participation.R

xiaosiqi

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mySweep <- function(A, m)  
{  
 n <- dim(A)[1]  
 for (k in 1:m)  
 {  
 for (i in 1:n)  
 for (j in 1:n)  
 if (i!=k & j!=k)  
 A[i,j] <- A[i,j] - A[i,k]\*A[k,j]/A[k,k]  
 for (i in 1:n)  
 if (i!=k)  
 A[i,k] <- A[i,k]/A[k,k]  
 for (j in 1:n)  
 if (j!=k)  
 A[k,j] <- A[k,j]/A[k,k]  
 A[k,k] <- - 1/A[k,k]  
 }  
 return(A)  
}  
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(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  
## [105,] -7.749722e+12 -1.447516e+13 -1.016402e+13 1.436668e+13 1.463633e+12  
## [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  
## [115,] -7.702505e+12 3.534751e+12 3.736570e+13 3.102699e+12 -1.175927e+13  
## [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  
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## [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  
## [138,] -3.539510e+11 3.174405e+10 -1.454352e+13 -4.155735e+12 1.763178e+13  
## [139,] 7.879412e+12 4.036279e+12 -1.830181e+13 -1.509792e+13 8.271078e+12  
## [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  
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## [128,] -1.581780e+13 1.802083e+13 -1.626450e+13 4.465785e+13 -3.713636e+12  
## [129,] 1.265192e+12 7.174465e+11 -8.333699e+12 7.850173e+12 7.343766e+12  
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## [137,] 3.803729e+12 -1.436700e+13 -3.859723e+12 -3.194147e+12 -5.984402e+12  
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## [94,] 4.261683e+12 7.992875e+12 8.551119e+10 1.742804e+10 -1.518424e+12  
## [95,] -4.409167e+12 9.853279e+12 1.711442e+12 -3.265007e+12 -6.339545e+12  
## [96,] 8.688658e+12 4.942836e+13 5.406273e+12 -1.752635e+13 -1.644700e+13  
## [97,] 2.173843e+11 -5.425881e+12 -2.160683e+12 3.812400e+11 -4.784148e+12  
## [98,] -3.317215e+12 -2.022537e+13 -8.493688e+12 5.894192e+12 1.103496e+13  
## [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  
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## [2,] 7.794087e+12 1.766562e+13 2.143116e+13 1.140287e+13 1.205354e+13  
## [3,] -5.660593e+13 -1.353352e+13 -2.960007e+13 -1.184562e+13 2.488173e+13  
## [4,] -2.727841e+13 -2.674218e+13 -2.062923e+13 -1.236931e+13 -5.818603e+12  
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## [7,] 2.156880e+13 2.867981e+13 3.521600e+13 1.124206e+13 -5.592853e+12  
## [8,] -2.323807e+13 -3.247700e+12 -5.606937e+12 -3.524972e+12 4.231167e+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  
## [12,] 6.138442e+13 1.901286e+13 2.592864e+13 1.862668e+13 -1.613710e+13  
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## [62,] -5.643300e+12 -3.203142e+11 1.414770e+12 -4.013621e+12 7.040268e+12  
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## [65,] 3.013212e+11 1.562915e+13 1.605594e+13 2.065951e+12 6.226565e+12  
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## [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  
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## [76,] 2.268099e+13 -1.510521e+12 2.917642e+12 7.329766e+12 -3.770954e+12  
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## [29,] 1.733612e+12 -4.343595e+12 1.572887e+12 -4.472739e+12 -4.310649e+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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## [194,] 2.394496e+12 -2.494485e+13 -1.872152e+13 -4.781054e+12 -1.327655e+13  
## [195,] -1.602947e+13 -5.184858e+12 -2.790391e+13 8.704902e+12 -4.366744e+12  
## [196,] -7.076642e+12 2.144473e+11 -8.895096e+12 4.084005e+12 2.240390e+12  
## [197,] -1.053061e+13 3.135345e+12 -9.102804e+12 5.882183e+12 -1.326441e+12  
## [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  
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## [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  
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## [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  
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## [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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## [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  
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## [35,] 3.851101e+11 4.812053e+12 -1.237813e+13 -3.291576e+12 -3.150820e+12  
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## [38,] 5.836792e+12 1.190947e+12 5.571006e+11 -3.060513e+12 -1.770173e+12  
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## [69,] 3.007582e+12 2.690963e+12 -7.340112e+11 -1.858257e+12 -7.304001e+12  
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## [97,] -1.383186e+12 3.717914e+11 4.956276e+12 2.500366e+12 4.965338e+12  
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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  
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## [,41] [,42] [,43] [,44] [,45]  
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## [4,] 7.759640e+12 3.538414e+13 1.902275e+13 1.157110e+13 1.785497e+13  
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## [64,] 7.409728e+10 8.527694e+12 8.035073e+12 8.096872e+12 -1.844575e+12  
## [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  
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## [28,] -2.051567e+13 -2.882906e+12 8.979811e+12 6.481198e+12 -3.729093e+12  
## [29,] 1.000170e+12 -6.376550e+10 5.062642e+12 2.669392e+11 -2.611190e+12  
## [30,] -1.120713e+12 -7.961186e+11 3.518968e+12 -6.659127e+11 -3.585428e+12  
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## [32,] -8.052139e+12 -1.834031e+12 -8.758692e+12 4.974521e+12 4.055531e+12  
## [33,] 6.772194e+12 2.779889e+12 4.047683e+11 2.934153e+13 -1.307955e+13  
## [34,] 2.825120e+12 -5.966984e+11 -5.583221e+11 4.284782e+12 -8.157461e+12  
## [35,] 6.346520e+12 2.976530e+12 -4.967256e+12 -4.236277e+12 5.109684e+12  
## [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  
## [38,] 7.842146e+12 3.700774e+12 -6.231130e+12 -3.831039e+12 2.717147e+12  
## [39,] 3.002353e+13 6.723927e+12 -2.017730e+12 1.973009e+13 -4.657718e+12  
## [40,] 1.060811e+12 -6.105537e+12 -4.623579e+12 5.999715e+12 3.010123e+12  
## [41,] 8.444022e+12 -1.901696e+12 -5.057168e+12 -1.094325e+13 7.465326e+10  
## [42,] -4.052492e+12 2.679148e+12 -1.010535e+13 -6.118212e+12 7.176769e+12  
## [43,] -1.296255e+13 -2.492252e+12 -5.377815e+12 5.347164e+12 4.832513e+12  
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## [194,] -6.278727e+11 2.147981e+12 8.952909e+12 8.598934e+12 -7.043427e+12  
## [195,] -3.897020e+11 5.490787e+12 -5.837126e+11 7.237964e+12 -5.375506e+11  
## [196,] -3.149227e+11 -5.897622e+12 -2.333754e+12 6.929585e+12 -1.420259e+12  
## [197,] -3.381919e+12 5.359283e+12 5.136767e+12 -4.008541e+12 -2.693105e+12  
## [198,] -3.923755e+12 1.162794e+12 5.947021e+12 9.299629e+12 -6.915466e+12  
## [199,] 1.063506e+13 2.364097e+11 5.853454e+12 6.773975e+12 -3.553780e+12  
## [,51] [,52] [,53] [,54] [,55]  
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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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## [17,] 5.433273e+12 -1.468797e+13 -1.517494e+13 1.387913e+13 6.019084e+12  
## [18,] 7.425106e+11 -4.273129e+13 -1.613381e+13 4.458394e+12 1.336545e+13  
## [19,] -2.053915e+12 -2.489585e+13 -1.262148e+13 4.510377e+12 8.773143e+12  
## [20,] 8.401723e+11 2.923060e+12 -2.690763e+12 1.206147e+12 -3.092909e+12  
## [21,] 8.328205e+12 2.259574e+13 1.262606e+13 8.986122e+12 -1.798078e+13  
## [22,] 2.113034e+12 2.409682e+13 7.421594e+12 -1.383375e+13 -3.518780e+12  
## [23,] 1.418117e+12 4.527694e+13 2.563609e+13 -9.952052e+12 -2.098792e+13  
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## [29,] 1.943646e+12 2.137122e+12 -2.291996e+12 -4.280236e+11 1.102296e+12  
## [30,] -3.152317e+12 -6.926531e+12 -3.103316e+11 4.320624e+11 9.594865e+12  
## [31,] 2.780498e+12 1.880891e+13 7.647313e+12 -1.338367e+13 -1.704977e+12  
## [32,] 6.150043e+11 2.024710e+13 1.409269e+13 -4.443301e+12 -1.246484e+13  
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## [35,] 9.961659e+11 6.705366e+12 4.357395e+12 7.679946e+11 -7.943900e+12  
## [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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## [39,] 8.478614e+12 -3.138174e+13 -3.365056e+13 1.988229e+13 8.920186e+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  
## [44,] 6.867812e+10 1.659196e+13 1.144844e+13 -1.737964e+12 -6.325015e+12  
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## [46,] 3.151870e+12 -1.615061e+12 -8.119791e+12 1.264934e+13 -4.932559e+12  
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## [78,] 3.607487e+12 -2.544354e+13 -1.668933e+13 9.261331e+12 1.016855e+13  
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## [9,] -2.436196e+13 2.881532e+13 -3.183236e+12 -1.201340e+13 -3.599520e+13  
## [10,] -1.591647e+13 1.626559e+13 -5.975610e+11 6.282272e+12 -5.394762e+12  
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## [129,] -1.207649e+13 9.856871e+12 -1.666225e+12 7.757409e+12 5.632283e+12  
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## [94,] 5.266480e+12 -5.274064e+12 2.199696e+12 -9.455482e+11 5.886474e+12  
## [95,] 1.282001e+12 -6.517062e+11 4.177138e+12 -6.600051e+11 4.594963e+12  
## [96,] -4.169052e+12 -2.730535e+12 1.569878e+13 -2.451723e+13 3.113112e+12  
## [97,] -9.100922e+11 -2.343153e+12 -1.599808e+12 2.777698e+12 -1.133180e+12  
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## [99,] 7.364697e+12 2.341907e+12 -2.780191e+12 8.503886e+12 1.019757e+13  
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## [101,] -6.855817e+12 7.984080e+11 -1.132030e+12 -7.266870e+12 -1.518382e+13  
## [102,] 3.425075e+12 -1.849118e+12 5.663684e+12 -1.608625e+12 1.094978e+13  
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## [63,] 1.001906e+12 2.937539e+12 -6.574110e+12 -8.527413e+12 -3.072151e+12  
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## [67,] 5.116748e+12 7.427309e+11 2.754308e+12 8.886436e+12 1.310686e+12  
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## [77,] -3.014548e+12 -6.894972e+11 1.370838e+13 7.105816e+12 1.116289e+11  
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## [28,] 2.469639e+12 -6.579594e+12 -6.513361e+12 -5.614366e+12 5.383123e+12  
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## [30,] -5.458542e+12 4.743857e+12 5.316655e+12 9.909320e+12 -8.722513e+11  
## [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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## [37,] -1.894604e+12 1.218805e+13 -3.627826e+12 -7.329816e+11 -1.119521e+13  
## [38,] -5.917776e+12 6.722545e+12 1.012393e+13 3.466675e+12 -6.368879e+12  
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## [42,] 1.189441e+13 1.037888e+13 -2.234897e+13 4.901745e+12 -2.119756e+13  
## [43,] 1.071812e+13 5.655549e+12 -1.763309e+13 4.750152e+12 -1.347105e+13  
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## [192,] -1.706417e+12 -9.887044e+12 -2.222099e+12 -1.288333e+13 3.631734e+11  
## [193,] -1.099164e+13 6.539830e+12 1.710293e+13 4.967794e+12 8.462872e+11  
## [194,] -9.436575e+12 2.351476e+11 2.542909e+13 1.695704e+13 1.217564e+13  
## [195,] 2.360442e+12 -2.814905e+12 2.941719e+12 7.823166e+12 1.660560e+12  
## [196,] -1.732076e+11 -8.434963e+12 4.385386e+11 -2.743208e+12 8.383908e+12  
## [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]  
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## [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  
## [17,] -1.510521e+12 -9.389196e+12 1.416097e+13 -6.524345e+12 -1.626767e+13  
## [18,] 2.917642e+12 -6.842831e+12 6.228954e+12 -1.557113e+13 -1.835262e+13  
## [19,] 7.329766e+12 -8.429169e+12 -2.307196e+12 -1.182255e+13 -8.784278e+12  
## [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  
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## [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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## [28,] -1.023534e+13 -1.615113e+13 -5.033943e+12 -7.508421e+12 -1.483405e+13  
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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  
## [33,] -5.143526e+12 -1.734694e+13 2.788787e+13 -2.758172e+13 -2.494061e+13  
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## [46,] 1.530631e+11 -1.557956e+12 1.203065e+13 -1.028563e+13 -3.436001e+12  
## [47,] 3.384977e+12 -1.567934e+11 -9.162239e+11 -8.067689e+11 -2.384207e+12  
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## [67,] -7.794641e+12 -6.894972e+11 1.135093e+12 -4.550122e+12 2.943630e+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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## [160,] -2.256624e+12 3.664251e+12 -3.198756e+12 2.945928e+12 7.247828e+12  
## [161,] 8.561837e+12 1.108119e+13 1.430291e+12 7.863394e+12 1.761690e+12  
## [162,] 9.093603e+12 1.888061e+12 -3.995943e+12 7.026809e+11 2.797592e+12  
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## [164,] -8.488590e+12 7.255408e+12 -2.645494e+12 1.053243e+13 7.724975e+12  
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## [166,] -9.215319e+12 2.724413e+12 -1.428717e+13 1.103061e+13 1.776520e+13  
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## [169,] -5.984206e+12 -2.909367e+12 -3.300133e+12 1.922925e+10 1.744563e+12  
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## [178,] -1.607918e+13 -1.368219e+13 1.114228e+13 -1.710915e+13 -9.451179e+12  
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## [181,] 1.326427e+13 -3.982842e+12 -5.569724e+12 -1.101164e+12 -3.749520e+12  
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## [5,] -2.254633e+13 -2.443974e+12 5.976796e+12 -1.262365e+13 -1.037227e+13  
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## [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  
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## [128,] -5.877695e+12 2.149012e+11 5.283407e+12 -6.814548e+12 -7.346040e+12  
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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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## [137,] 2.546688e+12 1.128618e+12 1.486329e+12 2.465348e+12 1.487828e+12  
## [138,] 4.643920e+12 -4.625169e+12 -9.270998e+11 -5.636393e+11 -7.024439e+12  
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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  
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## [150,] 1.583799e+13 -7.855607e+12 5.221003e+11 3.585235e+12 -7.423460e+12  
## [151,] 1.577399e+13 -2.134368e+12 -2.034760e+12 5.734842e+12 2.991181e+12  
## [152,] 1.237481e+13 -2.873435e+12 -4.006810e+12 6.135767e+12 3.302825e+12  
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## [158,] -8.983992e+12 2.833570e+12 -1.217403e+11 -2.937104e+12 -2.148875e+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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## [162,] 7.475775e+12 -3.522275e+12 2.012812e+12 -8.045246e+11 -1.925845e+12  
## [163,] -2.815161e+13 1.134810e+13 -5.615037e+10 -7.614955e+12 6.504721e+12  
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## [165,] 9.040260e+12 -2.563110e+12 1.299605e+12 -1.169397e+12 -5.225857e+12  
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## [177,] 1.435027e+11 -1.712506e+12 3.970023e+11 -2.389654e+12 -4.013334e+12  
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## [94,] -8.711296e+12 1.005876e+12 1.281778e+12 6.363347e+12 7.818355e+11  
## [95,] -1.429243e+12 4.073566e+12 -5.096362e+12 8.817483e+11 -6.104896e+12  
## [96,] -1.857507e+13 3.980960e+12 -9.731943e+12 -6.734701e+12 -1.904873e+13  
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## [101,] -1.008639e+13 -5.733216e+12 2.849067e+12 2.365073e+11 9.332980e+12  
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## [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  
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## [60,] 2.497469e+12 1.384665e+13 9.579006e+11 -6.606247e+11 -5.296541e+12  
## [61,] -3.194223e+12 -5.479824e+12 4.038587e+12 5.266480e+12 1.282001e+12  
## [62,] -3.529861e+11 4.956924e+10 6.990320e+12 -5.274064e+12 -6.517062e+11  
## [63,] -1.207553e+12 -7.461959e+11 -1.308534e+13 2.199696e+12 4.177138e+12  
## [64,] -4.685974e+12 -4.941774e+12 1.568625e+13 -9.455482e+11 -6.600051e+11  
## [65,] -8.843694e+12 -1.422605e+13 -1.397237e+13 5.886474e+12 4.594963e+12  
## [66,] 3.998502e+12 -2.022031e+12 1.734077e+12 -2.365430e+12 1.421750e+12  
## [67,] 1.346054e+12 4.801117e+12 1.172074e+11 -6.668889e+12 2.528628e+12  
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## [71,] -2.600078e+12 -6.562384e+12 1.809371e+13 -8.238305e+12 -2.047393e+12  
## [72,] 5.280579e+12 5.731707e+12 -1.785573e+11 -8.587402e+12 2.688257e+12  
## [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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## [28,] 1.272915e+13 -5.325361e+12 -8.397326e+12 -6.659423e+12 -4.529689e+12  
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## [30,] -5.884894e+12 1.566926e+12 4.624041e+12 6.826983e+12 -2.372050e+12  
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## [32,] 5.260665e+12 3.069782e+12 1.643385e+12 -8.883176e+12 -2.551174e+12  
## [33,] 3.798877e+13 -4.369200e+12 -1.009219e+13 -8.962361e+12 1.361642e+12  
## [34,] 2.639913e+13 -7.970787e+12 -1.119770e+13 -7.642495e+10 4.728588e+11  
## [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  
## [37,] -1.577888e+13 3.717914e+11 1.138995e+13 6.245043e+12 1.316404e+12  
## [38,] 1.328121e+12 4.956276e+12 2.572675e+12 4.226681e+12 -6.402050e+12  
## [39,] 2.619882e+13 2.500366e+12 -8.371276e+12 7.777506e+12 4.136002e+11  
## [40,] -9.489965e+11 4.965338e+12 2.818520e+12 -1.415760e+11 -3.968439e+12  
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## [194,] 1.368937e+13 -1.331682e+12 -5.708038e+12 3.186727e+12 3.224843e+12  
## [195,] 1.919745e+13 -2.102965e+11 -7.051668e+12 -1.164158e+13 3.636011e+12  
## [196,] 2.616199e+12 -2.644211e+12 -2.530934e+12 9.014216e+11 2.733603e+12  
## [197,] 7.911723e+12 2.977179e+11 -4.678919e+11 -4.072327e+12 4.792234e+11  
## [198,] 1.165844e+13 -4.842045e+12 -7.912652e+12 2.236228e+12 -9.872488e+11  
## [199,] 4.886003e+12 -4.778704e+11 -6.708666e+12 9.420469e+12 9.976854e+11  
## [,101] [,102] [,103] [,104] [,105]  
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## [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  
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## [24,] -8.725603e+12 -8.864069e+11 -1.728547e+12 6.931535e+12 -3.466083e+12  
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## [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  
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## [31,] 6.645866e+12 -1.034827e+13 -7.197429e+12 5.510935e+12 2.173673e+12  
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## [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  
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## [40,] 2.603639e+12 -2.822012e+12 5.908985e+12 1.233708e+12 5.661786e+12  
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## [44,] 3.753737e+12 -1.872027e+12 -4.827919e+12 -1.959663e+12 1.406853e+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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## [70,] 4.290976e+10 2.857898e+12 8.382632e+11 -1.360952e+12 2.129723e+12  
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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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## [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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## [130,] 7.889184e+12 -1.197058e+13 -3.707294e+12 -5.488295e+12 2.666112e+12  
## [131,] 1.717311e+11 9.112265e+12 -2.757924e+12 -1.283788e+12 4.521651e+12  
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## [138,] 3.062873e+12 4.292983e+12 -2.783054e+12 -2.779837e+11 -2.798752e+12  
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## [94,] -1.274541e+13 4.219762e+12 -7.412320e+11 6.923156e+12 -6.734551e+11  
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## [26,] 9.833828e+12 3.155700e+12 -1.078787e+12 5.318980e+12 1.180972e+12  
## [27,] -1.723799e+13 -5.719033e+12 5.600282e+12 -7.820979e+12 -4.085278e+12  
## [28,] 5.322289e+12 -1.026980e+13 -3.917800e+12 1.054304e+13 7.856691e+12  
## [29,] 4.206865e+12 4.567908e+12 -4.694286e+11 -2.837998e+12 1.308460e+12  
## [30,] 6.576824e+12 5.014262e+12 -1.745228e+12 -5.909276e+12 6.137891e+12  
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## [33,] 3.378750e+13 2.867850e+13 -6.614405e+12 1.280432e+13 7.854511e+12  
## [34,] 1.923728e+13 1.377737e+13 -4.136569e+12 6.996830e+12 4.686121e+12  
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## [37,] -5.146307e+12 -4.059836e+12 3.072234e+12 -1.167846e+13 -4.486129e+12  
## [38,] 5.075301e+12 9.445037e+12 4.721170e+12 1.089467e+12 -4.735370e+12  
## [39,] 3.747403e+13 4.354979e+13 -7.687316e+12 -2.173898e+12 1.220261e+13  
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## [192,] 8.788435e+11 -1.653652e+12 9.663674e+11 2.424585e+12 -3.149134e+12  
## [193,] 2.448775e+13 1.276325e+13 -4.703245e+12 -4.306541e+12 1.113651e+13  
## [194,] 3.210984e+13 2.564690e+13 -8.767999e+12 -3.470110e+11 1.676408e+13  
## [195,] 1.474922e+13 4.534549e+12 1.958248e+11 1.474847e+13 4.080354e+12  
## [196,] -5.411786e+12 -5.026463e+12 -6.195338e+11 3.418998e+12 -9.335894e+11  
## [197,] 4.302015e+12 -2.623528e+12 -1.603096e+11 1.743655e+12 -2.324365e+12  
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## [199,] 2.074471e+13 1.832981e+13 -5.151020e+12 -8.551385e+12 9.034946e+12  
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## [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  
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## [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  
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## [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  
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## [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  
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## [28,] -6.375544e+11 -4.906783e+12 1.487103e+13 -7.771816e+12 3.763505e+12  
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## [33,] 2.557264e+13 -4.452101e+13 2.842311e+13 1.861123e+13 3.304188e+13  
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## [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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## [64,] -7.567075e+12 6.713219e+12 -2.334364e+13 -5.510265e+12 -1.960483e+13  
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## [159,] -2.295152e+12 2.144286e+12 -5.152648e+12 1.012331e+12 -1.025365e+13  
## [160,] -8.079340e+11 2.499521e+12 -8.187842e+11 3.263692e+12 -7.298017e+12  
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## [163,] 2.552523e+13 -2.268186e+13 3.737862e+13 2.056447e+13 3.513042e+13  
## [164,] -8.398191e+12 2.337149e+13 2.926631e+12 2.232739e+12 -3.971892e+12  
## [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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## [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  
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## [11,] -6.042259e+11 -6.437981e+12 1.977926e+12 2.321451e+12 1.979419e+12  
## [12,] -1.506775e+13 -4.674685e+13 1.955179e+13 -1.100856e+13 -1.966869e+13  
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## [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  
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## [126,] 1.449802e+12 -7.363149e+12 4.265320e+12 -1.086455e+12 1.864826e+12  
## [127,] 5.959981e+12 2.610404e+13 -7.017369e+12 1.400576e+13 1.968576e+11  
## [128,] 4.115717e+12 1.246379e+13 -3.941160e+12 -6.837625e+12 1.627716e+13  
## [129,] 9.271282e+12 -4.625093e+12 5.172512e+12 2.379185e+11 7.582058e+12  
## [130,] -6.678921e+12 5.601712e+11 -3.390503e+12 -5.921044e+12 9.239273e+12  
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## [133,] -2.530828e+12 2.222921e+12 3.208559e+12 -2.062122e+12 4.761060e+12  
## [134,] 5.075425e+12 -2.350904e+11 -2.062122e+12 3.723813e+12 -2.283133e+12  
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## [137,] -2.395216e+12 4.193118e+12 -2.599847e+12 -2.998333e+11 -4.463337e+12  
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## [92,] 1.517326e+13 7.523936e+12 -1.375331e+13 -9.445446e+12 1.281936e+13  
## [93,] 3.159938e+12 8.101521e+11 1.305883e+13 -4.382389e+12 -4.061643e+12  
## [94,] 5.459033e+12 3.163671e+11 -8.507793e+12 -1.301164e+12 1.071094e+12  
## [95,] -2.428286e+12 -6.202904e+11 2.064133e+12 1.492105e+12 -1.242978e+11  
## [96,] 3.596343e+12 -6.144336e+12 -9.152533e+12 7.993170e+12 8.682993e+12  
## [97,] -2.848790e+12 2.485669e+12 -3.343598e+12 -4.098493e+12 3.083181e+12  
## [98,] -2.326045e+12 3.490136e+12 1.590435e+12 -3.029705e+12 -2.304928e+12  
## [99,] -1.541046e+13 2.333005e+12 2.644708e+12 3.814611e+12 -1.050772e+13  
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## [103,] -1.648496e+13 -7.171490e+11 -2.130080e+12 4.250493e+11 1.381375e+12  
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## [27,] 2.059526e+12 8.914161e+11 9.403464e+12 -9.194225e+12 -9.679865e+11  
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## [29,] -4.436758e+11 4.138190e+12 2.228983e+11 4.897116e+12 -2.145175e+12  
## [30,] 5.115319e+11 -4.514963e+12 3.428283e+12 6.124155e+12 -1.131755e+13  
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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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## [42,] 5.102368e+12 -1.212913e+13 1.166636e+13 -2.141830e+13 6.330906e+12  
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## [191,] -3.718248e+12 2.190518e+12 6.126813e+12 9.495862e+12 -9.658734e+12  
## [192,] 1.204941e+12 2.845691e+12 -8.536766e+12 6.647901e+12 1.125831e+12  
## [193,] -6.601290e+12 4.269865e+12 -3.849051e+12 2.320261e+13 -1.466036e+13  
## [194,] -4.743463e+12 5.877939e+12 -7.633938e+12 1.802955e+13 -1.666370e+13  
## [195,] 3.449989e+12 2.091382e+12 -5.626533e+12 -2.610091e+12 2.560498e+12  
## [196,] 1.274314e+12 2.501555e+11 -2.763331e+12 -5.405426e+12 5.156212e+12  
## [197,] 4.409482e+12 -1.744229e+12 -3.734530e+12 5.584215e+12 1.480947e+12  
## [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  
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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  
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## [22,] 2.072169e+13 2.350607e+13 -5.154750e+12 -1.907622e+13 1.120430e+13  
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## [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  
## [29,] -2.551561e+12 2.001201e+12 4.859987e+12 -1.326358e+12 -6.119041e+11  
## [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  
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## [36,] 1.130885e+13 1.106470e+13 -1.275605e+13 -3.047479e+12 7.050495e+12  
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## [171,] -6.022821e+12 -8.473723e+12 1.162717e+13 -1.879503e+12 -5.646722e+12  
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## [92,] -7.049082e+12 -4.647227e+12 7.473483e+12 1.375488e+13 -7.233331e+12  
## [93,] 5.373402e+12 1.033793e+13 -4.000897e+13 2.667711e+12 5.598842e+12  
## [94,] 3.065657e+12 -1.242532e+11 1.173335e+13 -8.659188e+11 -8.300880e+11  
## [95,] -9.913104e+11 -2.937949e+12 7.497700e+12 -8.241547e+12 2.908256e+11  
## [96,] -8.889699e+12 -4.610252e+12 4.684196e+13 -1.580893e+12 -1.397692e+13  
## [97,] -3.260298e+11 1.263895e+12 2.129622e+11 1.586625e+11 4.713712e+12  
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## [99,] 8.862624e+12 5.547010e+12 -1.187662e+13 -8.021233e+12 1.275989e+13  
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## [101,] -2.752743e+12 -2.187280e+12 7.719357e+12 1.578154e+13 -9.535570e+12  
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## [103,] -1.833850e+12 -3.125592e+12 1.765304e+13 -1.131831e+13 2.299769e+12  
## [104,] 5.959798e+12 7.440356e+12 -1.424059e+13 -2.013470e+12 4.727464e+12  
## [105,] -4.923126e+12 -4.515734e+12 2.256005e+12 7.333110e+12 -6.728462e+12  
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## [117,] 3.399188e+12 -3.446888e+12 -3.018279e+13 1.081458e+13 4.242640e+12  
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## [141,] -5.791777e+12 -4.982396e+11 -3.228749e+13 1.924278e+13 -5.333784e+12  
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## [42,] 2.012971e+13 1.102625e+13 1.539569e+13 1.250920e+13 -8.360507e+12  
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## [66,] -2.441125e+12 -8.306945e+11 -5.525602e+11 -7.763571e+11 5.691752e+12  
## [67,] 2.610774e+12 1.157349e+13 3.705679e+12 -9.297749e+12 6.572006e+12  
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## [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  
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## [25,] -1.482531e+12 7.351476e+12 3.691852e+12 1.099595e+13 -2.073552e+12  
## [26,] 4.008448e+11 -3.123788e+12 -1.123800e+13 -8.465972e+12 -2.162465e+12  
## [27,] -7.629132e+12 -8.098995e+11 9.691006e+12 7.714515e+12 -2.015166e+12  
## [28,] 8.431807e+11 1.633694e+13 -8.298437e+12 -7.051317e+12 9.532826e+12  
## [29,] 5.937812e+11 -1.579147e+12 2.013779e+12 1.768046e+11 8.683088e+11  
## [30,] -4.860407e+12 -9.764884e+12 5.331644e+12 4.368905e+11 4.389629e+12  
## [31,] -5.757690e+12 9.331751e+11 9.208105e+12 1.622415e+13 -6.903794e+12  
## [32,] 2.763727e+12 1.819420e+13 1.126873e+11 2.642146e+12 -2.982738e+12  
## [33,] 6.775207e+12 -1.898949e+13 -1.819265e+13 -2.030146e+13 5.133021e+12  
## [34,] 1.189091e+13 -3.617950e+12 -1.235971e+13 -1.710729e+13 9.520716e+11  
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## [36,] -1.111228e+12 6.513390e+12 6.592229e+12 8.724130e+12 -2.550319e+12  
## [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  
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## [40,] -4.561539e+12 -5.141072e+12 3.114620e+12 3.571749e+12 -1.434628e+12  
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## [42,] -1.094447e+13 1.653089e+13 9.453283e+12 1.832786e+13 -1.808831e+12  
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## [190,] 2.757389e+12 2.051187e+13 -1.537221e+12 8.845805e+11 -3.199935e+12  
## [191,] -9.305027e+12 -5.814935e+12 4.418189e+12 1.148385e+13 -1.122202e+12  
## [192,] -3.522090e+12 4.236634e+12 -4.334949e+12 -6.525325e+12 -1.697664e+12  
## [193,] -3.859107e+11 -1.000835e+13 -7.441704e+12 -4.754475e+12 1.429357e+12  
## [194,] 8.520590e+12 -2.422800e+13 -1.154465e+13 -1.094672e+13 5.212607e+12  
## [195,] 8.978781e+12 -1.338598e+12 -1.487424e+13 -7.992671e+12 2.947928e+12  
## [196,] 4.631150e+12 2.722180e+12 -1.470430e+12 -7.996842e+12 9.234355e+11  
## [197,] -3.457768e+12 4.629681e+12 -5.075206e+12 -3.080954e+12 -4.012636e+11  
## [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  
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## [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  
## [29,] 4.359126e+12 -2.399181e+12 5.779818e+12 -6.044086e+11 -1.224487e+12  
## [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  
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## [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  
## [42,] -2.789591e+12 -3.745589e+12 -4.399723e+12 1.475007e+12 5.808403e+12  
## [43,] 3.094977e+12 4.931389e+12 -1.386898e+13 6.866881e+11 7.239242e+12  
## [44,] -4.530034e+12 2.970958e+12 -1.098246e+13 -1.471991e+12 7.319188e+12  
## [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  
## [49,] 6.131058e+12 -4.342867e+12 4.945350e+12 -7.626866e+12 -4.157979e+12  
## [50,] -4.542801e+12 -3.742201e+12 -4.434657e+12 -4.304634e+12 6.885000e+12  
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## [62,] 6.092467e+11 -3.098444e+11 1.144960e+12 -1.923666e+12 -9.539094e+11  
## [63,] 5.181192e+12 -7.010003e+09 7.828791e+11 4.612575e+12 -1.290547e+12  
## [64,] -7.492394e+12 -6.808566e+12 1.666924e+13 -1.213663e+13 -7.481239e+12  
## [65,] 6.323587e+12 -7.259827e+12 2.173781e+13 -3.667495e+12 -1.105282e+13  
## [66,] 3.287902e+12 -1.662157e+12 -2.203038e+12 -1.547102e+12 -1.169915e+12  
## [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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## [70,] 4.960237e+11 1.397611e+12 -4.363450e+11 -1.161633e+12 5.546738e+11  
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## [124,] -1.905425e+13 1.066775e+13 2.124975e+11 -7.440046e+12 -5.576656e+11  
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## [130,] 5.992657e+11 3.118960e+13 -9.003483e+12 -1.968288e+13 2.574277e+12  
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## [23,] -8.895096e+12 -9.102804e+12 -1.617912e+13 -2.003710e+12 6.176335e+12  
## [24,] 4.084005e+12 5.882183e+12 2.246779e+12 -1.165282e+13 -2.787761e+12  
## [25,] 2.240390e+12 -1.326441e+12 -1.045279e+13 -6.526275e+12 5.273947e+12  
## [26,] -2.693425e+12 -5.019784e+12 2.383645e+11 1.251142e+13 8.362452e+11  
## [27,] 5.087683e+12 2.334007e+12 -3.997762e+12 -1.176285e+13 3.256460e+12  
## [28,] -1.088277e+13 3.467530e+12 -8.039066e+11 5.276257e+12 -4.062733e+12  
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## [30,] -1.085641e+12 5.056174e+12 8.928423e+12 -7.838810e+12 -5.070954e+12  
## [31,] 5.117409e+12 6.043659e+11 -4.703112e+12 -1.572468e+13 7.717868e+12  
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## [33,] 3.247629e+12 -3.831385e+11 1.968066e+13 2.438359e+13 -3.597140e+12  
## [34,] -3.836148e+12 -2.559917e+12 4.200395e+12 1.868812e+13 -4.880710e+12  
## [35,] -1.241514e+10 -3.064476e+12 -7.306464e+12 6.805923e+11 3.670002e+12  
## [36,] -1.516397e+12 -4.541592e+12 -6.438826e+12 -8.932377e+12 4.962418e+12  
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## [40,] -1.136107e+12 4.792808e+11 1.772643e+12 -4.282357e+12 -1.952515e+12  
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## [189,] -3.683839e+12 6.730293e+12 1.169932e+13 1.615715e+13 -6.058170e+12  
## [190,] -2.772786e+12 -2.730251e+12 -6.319688e+12 1.662440e+12 7.793697e+12  
## [191,] 9.142959e+11 -1.670869e+12 -6.463370e+12 -1.184094e+13 -7.067056e+11  
## [192,] -7.897406e+12 5.137287e+11 -7.794017e+12 7.045469e+12 8.524822e+11  
## [193,] -9.144031e+11 -3.817335e+11 6.503919e+12 8.490363e+12 -1.527113e+12  
## [194,] 4.221946e+12 3.875731e+12 1.659075e+13 1.145273e+13 -5.420359e+12  
## [195,] 2.371255e+12 -5.466556e+12 8.498475e+12 1.327507e+13 1.534512e+12  
## [196,] -3.922644e+12 -2.514318e+12 1.998135e+12 2.084785e+12 -3.939102e+12  
## [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  
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## [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  
## [28,] 1.023972e+13 -1.626980e+13 -2.848969e+12 -9.067615e+11 -2.464748e+10  
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## [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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## [38,] -6.005388e+12 8.092074e+12 4.110741e+12 -6.162912e+11 -1.287085e+12  
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## [41,] -9.036580e+10 1.131813e+12 6.037214e+10 3.082954e+12 -1.430045e+11  
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## [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  
## [48,] -7.427819e+11 1.665195e+12 1.437589e+12 -2.857534e+12 -3.153643e+12  
## [49,] -4.484623e+12 -1.756447e+12 8.211509e+12 -5.964030e+12 -7.489190e+12  
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## [71,] 8.832486e+12 6.231828e+11 4.129866e+12 8.052865e+12 1.339730e+12  
## [72,] 6.566156e+12 -1.026991e+13 -3.559712e+12 2.664210e+12 4.756672e+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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## [157,] 5.699148e+12 -4.091363e+12 -2.144100e+11 -5.042591e+11 3.129305e+12  
## [158,] -7.894969e+12 2.972936e+12 -1.073576e+12 -4.483727e+12 1.703219e+12  
## [159,] 5.717453e+12 8.373329e+10 3.266147e+12 3.838128e+12 2.150708e+12  
## [160,] 5.459864e+12 -3.284069e+12 -1.790253e+12 5.165742e+12 -6.563294e+11  
## [161,] -6.200489e+12 7.849782e+12 3.358275e+12 3.965152e+12 -2.873711e+12  
## [162,] -1.653391e+12 2.668907e+12 -4.987179e+11 2.157082e+12 1.137984e+12  
## [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  
## [166,] 2.209116e+13 -1.134335e+13 -1.086340e+12 2.912620e+12 7.832323e+12  
## [167,] 1.660044e+13 1.550689e+12 8.238495e+12 1.140215e+13 2.533272e+12  
## [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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## [194,] -1.627430e+13 5.709914e+12 7.739041e+12 -4.631337e+12 -1.116277e+13  
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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  
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## [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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## [124,] 7.196087e+12 -2.528341e+12 2.469732e+13 2.583992e+13 -1.296852e+13  
## [125,] -1.256146e+13 -5.839171e+12 -7.754633e+12 -6.574907e+12 2.584563e+11  
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## [127,] 2.367575e+13 -1.131653e+12 2.912206e+12 9.952814e+12 -5.958592e+12  
## [128,] -2.935311e+11 -3.134006e+11 2.241606e+13 2.759730e+13 -1.477937e+13  
## [129,] -4.716378e+12 1.132944e+12 5.493307e+12 1.001548e+13 -1.206202e+13  
## [130,] -3.732494e+12 3.519862e+12 9.855007e+12 1.565917e+13 -2.166686e+12  
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## [160,] 2.143391e+12 -1.970180e+12 3.642841e+12 -4.474896e+12 8.152462e+12  
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## [92,] 9.972227e+12 4.914104e+12 -1.938539e+13 8.789211e+12 1.212800e+12  
## [93,] -2.629166e+13 2.902186e+13 7.072335e+12 -1.508597e+13 -3.271459e+13  
## [94,] 1.151050e+13 -6.473476e+12 9.890400e+11 -8.823064e+11 1.032293e+13  
## [95,] 4.370739e+12 -7.983824e+12 5.919814e+11 2.629879e+12 7.402709e+12  
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## [97,] 6.701386e+11 1.143442e+12 2.067871e+12 -4.840548e+11 3.493557e+12  
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## [23,] -5.526412e+12 1.717138e+13 1.000036e+13 -3.746343e+13 1.334962e+13  
## [24,] 9.506492e+12 -7.442546e+12 1.128898e+13 1.337435e+12 3.329265e+12  
## [25,] 3.209822e+12 -3.444795e+12 1.301293e+13 -2.313270e+13 1.190984e+13  
## [26,] -3.626841e+12 1.290284e+12 -1.705106e+13 9.358936e+12 -4.707157e+12  
## [27,] 3.229989e+12 3.210896e+12 2.039728e+13 -1.514102e+13 9.114383e+12  
## [28,] -1.744749e+12 8.724714e+12 -7.040190e+12 1.364719e+11 -3.467682e+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  
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## [72,] -9.551506e+11 7.766121e+12 -3.023635e+12 -4.194638e+12 -4.791717e+11  
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## [189,] -3.110251e+12 -7.907823e+12 -2.631131e+13 3.212921e+13 -1.935620e+13  
## [190,] -4.638586e+12 9.790888e+12 -1.971026e+12 -1.307589e+13 2.309016e+12  
## [191,] 7.537250e+12 -9.640188e+12 1.519162e+13 -7.196378e+12 1.173300e+13  
## [192,] -1.594341e+12 3.102544e+12 -6.329812e+12 -4.274273e+12 -4.191138e+12  
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## [194,] -4.621764e+12 -7.256541e+12 -1.456148e+13 3.427489e+13 -1.052730e+13  
## [195,] -8.914365e+12 3.766748e+12 -1.870427e+13 2.156664e+13 -4.312588e+12  
## [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]  
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## [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  
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## [24,] 2.210040e+11 -1.181151e+12 -8.491402e+12 -1.951499e+13 2.195055e+13  
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## [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  
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## [32,] 6.111671e+12 9.261810e+11 1.341453e+13 1.826882e+13 -1.517590e+13  
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## [37,] 2.520480e+12 -9.829569e+11 -6.317319e+12 -1.058941e+13 1.590730e+13  
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## [39,] -2.873067e+13 -4.629328e+12 -1.874647e+13 -9.322143e+12 1.601168e+13  
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## [42,] 5.444337e+12 2.536651e+12 3.550142e+12 4.312406e+12 1.581713e+12  
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## [45,] 8.612781e+12 1.118800e+12 -1.979179e+12 -7.191311e+12 9.621247e+12  
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## [166,] 1.365762e+13 -4.116480e+11 1.615391e+13 1.543738e+13 -7.165904e+12  
## [167,] 1.310497e+13 3.410706e+12 5.879887e+12 -1.232227e+13 1.336815e+13  
## [168,] 4.898727e+12 -1.817056e+12 6.249808e+12 3.959707e+12 2.081795e+12  
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## [4,] 1.297387e+13 -1.211676e+13 5.366347e+13 -9.228452e+12 2.774544e+13  
## [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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## [13,] 2.856849e+12 1.889797e+13 -5.269186e+12 -8.856504e+12 3.418767e+12  
## [14,] 1.355795e+12 -6.196584e+12 1.694486e+13 1.220564e+12 1.532704e+13  
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## [124,] -2.909621e+12 -2.464007e+13 -5.735640e+12 1.578779e+13 -1.568317e+13  
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## [141,] 1.430366e+13 -3.290127e+13 3.298717e+13 6.544592e+12 2.333604e+13  
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## [91,] -1.142046e+13 -2.088763e+12 5.482465e+11 2.688773e+12 -3.070581e+12  
## [92,] -2.366938e+13 -5.084438e+12 2.256823e+11 7.459793e+12 -1.178507e+13  
## [93,] 3.435101e+13 2.852141e+13 -1.107652e+13 -1.014579e+13 2.677858e+12  
## [94,] -1.076977e+13 4.236249e+12 1.715880e+13 -2.946461e+12 -2.882374e+12  
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## [23,] -2.898375e+12 1.057196e+12 9.835933e+12 -1.085728e+13 1.854997e+13  
## [24,] -8.442094e+12 3.888962e+12 3.649729e+12 -1.226123e+13 -1.727180e+13  
## [25,] -8.007808e+12 1.876605e+12 7.063054e+12 -8.934482e+12 -5.943494e+12  
## [26,] 5.741512e+12 -5.531103e+12 -3.539312e+12 1.496212e+13 6.787649e+12  
## [27,] -9.972599e+12 3.904826e+12 6.379101e+12 -1.252173e+13 -1.013062e+13  
## [28,] 1.246235e+13 1.786584e+12 -4.563678e+12 1.839260e+12 1.177927e+13  
## [29,] -1.655658e+12 -4.034695e+11 -2.675242e+12 -2.385763e+12 -5.031807e+12  
## [30,] -5.303165e+11 1.011816e+12 2.567531e+11 -1.930578e+12 -1.026522e+13  
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## [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  
## [34,] 2.045765e+13 -6.031649e+12 -9.746354e+12 1.720332e+13 7.451654e+12  
## [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  
## [38,] 4.589594e+11 -3.075392e+12 3.505625e+12 2.201122e+12 -9.699792e+12  
## [39,] 1.400827e+13 -7.744048e+12 -9.156291e+12 2.522614e+13 -1.294192e+13  
## [40,] -1.620494e+11 8.414586e+11 4.453801e+12 -5.259420e+12 -3.243537e+12  
## [41,] -3.162850e+12 3.807512e+11 7.172935e+11 -1.033217e+13 -7.384721e+12  
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## [189,] 2.232810e+13 -7.687786e+12 -1.231999e+13 1.975676e+13 -5.658687e+12  
## [190,] -3.577960e+12 2.065693e+11 6.733374e+12 8.292450e+12 1.308499e+13  
## [191,] -7.116014e+12 3.505450e+12 -1.907755e+12 -1.333960e+13 -9.293639e+12  
## [192,] 7.561943e+12 -6.499624e+12 -5.039409e+12 7.182143e+12 5.359382e+12  
## [193,] 6.888431e+12 -3.565359e+12 -1.081879e+13 1.447277e+13 -3.249241e+12  
## [194,] 1.177884e+13 -3.347555e+12 -7.921698e+12 1.559618e+13 -1.928327e+12  
## [195,] 4.179442e+12 -1.547089e+12 -1.240916e+12 1.872569e+13 9.863984e+12  
## [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  
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## [21,] -7.748793e+12 2.002566e+13 1.548921e+11 1.557630e+13 -6.597283e+12  
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## [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  
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## [30,] -2.247982e+12 1.981350e+12 -3.835483e+11 -6.037727e+12 2.339020e+12  
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## [34,] -2.116864e+13 4.754991e+12 1.034450e+13 -2.833796e+13 -1.131156e+13  
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## [6,] -1.443934e+13 6.929787e+12 -7.406647e+11 8.924216e+11 -9.985779e+12  
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## [10,] 3.818390e+12 -1.596170e+13 7.763276e+12 -1.146504e+13 6.052484e+12  
## [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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## [124,] -7.934078e+12 -4.906088e+12 7.757363e+12 -8.038531e+12 -8.623154e+12  
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## [128,] -4.331453e+12 -1.215295e+13 1.059577e+13 -1.162713e+13 1.293955e+11  
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## [130,] 1.518669e+12 -1.000783e+13 1.012747e+13 -1.185867e+13 1.046678e+13  
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## [137,] -5.796578e+12 4.381300e+12 -3.543505e+11 2.142470e+11 -6.979252e+12  
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## [139,] 3.721301e+11 -5.433915e+12 5.405950e+12 -6.165723e+12 5.026658e+12  
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## [90,] -4.285626e+12 -2.225635e+12 8.033255e+12 -2.944159e+12 6.873299e+12  
## [91,] 2.594452e+12 -5.228442e+12 -1.190710e+12 3.016131e+12 3.810829e+12  
## [92,] 1.763506e+13 -2.914608e+12 -2.952818e+11 -1.502306e+12 1.864402e+13  
## [93,] -1.766479e+13 -2.356361e+12 7.197859e+12 2.992104e+12 -2.312837e+12  
## [94,] 8.952986e+12 4.787549e+12 2.900244e+12 5.686423e+12 2.529465e+12  
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## [97,] 4.680157e+12 -6.512025e+11 -1.017708e+12 8.075524e+11 -2.480036e+12  
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## [117,] -9.197195e+12 -3.361143e+12 7.574834e+12 -9.683428e+11 2.824222e+12  
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## [56,] 2.164026e+12 -1.626855e+13 3.328479e+12 1.496028e+13 1.328979e+13  
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## [58,] 5.693227e+11 -5.023855e+12 1.816001e+12 2.479349e+12 3.914837e+12  
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## [60,] -3.629343e+12 -8.366436e+12 4.815130e+12 9.692579e+12 1.170927e+13  
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## [63,] 9.428350e+11 4.899628e+12 5.614448e+11 -1.002420e+13 -4.137630e+12  
## [64,] -2.469996e+12 6.743885e+12 -1.446887e+13 -2.576945e+10 -3.665236e+12  
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## [67,] -1.290696e+12 -1.057838e+13 4.277715e+12 4.277607e+12 1.170213e+13  
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## [24,] 2.652757e+12 -8.418638e+12 6.964892e+12 -1.467540e+13 9.206020e+12  
## [25,] -7.768893e+12 -2.168948e+12 4.755862e+12 1.229517e+13 -2.204923e+12  
## [26,] 5.830448e+12 4.593273e+12 -8.385670e+12 2.028621e+11 3.422581e+12  
## [27,] -9.749956e+12 -2.298923e+12 1.175304e+13 9.343970e+12 1.640362e+11  
## [28,] -1.466753e+12 4.813315e+12 -5.004424e+12 2.402631e+12 -7.853067e+12  
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## [30,] 2.998555e+12 -2.090159e+12 4.280825e+12 -1.554097e+13 3.579643e+12  
## [31,] -1.049887e+13 -5.512637e+12 1.919089e+13 9.042659e+12 7.520120e+11  
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## [33,] 2.279618e+13 8.522065e+12 -1.770155e+13 -2.800951e+13 1.303065e+12  
## [34,] 1.692784e+13 2.011897e+12 -1.893846e+13 -6.429136e+12 2.349721e+12  
## [35,] -3.491961e+12 -9.428854e+11 -1.690309e+12 1.240622e+13 -2.421884e+12  
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## [190,] -5.521426e+12 7.157129e+12 2.017401e+12 1.419686e+13 -1.414889e+13  
## [191,] -4.180137e+12 -6.861275e+12 8.654827e+12 -3.611719e+12 6.125990e+12  
## [192,] 1.201325e+12 3.660243e+12 -5.321755e+12 9.782413e+12 3.281559e+11  
## [193,] 1.485427e+13 -4.091965e+12 -5.052376e+12 -1.498140e+13 7.505404e+12  
## [194,] 2.041449e+13 -3.922897e+12 -1.341680e+13 -2.396405e+13 1.150367e+13  
## [195,] 8.213757e+12 6.930346e+12 -8.046210e+12 -2.685556e+12 -6.638026e+11  
## [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  
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## [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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## [57,] -6.209769e+11 -4.139657e+13 5.553814e+12 2.159157e+13 -1.417514e+12  
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## [160,] 4.028429e+12 1.199448e+13 2.947168e+12 -8.546154e+12 1.539024e+12  
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## [162,] 5.167354e+12 6.309716e+12 5.400458e+12 -5.835507e+12 8.229862e+12  
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## [168,] 3.379559e+12 4.473082e+13 -3.569759e+11 -1.364846e+13 1.203455e+13  
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## [13,] -5.614712e+12 -8.591904e+11 8.413436e+12 1.324100e+13 9.299872e+12  
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## [123,] 4.801475e+12 1.076925e+12 -8.161780e+12 -9.886541e+12 -2.056154e+12  
## [124,] 1.266897e+11 -8.771315e+12 -2.257579e+13 -1.763342e+13 -7.854365e+12  
## [125,] -5.554108e+12 -5.994075e+12 1.131376e+13 2.377817e+13 8.451149e+12  
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## [127,] 2.762421e+13 2.882900e+12 -2.319084e+13 -2.769297e+13 -1.173587e+13  
## [128,] -1.459579e+13 -1.014042e+13 -1.368172e+13 -8.898702e+12 -6.852226e+12  
## [129,] -1.728012e+13 -4.858992e+12 -1.020161e+13 -6.109127e+12 -3.055753e+12  
## [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  
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## [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  
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## [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  
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## [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  
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## [148,] 1.085155e+13 6.080417e+12 -4.531692e+12 -1.369122e+12 4.148317e+12  
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## [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  
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## [181,] -8.573390e+12 -2.278469e+12 -1.776659e+13 -1.672295e+13 -6.321587e+12  
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## [17,] 1.651809e+12 -6.858764e+11 8.048419e+12 -4.762443e+12 6.370829e+12  
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## [89,] 1.283053e+13 8.917319e+11 -1.242238e+11 2.219569e+12 -4.840111e+12  
## [90,] 3.563260e+12 -3.726352e+12 -3.432860e+12 -2.504966e+12 3.105033e+11  
## [91,] 1.035047e+13 -1.140288e+12 -2.296842e+12 5.610314e+12 -2.175260e+12  
## [92,] 8.440547e+12 2.315561e+12 -1.548607e+13 1.580941e+13 -1.342056e+13  
## [93,] -4.532100e+11 -4.648662e+12 1.354776e+13 -1.576318e+13 1.109177e+13  
## [94,] 7.381332e+12 -1.915534e+12 -1.643274e+12 1.668862e+12 2.717354e+12  
## [95,] -2.553683e+12 -1.480777e+12 1.663241e+12 -9.028047e+11 -2.507735e+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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## [103,] -9.092129e+12 6.948467e+11 -1.878606e+11 7.114272e+11 -2.045510e+12  
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## [126,] -4.163757e+12 4.180419e+10 1.933585e+12 3.899808e+12 -2.461153e+12  
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## [128,] 1.428093e+13 2.977264e+12 -1.298745e+13 1.694637e+13 -1.576144e+13  
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## [131,] 4.800465e+11 3.242167e+12 1.920517e+12 8.146489e+11 -1.503987e+12  
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## [138,] -8.027743e+11 7.296489e+11 -1.118715e+13 8.208215e+12 -1.292466e+13  
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## [140,] -8.564641e+12 -6.743264e+12 1.573778e+13 -2.125786e+13 1.572674e+13  
## [141,] 9.077764e+12 1.022282e+12 -7.611704e+12 5.253928e+12 -3.321362e+12  
## [142,] 2.557757e+12 3.858713e+11 3.466223e+12 -8.424292e+12 5.471920e+12  
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## [145,] -3.171266e+12 1.461977e+12 -5.168846e+12 -2.140540e+12 -1.952451e+12  
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## [156,] 1.124724e+12 -1.783380e+11 9.390504e+11 4.747414e+12 -3.024290e+12  
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## [160,] 1.953852e+11 -1.848254e+12 5.699616e+11 -3.025237e+12 -1.942779e+12  
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## [163,] -1.782333e+13 -1.205645e+12 2.470796e+13 -1.849759e+13 1.731203e+13  
## [164,] -3.055852e+12 -2.843738e+12 7.040542e+12 -1.116184e+13 7.273865e+12  
## [165,] 7.471120e+12 -1.174183e+12 -1.301262e+13 1.406450e+13 -1.358843e+13  
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## [22,] -3.630742e+13 1.568244e+13 -2.207107e+13 1.731367e+13 9.014332e+12  
## [23,] 8.768715e+12 1.735194e+13 7.150946e+12 2.402528e+13 1.805885e+13  
## [24,] -3.252360e+13 1.858380e+12 -1.726432e+13 -5.696023e+10 -7.029872e+12  
## [25,] -1.463248e+13 6.860014e+12 -7.417903e+12 9.783459e+12 1.044106e+13  
## [26,] 2.302951e+13 -9.682284e+12 1.207570e+13 -1.250462e+13 6.101407e+11  
## [27,] -2.332835e+13 8.051721e+12 -5.865283e+12 1.004875e+13 4.530099e+12  
## [28,] 2.298276e+13 4.770255e+12 5.639217e+12 9.554283e+12 4.387083e+12  
## [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  
## [34,] 2.599465e+13 -1.158747e+13 7.840905e+12 -1.437445e+13 1.178808e+12  
## [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  
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## [44,] -1.678026e+12 5.459340e+12 5.633969e+12 9.170060e+12 6.570681e+12  
## [45,] -2.257198e+13 1.032665e+13 -8.908145e+12 1.115224e+13 -6.554468e+12  
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## [47,] -5.916155e+12 -2.512444e+12 8.853620e+11 -1.565444e+12 7.379282e+12  
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## [50,] -6.324771e+12 8.758689e+12 -5.336212e+11 1.205444e+13 2.435528e+12  
## [51,] -3.505721e+12 -4.912875e+12 3.992020e+12 -1.122110e+12 2.723513e+12  
## [52,] -3.859622e+13 3.211614e+13 -2.388649e+13 2.607187e+13 1.652472e+13  
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## [56,] -9.193720e+12 1.399572e+13 -6.707262e+12 1.713137e+13 1.339884e+13  
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## [60,] -6.035261e+12 7.783461e+12 9.208880e+12 1.567650e+13 3.789899e+12  
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## [73,] 3.637379e+13 -2.127667e+13 1.541250e+13 -2.620757e+13 -4.662375e+12  
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## [80,] -1.279223e+13 1.772431e+13 -5.582996e+12 1.893331e+13 1.053609e+13  
## [81,] -3.670868e+12 1.172684e+13 -1.820848e+12 1.266566e+13 1.022891e+13  
## [82,] -2.189115e+12 -1.627346e+12 -1.027086e+12 -9.089986e+12 -1.931723e+12  
## [83,] 8.842623e+12 -3.695419e+12 2.263917e+12 -1.709244e+12 5.352773e+12  
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## [188,] -2.369673e+12 4.380964e+12 6.415358e+12 8.168164e+12 -9.871096e+11  
## [189,] 2.452361e+13 -2.263176e+13 4.941583e+12 -3.079284e+13 -7.019806e+12  
## [190,] 1.581819e+13 7.361642e+11 7.232087e+12 1.026401e+13 8.241202e+12  
## [191,] -2.408654e+13 1.175575e+13 -1.996129e+13 3.988727e+12 -5.474360e+12  
## [192,] 1.138941e+13 1.249984e+12 2.208658e+12 -9.602427e+11 5.712778e+12  
## [193,] 1.327242e+13 -1.340787e+12 -7.301593e+12 -1.743183e+13 -4.398195e+12  
## [194,] 1.646924e+13 -1.383346e+13 4.515792e+12 -2.317554e+13 -1.263557e+13  
## [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  
## [24,] -8.192917e+12 3.100814e+12 1.905054e+12 -2.831757e+12 -1.858262e+13  
## [25,] 6.513714e+11 -4.055152e+12 1.488634e+13 -4.941152e+12 -9.974687e+12  
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## [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  
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## [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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## [157,] -6.738163e+11 -8.692922e+11 -8.594290e+11 -4.633475e+12 -3.547502e+11  
## [158,] 8.714807e+11 -4.469207e+12 -6.118030e+12 1.271660e+13 -1.363672e+12  
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## [160,] 9.331343e+11 4.042025e+12 5.578958e+12 -3.078241e+12 1.653143e+12  
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## [163,] 9.895179e+12 1.398177e+12 -1.866149e+13 1.729602e+13 2.013006e+13  
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## [165,] -5.955195e+12 -3.595693e+11 1.157533e+11 -1.462617e+12 -1.370288e+13  
## [166,] 6.437046e+12 -7.923743e+11 2.016364e+13 -1.542513e+13 3.687113e+12  
## [167,] -1.718456e+12 4.188797e+12 1.756457e+13 -1.262151e+13 -6.245093e+12  
## [168,] 2.790147e+12 -2.832156e+12 1.752097e+13 -1.054811e+13 -6.413279e+12  
## [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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## [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  
## [7,] 2.081476e+13 5.423030e+12 4.526307e+13 -4.331128e+12 2.119034e+12  
## [8,] -8.389454e+12 -9.123407e+12 -2.482588e+12 -5.527722e+12 -1.532391e+12  
## [9,] 1.764133e+13 3.253829e+13 1.941539e+13 3.791970e+12 1.949848e+13  
## [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  
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## [122,] 1.047276e+13 1.790486e+13 2.245886e+13 -2.225921e+12 3.826703e+12  
## [123,] -4.001153e+11 -1.236037e+13 -7.636557e+12 -1.933902e+12 -2.653265e+12  
## [124,] -8.710000e+11 -1.575105e+13 1.084548e+13 4.653742e+12 -1.081906e+13  
## [125,] 8.042844e+12 1.086570e+13 9.311814e+12 -3.559448e+12 9.920132e+11  
## [126,] 8.938925e+12 -2.879691e+12 1.957786e+13 2.772915e+11 -1.373053e+12  
## [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  
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## [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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## [140,] -5.137585e+12 5.867597e+12 -1.490895e+13 -8.516035e+12 1.186370e+13  
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## [194,] 1.431276e+13 -1.339523e+12 2.875557e+13 4.152760e+12 -9.061138e+12  
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## [92,] -5.567021e+12 -8.706574e+12 6.273617e+12 5.338888e+12 -4.347969e+12  
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## [58,] -4.429146e+12 -1.539370e+12 6.872042e+09 -1.036586e+12 -5.465719e+11  
## [59,] -2.735032e+12 9.362243e+12 2.021248e+12 -9.031187e+12 -5.156459e+12  
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## [62,] 9.677866e+11 -1.120457e+12 4.423246e+12 4.071191e+12 8.398687e+11  
## [63,] 5.698973e+12 -8.611001e+11 -5.764995e+12 -1.482688e+13 9.267545e+12  
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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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## [22,] 4.081862e+12 1.735489e+13 4.490603e+12 1.169474e+13 1.476370e+12  
## [23,] 5.529873e+12 6.493602e+12 5.221779e+12 5.562361e+11 8.231020e+12  
## [24,] 9.535819e+11 1.005305e+13 -2.253485e+12 6.695701e+12 -5.570566e+12  
## [25,] 2.860040e+12 7.315450e+12 9.339357e+11 5.605564e+12 9.253255e+11  
## [26,] 4.121290e+12 -4.478505e+12 4.695966e+12 -4.569832e+12 6.321400e+12  
## [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  
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## [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  
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## [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  
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## [45,] 1.272184e+12 9.371236e+12 2.325584e+12 6.169761e+12 -7.296013e+12  
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## [189,] -4.343130e+12 -1.852500e+13 -5.218137e+12 -9.206235e+12 5.461599e+12  
## [190,] 9.388956e+12 2.676526e+12 6.416627e+12 -7.128029e+12 4.700659e+12  
## [191,] -3.328869e+12 1.339440e+13 -4.138882e+11 6.339545e+12 -1.747807e+12  
## [192,] -4.766720e+12 -8.908783e+11 1.199885e+12 1.691549e+11 6.398598e+12  
## [193,] -4.303501e+12 -1.645845e+12 -1.033148e+13 -6.792953e+12 -7.979987e+12  
## [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  
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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  
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## [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  
## [23,] 1.646161e+13 -3.910303e+12 3.808930e+13 -2.014862e+13 5.320049e+12  
## [24,] -8.206374e+12 -1.701308e+13 -1.535997e+13 3.016126e+12 -1.281496e+13  
## [25,] 1.184859e+12 -1.327383e+13 9.890482e+12 -4.464749e+12 -9.544784e+12  
## [26,] 2.332647e+12 1.394403e+13 3.038128e+11 6.752391e+12 1.858286e+12  
## [27,] 2.224480e+12 -1.061296e+13 8.489962e+12 -6.505615e+12 -5.515882e+12  
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## [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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## [41,] 1.423828e+12 -6.906470e+12 -4.803726e+11 -3.712448e+12 -7.467425e+12  
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## [44,] 7.429277e+12 -6.725596e+12 1.049445e+13 -5.581820e+12 -2.663754e+10  
## [45,] -6.828557e+11 -2.202021e+13 1.717162e+12 -4.149372e+12 -5.289096e+12  
## [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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## [155,] 4.195502e+12 -6.620509e+12 9.208400e+12 -9.018516e+12 -9.316577e+12  
## [156,] -8.627763e+12 6.576749e+12 -1.453901e+13 1.321221e+13 1.833664e+12  
## [157,] 1.947454e+12 1.696933e+12 4.395828e+12 -5.877052e+12 -8.475437e+11  
## [158,] -9.419075e+12 7.616407e+11 -1.168424e+13 1.613010e+13 -2.170184e+12  
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## [160,] 1.070981e+12 -8.064841e+12 2.417323e+12 -7.676381e+12 1.929383e+12  
## [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  
## [163,] -1.099921e+12 3.884747e+13 -2.018014e+12 8.241512e+12 1.133892e+13  
## [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  
## [166,] 1.196672e+13 -1.066237e+13 2.465568e+13 -1.935020e+13 3.620595e+12  
## [167,] 1.698063e+12 -3.098103e+13 3.358429e+12 -1.057860e+13 -2.153256e+12  
## [168,] 3.963842e+12 -1.057668e+13 1.344776e+13 -8.342862e+12 -3.766215e+12  
## [169,] 1.032470e+13 1.411038e+12 1.836393e+13 -4.729886e+12 8.537791e+12  
## [170,] -1.078603e+13 -3.681295e+12 -1.816149e+13 3.402435e+12 -7.317447e+12  
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## [172,] 1.210865e+12 -1.968467e+13 -7.014773e+12 -9.205159e+12 -1.202349e+13  
## [173,] 5.721495e+12 -5.280788e+12 1.313585e+13 -1.037621e+13 -1.675172e+12  
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## [175,] 8.298725e+11 6.523208e+12 -3.195247e+12 -6.384103e+11 1.890671e+12  
## [176,] -8.489761e+12 3.036520e+12 -1.297690e+13 6.561710e+12 -1.201223e+12  
## [177,] -5.821753e+12 -2.944509e+12 -1.164856e+13 2.263663e+12 -2.501137e+12  
## [178,] 8.246449e+12 2.205242e+13 1.941014e+13 -3.615072e+12 9.832422e+12  
## [179,] -6.150033e+12 -1.475402e+12 -1.196627e+13 5.980878e+12 -1.416742e+12  
## [180,] -3.912404e+12 -1.653305e+13 -3.717739e+12 9.030292e+11 -8.075951e+12  
## [181,] -1.511767e+13 -1.123774e+13 -2.565691e+13 1.389553e+13 3.159286e+12  
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## [183,] 7.560392e+12 -9.408809e+12 1.506997e+13 -9.306290e+12 -2.818927e+12  
## [184,] 2.539497e+12 -1.863222e+13 1.213949e+13 -1.027537e+13 -4.241696e+12  
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## [190,] 2.168320e+12 -2.497034e+12 1.609118e+13 -4.687059e+12 2.114203e+12  
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## [193,] -4.948837e+12 -1.021790e+10 -1.262642e+13 1.143302e+13 2.132139e+12  
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## [196,] 6.459679e+12 6.930424e+12 3.892019e+12 -4.744300e+12 2.070561e+12  
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## [2,] -2.261531e+13 -5.118625e+13 -1.139935e+13 4.491587e+12 1.327562e+13  
## [3,] -7.378291e+12 -3.333889e+13 -2.205508e+13 9.099601e+12 -1.115172e+13  
## [4,] 2.486668e+13 3.897745e+13 6.329347e+12 6.779982e+12 -2.227674e+13  
## [5,] -1.990772e+13 -3.604866e+13 -6.771988e+12 1.310129e+13 1.345717e+13  
## [6,] 9.726825e+12 5.535725e+12 -5.100498e+12 5.774855e+11 -6.335757e+12  
## [7,] -2.166606e+13 -5.048473e+13 -1.331281e+13 4.647081e+12 1.161642e+13  
## [8,] 3.466861e+12 -1.121462e+13 -1.497375e+13 1.302429e+13 -7.458181e+12  
## [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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## [16,] -2.709474e+13 -5.262167e+13 -1.280160e+13 -2.900442e+12 8.281782e+12  
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## [33,] -1.442951e+13 -2.313198e+13 2.095197e+12 -8.575349e+10 2.234986e+13  
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## [122,] -1.019538e+13 -1.288889e+13 4.131510e+12 -6.012380e+12 1.127845e+13  
## [123,] 3.079593e+12 1.497644e+12 -2.837923e+12 -1.333813e+12 -3.835614e+12  
## [124,] -1.373763e+13 -2.613343e+13 -1.387096e+13 1.182011e+12 3.461249e+12  
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## [129,] -1.020602e+13 -1.483570e+13 -5.564330e+12 -5.534107e+12 7.883422e+12  
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## [132,] 2.074226e+13 4.384616e+13 1.249112e+13 2.823573e+12 -6.471761e+12  
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## [135,] 4.955799e+12 8.419861e+12 4.101781e+12 4.599191e+11 4.584076e+12  
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## [88,] -4.591725e+12 -1.631761e+12 -4.912270e+10 -5.005777e+12 1.964998e+12  
## [89,] 4.040238e+12 2.022025e+11 -1.269154e+12 -5.198954e+12 -9.553521e+11  
## [90,] -1.148580e+13 -1.547250e+13 -1.546712e+12 -9.052961e+11 -5.074187e+12  
## [91,] -6.784180e+11 1.932527e+12 1.356407e+11 -1.907168e+12 -2.331337e+12  
## [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  
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## [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  
## [114,] -4.563900e+12 -2.736339e+12 5.692514e+12 -4.292111e+12 -7.420662e+11  
## [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  
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## [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  
## [123,] 1.567631e+12 5.834823e+11 -4.039773e+12 2.963733e+11 -2.904827e+12  
## [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  
## [127,] -4.862187e+12 -1.636612e+13 -6.226794e+12 -1.528977e+13 -5.692575e+12  
## [128,] 1.708918e+13 1.378239e+13 -3.200441e+12 5.065839e+12 1.246818e+12  
## [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  
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## [160,] -6.530940e+12 -1.881243e+12 4.044632e+12 -1.069266e+12 2.257090e+12  
## [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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## [171,] 8.971412e+12 4.259538e+12 -2.947204e+12 -2.834736e+12 2.672237e+12  
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## [176,] 1.049014e+12 8.390879e+12 -1.448767e+12 6.618739e+12 3.118648e+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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## [188,] -1.657793e+12 -3.491623e+12 1.544438e+12 -5.438381e+12 1.964982e+11  
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## [190,] -1.355351e+13 -9.639142e+12 3.313212e+12 5.452841e+11 1.060918e+11  
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## [195,] 8.871206e+12 -7.347472e+11 3.320186e+12 -4.999357e+11 -9.951142e+11  
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## [33,] 8.480229e+11 1.746742e+13 1.285297e+13 1.413279e+12 -7.671782e+12  
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## [42,] 3.801955e+12 -1.185539e+13 -1.742559e+13 -6.025164e+12 -4.916037e+12  
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## [21,] -8.243561e+12 1.224369e+13 -8.681508e+12 7.185113e+12 -7.764193e+12  
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## [23,] 8.055813e+12 4.101573e+12 -1.274563e+13 9.262149e+12 -3.418680e+12  
## [24,] 6.892952e+12 -3.070831e+12 -1.120759e+11 -9.208978e+12 6.352236e+12  
## [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  
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## [31,] 1.773411e+13 -5.646016e+11 -1.107959e+13 -1.744991e+12 7.643877e+12  
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## [187,] -3.478236e+12 -1.922856e+12 9.381081e+12 -6.643126e+11 -3.760641e+12  
## [188,] 2.901439e+12 -1.615678e+12 -6.463888e+12 4.582987e+12 4.170551e+09  
## [189,] -2.151049e+13 3.869946e+12 1.307047e+13 -1.208987e+13 -3.188861e+12  
## [190,] 9.534546e+11 8.277986e+12 -9.486538e+12 8.347033e+12 -1.214190e+12  
## [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  
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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  
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## [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  
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## [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  
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## [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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## [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  
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## [67,] 1.066652e+13 4.121065e+12 -7.247253e+12 2.549525e+12 3.920410e+12  
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## [141,] 1.209164e+13 7.238359e+10 3.715650e+13 8.257883e+11 5.300781e+12  
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## [156,] -2.439128e+12 -1.156826e+11 -2.150856e+13 3.952250e+12 -2.591662e+12  
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## [158,] -9.705786e+12 -4.624755e+11 -2.083067e+12 -1.650166e+12 -1.346734e+11  
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## [160,] 6.541099e+12 -2.811504e+12 9.275562e+12 3.939589e+11 5.594307e+12  
## [161,] -9.913082e+11 8.153877e+11 1.099109e+13 5.988311e+09 2.852635e+12  
## [162,] -4.846759e+12 -6.183117e+12 1.148003e+13 -2.327103e+12 1.152007e+12  
## [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  
## [172,] 6.245889e+12 -2.414937e+12 3.907854e+13 -2.545019e+12 8.166837e+12  
## [173,] 4.344462e+12 7.582079e+11 9.058679e+12 -2.377312e+12 2.623744e+12  
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## [179,] -7.853725e+12 -4.760938e+12 6.104056e+12 -6.097794e+12 -6.397172e+11  
## [180,] 3.140730e+12 1.043775e+12 1.698942e+13 3.308717e+11 4.089745e+12  
## [181,] -1.006570e+13 -3.807094e+11 6.937510e+12 -2.072225e+12 4.658889e+12  
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## [187,] -8.915603e+10 -1.790953e+12 -1.311366e+13 -4.142552e+12 5.545567e+11  
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## [189,] -7.572444e+12 -5.197370e+11 -3.961764e+13 -2.744439e+08 -7.025800e+12  
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## [192,] -3.709483e+12 3.916963e+12 -4.391460e+12 8.207080e+11 -6.605773e+12  
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## [197,] -7.475873e+11 7.380276e+12 -8.365540e+12 -8.506287e+11 2.336781e+12  
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## [3,] -2.698868e+13 1.815430e+13 -9.100157e+11 -4.767624e+13 2.655583e+12  
## [4,] -1.738193e+13 -2.377733e+13 -6.959135e+12 -4.231218e+13 2.421915e+13  
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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  
## [9,] 2.100041e+13 -5.369477e+12 -4.886488e+12 4.977074e+13 -9.675510e+12  
## [10,] 1.849730e+12 1.362029e+13 6.309049e+11 1.512577e+13 -2.086189e+13  
## [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  
## [14,] -9.685812e+12 3.207119e+12 -2.537212e+11 -1.651560e+13 9.858888e+12  
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## [20,] 4.865857e+12 9.115754e+11 -2.524159e+11 8.726661e+12 6.147844e+12  
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## [25,] -5.726322e+12 -4.267629e+12 -1.206534e+12 -1.642981e+13 9.073440e+12  
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## [30,] -9.552635e+12 7.615726e+12 -1.598211e+12 -3.924611e+12 -5.364606e+12  
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## [33,] 1.929044e+13 4.537148e+12 9.104746e+11 4.497354e+13 -2.071213e+13  
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## [36,] -5.261921e+12 -1.274693e+12 -3.202581e+12 -1.380175e+13 5.014234e+12  
## [37,] -8.451373e+12 -2.308115e+11 -2.573317e+11 -1.718795e+13 6.723214e+12  
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## [120,] 9.125419e+12 -2.408437e+13 -5.842968e+12 -1.821163e+13 2.448464e+13  
## [121,] 2.028326e+13 4.506922e+12 4.420344e+11 4.299958e+13 -1.414424e+13  
## [122,] 1.751763e+13 3.904550e+12 3.357062e+12 3.773936e+13 -1.160154e+13  
## [123,] -5.577558e+12 4.474336e+12 8.207416e+11 -8.124812e+12 3.151114e+12  
## [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  
## [133,] -2.654745e+12 5.474997e+12 1.737747e+11 6.366849e+11 8.547233e+11  
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## [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  
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## [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  
## [147,] 1.544777e+13 -1.628203e+12 5.077690e+12 6.490490e+12 2.604259e+12  
## [148,] -7.126860e+12 -4.457197e+12 -4.628663e+12 -8.744551e+12 6.836785e+12  
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## [153,] 2.943066e+13 -3.864790e+12 3.742614e+12 4.525902e+13 -9.442136e+12  
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## [155,] -1.965281e+12 -8.622629e+12 6.981895e+11 -2.315692e+13 1.147038e+13  
## [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  
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## [176,] -2.148494e+11 3.148635e+12 2.613407e+12 1.202410e+13 -7.614731e+12  
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## [41,] 3.406418e+12 6.947025e+12 3.895820e+12 2.448938e+12 -1.353425e+12  
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## [86,] 6.989146e+12 4.191943e+12 -2.057983e+11 -4.316130e+12 -4.623291e+12  
## [87,] -5.755338e+11 3.851287e+12 -5.701932e+12 5.846543e+10 -1.532651e+13  
## [88,] 1.643571e+12 7.151319e+12 1.371422e+12 -9.365566e+12 4.997261e+12  
## [89,] 2.981487e+12 1.073594e+13 -5.956829e+11 -3.599609e+12 -1.013711e+13  
## [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  
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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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## [112,] -3.750798e+12 -5.587751e+12 -9.582046e+12 9.783860e+12 -2.790185e+13  
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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  
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## [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  
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## [130,] 2.929176e+12 1.783658e+12 -7.220936e+12 2.140894e+12 -2.762162e+13  
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## [135,] -5.863241e+12 -3.955139e+12 -6.245040e+12 7.252443e+12 5.475880e+12  
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## [138,] 1.949654e+12 -3.805535e+12 1.420754e+12 9.541579e+11 -4.568026e+12  
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## [8,] 6.217540e+12 -3.045690e+12 1.874504e+12 -2.368112e+12 -9.635365e+12  
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## [38,] 1.587745e+13 -1.761159e+12 1.500173e+12 3.211416e+12 4.888467e+12  
## [39,] 6.407556e+13 -1.180529e+13 -2.780398e+12 3.664431e+12 2.524802e+13  
## [40,] 3.237139e+11 1.313074e+11 4.479364e+12 5.710181e+12 -4.613121e+12  
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## [55,] 1.878268e+12 2.711648e+12 3.587449e+12 1.224617e+13 8.974235e+12  
## [56,] -3.527874e+13 5.824244e+12 -9.447341e+11 -5.610283e+12 -6.624267e+12  
## [57,] 4.597790e+13 -4.719763e+12 7.361558e+11 4.653544e+12 1.582333e+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  
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## [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  
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## [93,] -5.374537e+13 4.643332e+12 -4.245850e+12 1.808204e+12 -1.454422e+13  
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## [23,] 8.895635e+12 -1.952843e+13 -1.188104e+13 -3.419721e+13 4.080319e+13  
## [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  
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## [30,] 1.513722e+12 4.622943e+12 4.994021e+12 4.286850e+12 -7.793689e+11  
## [31,] 1.334173e+13 -3.882141e+12 -2.737921e+12 2.241983e+12 2.970386e+13  
## [32,] -9.200480e+11 -1.047811e+13 -5.995150e+12 -1.513666e+13 1.507912e+13  
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## [185,] -3.339097e+12 4.995805e+12 5.172187e+10 3.352826e+11 -4.865181e+12  
## [186,] -3.297033e+13 2.616254e+13 2.509978e+12 2.737255e+13 -6.309068e+13  
## [187,] -2.115821e+12 9.638280e+12 4.256204e+12 3.339759e+12 -1.743949e+13  
## [188,] 3.588211e+12 -1.030922e+13 -4.010765e+12 -5.218065e+12 1.733810e+13  
## [189,] -2.028350e+13 1.540940e+13 5.487148e+12 1.925733e+13 -4.908529e+13  
## [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  
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## [,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  
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## [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  
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## [28,] 4.009616e+12 7.074566e+12 -5.510545e+12 8.541339e+11 2.120970e+13  
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## [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  
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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  
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## [41,] -4.432823e+12 -4.449202e+12 9.142593e+12 1.813100e+12 -2.670930e+12  
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## [43,] 1.075298e+13 8.572907e+12 -4.858145e+12 1.519070e+13 1.014657e+13  
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## [67,] 6.619090e+12 -6.856019e+11 -1.217829e+12 6.232205e+12 9.753011e+12  
## [68,] -1.086630e+13 1.912111e+11 1.562163e+13 8.948915e+12 -1.062453e+13  
## [69,] -1.995910e+13 -9.307197e+11 2.443254e+13 4.750998e+12 -6.739733e+12  
## [70,] -1.380395e+12 1.218388e+12 -9.969719e+11 1.495263e+12 1.497429e+12  
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## [136,] 1.447443e+13 5.171213e+12 -3.690448e+12 8.809699e+12 3.249647e+13  
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## [138,] -1.237403e+13 4.791543e+12 5.043607e+12 -4.896266e+12 9.296800e+11  
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## [152,] 5.076293e+12 4.842332e+12 5.910307e+12 1.120430e+13 1.992208e+13  
## [153,] 2.213119e+13 1.377511e+11 -2.872038e+13 -1.721171e+13 4.839244e+12  
## [154,] 1.426980e+12 -2.522586e+12 1.438729e+12 -5.898781e+12 -1.717569e+13  
## [155,] 4.440279e+11 -1.115279e+12 9.241483e+12 1.154119e+13 -3.667038e+12  
## [156,] 6.225140e+12 1.153144e+12 -7.309327e+12 -6.440042e+12 -1.251823e+13  
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## [158,] -6.005584e+12 -3.452891e+12 1.312699e+12 -1.201697e+13 -5.275255e+12  
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## [160,] 3.828669e+11 4.868532e+12 2.715317e+11 1.006939e+13 3.260458e+12  
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## [162,] -1.346211e+13 -6.596211e+12 7.229955e+12 -2.779106e+12 -7.192055e+11  
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## [164,] 9.609233e+12 5.254661e+12 5.224828e+11 1.473766e+13 1.472261e+13  
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## [191,] -2.077538e+13 -4.599897e+12 1.088679e+13 1.862136e+12 -1.029139e+13  
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## [119,] 4.730469e+12 -8.520652e+11 -6.722922e+12 1.118135e+13 1.376494e+13  
## [120,] 1.646145e+13 -6.160118e+12 -1.861073e+13 2.416695e+13 2.271798e+13  
## [121,] -1.589120e+13 -7.324594e+12 9.726025e+12 -2.552035e+13 -9.804571e+12  
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## [124,] -7.002294e+12 4.757659e+12 1.682725e+12 -3.457277e+12 -1.618243e+13  
## [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  
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## [86,] -8.496137e+11 -8.359591e+12 2.067700e+12 2.161322e+12 5.549616e+12  
## [87,] -6.047464e+12 -4.443734e+12 7.333589e+12 3.336067e+12 1.670929e+13  
## [88,] 1.708567e+12 -5.295589e+12 -3.493004e+12 -5.734275e+12 -4.873122e+12  
## [89,] -5.043296e+12 -3.416954e+12 -2.589565e+11 -2.470688e+11 7.608692e+12  
## [90,] 1.049978e+13 -2.858226e+12 -8.422695e+12 -9.206320e+12 -1.162229e+13  
## [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  
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## [97,] -6.165216e+11 4.041844e+11 6.093434e+12 -9.307757e+11 -2.356365e+12  
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## [115,] 4.771959e+12 1.254746e+13 -8.201700e+12 -3.971171e+12 -1.780960e+13  
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## [54,] 7.821711e+12 1.176961e+13 1.238320e+13 6.367889e+12 -1.168898e+12  
## [55,] 1.063674e+13 1.060879e+13 1.134293e+13 -3.801555e+12 1.372933e+12  
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## [58,] -1.001405e+12 -1.263442e+12 -2.317131e+12 -8.041774e+11 2.197283e+12  
## [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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## [63,] 6.796680e+12 9.056967e+12 1.099541e+13 -4.782282e+11 1.061223e+12  
## [64,] -1.169338e+13 -1.693271e+13 -1.479982e+13 1.178061e+13 -3.999138e+12  
## [65,] 1.170620e+13 1.673699e+13 1.918760e+13 1.973068e+13 -2.579456e+12  
## [66,] 5.174441e+12 -7.826905e+11 2.286521e+11 -7.882590e+11 -1.764096e+12  
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## [71,] -1.016327e+13 -1.171886e+13 -1.152034e+13 6.296600e+12 2.211710e+11  
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## [20,] -6.977793e+10 1.271615e+13 7.346351e+11 3.242814e+11 -2.100719e+12  
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## [22,] -1.459415e+13 -3.056375e+12 5.524456e+12 -4.126733e+12 1.303534e+13  
## [23,] -2.319019e+13 3.264609e+13 -1.195459e+12 6.535311e+12 8.674016e+12  
## [24,] 5.692221e+12 -1.693962e+13 4.685848e+12 -8.768032e+12 6.876178e+12  
## [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  
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## [185,] 9.311863e+11 -6.637280e+11 1.087942e+12 -9.402564e+11 -4.385330e+12  
## [186,] 4.099655e+13 -1.241337e+13 -2.916233e+12 -1.050144e+13 -1.738246e+13  
## [187,] 6.607753e+12 -1.082537e+13 4.019311e+12 -7.543060e+11 -2.609923e+12  
## [188,] -9.074057e+12 1.025994e+13 -1.062769e+12 3.732757e+12 1.437013e+12  
## [189,] 2.774020e+13 -2.188589e+13 1.594191e+12 -1.182244e+13 -1.106195e+13  
## [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  
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## [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]  
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## [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  
## [23,] -1.384466e+12 -4.479143e+12 8.690940e+12 1.622716e+13 6.378284e+12  
## [24,] -1.304451e+13 1.426383e+13 4.143336e+12 1.754348e+13 -3.243259e+12  
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## [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  
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## [31,] -1.783283e+13 1.165696e+13 4.426812e+12 3.197764e+13 1.575547e+12  
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## [33,] 1.996501e+13 -1.347327e+13 -1.489296e+13 -5.162217e+13 4.309118e+12  
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## [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  
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## [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  
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## [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  
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## [60,] -4.486159e+12 1.433121e+12 9.399945e+12 1.722273e+13 5.034644e+12  
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## [62,] -5.783188e+12 2.328195e+12 4.737325e+11 1.003892e+13 -8.038000e+11  
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## [68,] -1.569183e+13 9.707396e+12 9.716118e+11 2.625593e+13 -3.954257e+12  
## [69,] -1.341672e+13 1.522139e+13 6.735189e+12 3.208481e+13 -4.976748e+12  
## [70,] -2.041306e+12 -1.725007e+12 -1.305788e+12 1.022686e+12 1.325936e+11  
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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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## [162,] -3.001156e+12 3.761504e+12 1.902246e+12 5.390163e+12 -5.047407e+12  
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## [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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## [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  
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## [8,] 1.976006e+13 -2.402354e+12 1.671662e+12 -5.513148e+12 -1.424378e+13  
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## [120,] 1.002382e+13 -4.444972e+12 -1.263780e+13 -2.129315e+13 -2.502772e+13  
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## [122,] -2.681674e+13 1.366655e+13 7.997428e+12 1.291794e+13 2.614407e+13  
## [123,] 4.487405e+12 9.458552e+11 -3.362706e+12 -3.283866e+12 -9.663447e+12  
## [124,] 7.095943e+12 -6.003763e+12 4.151585e+12 1.360468e+13 -2.616696e+12  
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## [127,] 2.289966e+13 -1.259716e+13 -6.251850e+12 -1.230710e+13 -3.405637e+13  
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## [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  
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## [89,] -3.425758e+11 3.612934e+12 -9.602335e+12 5.711607e+12 3.422976e+12  
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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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## [57,] 6.431101e+12 2.388905e+11 -9.980958e+12 -1.682362e+11 -2.576142e+13  
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## [61,] -4.089020e+12 2.173750e+12 -4.255516e+12 4.747517e+11 -1.288609e+12  
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## [65,] 8.405971e+12 9.645533e+12 -1.042233e+13 4.722600e+11 -2.656904e+13  
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## [69,] 1.653240e+12 3.038519e+12 -4.054736e+12 1.257409e+12 1.431740e+13  
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## [22,] 2.479848e+12 -1.518561e+13 -1.502783e+13 -1.018173e+12 1.791273e+13  
## [23,] 1.645264e+13 1.260940e+13 -9.172578e+12 4.853352e+12 3.996144e+13  
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## [26,] 3.396931e+12 5.658812e+12 6.966257e+12 -5.234872e+11 -4.081767e+12  
## [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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## [187,] -7.854561e+12 -8.312438e+11 6.121168e+12 2.916053e+11 -1.601017e+13  
## [188,] 4.456002e+12 4.758299e+11 -7.979448e+12 2.549112e+12 1.003687e+13  
## [189,] -4.491425e+12 3.502696e+12 1.788826e+13 -4.711618e+12 -3.436510e+13  
## [190,] 1.002419e+13 6.895530e+12 -4.879776e+11 4.674860e+12 1.822865e+13  
## [191,] -5.101154e+12 -9.206304e+12 -1.016997e+13 -2.654412e+12 2.350083e+12  
## [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  
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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  
## [16,] -4.980878e+11 9.965293e+12 1.560813e+13 -2.889497e+13 4.444806e+13  
## [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  
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## [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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## [25,] 2.008460e+12 -8.830685e+11 -1.474727e+13 7.719461e+12 -1.823560e+13  
## [26,] -7.902804e+12 5.647255e+12 1.144101e+13 -5.909485e+12 1.029712e+13  
## [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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## [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  
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## [38,] -4.338313e+12 5.908858e+12 -3.206157e+12 -1.294608e+13 5.219147e+12  
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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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## [160,] 1.082107e+13 -5.480126e+12 -8.279829e+12 8.369941e+12 -1.054903e+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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## [6,] 1.654303e+12 9.745267e+12 -5.068785e+12 -8.631596e+12 1.705383e+13  
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## [8,] -1.273665e+11 4.522139e+12 -4.731112e+12 -8.983211e+12 1.010164e+13  
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## [120,] -1.242053e+13 3.573382e+11 -5.474899e+12 -1.944622e+13 9.242880e+12  
## [121,] 3.649677e+12 -1.193659e+13 8.757153e+12 9.319802e+12 -3.122280e+13  
## [122,] 4.698698e+12 -1.101705e+13 7.275882e+12 9.740049e+12 -1.952681e+13  
## [123,] 6.369155e+12 -3.642056e+11 7.322893e+10 -2.984610e+12 7.235857e+12  
## [124,] 1.233017e+13 1.079439e+13 2.412011e+11 5.455343e+12 4.324185e+12  
## [125,] -3.459887e+12 -7.186643e+12 3.893853e+12 2.570949e+12 -5.412297e+12  
## [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  
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## [132,] -9.369759e+12 -6.305228e+12 -1.991599e+12 -1.015161e+13 8.402377e+12  
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## [137,] -8.347628e+11 -1.829181e+12 -2.328622e+12 -9.238806e+12 3.816935e+12  
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## [146,] 8.537776e+12 3.039072e+12 -1.049144e+12 4.676943e+11 8.879919e+11  
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## [160,] -7.343234e+12 4.136397e+12 -3.004600e+12 -3.444047e+12 1.091550e+13  
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## [163,] -6.911055e+12 -1.803521e+13 8.560980e+12 1.315328e+13 -3.057691e+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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## [87,] -6.582618e+12 1.007169e+13 1.008361e+13 -1.053460e+12 -9.863621e+12  
## [88,] 1.596785e+10 -1.014477e+13 -1.253867e+12 -7.180218e+12 6.029536e+12  
## [89,] 2.272210e+12 -3.598078e+12 6.701726e+12 -1.142964e+13 2.227816e+12  
## [90,] 3.983231e+12 -1.955380e+13 -4.964531e+12 -1.080049e+13 7.871170e+12  
## [91,] 4.971583e+12 -1.467135e+12 6.666486e+12 -1.040665e+13 5.418965e+12  
## [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  
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## [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  
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## [126,] -3.052801e+12 8.749609e+12 1.742993e+12 1.042527e+13 -4.892250e+12  
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## [53,] 1.809412e+13 1.003864e+13 1.958472e+13 -1.801482e+13 2.879781e+12  
## [54,] -1.789433e+13 -9.242788e+12 -6.249297e+12 1.458318e+13 -5.617791e+12  
## [55,] -8.735507e+12 -4.614079e+12 -9.336964e+12 3.218816e+12 3.749410e+12  
## [56,] 1.854911e+13 9.668026e+12 5.426497e+12 -2.488859e+13 6.128704e+12  
## [57,] -2.482030e+13 -1.016332e+13 -7.704947e+12 3.037566e+13 -3.396032e+12  
## [58,] 1.225556e+12 9.171889e+11 -2.730553e+12 -2.191262e+12 3.655958e+11  
## [59,] -8.984896e+11 -3.683231e+12 -5.524751e+12 -1.801501e+12 -1.720150e+12  
## [60,] 2.142036e+13 2.278235e+12 6.273347e+12 -1.635226e+13 -2.083827e+12  
## [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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## [88,] 5.681537e+12 4.432575e+12 9.935458e+12 -8.892243e+12 -6.133132e+10  
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## [92,] 1.699193e+12 6.029573e+10 1.227935e+13 -2.746767e+12 -5.838365e+12  
## [93,] 2.158242e+13 1.109864e+13 6.997928e+12 -2.240160e+13 5.690753e+12  
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## [20,] 6.939168e+11 1.729092e+12 6.770616e+11 -6.209050e+12 -1.354316e+13  
## [21,] -2.426541e+12 8.074289e+11 -1.557124e+13 5.918012e+12 -3.449940e+13  
## [22,] 2.167506e+12 -5.638313e+12 1.671765e+11 5.733260e+12 3.589553e+12  
## [23,] -9.691059e+12 6.543250e+12 -1.470795e+13 5.855547e+12 -4.243454e+13  
## [24,] -5.409577e+11 -5.343782e+12 6.116515e+12 8.142183e+11 2.874734e+13  
## [25,] 1.071826e+11 -4.576434e+12 -2.039276e+12 3.679516e+12 -6.469549e+12  
## [26,] 7.921717e+12 2.977683e+11 5.425113e+12 -8.411435e+10 -4.068232e+12  
## [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  
## [29,] -5.521549e+12 3.828681e+12 7.957940e+11 -2.282171e+11 6.147202e+12  
## [30,] -3.171755e+12 1.742617e+12 5.563700e+12 -3.576668e+12 1.315398e+13  
## [31,] 1.029203e+12 -6.630378e+12 -4.971863e+12 2.979388e+12 6.575235e+12  
## [32,] -4.357131e+12 8.500073e+11 -8.264976e+12 3.050445e+12 -1.977029e+13  
## [33,] 7.540378e+12 4.819216e+12 1.373556e+13 -1.072811e+12 1.172252e+13  
## [34,] 9.562069e+12 3.152691e+12 9.821778e+12 -6.705461e+12 3.566758e+12  
## [35,] 6.220148e+12 -2.924868e+12 -4.131474e+12 5.184774e+11 -9.321577e+12  
## [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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## [45,] -4.675865e+12 -1.462524e+12 -3.323012e+12 -6.075814e+12 8.289226e+12  
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## [48,] -3.469805e+12 7.560170e+12 1.066425e+12 -6.335795e+11 1.979118e+11  
## [49,] -3.917982e+12 1.698623e+12 7.998314e+12 -1.348517e+13 1.776151e+13  
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## [70,] -3.938755e+12 -1.979328e+11 -1.308897e+12 -1.168672e+12 -9.292828e+11  
## [71,] -7.906349e+12 1.485335e+12 -7.385447e+12 -4.111928e+12 4.778862e+12  
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## [186,] 1.571272e+13 -3.982681e+12 2.057287e+13 5.122980e+12 2.499157e+13  
## [187,] -6.909937e+12 2.428356e+12 1.814685e+12 -4.497418e+12 8.217775e+12  
## [188,] -1.639081e+12 2.082807e+12 -7.150303e+12 4.175402e+11 -1.008502e+13  
## [189,] 9.571351e+12 8.567305e+11 1.420660e+13 1.724425e+12 1.809147e+13  
## [190,] 7.666743e+11 1.700457e+12 -5.957941e+12 1.596533e+12 -2.119925e+13  
## [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]  
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## [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  
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## [31,] -2.285433e+13 -1.669455e+12 -1.631974e+13 -1.381270e+13 1.880141e+13  
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## [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  
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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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## [56,] -1.339709e+13 -6.608994e+12 -5.267625e+12 -2.908811e+13 3.170228e+13  
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## [58,] -8.846398e+11 -1.853814e+12 9.529219e+11 -3.850954e+12 2.779658e+12  
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## [61,] 4.080686e+12 -6.292866e+11 4.021437e+12 -1.557665e+10 -9.168932e+12  
## [62,] -2.231593e+12 -9.822657e+11 -1.017630e+13 -2.436572e+12 4.613986e+12  
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## [164,] -1.062987e+13 -2.992909e+12 -3.175622e+12 -2.398137e+13 2.886087e+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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## [120,] -1.597423e+13 1.142001e+13 -6.949422e+11 3.407387e+12 1.447228e+13  
## [121,] 1.262983e+13 -4.333393e+13 8.036165e+12 7.082455e+12 5.547031e+11  
## [122,] 1.361663e+13 -4.031924e+13 4.604093e+12 1.089050e+13 9.335917e+11  
## [123,] -1.948488e+12 1.417134e+13 -4.430326e+12 -2.237722e+10 -3.942652e+12  
## [124,] 4.856582e+12 2.064309e+13 -3.435853e+12 -2.608475e+12 -1.542780e+13  
## [125,] 7.666415e+12 -2.516928e+13 4.080037e+12 5.653503e+12 4.536655e+12  
## [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  
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## [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  
## [135,] -9.906939e+11 -1.266100e+13 3.006132e+11 8.810851e+12 9.617815e+12  
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## [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  
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## [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  
## [145,] 3.468476e+12 -6.706261e+12 -1.331992e+12 3.161443e+12 -1.677098e+12  
## [146,] -2.819665e+12 1.025779e+13 -3.643434e+12 -5.502033e+12 -5.485650e+12  
## [147,] -5.580138e+11 -9.214254e+12 -1.225951e+12 3.999619e+12 -1.082506e+11  
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## [150,] -2.339392e+12 3.653662e+13 -1.547064e+12 -7.525684e+12 -1.010354e+13  
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## [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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## [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  
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## [164,] -1.140500e+13 4.094595e+12 1.322935e+12 -2.221779e+11 1.190912e+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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## [173,] -8.471677e+12 9.934966e+12 -1.306058e+11 -1.460788e+12 6.246696e+12  
## [174,] -9.402184e+12 1.081623e+13 -6.238582e+11 -4.279048e+12 5.641646e+12  
## [175,] 3.564257e+12 -1.756110e+12 -3.129185e+11 2.687007e+12 4.025224e+12  
## [176,] 8.085554e+12 -1.146130e+13 5.961310e+12 3.600150e+12 -4.184285e+12  
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## [191,] 1.768212e+12 2.979604e+13 -1.917361e+12 -2.605614e+12 -9.358940e+12  
## [192,] -2.427166e+12 -7.054831e+12 1.494025e+12 -3.934592e+11 3.776639e+12  
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## [194,] 1.506451e+13 -2.162634e+13 -7.682270e+11 5.520589e+12 -4.734950e+12  
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## [26,] 4.711662e+12 1.471689e+13 1.094122e+13 -2.415701e+12 9.358440e+12  
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## [40,] -5.940084e+11 -3.330062e+12 -1.261818e+13 -1.487673e+12 -3.317017e+12  
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## [73,] 6.163864e+12 3.338834e+13 2.130502e+13 -2.702945e+12 2.326204e+13  
## [74,] 6.609237e+11 1.692053e+13 2.715265e+13 3.003480e+12 5.474463e+12  
## [75,] 2.488109e+12 2.085395e+13 1.332697e+13 -4.375057e+12 1.567287e+13  
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## [79,] -1.410532e+13 -1.572612e+13 -2.286077e+11 1.239078e+13 -1.097320e+13  
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## [86,] 8.306088e+11 -1.655215e+13 -6.122381e+12 7.502063e+11 -8.192442e+12  
## [87,] 7.839012e+12 7.299422e+12 5.480202e+12 -8.437174e+12 8.964709e+12  
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## [90,] -1.007272e+13 -2.279130e+13 -1.447429e+13 8.257413e+12 -1.818759e+13  
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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  
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## [96,] 1.193520e+13 5.589856e+12 6.777200e+12 -1.483637e+13 1.246423e+13  
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## [103,] -1.166486e+12 1.223715e+13 1.504635e+13 -2.570665e+12 1.074959e+13  
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## [20,] 5.797145e+12 -8.087029e+12 2.927974e+12 1.807370e+12 -7.235468e+12  
## [21,] 8.785736e+12 -7.122182e+12 -3.853873e+12 -9.205806e+12 -4.485336e+12  
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## [23,] 1.134071e+13 -4.066196e+13 -2.465610e+13 2.815605e+12 -1.793987e+13  
## [24,] -9.387513e+12 -1.601537e+12 1.612439e+12 8.424083e+12 6.332345e+12  
## [25,] 3.276994e+12 -2.502445e+13 -1.812603e+13 1.014603e+13 -1.970008e+12  
## [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  
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## [29,] -1.348447e+12 2.070090e+12 -6.426379e+10 -2.504186e+12 -2.628685e+12  
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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  
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## [38,] -2.463869e+12 4.376049e+12 -6.322215e+11 -6.005808e+11 4.756001e+12  
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## [186,] 7.454953e+12 6.256291e+13 3.480319e+13 -3.152179e+13 2.923142e+13  
## [187,] -5.983073e+12 1.293083e+13 1.463575e+13 -4.709778e+12 -1.323645e+12  
## [188,] 4.605828e+12 -9.320461e+12 -4.896731e+12 5.585230e+11 -4.138141e+12  
## [189,] 7.891792e+11 3.610751e+13 2.493212e+13 -1.280889e+13 1.918975e+13  
## [190,] -7.170040e+11 -8.505436e+12 -1.337543e+13 -3.515525e+11 -1.598450e+12  
## [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  
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## [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  
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## [,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  
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## [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  
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## [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  
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## [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  
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## [26,] 1.904651e+12 5.554011e+12 -4.676131e+12 5.238116e+12 2.167985e+12  
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## [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  
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## [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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## [153,] 2.267347e+11 2.019974e+13 -1.936240e+13 1.710366e+13 5.818402e+11  
## [154,] 2.873685e+12 -4.200790e+12 -1.356617e+13 -1.377827e+13 -8.837528e+12  
## [155,] -1.820996e+12 -2.359734e+12 1.126614e+13 -4.213430e+12 6.089943e+12  
## [156,] 4.983426e+12 1.354683e+12 -1.824781e+13 -1.121710e+12 -9.943878e+12  
## [157,] -4.708681e+12 -1.203959e+12 4.462184e+12 7.448420e+11 5.637131e+12  
## [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  
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## [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  
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## [168,] -3.853182e+12 5.144172e+12 1.950441e+13 3.351183e+12 5.334244e+12  
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## [170,] 2.981514e+12 -9.308880e+12 -8.899026e+12 -1.227474e+13 -7.947205e+12  
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## [178,] -1.947808e+12 1.671310e+13 3.965144e+12 2.610878e+13 1.052364e+13  
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## [2,] 5.192557e+12 -5.994816e+12 -3.279987e+12 -2.973261e+13 6.300126e+13  
## [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  
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## [13,] -1.116600e+12 1.541459e+13 1.545294e+13 6.119274e+11 1.575924e+12  
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## [118,] 3.115527e+11 1.060508e+13 7.045439e+12 -1.334288e+13 2.362818e+13  
## [119,] -1.821036e+12 4.611497e+12 -2.461120e+12 1.591373e+13 -2.166210e+13  
## [120,] -1.625630e+13 8.834890e+12 -1.396795e+12 2.796662e+13 -5.779918e+13  
## [121,] -1.505527e+12 1.187879e+13 1.402623e+13 -2.746501e+13 4.273026e+13  
## [122,] -6.627077e+11 1.815363e+13 1.228846e+13 -1.498603e+13 3.364595e+13  
## [123,] 2.266903e+12 -2.712183e+12 -1.084933e+13 5.710322e+12 -6.985678e+12  
## [124,] 9.217492e+12 -2.186173e+13 -1.676543e+13 -1.344048e+13 2.311267e+13  
## [125,] 4.103885e+10 1.019975e+13 1.337238e+13 -1.161072e+13 1.448130e+13  
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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  
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## [72,] -1.162993e+12 -2.678961e+12 -9.504293e+12 -9.813022e+12 -9.605465e+12  
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## [85,] 1.101882e+12 2.015853e+12 -7.067114e+11 4.203682e+12 6.494345e+12  
## [86,] 1.371472e+12 -1.399826e+12 1.333511e+12 7.969498e+12 9.332639e+12  
## [87,] -4.149826e+11 2.536591e+12 1.087609e+13 1.798066e+12 -4.362046e+12  
## [88,] 9.844763e+11 -3.424668e+12 -3.366051e+12 3.427710e+12 7.622093e+12  
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## [90,] -4.320470e+11 -1.106434e+13 -1.504226e+13 1.886781e+12 8.930391e+12  
## [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  
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## [97,] 3.374297e+12 -2.006026e+12 -2.464286e+12 2.425731e+12 1.026849e+12  
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## [102,] 2.409244e+12 4.637721e+12 7.325316e+12 -4.759606e+11 -3.398166e+12  
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## [108,] 2.215392e+12 5.264843e+12 1.090319e+13 1.088239e+13 1.599261e+13  
## [109,] -1.414667e+12 -1.840637e+12 3.308712e+12 2.382397e+12 7.580099e+12  
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## [18,] 4.084331e+12 -4.019982e+12 -5.369960e+12 1.436802e+13 -1.489375e+13  
## [19,] 4.876098e+12 -4.755347e+12 -4.227003e+12 6.182745e+12 -6.452384e+12  
## [20,] -4.214833e+12 -1.618190e+12 -6.760835e+12 -2.457544e+12 -6.908877e+11  
## [21,] -1.325213e+13 1.232487e+13 4.253783e+12 -7.748371e+12 7.927441e+12  
## [22,] 9.114009e+12 -4.597340e+12 -1.637454e+12 -1.544483e+13 1.410569e+13  
## [23,] -2.528434e+12 6.735542e+12 -6.843859e+12 -1.316554e+13 2.079907e+13  
## [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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## [27,] 2.015360e+12 -2.306128e+12 1.139676e+12 -1.085104e+13 8.925873e+12  
## [28,] -2.193345e+11 6.755857e+11 -5.911711e+12 3.035495e+12 1.702147e+12  
## [29,] 8.852234e+11 -8.303158e+11 2.868726e+12 4.955750e+12 -1.491139e+12  
## [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  
## [36,] 8.444628e+12 -5.555551e+12 -8.643036e+12 -6.803407e+12 9.499560e+12  
## [37,] 4.460416e+12 -2.635529e+12 1.832273e+11 -8.082869e+12 9.901877e+12  
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## [40,] 4.203978e+12 1.640189e+12 3.740902e+12 -3.557822e+12 5.933735e+12  
## [41,] 3.696030e+12 -3.262614e+11 7.748946e+11 -2.869755e+11 3.931831e+12  
## [42,] 1.429892e+12 2.783731e+12 -4.820698e+11 -1.890376e+13 1.443929e+13  
## [43,] 8.215833e+11 5.701529e+11 -7.116530e+10 -1.248834e+13 1.124401e+13  
## [44,] 4.414377e+12 -3.995290e+11 -5.061883e+12 -7.662390e+12 7.012187e+12  
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## [69,] 1.121648e+13 -1.094386e+13 -1.072996e+13 -1.387468e+13 9.081786e+12  
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## [75,] -8.560117e+12 1.134312e+12 4.271503e+11 8.042797e+12 -1.238140e+13  
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## [182,] -1.054152e+13 3.229050e+12 1.222543e+13 1.642188e+13 -2.291395e+13  
## [183,] 5.051437e+12 -8.813054e+11 -6.509597e+12 -1.518750e+13 1.319837e+13  
## [184,] 8.539528e+12 -6.028263e+12 -8.412793e+12 -1.081378e+13 1.764928e+13  
## [185,] 1.919547e+12 -2.708581e+12 2.726073e+12 -1.410356e+12 -2.089275e+12  
## [186,] -1.684392e+13 8.840742e+12 2.123726e+13 2.723757e+13 -3.266278e+13  
## [187,] -2.110087e+12 -2.546605e+12 -2.202439e+12 9.124898e+12 -6.334019e+12  
## [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 20.64206 secs