12 -8.020211e+12 3.950493e+12 -5.542203e+12 2.054700e+12  
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## [27,] 3.123936e+12 -6.479847e+12 -8.985574e+12 5.022309e+12 8.979560e+12  
## [28,] -6.312542e+12 1.485438e+13 4.728240e+12 -3.254858e+12 -2.783886e+12  
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## [36,] -3.289492e+12 8.368841e+11 -7.588922e+12 -3.590573e+12 1.592305e+13  
## [37,] 3.196759e+12 -1.427555e+13 -8.773221e+12 -7.525477e+11 4.496948e+12  
## [38,] -5.225161e+11 -3.475014e+12 3.416788e+12 3.536618e+12 -8.023610e+12  
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## [192,] 2.907878e+12 8.150862e+12 1.517594e+12 -7.071694e+11 2.378293e+12  
## [193,] -1.258345e+13 3.047185e+12 3.402799e+12 -4.309483e+12 -1.524052e+13  
## [194,] -1.277459e+13 1.325119e+12 1.174562e+13 -6.205040e+12 -2.782072e+13  
## [195,] 1.679772e+12 1.054635e+13 7.905676e+12 2.166425e+12 -6.154704e+11  
## [196,] 3.236609e+12 7.012851e+12 -3.818272e+12 -3.417532e+11 1.640946e+12  
## [197,] 4.427205e+12 5.409104e+12 2.121747e+12 7.458487e+11 -2.432497e+12  
## [198,] -7.557828e+12 7.649740e+12 9.175474e+12 1.221132e+12 -1.928942e+13  
## [199,] -6.717841e+12 -3.666600e+12 8.111200e+12 -7.177101e+12 -2.183604e+13  
## [,426] [,427] [,428] [,429] [,430]  
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## [2,] 1.441244e+12 1.112006e+13 1.579312e+13 -3.735630e+13 4.265821e+13  
## [3,] 3.530937e+13 2.310994e+12 -2.930266e+13 4.808593e+12 -1.439126e+13  
## [4,] 1.038517e+13 -1.189962e+13 -2.629186e+13 3.675294e+13 -5.062606e+13  
## [5,] -1.196076e+13 7.309286e+12 2.232228e+13 -2.968029e+13 3.092667e+13  
## [6,] 1.805389e+13 -3.015392e+12 -1.669828e+13 1.478233e+13 -1.779732e+13  
## [7,] -1.223379e+13 -1.359756e+11 3.362138e+13 -3.727037e+13 4.596280e+13  
## [8,] 9.489497e+12 -1.007092e+13 -7.379256e+12 6.810142e+12 -8.271761e+12  
## [9,] -3.524044e+13 1.129494e+12 3.247262e+13 -9.734560e+12 1.839092e+13  
## [10,] 7.403124e+12 5.606116e+12 9.245451e+12 -2.167450e+13 2.753647e+13  
## [11,] -4.945995e+12 5.584478e+12 -1.785574e+12 -9.507369e+12 6.262985e+12  
## [12,] -3.401839e+13 -1.579894e+09 2.866032e+13 -9.481474e+12 1.520797e+13  
## [13,] 7.757063e+11 -9.164604e+11 6.033232e+12 3.159953e+12 7.472977e+11  
## [14,] 3.842416e+12 -6.452739e+12 -8.048583e+12 1.012235e+13 -1.276314e+13  
## [15,] 1.299346e+13 -7.297975e+12 -1.073133e+13 1.898249e+13 -2.279666e+13  
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## [17,] -1.041465e+13 8.509981e+12 1.347652e+13 -2.021927e+13 1.794914e+13  
## [18,] 3.088027e+12 -1.958412e+12 1.875306e+13 -1.665219e+13 2.826932e+13  
## [19,] -9.409583e+12 1.793579e+12 1.186778e+13 -1.270427e+13 1.837624e+13  
## [20,] -1.167796e+13 -1.245853e+12 7.258162e+12 8.911778e+11 6.998981e+12  
## [21,] -1.411824e+13 3.318425e+11 4.195573e+12 1.079166e+13 -1.264442e+13  
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## [23,] -5.274105e+12 -9.975345e+12 -1.025540e+13 3.637995e+13 -4.092899e+13  
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## [27,] 6.675227e+12 3.826659e+12 -1.416510e+13 5.961754e+12 -1.574464e+13  
## [28,] -6.140442e+12 -1.022251e+13 7.925513e+12 7.980237e+12 1.572444e+11  
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## [30,] 2.282885e+12 -2.024676e+12 -2.264248e+12 -8.159474e+12 -9.805977e+11  
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## [32,] -9.396203e+11 -4.125199e+12 -5.395506e+12 1.973702e+13 -2.057954e+13  
## [33,] -1.722196e+13 1.240720e+13 2.254218e+13 -2.870589e+13 3.437528e+13  
## [34,] -9.926816e+12 7.741733e+12 1.880051e+13 -1.856852e+13 2.619581e+13  
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## [41,] 5.151577e+12 8.471361e+11 -7.154441e+12 2.110795e+11 -1.154949e+12  
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## [43,] 2.351453e+12 -6.289598e+12 -1.031322e+13 1.705237e+13 -2.996623e+13  
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## [164,] 5.872719e+12 -2.412315e+12 -1.643595e+13 2.632158e+13 -2.988730e+13  
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## [126,] 1.203685e+13 -9.786395e+11 4.882697e+12 7.864004e+12 -7.994815e+12  
## [127,] -3.698911e+12 1.641402e+13 -9.956426e+12 -1.096906e+13 2.133813e+13  
## [128,] 8.081700e+12 5.370050e+12 1.544164e+12 3.406416e+12 -8.388846e+12  
## [129,] 1.292313e+13 -1.230385e+12 5.259322e+12 1.101491e+13 5.828521e+12  
## [130,] 5.990255e+12 1.675461e+12 5.301731e+12 7.822999e+12 -1.783400e+13  
## [131,] -1.040090e+13 -1.663325e+12 -5.089391e+12 -6.566593e+12 1.518287e+12  
## [132,] -9.369759e+12 -6.305228e+12 -1.991599e+12 -1.015161e+13 8.402377e+12  
## [133,] 2.853522e+12 1.544647e+12 4.783697e+11 -2.860440e+11 -4.253546e+12  
## [134,] -9.160273e+11 2.290946e+11 -3.521456e+12 -7.364491e+11 7.312679e+12  
## [135,] -5.067962e+12 -1.257263e+13 2.424915e+12 -4.146527e+12 -5.946369e+12  
## [136,] -4.937818e+12 -4.234815e+12 2.897269e+12 -2.399966e+12 7.635701e+12  
## [137,] -8.347628e+11 -1.829181e+12 -2.328622e+12 -9.238806e+12 3.816935e+12  
## [138,] 5.349740e+12 1.962749e+12 7.364054e+11 7.326693e+12 6.421143e+12  
## [139,] 3.794607e+12 -6.072392e+11 4.495563e+12 2.373446e+12 -1.307533e+13  
## [140,] -7.244705e+12 -7.002085e+12 -9.564457e+11 -8.363867e+12 3.295287e+12  
## [141,] -9.525062e+12 9.351335e+12 -1.034874e+13 -1.897537e+13 2.238188e+13  
## [142,] -8.484279e+12 5.030573e+11 -2.874717e+12 -1.148110e+13 9.299088e+12  
## [143,] -2.492850e+12 2.926353e+12 1.184651e+12 -6.417575e+10 -5.236875e+12  
## [144,] -3.815439e+12 6.383104e+12 -9.049827e+12 -8.971578e+12 2.007879e+13  
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## [149,] -1.004181e+13 -9.720660e+12 4.034233e+12 -1.107026e+12 -2.085683e+13  
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## [151,] -2.618102e+12 8.285199e+12 -4.417341e+12 -1.196779e+13 2.149272e+13  
## [152,] -6.158391e+12 3.448848e+12 -4.602414e+12 -5.795587e+12 1.102542e+13  
## [153,] -2.308135e+12 -2.039171e+13 8.092011e+12 1.377166e+13 -2.864496e+13  
## [154,] 1.219131e+12 2.229368e+12 -1.276585e+11 -1.422648e+12 -1.317552e+13  
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## [159,] -5.440269e+12 1.170661e+12 -3.964261e+12 -5.075553e+12 1.246276e+13  
## [160,] -7.343234e+12 4.136397e+12 -3.004600e+12 -3.444047e+12 1.091550e+13  
## [161,] 4.225774e+12 5.627135e+12 -7.516879e+11 -1.825146e+10 -1.966688e+12  
## [162,] 5.085450e+12 3.839858e+12 -1.594085e+12 3.203712e+12 1.935658e+12  
## [163,] -6.911055e+12 -1.803521e+13 8.560980e+12 1.315328e+13 -3.057691e+13  
## [164,] -1.154947e+13 -1.271631e+11 -2.641388e+12 -1.333410e+13 9.241959e+12  
## [165,] 7.189314e+12 8.653934e+12 -4.576480e+11 -2.469608e+12 4.235380e+12  
## [166,] -6.380331e+12 1.196980e+12 -7.715739e+12 -1.065083e+13 2.062863e+13  
## [167,] -1.713153e+12 1.318920e+13 -7.383314e+12 -1.236379e+13 2.335642e+13  
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## [170,] 3.230375e+12 2.588272e+12 -1.642471e+11 1.255473e+12 -6.306381e+12  
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## [174,] -6.825518e+12 3.585786e+12 -3.931369e+12 -6.997338e+12 1.186539e+13  
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## [177,] 3.222727e+12 5.707717e+12 5.866288e+11 1.270949e+12 -1.617891e+11  
## [178,] -3.103281e+12 -1.271151e+13 3.068878e+12 8.455503e+12 -5.813469e+12  
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## [182,] -3.477807e+12 -1.258224e+13 6.749246e+12 7.313442e+12 -3.360814e+13  
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## [188,] -2.212493e+12 -1.327010e+12 -1.493341e+12 -6.401314e+12 9.949215e+12  
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## [3,] 8.319200e+12 -2.775548e+13 1.971272e+13 -3.687829e+13 1.619782e+13  
## [4,] 1.144107e+13 -3.512539e+13 -1.686356e+13 -1.259952e+13 1.899962e+13  
## [5,] -2.574561e+12 3.071429e+13 1.065292e+13 1.553976e+13 -5.906897e+12  
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## [20,] -4.403443e+12 2.263563e+12 -1.083059e+13 9.570691e+12 -2.689528e+12  
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## [92,] 5.283900e+12 -8.652527e+12 7.303808e+12 -1.440208e+13 8.970320e+11  
## [93,] 4.372430e+12 -1.516084e+13 -9.913257e+12 -3.864985e+12 9.228577e+12  
## [94,] -1.534346e+12 2.384193e+12 7.048332e+11 -4.140398e+12 -5.793980e+12  
## [95,] -1.073253e+12 5.215281e+12 1.598067e+12 5.402224e+12 1.768518e+12  
## [96,] -4.527187e+12 1.754474e+13 1.347965e+13 2.618217e+12 -7.150722e+12  
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## [100,] -1.292974e+12 -7.023478e+11 -1.230958e+12 -6.308117e+11 -2.057900e+12  
## [101,] 2.802254e+12 -9.923048e+12 5.835166e+12 -1.041758e+13 2.598580e+10  
## [102,] -3.006949e+12 5.204563e+12 9.992283e+11 3.028810e+12 -8.795244e+10  
## [103,] -2.447347e+12 7.126550e+12 3.530569e+12 6.880177e+12 -4.287687e+12  
## [104,] 3.056870e+11 2.384612e+12 -5.637224e+12 -4.896521e+12 -2.057302e+12  
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## [108,] 3.129523e+12 -6.602820e+12 1.119062e+13 -1.304589e+13 6.461098e+11  
## [109,] -1.737373e+12 3.955645e+12 4.402399e+12 -4.704386e+12 -2.146999e+12  
## [110,] 1.218063e+12 -5.543572e+11 2.491205e+12 7.860143e+11 -2.178408e+12  
## [111,] 8.221452e+12 -1.705490e+13 -3.608618e+12 -8.744759e+12 1.723309e+13  
## [112,] -7.028778e+12 2.468534e+13 1.103946e+13 1.057778e+13 -1.274400e+13  
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## [122,] -6.972036e+12 2.492486e+13 -1.267770e+12 1.439417e+13 -1.403969e+13  
## [123,] -1.637698e+11 -9.227959e+12 1.825469e+12 -4.901624e+12 3.404831e+12  
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## [130,] -2.085659e+11 1.842096e+13 1.136240e+13 2.644318e+12 -6.027968e+12  
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## [59,] -8.984896e+11 -3.683231e+12 -5.524751e+12 -1.801501e+12 -1.720150e+12  
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## [61,] -2.427973e+12 -1.368532e+12 1.101976e+12 -9.094244e+11 -7.109000e+12  
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## [63,] -1.866470e+13 -2.596183e+12 -1.466029e+13 1.243825e+13 -6.547156e+12  
## [64,] 6.776088e+12 2.206714e+12 1.577496e+13 -1.408621e+12 -1.415537e+12  
## [65,] -2.615493e+13 -1.542488e+13 -4.267571e+12 2.626957e+13 -8.883949e+12  
## [66,] -1.438187e+11 4.914457e+11 -1.054581e+12 9.250384e+11 6.845620e+10  
## [67,] 3.955778e+11 6.444775e+12 -5.787333e+12 1.443962e+12 7.997855e+12  
## [68,] 8.965412e+12 6.801708e+12 1.811162e+13 -6.570404e+12 1.639769e+12  
## [69,] 1.165362e+13 7.900881e+12 1.562923e+13 -1.017675e+13 -4.405354e+12  
## [70,] -1.525735e+12 3.751485e+12 2.799448e+12 -4.123109e+11 -4.919159e+11  
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## [115,] 1.072546e+13 1.422223e+12 -4.561322e+12 -1.114361e+13 1.814459e+12  
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## [20,] 6.939168e+11 1.729092e+12 6.770616e+11 -6.209050e+12 -1.354316e+13  
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## [27,] 1.901178e+12 -1.101931e+12 -7.490857e+12 4.337657e+12 -3.171240e+11  
## [28,] -9.102308e+12 7.590035e+12 -2.401987e+12 -4.985891e+12 -1.024318e+13  
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## [34,] 9.562069e+12 3.152691e+12 9.821778e+12 -6.705461e+12 3.566758e+12  
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## [36,] -4.333658e+12 -1.042487e+12 -5.786219e+12 1.713175e+12 -6.258516e+12  
## [37,] -3.217151e+12 -4.308771e+12 1.433201e+12 5.823181e+11 6.934803e+12  
## [38,] 1.618985e+12 8.486349e+11 1.171837e+12 -5.170504e+10 2.994081e+12  
## [39,] 2.511754e+13 -8.116204e+12 2.687857e+13 7.311431e+12 4.013841e+13  
## [40,] -2.382120e+12 7.832916e+11 -3.997354e+12 2.190686e+12 5.396251e+11  
## [41,] -2.301449e+12 -2.026929e+11 -3.932661e+10 -1.253568e+12 3.212703e+12  
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## [191,] -4.788984e+12 -6.828857e+12 -3.988539e+11 -8.726226e+11 1.236909e+13  
## [192,] 7.556119e+12 -4.397346e+12 3.361644e+12 6.515932e+11 -1.052659e+13  
## [193,] -5.223873e+11 -4.252527e+12 1.127797e+13 -7.709758e+12 7.496950e+12  
## [194,] 3.563841e+11 -1.958747e+12 1.239872e+13 -5.293896e+12 2.284614e+13  
## [195,] 1.919945e+12 6.570123e+11 2.324043e+12 -1.052830e+11 -5.336458e+12  
## [196,] -1.900811e+12 4.763368e+12 -3.917203e+12 -3.550344e+12 -3.748465e+12  
## [197,] -5.760250e+10 -2.295048e+11 2.303699e+12 -2.018730e+12 -3.248940e+12  
## [198,] 3.747856e+11 2.274167e+12 -8.188176e+11 -4.882779e+12 3.376147e+12  
## [199,] 7.332582e+12 -2.723097e+12 1.153782e+13 1.451929e+10 2.253117e+13  
## [,451] [,452] [,453] [,454] [,455]  
## [1,] 1.330246e+13 7.330313e+12 7.726422e+12 2.442502e+13 -3.155664e+13  
## [2,] 1.661956e+13 8.888936e+12 1.248676e+13 5.121833e+13 -5.330335e+13  
## [3,] -3.606684e+13 -6.101500e+11 -1.964617e+13 -1.080282e+13 3.685827e+12  
## [4,] -2.402854e+13 -8.327749e+12 -2.345945e+13 -5.227495e+13 5.393577e+13  
## [5,] 1.601607e+13 5.170308e+12 1.079307e+13 5.713972e+13 -5.178823e+13  
## [6,] -1.192499e+13 -2.141303e+11 -5.669052e+12 -1.698208e+13 1.610271e+13  
## [7,] 3.061871e+13 7.531846e+12 1.065907e+13 5.572429e+13 -5.617160e+13  
## [8,] -8.276967e+12 -4.998471e+12 -7.135490e+12 3.774650e+12 2.672444e+12  
## [9,] 3.260158e+13 -2.433040e+12 2.547957e+13 2.376447e+13 -2.205067e+13  
## [10,] 7.351993e+12 3.387053e+12 2.139145e+12 3.431529e+13 -3.438981e+13  
## [11,] 4.579634e+12 3.289466e+12 2.662590e+12 -4.158542e+12 -1.012196e+12  
## [12,] 3.200204e+13 4.442171e+12 3.183313e+13 2.269810e+13 -1.696971e+13  
## [13,] 1.090997e+13 9.413482e+10 4.192274e+12 -2.290820e+12 5.274997e+12  
## [14,] -5.923937e+12 -6.677257e+12 -7.942277e+12 -1.620708e+13 1.790551e+13  
## [15,] -1.480821e+13 -3.898578e+12 -4.797866e+12 -1.742410e+13 2.071696e+13  
## [16,] 1.466535e+13 6.035644e+12 5.863301e+12 2.897364e+13 -3.921560e+13  
## [17,] 1.518543e+13 4.757352e+12 6.812801e+12 2.669983e+13 -2.831774e+13  
## [18,] 1.187331e+13 -1.656393e+11 7.546772e+12 2.729801e+13 -3.243504e+13  
## [19,] 1.265199e+13 5.288284e+11 4.210620e+12 1.131203e+13 -1.258296e+13  
## [20,] 9.454613e+12 -2.162946e+12 5.963333e+12 -7.842202e+12 4.746719e+12  
## [21,] 1.810128e+12 -2.088789e+12 1.115868e+13 -1.562195e+13 1.855584e+13  
## [22,] -2.401121e+13 -4.090690e+12 -1.211797e+13 -2.423806e+13 2.201489e+13  
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## [24,] -7.803610e+12 1.839169e+12 -3.134531e+12 3.154829e+12 -6.406890e+12  
## [25,] -7.366805e+12 -3.170400e+12 -4.234117e+12 -2.035493e+13 1.746281e+13  
## [26,] 1.414981e+13 2.863084e+12 1.054968e+13 1.062520e+13 -1.094476e+13  
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## [29,] 2.450567e+12 -1.022936e+12 -8.961045e+11 1.684711e+12 -3.819195e+12  
## [30,] 3.311475e+11 2.832551e+12 -3.753031e+12 8.833916e+12 -9.564359e+12  
## [31,] -2.285433e+13 -1.669455e+12 -1.631974e+13 -1.381270e+13 1.880141e+13  
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## [33,] 2.352129e+13 6.874884e+12 1.931045e+13 4.949088e+13 -4.580396e+13  
## [34,] 1.423787e+13 4.040351e+12 7.212798e+12 1.625108e+13 -1.947696e+13  
## [35,] -5.223072e+12 -1.396722e+12 -1.366466e+12 -8.231888e+12 5.000349e+12  
## [36,] -7.960807e+12 -3.582393e+12 -7.413141e+12 -2.016891e+13 1.708363e+13  
## [37,] -7.588442e+12 -5.124300e+11 -2.327367e+12 -6.513637e+12 7.292980e+12  
## [38,] 2.556947e+11 4.366313e+12 5.008282e+11 2.756205e+12 -7.348066e+12  
## [39,] 1.005318e+13 1.287412e+13 1.614135e+13 4.437201e+13 -5.477475e+13  
## [40,] -4.474959e+12 -1.439451e+12 3.824185e+12 1.911400e+12 -1.114369e+11  
## [41,] -6.066330e+12 -7.405500e+11 2.782516e+12 -7.999713e+12 8.074960e+12  
## [42,] -2.372154e+13 -3.707420e+12 -9.183001e+12 -2.426872e+13 2.784299e+13  
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## [44,] -4.424621e+12 -3.206638e+12 8.704031e+11 -1.199013e+13 1.667747e+13  
## [45,] -7.387000e+12 -3.439083e+12 -2.954755e+12 -1.205843e+13 1.017517e+13  
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## [47,] 2.080685e+12 4.235471e+12 -9.257703e+11 7.673640e+11 -3.179842e+12  
## [48,] 7.482879e+12 2.000817e+12 4.717959e+12 1.089240e+13 -5.575880e+12  
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## [51,] -1.283316e+12 2.578056e+12 1.276096e+12 -6.294344e+12 2.563473e+12  
## [52,] -2.183762e+13 -8.493945e+12 -1.412581e+13 -4.854567e+13 4.142898e+13  
## [53,] -1.831831e+13 -7.917125e+12 -1.314345e+13 -2.176642e+13 2.549284e+13  
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## [56,] -1.339709e+13 -6.608994e+12 -5.267625e+12 -2.908811e+13 3.170228e+13  
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## [62,] -2.231593e+12 -9.822657e+11 -1.017630e+13 -2.436572e+12 4.613986e+12  
## [63,] 1.149550e+13 4.256437e+11 1.121821e+13 1.814691e+13 -2.320720e+13  
## [64,] -7.370017e+12 -1.024998e+12 -5.716062e+12 -8.270235e+12 5.030330e+12  
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## [67,] -4.198181e+11 -3.875321e+12 3.522252e+12 -1.859823e+12 3.569685e+12  
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## [114,] 5.276716e+12 3.983223e+12 1.130793e+13 1.432823e+13 -7.512479e+12  
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## [153,] 2.785356e+13 9.544957e+12 1.696664e+13 2.674541e+13 -2.738462e+13  
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## [158,] 6.389830e+12 3.213607e+12 -1.316387e+12 6.651475e+12 -1.555550e+13  
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## [164,] -1.062987e+13 -2.992909e+12 -3.175622e+12 -2.398137e+13 2.886087e+13  
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## [166,] -1.793158e+13 -1.068465e+13 -7.984436e+12 -2.893174e+13 3.649387e+13  
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## [170,] 5.167766e+11 4.555448e+12 -1.208067e+12 1.478855e+13 -1.584733e+13  
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## [3,] -1.615200e+12 7.111942e+13 -4.674701e+12 -6.220309e+12 -2.673983e+13  
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## [12,] 6.292271e+12 -6.730313e+13 6.897791e+12 1.370960e+13 1.892350e+13  
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## [14,] -6.126511e+12 1.789994e+13 -1.337259e+12 -7.820967e+12 3.169299e+12  
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## [18,] 1.414154e+13 -1.425094e+13 3.140171e+12 5.574603e+12 -6.673818e+12  
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## [126,] 1.144248e+13 -9.744343e+12 1.177610e+11 2.776698e+12 -3.371609e+12  
## [127,] -1.764441e+13 4.416499e+13 -8.687747e+12 -4.482942e+12 -5.423453e+12  
## [128,] 1.450915e+13 3.947354e+12 -4.865861e+11 2.893195e+12 -1.791966e+13  
## [129,] 9.941010e+12 -8.198851e+12 -3.021853e+12 8.742967e+11 -3.723857e+12  
## [130,] 1.316548e+13 -1.368020e+13 5.008839e+12 2.978851e+12 -1.093141e+13  
## [131,] -6.527800e+12 4.136799e+12 -2.052901e+12 -4.172944e+12 6.629018e+12  
## [132,] -1.150463e+13 2.764419e+12 2.555983e+12 -2.916767e+12 1.533083e+13  
## [133,] -1.626753e+11 2.522365e+12 -6.352269e+11 -5.449033e+11 -4.565855e+12  
## [134,] -5.101712e+12 7.927655e+12 -3.263940e+12 -1.436916e+12 5.641458e+12  
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## [136,] -1.385164e+13 -1.261504e+13 -3.359759e+12 -5.544618e+12 1.591880e+13  
## [137,] -6.419997e+12 7.959542e+12 -5.688139e+11 3.403874e+11 2.562793e+12  
## [138,] 1.057531e+13 1.607515e+12 -5.817800e+12 -4.643185e+12 -4.852421e+12  
## [139,] 6.248036e+12 -4.856971e+12 1.570622e+12 8.286620e+11 -9.394632e+12  
## [140,] -7.138266e+12 -7.768770e+12 4.670463e+12 4.137776e+12 1.214858e+13  
## [141,] -1.858196e+13 4.348091e+13 -6.024472e+12 -1.157200e+13 9.982588e+11  
## [142,] -9.833673e+12 1.565733e+13 -1.635330e+12 1.165836e+12 4.525830e+12  
## [143,] 6.769161e+12 3.640826e+12 3.814655e+12 1.506127e+12 -1.118918e+13  
## [144,] -1.448449e+13 2.564133e+13 -2.962922e+12 -4.882555e+12 2.939259e+12  
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## [147,] -5.580138e+11 -9.214254e+12 -1.225951e+12 3.999619e+12 -1.082506e+11  
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## [151,] -1.239421e+13 2.576573e+13 -4.862317e+12 -5.647245e+12 6.431415e+12  
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## [153,] 9.229491e+12 -5.951494e+13 2.140186e+12 1.038658e+13 1.258344e+13  
## [154,] 7.753645e+12 4.459140e+12 1.150050e+12 6.808283e+11 -9.063362e+12  
## [155,] -8.005568e+12 2.122978e+13 -2.647867e+12 5.424678e+11 -1.741011e+12  
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## [157,] -9.032180e+11 5.400929e+12 -1.921854e+12 1.262363e+12 1.036411e+11  
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## [159,] -5.454980e+12 1.077926e+13 1.245792e+11 -1.203889e+12 2.802858e+12  
## [160,] -3.299233e+12 1.011896e+13 2.730564e+12 2.570970e+11 -9.759149e+11  
## [161,] 8.862688e+11 1.320282e+13 -2.719985e+12 -1.107083e+12 -5.787334e+12  
## [162,] -8.536332e+11 1.331185e+13 -2.836647e+12 -3.828323e+11 -4.742687e+12  
## [163,] 6.063619e+12 -5.749391e+13 8.312662e+12 1.025712e+13 1.028171e+13  
## [164,] -1.140500e+13 4.094595e+12 1.322935e+12 -2.221779e+11 1.190912e+13  
## [165,] 1.388137e+12 1.893425e+13 -6.004893e+12 6.526554e+11 -1.110823e+13  
## [166,] -1.640087e+13 2.275312e+13 -3.801685e+12 -2.907393e+12 1.475286e+13  
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## [170,] 8.117859e+12 6.828490e+12 1.736956e+11 1.502891e+12 -1.185587e+13  
## [171,] 4.738704e+12 -6.069805e+12 -6.137529e+12 1.382256e+12 -3.573531e+12  
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## [174,] -9.402184e+12 1.081623e+13 -6.238582e+11 -4.279048e+12 5.641646e+12  
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## [177,] 3.805005e+12 6.475518e+12 -5.191603e+11 -1.635077e+12 -9.101080e+12  
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## [181,] 5.847777e+12 1.720438e+13 5.881930e+10 -5.949299e+12 -1.124517e+13  
## [182,] 1.029815e+13 -4.268821e+13 9.278522e+12 7.505727e+12 2.366190e+12  
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## [33,] 8.282023e+12 4.314568e+13 2.591279e+13 -4.156437e+12 2.821207e+13  
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## [79,] -1.410532e+13 -1.572612e+13 -2.286077e+11 1.239078e+13 -1.097320e+13  
## [80,] -5.826731e+12 -1.834727e+13 -8.865660e+12 9.256481e+12 -1.677497e+13  
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## [83,] 5.915226e+11 7.531400e+12 9.255015e+12 2.166708e+11 4.338831e+12  
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## [86,] 8.306088e+11 -1.655215e+13 -6.122381e+12 7.502063e+11 -8.192442e+12  
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## [92,] 2.635112e+12 -1.932187e+13 -1.378111e+13 -4.968554e+12 -1.090744e+13  
## [93,] -9.284998e+12 -8.767775e+12 -8.591310e+12 1.601629e+13 -1.430236e+13  
## [94,] 7.197148e+12 2.739136e+12 -7.695687e+12 -6.823514e+12 6.725110e+12  
## [95,] -3.284205e+12 6.362742e+12 6.505291e+12 -1.309068e+12 5.111164e+12  
## [96,] 1.193520e+13 5.589856e+12 6.777200e+12 -1.483637e+13 1.246423e+13  
## [97,] -3.608541e+12 -1.265392e+12 -2.275603e+12 -1.550438e+12 -3.767827e+12  
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## [99,] -5.132728e+12 1.195257e+13 9.132608e+12 5.353381e+12 3.778876e+12  
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## [103,] -1.166486e+12 1.223715e+13 1.504635e+13 -2.570665e+12 1.074959e+13  
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## [116,] -1.836975e+12 -1.551123e+13 -1.369234e+13 4.921037e+12 -1.248867e+13  
## [117,] -1.104423e+13 -1.102728e+13 -2.683797e+12 8.838076e+12 -1.345470e+13  
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## [140,] -6.139751e+12 5.140979e+12 5.269514e+12 1.271604e+13 -3.599857e+12  
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## [67,] 9.860221e+12 6.132495e+12 3.532162e+12 -4.673147e+12 4.276173e+11  
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## [70,] 2.183388e+12 1.733478e+12 1.228517e+12 -1.470907e+12 -3.482523e+12  
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## [141,] 3.581916e+13 -2.930577e+13 5.354789e+12 -1.084607e+13 -8.806555e+12  
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## [26,] 9.938355e+12 1.565303e+13 1.001717e+13 -6.388946e+12 4.784972e+12  
## [27,] -4.229305e+11 -1.474098e+13 -1.463220e+13 7.277460e+12 -5.262059e+11  
## [28,] -2.872184e+12 -2.187299e+12 5.140351e+12 -4.686606e+11 -1.020531e+13  
## [29,] -1.348447e+12 2.070090e+12 -6.426379e+10 -2.504186e+12 -2.628685e+12  
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## [31,] -2.019244e+12 -1.998901e+13 -1.343460e+13 8.699290e+12 -2.475996e+12  
## [32,] 5.136167e+12 -1.070158e+13 -8.686738e+12 -2.491905e+12 -4.389442e+12  
## [33,] -1.580211e+11 5.417935e+13 3.023582e+13 -2.557392e+13 1.781015e+13  
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## [35,] 7.413880e+12 -7.460815e+12 -1.067953e+13 2.565884e+12 1.204500e+12  
## [36,] -2.663092e+12 -2.124564e+13 -9.774631e+12 7.248686e+12 -7.409848e+12  
## [37,] -5.630358e+12 -1.174218e+13 -1.064670e+13 9.703386e+12 7.621070e+11  
## [38,] -2.463869e+12 4.376049e+12 -6.322215e+11 -6.005808e+11 4.756001e+12  
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## [40,] -3.293628e+12 5.728180e+12 -3.077872e+12 -2.215530e+12 8.180465e+12  
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## [42,] -3.877899e+11 -2.451314e+13 -2.257559e+13 6.790988e+12 -2.901730e+12  
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## [191,] -3.243411e+12 -1.216836e+13 -2.932823e+12 1.254786e+13 -6.472659e+12  
## [192,] 5.980321e+12 -1.495503e+12 -2.636050e+11 -1.663506e+11 -3.641615e+12  
## [193,] -4.125347e+12 1.396623e+13 1.446686e+13 3.088562e+12 -9.734678e+10  
## [194,] -5.000828e+12 3.273631e+13 2.688561e+13 -8.689216e+12 1.075200e+13  
## [195,] 7.802877e+12 1.947192e+13 1.145291e+13 -1.152986e+13 3.793595e+12  
## [196,] 2.628105e+12 4.989167e+12 3.207872e+12 -3.097575e+11 -6.792980e+10  
## [197,] 2.799023e+12 5.730205e+12 3.027201e+12 -5.822221e+12 -2.060573e+12  
## [198,] 4.537190e+11 2.151839e+13 1.527140e+13 -1.027726e+13 -6.589709e+10  
## [199,] -2.431557e+12 2.079207e+13 1.347613e+13 -3.622471e+12 1.045901e+13  
## [,476] [,477] [,478] [,479] [,480]  
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## [2,] -8.816460e+11 -9.625023e+12 -4.207703e+13 -1.520644e+13 -1.718273e+13  
## [3,] 3.818227e+12 -2.568390e+13 1.084520e+12 -4.503495e+13 -1.069978e+13  
## [4,] 3.685512e+12 -1.783726e+12 3.608335e+13 2.947023e+12 1.509745e+13  
## [5,] 6.914853e+12 6.019369e+12 -2.515328e+13 4.108906e+12 -1.976059e+13  
## [6,] -1.025789e+12 -9.943496e+12 4.132972e+12 -1.254838e+13 4.534763e+12  
## [7,] 2.909882e+12 -6.791283e+12 -2.618451e+13 -2.297330e+12 -1.669216e+13  
## [8,] 5.833180e+11 -1.187371e+13 1.056205e+13 -9.593822e+12 -4.984322e+12  
## [9,] 2.647863e+12 2.543023e+13 6.920791e+12 3.488628e+13 2.916354e+12  
## [10,] 8.058320e+12 -1.110037e+13 -2.176876e+13 -1.221360e+13 -1.947048e+13  
## [11,] 1.717590e+11 3.452311e+12 -7.692903e+12 5.147589e+12 9.882479e+12  
## [12,] -3.208754e+12 2.453647e+13 5.078123e+12 3.560398e+13 1.140555e+13  
## [13,] -1.072137e+12 2.766928e+12 -1.779455e+12 8.428046e+12 2.974735e+12  
## [14,] -5.166331e+12 -2.302759e+12 1.008797e+13 -4.050068e+12 4.178430e+12  
## [15,] -2.282058e+11 -9.235079e+12 1.249485e+13 -8.127734e+12 5.025824e+12  
## [16,] 5.781184e+12 -1.563704e+13 -2.908180e+13 -1.910546e+13 -1.360569e+13  
## [17,] 2.516419e+12 6.209340e+12 -1.412319e+13 5.977238e+12 -5.674026e+12  
## [18,] 2.710611e+12 -6.241935e+12 -1.862298e+13 -9.202493e+12 -1.519689e+13  
## [19,] 2.056821e+11 -2.939426e+12 -9.414020e+12 -3.696759e+12 -4.290979e+12  
## [20,] 7.079179e+10 7.277502e+12 7.673123e+12 1.488260e+13 3.984100e+12  
## [21,] -7.135383e+12 2.147372e+13 1.181805e+13 2.777189e+13 1.742960e+13  
## [22,] 3.334242e+12 -7.445930e+12 1.184738e+13 -9.127656e+12 3.597597e+12  
## [23,] -1.926918e+12 7.330617e+12 3.439252e+13 1.647781e+13 1.793964e+13  
## [24,] -8.738076e+11 -1.188036e+13 -9.481023e+12 -2.127581e+13 -6.314817e+12  
## [25,] -2.629344e+12 -1.212947e+12 1.199395e+13 -5.646507e+12 6.635803e+12  
## [26,] 1.904651e+12 5.554011e+12 -4.676131e+12 5.238116e+12 2.167985e+12  
## [27,] -1.372141e+12 -3.460128e+12 3.882478e+12 -8.207250e+12 2.420984e+12  
## [28,] 1.504412e+12 1.436423e+12 4.712785e+12 1.350583e+13 -3.132435e+12  
## [29,] 1.132175e+12 -4.067822e+12 -4.605459e+12 -3.348166e+12 -2.973890e+12  
## [30,] 2.031723e+11 -6.956689e+12 -1.381653e+12 -1.155602e+13 -7.504919e+12  
## [31,] -2.064176e+11 -4.647767e+12 5.924167e+12 -9.899023e+12 -2.752567e+12  
## [32,] -5.326221e+12 7.834337e+12 1.248105e+13 1.442124e+13 1.000018e+13  
## [33,] 5.178213e+12 1.200196e+13 -1.634011e+13 1.121978e+13 -1.254898e+13  
## [34,] 1.443028e+12 3.606038e+12 -1.488577e+13 1.089491e+13 1.164249e+11  
## [35,] 9.812669e+10 5.517750e+12 5.733600e+12 4.589155e+12 5.972731e+12  
## [36,] 2.223755e+12 -5.335519e+12 1.227852e+13 -2.805485e+12 4.244892e+12  
## [37,] -5.235469e+12 -3.323741e+12 8.499840e+12 -6.802505e+12 -2.091530e+12  
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## [39,] 4.522180e+12 2.496215e+12 -4.141307e+13 -4.376407e+12 -5.763141e+12  
## [40,] -5.565749e+12 4.879713e+12 2.535292e+12 3.421327e+11 1.209119e+12  
## [41,] -4.757880e+12 -5.040826e+12 -2.614378e+12 -6.516469e+12 5.751282e+12  
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## [44,] -4.017195e+12 9.517513e+11 1.254373e+13 3.775986e+12 6.331999e+12  
## [45,] -1.768958e+12 -8.399025e+12 4.441729e+11 -1.073900e+13 -2.458206e+12  
## [46,] 2.178439e+12 1.122533e+13 -6.393492e+12 9.113793e+12 4.898864e+12  
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## [48,] 2.762257e+12 1.314922e+12 5.612679e+12 1.122095e+12 -1.531515e+12  
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## [52,] -4.279275e+12 -3.598790e+12 2.166169e+13 -4.209075e+12 8.314548e+12  
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## [59,] -3.585058e+11 5.528979e+12 3.089304e+12 9.112637e+12 6.486419e+12  
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## [63,] 1.051505e+12 3.447288e+12 -4.319735e+12 7.480529e+12 -3.099132e+12  
## [64,] -3.379554e+12 -1.065260e+13 -5.675021e+12 -1.749683e+13 -2.138091e+12  
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## [74,] -5.618068e+12 -3.339929e+12 -7.152466e+12 4.230854e+12 -2.008726e+12  
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## [158,] 2.853277e+12 -6.297844e+12 -1.547415e+13 -4.592048e+12 -1.542761e+12  
## [159,] 6.986662e+11 -4.393875e+12 5.411582e+12 -6.558269e+12 -1.201485e+11  
## [160,] 8.007936e+11 3.425650e+11 7.262467e+12 -7.382105e+11 -1.679050e+09  
## [161,] 2.068120e+12 -7.799904e+12 -1.167765e+13 -8.938959e+12 -3.341289e+12  
## [162,] -2.787579e+11 -1.404713e+12 -2.112523e+12 -3.664178e+12 -1.741300e+12  
## [163,] 2.820901e+12 2.011508e+13 -1.163302e+13 2.316360e+13 -1.529285e+12  
## [164,] 3.029721e+12 2.846845e+12 2.074916e+13 9.704619e+12 1.146808e+13  
## [165,] -5.299630e+11 -3.712081e+12 -9.066259e+12 -1.368925e+13 -3.849576e+12  
## [166,] -6.239880e+12 5.476980e+12 2.824861e+13 1.027541e+13 7.824021e+12  
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## [168,] -3.853182e+12 5.144172e+12 1.950441e+13 3.351183e+12 5.334244e+12  
## [169,] -3.118842e+12 1.075084e+12 6.586590e+12 6.010383e+12 1.104615e+13  
## [170,] 2.981514e+12 -9.308880e+12 -8.899026e+12 -1.227474e+13 -7.947205e+12  
## [171,] 1.642619e+12 -4.159071e+12 -1.646332e+13 -7.144079e+12 -3.479417e+12  
## [172,] -1.955590e+12 -1.104614e+13 1.203877e+13 -1.957968e+13 8.317234e+11  
## [173,] 3.803025e+11 5.786622e+12 2.016520e+13 8.282587e+12 8.568081e+12  
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## [175,] 1.004191e+11 -3.250351e+12 -1.878064e+12 -2.661373e+12 -3.343187e+11  
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## [183,] -3.762441e+12 2.837063e+12 2.275143e+13 7.389929e+12 5.887806e+12  
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## [191,] 1.252743e+12 -1.099370e+13 2.606612e+11 -1.283300e+13 -6.187135e+12  
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## [3,] 5.795858e+12 -5.308918e+13 -3.719674e+13 -8.070023e+12 -5.430739e+12  
## [4,] -5.359461e+12 -7.796261e+12 -1.258639e+12 3.211192e+13 -6.270066e+13  
## [5,] -3.593228e+12 3.237604e+12 1.850189e+13 -3.513879e+13 5.428748e+13  
## [6,] 5.404706e+12 -1.387481e+13 -1.020534e+13 1.408272e+13 -2.302323e+13  
## [7,] 1.056491e+13 3.605781e+12 1.036879e+13 -4.676563e+13 7.475503e+13  
## [8,] 4.322434e+12 -2.094134e+13 -1.657718e+13 -3.776368e+12 -6.974794e+11  
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## [10,] 6.995847e+12 -8.684253e+12 -6.936781e+11 -3.171456e+13 3.999374e+13  
## [11,] -5.779814e+11 1.193439e+13 2.495073e+12 1.556181e+12 8.322250e+11  
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## [13,] -1.116600e+12 1.541459e+13 1.545294e+13 6.119274e+11 1.575924e+12  
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## [129,] 1.251442e+13 4.345063e+12 -2.861987e+12 -1.043606e+13 2.784730e+13  
## [130,] 2.156199e+12 -5.337428e+12 1.546697e+12 -2.437316e+13 3.851408e+13  
## [131,] -2.930164e+12 2.043880e+12 6.856106e+12 8.652687e+12 -1.892010e+13  
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## [134,] 8.232394e+11 1.955050e+12 1.982611e+12 1.163884e+13 -1.397142e+13  
## [135,] -5.523535e+12 1.320879e+13 7.550426e+12 -3.125740e+12 -4.143663e+12  
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## [137,] -2.685561e+12 -4.049251e+12 1.786076e+12 5.999875e+12 -1.431726e+13  
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## [91,] 7.923005e+11 8.112743e+11 2.257134e+12 4.163950e+12 9.066027e+12  
## [92,] -1.922919e+12 2.258211e+11 6.818095e+12 1.346246e+13 1.278737e+13  
## [93,] 3.081706e+12 -1.230099e+13 -1.557996e+13 -1.062501e+13 1.522266e+13  
## [94,] -7.352439e+12 7.581397e+12 4.735869e+12 7.304103e+12 2.913914e+11  
## [95,] 3.125317e+12 6.275759e+12 7.237012e+12 1.175245e+12 -4.062995e+12  
## [96,] -1.013489e+12 1.265547e+13 1.646758e+13 1.168213e+13 -3.417763e+12  
## [97,] 3.374297e+12 -2.006026e+12 -2.464286e+12 2.425731e+12 1.026849e+12  
## [98,] -5.237301e+11 -8.252197e+12 -1.427008e+13 -7.873896e+12 -5.721415e+11  
## [99,] -3.937112e+11 -2.297323e+12 -3.998057e+12 -9.557808e+12 -9.184963e+12  
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## [101,] -9.120571e+10 6.154097e+11 -3.843502e+12 1.160106e+13 1.231108e+13  
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## [103,] -1.801252e+12 5.309823e+12 6.762584e+12 2.941146e+12 -1.252498e+13  
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## [109,] -1.414667e+12 -1.840637e+12 3.308712e+12 2.382397e+12 7.580099e+12  
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## [59,] -7.682051e+12 2.781784e+12 2.151941e+12 6.174978e+11 5.028866e+12  
## [60,] -2.101962e+12 -2.414591e+12 -1.328325e+13 6.593681e+12 -2.654001e+13  
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## [65,] 4.316459e+12 -6.914234e+12 1.545900e+13 -1.991185e+13 3.328204e+13  
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## [75,] -4.774619e+12 -3.114067e+12 5.391257e+12 -4.739558e+12 2.695102e+13  
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## [24,] 6.427399e+12 -6.381296e+12 2.860656e+12 1.990123e+12 -3.171344e+12  
## [25,] 3.139126e+12 4.600770e+11 1.266419e+12 -5.078265e+12 7.274387e+12  
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## [30,] 1.888526e+12 6.039295e+11 1.801700e+12 2.921831e+12 1.419715e+12  
## [31,] 8.413712e+12 -5.618050e+12 -7.099956e+11 -1.307934e+13 7.715487e+12  
## [32,] -3.891591e+12 6.946807e+12 7.688641e+11 -8.455325e+12 8.242716e+12  
## [33,] -9.791365e+12 5.422975e+12 6.754564e+12 1.512996e+13 -2.158823e+13  
## [34,] -6.485801e+12 3.117813e+12 4.760367e+12 1.657343e+13 -1.519836e+13  
## [35,] -3.849224e+11 4.863702e+12 2.009665e+12 -5.332438e+12 1.846878e+12  
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## [37,] 4.460416e+12 -2.635529e+12 1.832273e+11 -8.082869e+12 9.901877e+12  
## [38,] -5.989199e+12 6.093106e+12 1.293086e+13 4.058131e+12 -3.065422e+12  
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## [41,] 3.696030e+12 -3.262614e+11 7.748946e+11 -2.869755e+11 3.931831e+12  
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## [188,] 6.229836e+11 5.725025e+11 -6.818382e+12 -5.680148e+12 6.172411e+12  
## [189,] -9.336243e+12 6.078382e+12 1.662391e+13 1.948068e+13 -2.177389e+13  
## [190,] 2.412706e+12 7.264760e+12 3.193718e+11 -8.827212e+12 5.048418e+12  
## [191,] 8.065457e+12 -9.031639e+12 -8.003299e+12 -9.698312e+12 2.604605e+12  
## [192,] -5.552004e+12 -2.353433e+12 -2.350451e+12 -2.654112e+12 3.231838e+11  
## [193,] -1.366033e+12 -1.265170e+12 -1.289877e+12 1.733318e+12 -1.106197e+13  
## [194,] -4.150800e+12 1.522559e+12 7.198381e+12 1.494327e+13 -1.819344e+13  
## [195,] -6.328465e+12 7.347414e+12 2.741491e+12 7.336726e+12 -9.644018e+12  
## [196,] 5.830610e+12 -1.188947e+11 -1.547644e+12 4.994287e+12 1.290823e+12  
## [197,] -6.036278e+12 -1.203477e+12 -2.578044e+12 1.221038e+12 -1.845981e+12  
## [198,] -4.458307e+12 1.172437e+12 -8.210836e+11 1.227690e+13 -9.639866e+12  
## [199,] 3.010713e+11 -4.241065e+12 4.421401e+12 1.289018e+13 -1.102567e+13  
## [ reached getOption("max.print") -- omitted 301 rows ]

end <- Sys.time()  
elapse <- end - start  
print(elapse)

## Time difference of 1.099146 secs