

# BIOST 527 Final Project

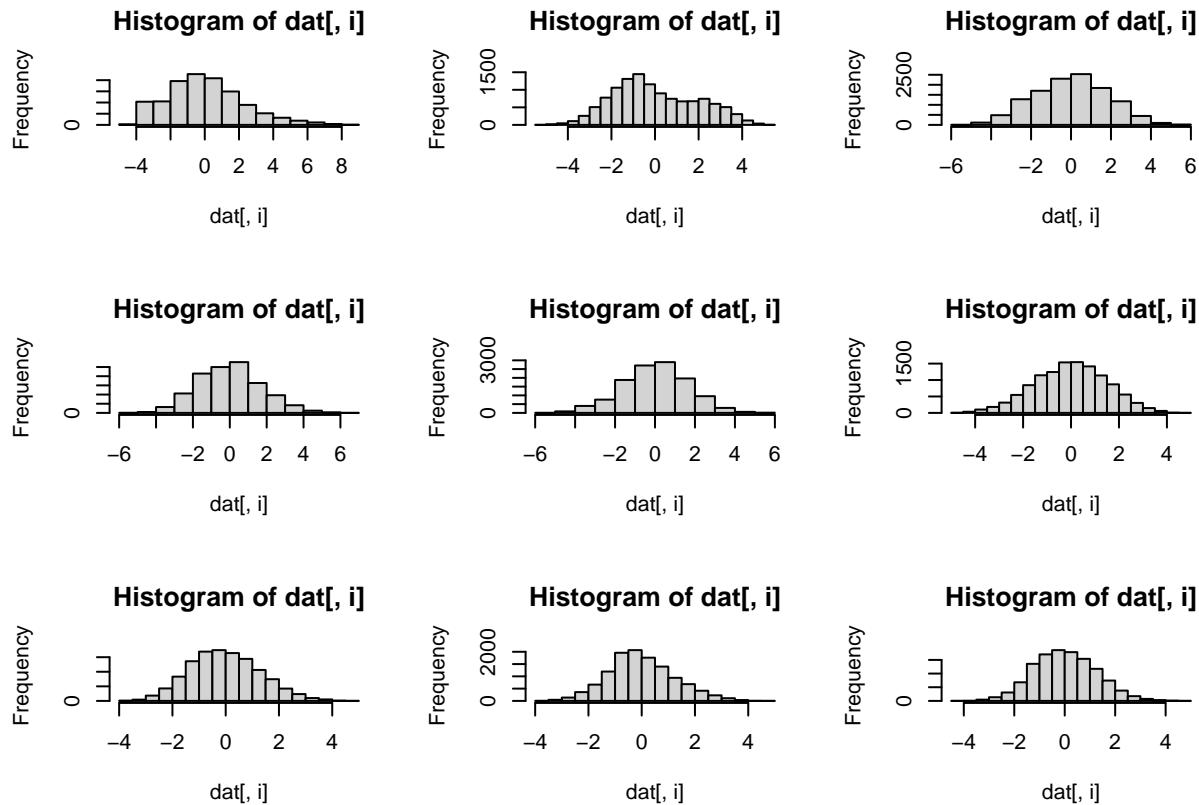
Yueqi Xu

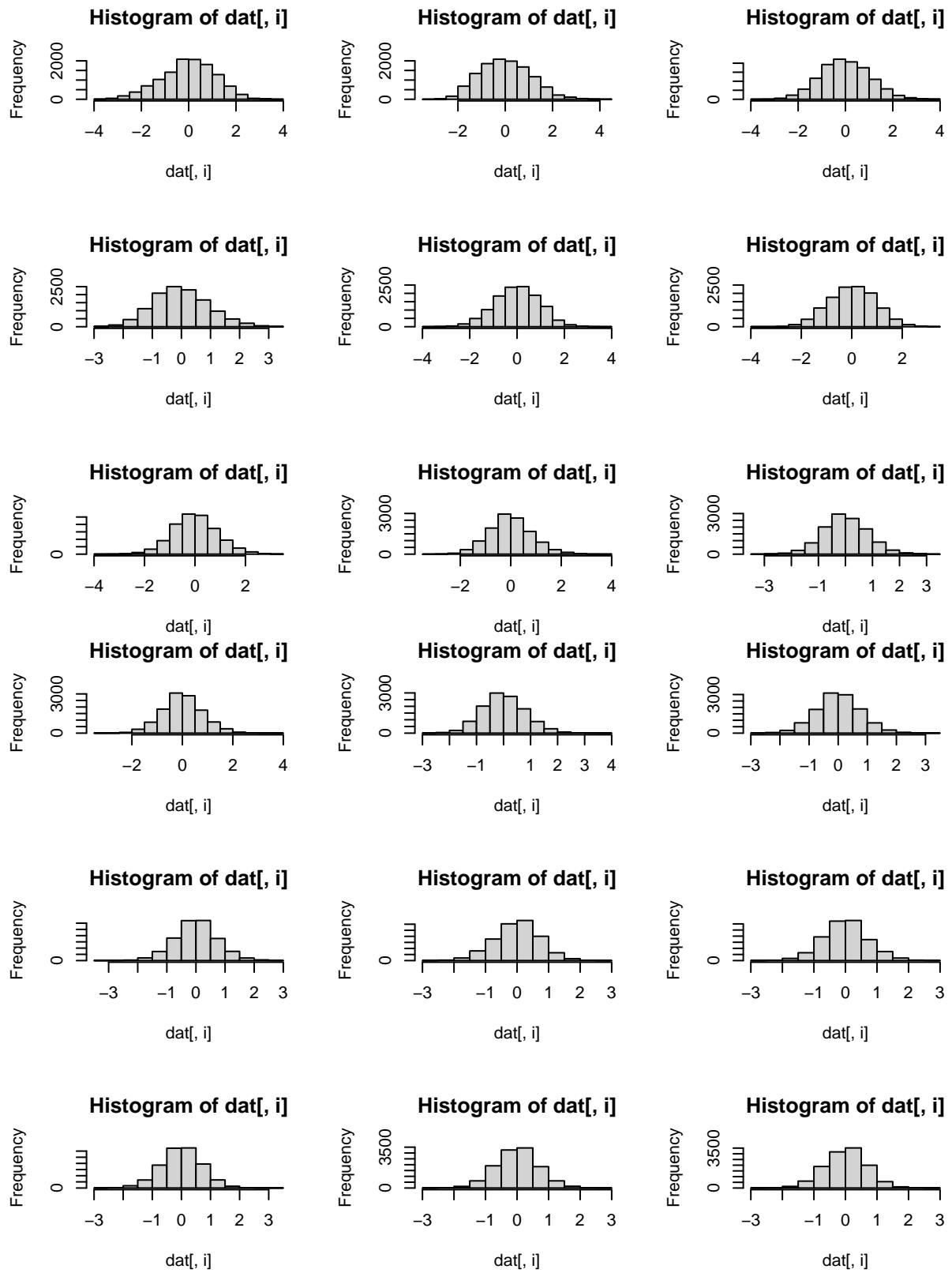
2023-05-20

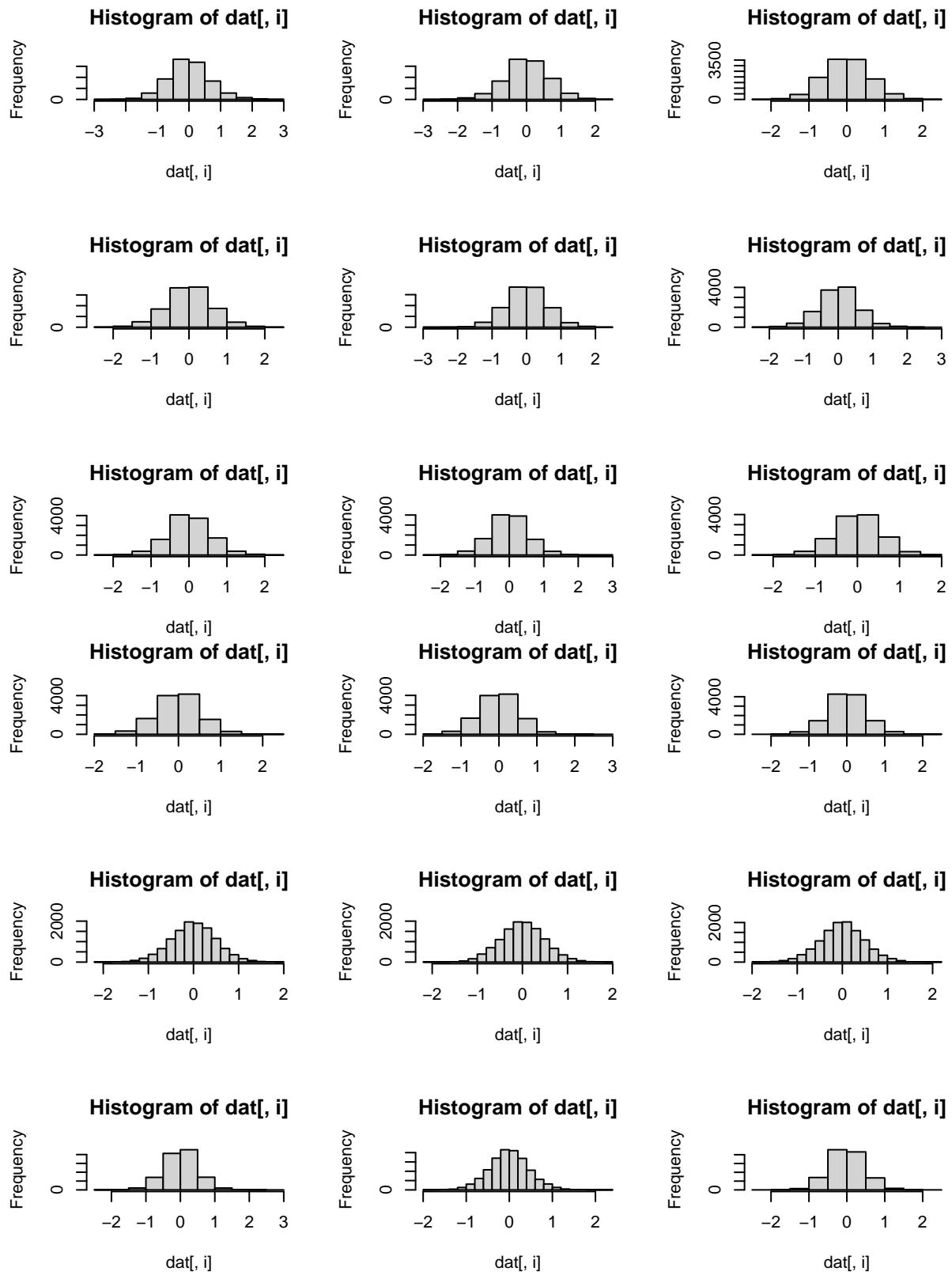
## 1 Data Processing

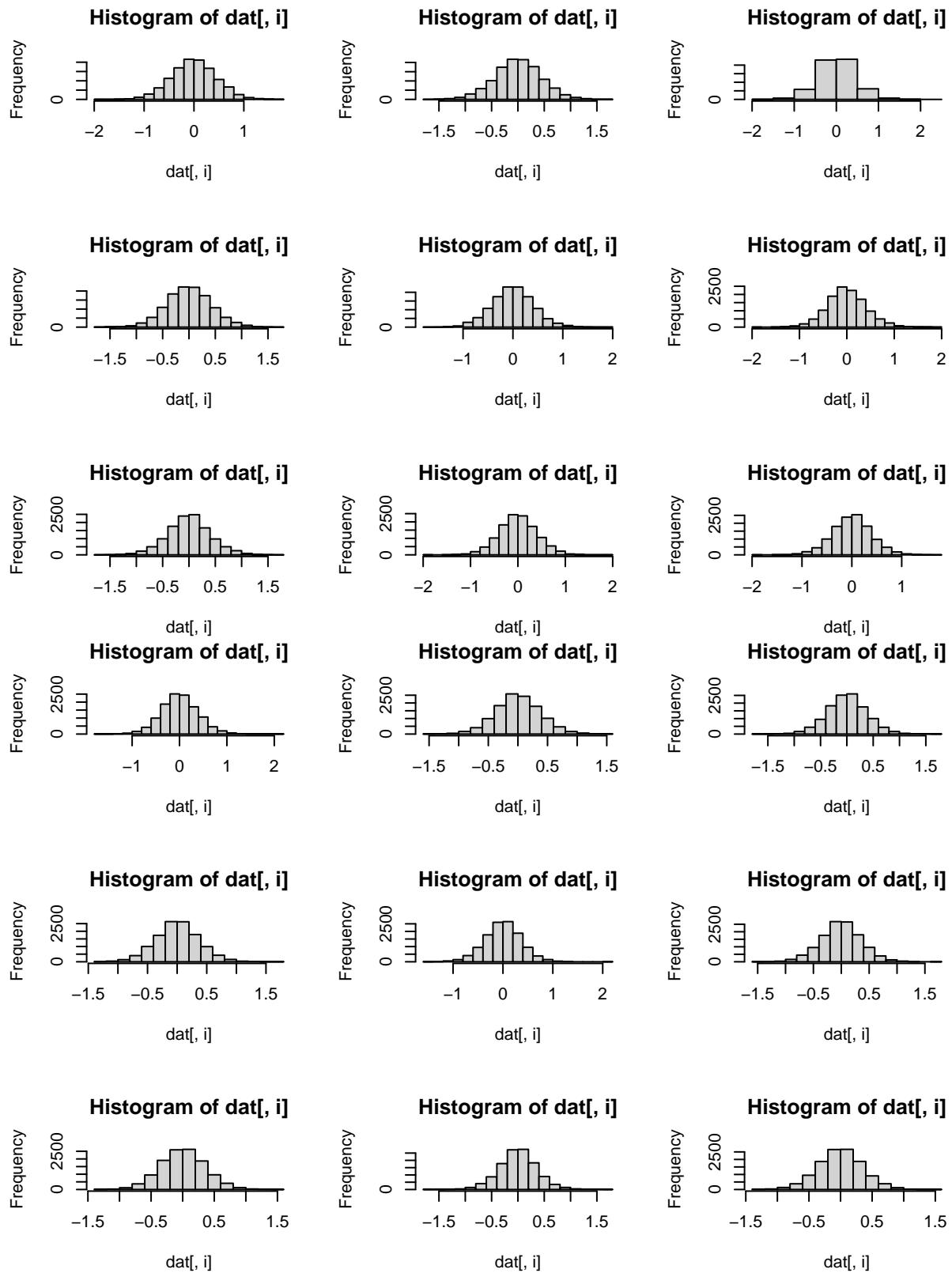
- No missings
- for each dimension, the data are approximately normally distributed
- From PCA: variance explained by each principal component decreases smoothly; no obvious elbow/turning point
- t-SNE: seems working
- No processing was done for hierarchical clustering.

```
## [1] 0
```









```

##          PC1          PC2          PC3          PC4          PC5
## [1,] -2.3754331696 4.284310e-01 3.137045e+00 -0.4031455186 -1.024905e-01
## [2,] -0.3297405652 9.711062e-01 1.540985e+00 -2.1305992981 1.002533e+00

```

```

## [3,] 0.2178860599 -5.798463e-01 9.131736e-01 -0.7384034239 -3.003045e+00
## [4,] 0.0588700158 -6.703524e-01 -1.411363e+00 0.3068250118 -4.353303e-01
## [5,] -0.6256050573 5.698743e-02 -3.750377e-02 0.2653505970 8.572031e-01
## [6,] 1.0810819371 1.498055e-01 -1.051382e+00 0.6272941175 -1.127635e-01
## [7,] -0.5688607478 -1.359014e-01 3.848425e-01 -0.7857196809 -4.080467e-01
## [8,] 1.7259356006 -8.069309e-02 -6.030917e-01 0.0974062435 -9.790082e-01
## [9,] -0.3976709731 -6.275840e-01 -1.470001e-01 -0.7411091818 1.523483e+00
## [10,] 0.5697834275 9.639215e-01 8.446899e-01 -0.5024617966 -1.315386e+00
## [11,] 0.1225464314 -2.055948e-01 2.652197e-01 -1.0322283312 -1.128265e+00
## [12,] 0.6431154351 6.034207e-01 -5.048435e-01 -0.1848869165 -1.599832e-01
## [13,] 0.6932177733 4.509241e-01 -4.919679e-01 0.5800962289 6.582245e-01
## [14,] -0.9670388484 -2.789924e+00 -2.954877e+00 1.5538945463 -7.610125e-01
## [15,] -2.2527380878 9.539191e-01 2.962336e+00 0.4260017013 9.101866e-01
## [16,] -1.5775618078 -2.845249e-01 -1.445354e+00 1.1724360559 -1.220377e+00
## [17,] -1.1228614279 1.137042e+00 -6.002753e-02 0.4306526283 1.034387e+00
## [18,] -1.9949245634 3.365476e-01 7.580648e-01 -1.2174431341 -4.386066e-01
## [19,] 1.1310972970 -1.904641e+00 -3.938845e-01 0.3961540664 3.867222e-02
## [20,] -0.0859233889 -1.557452e-01 6.528754e-01 -0.3281503653 2.922728e-01
## [21,] 0.7532488542 3.432546e-02 6.144458e-01 -0.0309211455 1.658144e+00
## [22,] -0.4628114094 9.857446e-01 -4.446049e-01 -0.3898962852 1.709033e-01
## [23,] -1.0938276067 5.492947e-01 1.569421e+00 0.2813283631 8.872087e-01
## [24,] -0.3486141115 -8.226889e-01 -2.955967e-01 -0.8326424097 6.724680e-01
## [25,] 1.2208339164 4.766195e-01 -7.058246e-01 -0.5903745889 -6.092156e-01
## [26,] -0.3206633247 1.866987e+00 5.569772e-02 -1.5153851896 -2.213933e+00
## [27,] -2.8080529056 -3.645704e+00 1.405027e+00 -0.1608542994 -2.693120e-01
## [28,] 1.6632845904 1.005044e+00 -2.798854e+00 -0.0210920958 -1.349037e-01
## [29,] -0.1965375272 9.913883e-03 -5.163022e-02 -0.0265258525 -2.923570e-01
## [30,] -0.2841128388 -1.332382e+00 2.028014e+00 0.1786384232 6.339325e-01
## [31,] -0.3902646259 -1.269673e-02 -9.777453e-02 -0.1896745367 -2.684975e-01
## [32,] 0.0648241180 1.435325e+00 7.353955e-01 0.5451504711 6.367144e-01
## [33,] -1.4686183260 -4.874294e+00 -1.299939e+00 0.6823143785 1.706917e+00
## [34,] -1.5810937378 -1.659119e+00 4.708766e-01 1.0180979685 1.487485e-01
## [35,] 1.1722215520 5.101420e-01 -7.730623e-01 1.7146500108 9.061682e-01
## [36,] 1.1533417076 -3.853425e-01 2.337535e-01 -0.4035269787 2.064177e+00
## [37,] 0.0268871887 2.526364e-01 -5.399871e-01 -0.1099959291 9.679787e-01
## [38,] 0.3132119206 -9.881186e-02 1.864240e+00 0.5734134029 1.222086e+00
## [39,] 0.1710034018 -2.822643e-01 1.983202e-01 0.6692937907 2.622792e-01
## [40,] 0.3999734756 1.298143e-01 -3.983140e-01 -1.3261137998 1.189537e-01
## [41,] 1.5065471262 1.385626e+00 -1.577673e+00 -0.3418789300 1.982483e+00
## [42,] 1.6500452108 -6.175158e-01 -9.040402e-01 -0.4897697718 -8.763514e-01
## [43,] 0.0267787215 -9.121678e-01 8.374040e-01 -1.4818876085 -2.157264e-01
## [44,] 0.8176210227 3.705546e-04 -2.633633e-01 -0.1730555218 -3.199546e-02
## [45,] -0.8872539542 7.265688e-01 8.748689e-02 -0.2730524513 -7.429415e-01
## [46,] 1.4647362181 -7.872348e-01 3.945910e-01 -1.5287774118 -7.471802e-01
## [47,] -0.9225436018 -6.627582e-01 1.071437e+00 -0.2293174232 8.869330e-01
## [48,] 0.3293710091 2.456015e-03 4.884366e-01 -0.5568083915 -9.659232e-01
## [49,] 0.8891211285 -1.401823e-01 -7.088336e-01 0.4661697102 -6.052605e-01
## [50,] -0.6033795863 -2.119912e+00 9.053221e-01 1.0077009266 -6.134139e-01
## [51,] 0.3106163361 -1.330981e-01 -5.808909e-01 1.3371391121 -3.769726e-02
## [52,] 1.1677729393 5.213764e+00 -3.085706e-01 -1.6856458515 1.157850e+00
## [53,] -0.0297262344 1.284959e+00 -2.407071e+00 -1.8684800169 1.429704e+00
## [54,] 0.4617483460 -2.117201e-01 1.198940e-01 0.3056068419 3.060662e-01
## [55,] -0.1869554107 1.295329e+00 5.937208e-01 -0.9625603436 1.630270e-01
## [56,] 0.0705484602 7.112322e-01 1.023836e+00 0.8356595458 3.509425e+00

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## [57,] -0.8724830982 3.243581e-01 -8.307498e-01 -2.3151388565 -2.114068e-01
## [58,] -0.6924280632 -4.891833e+00 -1.529738e+00 -0.1504906692 6.877500e-01
## [59,] -0.1576689663 2.222864e-01 -6.599557e-01 0.1679903509 -3.790667e-01
## [60,] -0.2110099510 4.312143e-01 -9.100211e-01 -0.3763025510 1.616608e+00
## [61,] 0.7900896291 -1.975481e-01 -5.457017e-01 0.9342174690 -2.234977e-01
## [62,] 0.3257004012 -1.019031e+00 5.809182e-01 -0.9843939684 -5.838500e-01
## [63,] 0.1079172058 -6.591046e-01 2.183270e-02 -1.6542019274 -2.268097e-01
## [64,] 1.3018302924 8.117954e-01 7.233296e-02 0.2581664989 2.417333e+00
## [65,] 0.3004141305 6.956890e-01 2.304996e+00 0.4577426431 -2.449290e+00
## [66,] 1.7303075213 2.486311e-01 4.899987e-01 -0.7870663849 -2.288060e+00
## [67,] 1.0770455924 1.109802e+00 -8.707042e-01 0.9156478643 -1.781792e-01
## [68,] -0.7912519790 1.589787e-01 -1.311244e-01 -0.1571999267 6.405132e-01
## [69,] -0.2591773438 -3.213191e-01 -5.374580e-01 0.2356244636 -2.629416e-01
## [70,] 1.0744449634 -6.335127e-01 6.292285e-01 0.1868870170 -5.472666e-01
## [71,] -1.8950663719 2.685845e+00 1.006042e+00 0.6040000677 5.867566e-01
## [72,] 0.4628506918 -1.248639e+00 -1.525395e+00 -1.3275972058 -8.664466e-01
## [73,] 0.2302056367 -8.185304e-02 1.573916e-01 -0.1230804123 -1.047099e-01
## [74,] 0.9560607682 -4.481706e-01 1.158250e+00 -0.7980863278 5.479580e-01
## [75,] 0.8074431116 -1.306894e+00 -7.156180e-01 -1.2595768536 5.446970e-01
## [76,] -0.5453355506 -2.208239e-01 1.490622e-01 -0.5772622616 -2.918203e-01
## [77,] 0.6350264128 -3.477264e-01 -1.785715e-01 0.8819599971 1.591766e-01
## [78,] -1.1129856502 1.609844e-01 -2.253469e+00 -0.0110026628 1.064406e+00
## [79,] 0.5862243830 -4.419012e-01 2.239533e-01 -0.5150343837 1.429783e-01
## [80,] -0.4670470022 4.948951e-01 -1.960567e+00 -1.0963800980 -1.059825e+00
## [81,] -2.5639726534 1.812876e+00 2.082024e+00 1.8708890558 -2.070397e-01
## [82,] 1.2419953208 -6.722071e-02 1.272089e+00 0.3021471454 1.541476e+00
## [83,] -0.1761395797 -3.129010e-01 -6.080878e-01 1.0712653472 3.535998e-01
## [84,] 0.2831122823 -3.525828e-01 -5.772438e-02 0.5357101386 8.444499e-01
## [85,] -0.0979455540 2.086790e+00 6.298003e-01 0.1569614109 -3.456836e-01
## [86,] 0.4568899650 1.280998e+00 3.569670e-03 -1.3359133863 1.659783e-01
## [87,] 1.4374170894 4.100323e-01 -8.737662e-02 0.3164927549 4.819770e-01
## [88,] 1.2995418669 -1.025268e+00 1.953378e-01 1.3269891391 -2.408793e-01
## [89,] -0.4247508883 1.420258e-01 5.272849e-01 0.4858359806 -8.702369e-01
## [90,] -0.3552772575 1.027603e+00 -1.277784e-01 1.1246335114 -1.956306e+00
## [91,] -0.3420050988 -1.714482e+00 1.665553e+00 0.3279283013 6.342008e-02
## [92,] -0.3075976497 -8.283071e-02 -1.318079e-01 0.1252484260 -9.260239e-02
## [93,] 2.2651591777 1.174667e-02 1.669874e-01 -0.0809589984 6.980970e-01
## [94,] -1.0437855731 -6.359995e-01 -8.395986e-01 -0.2589244199 1.573031e+00
## [95,] -1.2131581991 -1.066096e+00 2.326320e-01 0.3797646091 6.063691e-01
## [96,] -1.4000545032 2.481156e-01 -6.993269e-01 -1.8151934504 7.598046e-01
## [97,] 2.6256818001 -1.272882e+00 8.258082e-01 1.1900222642 -1.100080e+00
## [98,] -2.1335913744 -8.981896e-01 -5.436086e-03 -0.4570103914 -1.299945e+00
## [99,] 1.2707837517 4.750602e-01 -2.804804e-01 0.2133022038 1.026507e+00
## [100,] -0.9467629695 1.698282e+00 -8.854715e-01 -0.5334103743 -8.407889e-01
## [101,] 1.0197162854 -7.230000e-01 2.172833e-01 0.0961805068 -1.539600e-01
## [102,] 1.5399513970 -1.289649e+00 6.691108e-01 -0.0107356191 -8.278117e-01
## [103,] 0.2487871842 6.669931e-01 -2.240637e+00 -0.4335748206 5.776862e-02
## [104,] 1.2153826522 3.737074e-01 2.158283e-01 -0.8856113936 4.444243e-01
## [105,] -0.7958615379 -9.122128e-01 -1.600997e+00 0.2303519735 6.391091e-01
## [106,] -0.3719653906 1.144568e+00 -4.476607e-01 -0.5995890188 -6.749467e-01
## [107,] 1.0451557041 -1.346841e+00 -3.284788e-01 -0.4006866151 2.518990e-01
## [108,] -0.0028347304 -3.691858e-01 -9.536717e-01 -0.5978153853 4.821763e-01
## [109,] -1.7551392438 -4.721130e-01 -1.144241e+00 0.7443730542 1.141338e+00
## [110,] 1.8581015960 -2.660658e-01 1.389104e-01 -1.4504005321 -1.410439e+00

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## [111,] 0.7369203342 -9.159957e-03 1.245156e+00 -1.1158630955 -8.612474e-02
## [112,] 0.0944511801 -1.178310e-01 1.249483e-01 0.5203553459 -9.337924e-01
## [113,] 1.9321037221 1.373690e+00 2.026533e-01 1.3865505572 1.444810e+00
## [114,] 1.0277969470 1.471817e+00 -7.050267e-01 -0.3274802008 3.524233e-01
## [115,] -2.4738200378 -1.853461e+00 1.750618e+00 0.1333246885 9.080136e-01
## [116,] -0.1228640763 1.957520e-01 -3.268724e-01 0.2317217734 -4.169339e-01
## [117,] 0.8516350240 -1.138395e+00 9.031551e-01 1.7313511147 -7.325314e-01
## [118,] -0.0635934090 -5.246051e-01 -4.766344e-01 1.1516212123 1.179354e-01
## [119,] 1.3252945811 6.139766e-01 -8.134738e-01 0.6439492839 -1.262257e+00
## [120,] 0.2612977396 5.116675e-01 5.134495e-01 1.1492065617 2.689072e-01
## [121,] -0.4234503694 1.152632e-01 -3.738257e-01 -0.0405669530 4.516489e-01
## [122,] -0.0124348133 -7.165450e-03 -2.609118e-01 0.0044013577 1.436083e-02
## [123,] -0.5530905808 -1.042626e+00 5.900969e-02 -1.4825895875 1.296365e+00
## [124,] -0.1059571366 -1.347133e+00 2.742001e-01 1.3553149250 -8.662299e-01
## [125,] 0.1495741579 -8.681045e-01 -1.023260e+00 0.2140482894 -1.105172e+00
## [126,] 0.4737982534 -7.528485e-01 4.270906e-01 -0.4359576205 -8.533153e-01
## [127,] -0.0158969910 -1.191783e-01 -1.790072e-01 -0.0815891405 -2.229609e-01
## [128,] 0.2018524992 1.160508e+00 -6.167734e-01 0.1574793441 -5.195277e-01
## [129,] -0.0654360126 8.129248e-02 -7.757398e-01 2.1199211082 -3.276664e-01
## [130,] -0.2312094839 1.091311e+00 -9.826933e-01 0.4030273872 -1.262489e-01
## [131,] 1.3147995011 2.859019e-01 -1.290281e+00 0.6222749685 1.146991e+00
## [132,] -0.6423994895 -2.160028e-01 8.914997e-01 2.0285887091 -9.808480e-02
## [133,] 0.7730940934 8.157920e-01 -2.312858e-01 -0.5255599085 6.929757e-01
## [134,] -2.1407374176 -2.473818e+00 -1.015844e+00 0.4542250326 3.739178e-01
## [135,] -0.5801417940 2.779759e-01 -1.015976e+00 0.0974444014 9.073550e-01
## [136,] 0.6861373306 -2.137940e-01 2.008171e-01 0.4162317231 4.390843e-01
## [137,] 2.1357780031 -5.160216e-01 -6.364007e-01 0.4185511068 1.418423e+00
## [138,] 0.6085380465 1.335526e-01 -2.110544e+00 0.1137249240 -7.913325e-01
## [139,] 0.0438229179 -1.353272e-01 7.586095e-01 -0.3404652446 3.540381e-01
## [140,] -1.9237402926 -9.513306e-01 1.803387e+00 -0.2936848469 -4.169236e-01
## [141,] 0.3288678862 -4.804730e-01 7.085617e-01 -0.5851039295 1.588950e-01
## [142,] 1.7001874643 -1.250138e-02 -1.466227e+00 2.4960387413 1.719883e+00
## [143,] -1.0090566195 6.543947e-01 -5.062089e-02 1.4238493650 1.860740e+00
## [144,] -0.4026431898 -1.166254e-01 5.206686e-01 -0.6670767208 -2.807495e-01
## [145,] -1.6210528085 1.467799e+00 3.008192e-02 0.3965332496 -3.703367e-01
## [146,] -0.6661423788 5.807292e-01 -1.477923e+00 0.4644614047 -3.546280e-01
## [147,] 0.1537840087 -4.797719e-01 4.868408e-01 -0.3829946880 4.595729e-01
## [148,] 0.0595664392 -1.183735e+00 -1.470988e+00 0.2961475929 2.006845e+00
## [149,] -0.5413547473 -2.599076e-01 3.390036e-01 -0.4268619591 8.393488e-01
## [150,] 1.5729033435 -1.324946e+00 1.289771e+00 0.7299747307 1.520698e+00
## [151,] 0.7189108600 1.773758e+00 -9.938310e-01 -0.3663862868 1.991247e+00
## [152,] -1.2259894955 -2.015824e+00 -3.711613e-01 1.4180514156 -8.270301e-01
## [153,] -1.6106178552 -6.927374e-01 3.204184e-01 0.2257625641 -6.949471e-01
## [154,] -0.0581633143 -3.359455e-01 1.626238e+00 1.3468948319 1.123958e+00
## [155,] -0.5455148184 -2.114092e-01 2.970103e+00 -1.7871036599 1.716193e+00
## [156,] 0.1464145777 5.315887e-01 -5.979082e-01 -1.3430691788 -2.501392e-01
## [157,] 2.1319821775 1.490248e+00 -1.302998e-01 0.8339499016 2.342482e-01
## [158,] 0.0106015921 -3.320925e-01 8.816656e-02 -0.3454077031 -1.565325e+00
## [159,] 0.2269680807 -2.598083e-01 2.347879e-02 -0.5028664945 -2.600631e-01
## [160,] 0.9240082298 -1.121075e+00 3.559859e-01 -0.7836015893 -6.540427e-01
## [161,] -0.0771824888 -2.695451e-01 -4.132342e-01 0.9325268924 -1.279418e+00
## [162,] 1.0991485166 -2.278602e+00 -4.132024e-01 2.0715716840 2.156477e+00
## [163,] 0.5098806671 -1.404657e-01 9.279369e-02 0.7072552358 -5.393979e-01
## [164,] -0.1523991885 7.914982e-03 5.580801e-02 -0.3588357080 6.744041e-02

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## [165,] -2.1834979869  1.723784e+00 -8.865637e-02  1.3874438242 -3.585335e-01
## [166,]  0.5161577519 -4.790618e-01 -1.367771e+00 -0.5662849292  1.440647e+00
## [167,]  0.6988052508 -4.109640e-01  1.630486e+00 -0.4367504898  3.644052e-01
## [168,]  0.6489216147 -3.544351e-02 -5.761821e-01 -2.1986466890 -1.359413e+00
## [169,]  0.2260141613  1.421552e+00 -2.580823e+00 -0.0179496720 -9.481962e-01
## [170,]  0.1442416360 -4.550084e-01  7.081994e-02 -0.5273509312 -2.427505e+00
## [171,]  1.2516175930 -3.632615e+00 -1.398812e+00  2.8748629465  2.092940e+00
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## [178,] -0.6317961001  3.176832e-01  7.537454e-02 -0.6617148015  2.947516e-01
## [179,]  1.0727523479 -3.340248e-01 -5.910757e-01  0.8775997758  4.491775e-01
## [180,]  0.0003128142 -1.536064e-01  7.891274e-02 -0.2169279669 -7.686442e-02
## [181,] -0.2987230566 -1.669085e-01  2.532298e-01 -0.2881293925 -1.513538e-01
## [182,] -0.8955453650 -1.866366e-01  4.597958e-01 -0.4508100783 -7.293549e-01
## [183,] -1.3717426136 -8.956647e-02 -1.171702e+00 -0.3719380290 -5.929338e-01
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## [196,]  0.4585052328 -6.161642e-01  7.594085e-01 -0.3964324943 -1.886089e+00
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## [214,]  0.4039409522  2.823718e-01  4.582844e-01  1.0395807791  5.789470e-01
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## [349,] 0.9740021543 -8.802241e-01 -4.000960e-01 1.8654521733 -2.039624e+00
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## [351,] -0.7018657634 6.563589e-01 -5.170699e-01 -1.2679642208 -5.014056e-01
## [352,] 1.3506657638 -4.153054e-01 1.256489e+00 -1.6458465657 -2.202776e-01
## [353,] -0.3662651190 -2.044416e-02 -1.330948e-01 0.9439095786 -6.313775e-01
## [354,] -0.4336522469 1.206252e-01 -1.992755e+00 1.7940130012 7.546588e-01
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## [356,] 0.7740495522 1.323864e+00 4.346948e-01 0.8325081926 -1.372394e-01
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## [396,] -1.3941429371 -1.832361e+00 -1.009455e+00 -0.9052975438 -9.097109e-01
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## [447,]  1.7137262458 -5.743833e-01 -5.731090e-01 -1.0387862807  8.665507e-01
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## [489,] -0.5069497943 1.201506e+00 -1.237707e-02 2.2877365484 -1.245950e+00
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## [705,] -0.5112401057 -1.426437e+00 9.685363e-01 -0.2968620698 3.195032e-01
## [706,] 0.5210972216 -4.003545e-02 3.617611e-02 0.3326867004 5.132623e-01
## [707,] -0.2713225749 3.148326e+00 -2.941624e-01 -1.9081296737 1.527553e-01
## [708,] -0.7483148585 -7.159034e-01 3.481268e+00 0.7398517224 -3.401215e-01
## [709,] -0.3366494676 -8.463011e-01 -5.540153e-03 0.6452150904 -5.369243e-02
## [710,] 0.7543066568 8.197798e-01 2.443058e-01 0.4701721219 8.527771e-01
## [711,] -0.5704056516 1.472188e+00 -8.491541e-01 -0.0044612619 -4.042978e-01
## [712,] -0.6120459789 4.893891e-01 3.788584e-01 0.1273544866 -1.902039e+00
## [713,] 1.5054179207 4.279558e-02 5.292799e-01 -0.1858755068 1.529449e+00
## [714,] 0.4398347038 -4.498883e-01 -9.904228e-01 -0.7046635860 -4.451228e-01
## [715,] -0.3109087264 9.973463e-01 -2.796775e-01 0.3157218003 1.554699e+00
## [716,] 0.8334608822 2.028592e-01 -5.633036e-01 -0.1692600058 -2.819764e-01
## [717,] 1.2367227417 -1.252490e+00 9.194526e-01 -0.6812611787 1.170484e+00
## [718,] 1.8593980228 -1.944568e-01 -9.244536e-01 -0.6927752697 -1.371788e-01
## [719,] 0.2648464332 -3.337337e-01 4.646991e-01 -0.9415113010 -8.535868e-01
## [720,] -0.8175377155 -1.478793e-01 -4.818957e-01 0.1567408274 -1.560708e-01
## [721,] -1.5114265916 1.032665e+00 7.934656e-01 -0.0427754420 3.321812e-01
## [722,] -0.2486695870 2.697740e-01 1.362203e-01 1.2706110312 1.813582e-01
## [723,] 0.2944046088 -9.999253e-01 -7.090507e-01 1.0252626623 1.175513e+00
## [724,] 0.3494235283 5.883392e-01 4.211843e-01 -2.2547984047 2.819168e+00
## [725,] -0.6244628754 2.067019e+00 5.374059e-01 -1.2496273683 8.980921e-01
## [726,] -0.0158458896 1.073033e+00 -6.690742e-01 -0.4447522124 7.802571e-02
## [727,] 0.8315953634 4.218611e-01 -2.425798e-01 -0.7535044278 6.756868e-02
## [728,] 0.5939938864 5.346193e-02 3.028016e-01 0.5170135608 3.600784e-01
## [729,] -0.0445880531 -8.537846e-02 3.778021e-01 -0.4364653946 1.921839e-01
## [730,] -2.2609951512 -1.344207e+00 2.765240e+00 -0.4347121293 -8.063519e-02
## [731,] -0.5170597441 1.125673e+00 3.650572e-01 -1.4910810241 -5.683459e-01
## [732,] -0.3138075846 -1.709694e-01 -6.117537e-01 0.8644644483 2.595298e-01
## [733,] -1.6550614426 -6.445846e-01 -3.197217e-01 0.0198368019 4.648049e-01
## [734,] -0.1497532566 -2.356671e-01 3.546047e-01 -0.8270934777 2.094049e+00
## [735,] -0.5332885269 9.515357e-01 -5.822757e-01 -0.2700152330 7.494927e-02
## [736,] -0.6408677819 1.105789e+00 1.013930e-01 -1.2464830220 8.663232e-01
## [737,] 0.1283851246 -3.502295e-01 -9.620109e-01 -0.6981018725 1.245784e+00
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## [739,] 0.0806240890 7.864447e-01 -2.656086e-01 1.5167998882 2.469450e-01
## [740,] 0.3391860207 2.002192e-02 2.759931e-01 -0.0195421692 5.708330e-01
## [741,] 0.3611123528 -6.397512e-01 5.234807e-01 -0.7997265766 -2.090686e-02
## [742,] -0.6604887857 -4.935466e-01 -7.536611e-02 -0.9557400021 6.028759e-01
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## [744,] -1.6325251769 -9.021273e-01 2.018301e+00 -0.9367343940 1.237843e+00
## [745,] 1.1732388363 1.418528e+00 -5.052084e-01 -0.7449561951 -1.556698e+00
## [746,] -1.0567139571 1.424436e+00 -1.107981e+00 -0.9122381479 -1.058285e+00
## [747,] -0.0916564127 7.131899e-01 -8.891978e-01 -0.4102688834 5.392429e-01
## [748,] -3.6866682737 -4.422832e+00 -1.091932e+00 1.0217412580 2.796856e+00
## [749,] -0.0788657838 1.039370e+00 -3.791416e-01 0.3799275749 -8.625320e-01
## [750,] -0.1725664722 -8.677496e-01 -5.891512e-01 1.3195420322 -1.337972e+00
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## [753,] 2.3085046364 -8.243762e-02 -4.003919e-01 1.7878331426 1.401490e+00
## [754,] -1.0265547659 1.356481e-01 6.972121e-01 -2.0326312294 -9.884988e-02
## [755,] 0.5679802955 4.792955e-01 5.443023e-01 0.8717602488 -2.655784e+00
## [756,] 0.8067580800 -5.141165e-01 1.189742e-01 0.1348583559 5.890024e-01
## [757,] -2.6456582791 1.053944e+00 -5.110282e-01 0.6043329844 -1.183294e+00
## [758,] 0.4487160803 -1.869689e-01 7.740208e-02 0.0643034614 4.397640e-01

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## [759,] -0.2018473541 -1.068306e+00 9.627265e-01 -1.8617840024 -2.996709e-01
## [760,] 0.2138280170 2.286720e-01 -8.813247e-01 0.1905739004 -2.261477e-01
## [761,] 0.7610483742 -9.237636e-02 1.644317e-01 0.0512775312 3.519676e-01
## [762,] -0.0493032887 -2.200019e+00 -4.045006e+00 -0.1611716903 1.206374e+00
## [763,] -0.6687415766 -9.885730e-01 2.249747e+00 0.6672017374 7.046304e-01
## [764,] 0.8393791592 5.848109e-01 -4.933637e-01 -0.1804650610 1.900730e-01
## [765,] -0.0470638833 -8.326449e-02 -5.330122e-01 -0.0355595634 -3.400761e-01
## [766,] 1.1589510511 -2.400319e-01 7.745981e-01 -0.7153333693 4.189835e-01
## [767,] 1.3076679981 2.138162e+00 2.458372e-01 0.6007829320 9.728385e-01
## [768,] 1.0029821859 -2.561953e-01 -7.031161e-02 0.1057796803 5.222363e-01
## [769,] -0.6747533424 -2.571932e+00 -1.269685e+00 -1.2462405937 -4.339054e-01
## [770,] 0.5917242245 5.895519e-01 9.756458e-01 -0.6316907735 5.867899e-01
## [771,] 0.0316791806 -6.546366e-02 5.489328e-01 -0.3181618459 -2.473743e-01
## [772,] 0.6492572307 -3.284391e-01 7.948950e-01 -1.6651885278 -3.383394e-01
## [773,] 1.7359251163 1.038962e+00 5.047044e-01 -0.5944399941 -8.479452e-01
## [774,] 1.1774885205 -9.086534e-01 1.204513e-02 0.3954865788 -3.177261e-01
## [775,] -0.6940341107 1.905471e+00 2.734966e+00 1.2923985958 8.509505e-01
## [776,] -0.2697809715 1.241364e+00 1.286552e+00 -0.5514575035 -1.200888e+00
## [777,] -2.3540592231 -6.677878e-01 -3.129999e-01 0.4208089205 -1.374695e+00
## [778,] -0.7305140558 -1.556823e+00 1.587806e+00 -0.4052235254 3.500125e-01
## [779,] -1.7373172555 2.954002e-01 1.369497e+00 1.5265843389 -8.153477e-01
## [780,] 0.5223142418 -7.715395e-03 1.495881e-01 -0.2931573487 2.405237e-01
## [781,] 2.8569362117 -3.149010e-01 2.816912e-02 0.3127663123 -2.894325e+00
## [782,] -0.2068497436 -2.544235e-01 4.565629e-01 -0.1732008135 -2.681714e-01
## [783,] 1.4254233184 1.341207e-01 -3.600015e-01 0.9747138356 -6.523435e-01
## [784,] -2.5061857311 2.599653e+00 6.719542e-01 1.8606623944 1.648736e+00
## [785,] 0.2326830786 -6.981621e-02 -6.115410e-01 0.3603081405 1.200388e+00
## [786,] -0.8467883641 -8.202653e-01 9.545823e-01 1.4087181408 7.619156e-01
## [787,] -0.5681442238 6.358011e-01 -1.070905e+00 -0.0547571782 -2.221550e-01
## [788,] -0.4867780004 6.659005e-01 -7.992184e-01 -0.3463384423 5.981947e-01
## [789,] 0.2100522983 -4.756830e-01 7.032249e-01 0.0540049558 -3.531562e-01
## [790,] -0.5964649121 -4.229075e-01 8.669815e-01 0.0571820349 -3.588917e-01
## [791,] 0.0720061249 -4.258029e-01 -2.069500e-01 -0.8682385424 -1.673571e+00
## [792,] -0.6604921229 -1.016247e-01 -7.714804e-02 -0.0785017632 -3.480025e-01
## [793,] -0.0151810462 8.569272e-01 1.473785e+00 -0.8212039611 -1.757891e+00
## [794,] 0.5754810909 -6.811045e-01 8.792418e-02 0.1460681827 -2.377042e+00
## [795,] 0.6489013785 -1.151693e-01 2.986590e-01 -0.0917736566 3.426736e-01
## [796,] -1.4105970482 1.181569e+00 7.435790e-01 -0.2283376466 1.385826e+00
## [797,] 1.1394368731 2.160587e-01 -6.605694e-01 0.0219949721 -4.790998e-01
## [798,] -1.5819811816 -1.592204e+00 2.328723e+00 -0.1894331710 -6.813154e-01
## [799,] 0.2335850178 2.451467e-01 1.001669e+00 1.4628800514 1.836246e+00
## [800,] -1.2639761360 4.783654e-01 2.522340e+00 0.2863543305 1.005711e+00
## [801,] -0.2558191337 -7.956210e-01 1.145960e+00 -0.9652560014 -1.133255e+00
## [802,] 0.5822038402 1.147235e+00 -1.309396e+00 -2.4157741726 -2.160221e+00
## [803,] -1.1726569311 1.287837e+00 3.475130e-01 1.5604470665 -3.180692e-01
## [804,] -2.0079446805 5.923383e-01 4.876768e-01 0.0119389085 -1.646430e-02
## [805,] 0.3506650599 -6.887058e-01 -1.791260e-01 -0.2588566017 6.190707e-01
## [806,] -0.3925889168 -2.642122e+00 1.420001e+00 0.5770488778 2.312085e-01
## [807,] 1.0343359259 -3.117391e-02 2.876700e-01 0.0399701327 -3.032997e-02
## [808,] 0.0101677896 -6.132269e-01 -1.976877e+00 0.6364950323 -1.697411e+00
## [809,] 2.8715818496 -1.530614e+00 1.341723e+00 0.5447523786 -1.749089e-02
## [810,] -0.1795552733 1.142796e-01 -6.666440e-01 0.0594274976 -5.660727e-01
## [811,] -0.1868172570 2.501738e-01 2.298174e-03 0.4416965165 9.489914e-01
## [812,] 0.2714145447 7.447084e-01 -8.700562e-02 1.5864938134 9.239890e-01

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## [813,] -1.7186906276 -2.659098e-01 -5.802548e-01 -1.0805659982 6.042233e-01
## [814,] 0.3029625135 -1.161484e-01 -6.625769e-01 -1.1316677665 2.375767e-01
## [815,] 2.1080304230 -3.114872e-01 2.987994e-01 -0.8348019952 -3.958527e+00
## [816,] 0.3369562081 1.011695e-01 -6.871722e-01 -0.3604121841 -3.076207e-01
## [817,] -1.6806435974 -9.014470e-02 2.372795e+00 -1.2882078848 3.482232e-01
## [818,] 0.4886498844 -4.175700e-01 -6.524619e-01 1.2047948786 6.916489e-01
## [819,] -0.4447571617 1.850038e+00 5.252681e-01 2.3675361255 -5.483270e-01
## [820,] 0.3792056300 -1.172798e+00 5.803396e-02 -1.2828565382 -1.966846e+00
## [821,] -1.8762457741 -2.709797e+00 2.281982e+00 0.3515491231 1.706296e+00
## [822,] 0.0372301876 -5.050698e-02 -3.043407e-01 0.4151251345 7.838935e-01
## [823,] 2.4272346907 1.226619e+00 2.809355e-01 0.5908171132 8.777301e-01
## [824,] -1.6722919889 -2.336343e-01 -1.274938e-01 -0.5356263487 -7.841643e-02
## [825,] 0.7317362294 5.231774e-01 -1.111611e+00 0.9274496910 -4.672268e-01
## [826,] 0.4767207273 2.564270e-01 3.716133e-01 -1.6252633569 3.105367e-02
## [827,] -0.3529711163 1.062617e+00 -1.107917e+00 -0.6789098250 1.321915e+00
## [828,] 0.7341775298 -8.222106e-01 1.369890e-01 0.6050825087 1.782137e+00
## [829,] -0.3906834955 -5.208288e-01 -1.023310e-01 -0.4104256287 6.885965e-01
## [830,] -0.4699611016 -3.945753e-01 1.717970e+00 0.4923979204 -1.058443e+00
## [831,] 1.1651168444 2.375780e-01 -7.578221e-01 -0.6180144088 -5.239521e-01
## [832,] -3.5131262451 -2.231128e+00 -1.930084e-02 2.1022263283 -2.169424e-03
## [833,] 0.5589361797 -5.670059e-01 2.818827e-01 -0.0885178929 -7.825983e-01
## [834,] -0.0192660524 -7.519462e-01 1.789511e-01 -1.0566343834 4.853978e-01
## [835,] -0.0593049410 8.767659e-01 -8.323058e-01 1.4527445466 3.842371e-01
## [836,] 1.0525357659 4.357693e-01 -1.562289e-02 0.6985935857 9.426146e-02
## [837,] -1.3269174241 6.120472e-01 1.285946e+00 0.3361482040 1.330412e+00
## [838,] 0.8624749995 5.716537e-01 1.063122e+00 -0.9201261661 2.053818e-01
## [839,] -3.2709130057 -3.113307e+00 -1.235546e+00 1.6693736835 -7.830824e-01
## [840,] -0.5043702211 1.105134e+00 -1.263704e+00 0.4770226887 3.921320e-01
## [841,] 0.0665313454 -1.154902e+00 3.055108e+00 -0.1885140323 1.129684e+00
## [842,] 2.9020008910 4.050234e-01 3.085821e+00 0.7363382787 3.967508e-01
## [843,] -0.7645732081 9.578051e-01 -1.660562e-01 -1.7562868127 1.313518e+00
## [844,] -1.3531085409 6.148204e-01 -1.676929e+00 0.0692643851 -5.474090e-01
## [845,] -0.6423140518 -3.103980e-01 3.326771e-01 -0.3533761708 -3.520070e-01
## [846,] -1.2013996584 -7.400129e-01 -6.042262e-01 -1.2660160055 1.404852e+00
## [847,] -1.4307430968 4.944018e-01 -1.157704e+00 -0.9435349151 3.964889e-01
## [848,] -1.3196528088 1.179633e+00 -1.642276e+00 0.5803000997 -2.031794e+00
## [849,] -1.9699972063 -1.199846e+00 -1.392344e+00 1.5825869413 5.430361e-02
## [850,] 0.0072322558 3.963010e-01 2.141562e+00 1.2244984260 8.561451e-01
## [851,] 0.5906740805 7.724195e-01 -1.234434e+00 -0.4267849146 -2.053969e+00
## [852,] 1.1902378850 -1.785795e-01 -8.467440e-01 1.3179421244 1.022036e-01
## [853,] 0.6229387451 2.767618e-01 -6.197394e-02 -0.2773197096 -2.794432e-01
## [854,] 0.0296818147 -1.473239e-01 1.826019e+00 0.3039006773 -5.822752e-01
## [855,] -0.8776166818 -8.802520e-01 -7.163701e-01 1.2543206139 1.019063e+00
## [856,] -0.3612494772 1.767115e-01 1.276949e+00 0.3141948799 -3.365748e-01
## [857,] -0.3036773376 -6.148387e-01 5.275700e-01 -1.0156265810 -8.122047e-01
## [858,] 0.4912488683 -8.093669e-01 1.272931e-01 0.7318239768 -1.736362e+00
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## [860,] -1.5466345863 2.471868e+00 9.679081e-01 0.1114787207 9.450260e-01
## [861,] 0.1199888763 -2.107599e+00 -6.836312e-01 0.9091621017 -5.523311e-01
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## [865,] 0.6224720321 -2.218414e-01 -6.545476e-01 -0.8774997291 1.018077e+00
## [866,] -0.8516570968 5.482380e-01 1.008186e+00 -0.1281034508 8.072824e-01

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## [867,] -0.9717568965 -2.261279e-01 3.258322e+00 1.6641703953 -7.344578e-02
## [868,] -0.0787833770 -2.798360e-01 -7.708721e-01 -0.6808611004 -3.938367e-01
## [869,] 2.5498338431 -1.378881e+00 2.366157e+00 1.2270058673 -3.155522e+00
## [870,] 0.6391115542 2.426427e-01 6.017619e-01 0.6688618885 1.335800e+00
## [871,] 0.3768024022 -4.640892e-01 6.738196e-01 -1.4402866349 6.367990e-01
## [872,] 0.1360658428 1.060316e+00 -1.194531e+00 -0.8810035571 1.271596e+00
## [873,] -1.2250513999 -7.415748e-01 -3.781749e-01 -1.0123115739 1.308386e+00
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## [875,] -1.7039068089 -1.356068e-01 7.457718e-01 -2.3938374522 8.031034e-02
## [876,] -0.3511118664 -5.895403e-01 -2.685819e+00 0.4450288550 -1.780519e+00
## [877,] -0.0202768353 9.844099e-01 -5.178229e-01 0.5891488622 -2.000628e-01
## [878,] 1.0443077035 -8.229462e-01 -1.451182e+00 -0.4875296052 -5.932795e-02
## [879,] 0.6361963539 -1.920146e-01 -1.228102e+00 -0.3545920741 1.791649e-01
## [880,] 0.3069897851 -5.670446e-01 1.822840e+00 -0.6185318988 1.051999e+00
## [881,] -1.0769325235 5.331455e-01 4.888371e-01 0.9815697395 2.948091e-01
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## [885,] 0.1984211888 -1.861202e-01 7.338911e-01 -0.1970880322 3.346963e-01
## [886,] -0.3918975737 1.075564e+00 -5.991514e-01 -0.0405723958 1.634111e-01
## [887,] -1.8382290542 1.698231e-01 -1.009051e+00 -1.1337568698 -7.383621e-01
## [888,] 0.8828577370 1.975566e-01 -2.313193e-01 0.0278986430 -3.408878e-01
## [889,] -0.2499843027 1.555132e+00 4.540632e-02 -0.6371067971 -5.704856e-01
## [890,] -2.7577609087 -2.090416e-01 -1.386138e+00 -0.2231514102 -1.577721e+00
## [891,] 1.2815412082 -2.318926e-01 -1.442375e-03 0.5754522103 3.917162e-01
## [892,] -0.7403760067 8.241920e-01 -2.795289e-01 1.5454107661 -7.401417e-01
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## [895,] -1.4332795315 1.525244e+00 7.207993e-02 1.2020686530 1.569825e-01
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## [898,] 0.1427379963 1.015576e-01 7.023164e-01 -0.2070459697 -5.232095e-01
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## [901,] 0.1842669317 -8.914894e-02 4.511965e-01 -0.1186571065 5.799811e-02
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## [903,] -0.02225909501 2.048962e+00 -1.737490e+00 0.2045131496 -1.408512e+00
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## [1010,] -0.8983276867 1.530333e+00 -1.480340e+00 1.4811876030 -3.084766e-01
## [1011,] -1.4038785842 -9.484700e-01 2.237753e-01 -1.6214992091 5.602830e-02
## [1012,] -0.7108662323 -1.590509e+00 1.151458e+00 -1.3174497497 8.870998e-01
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## [1062,] 0.6699460154 -7.723331e-01 -1.038587e-01 -0.4179560438 1.644262e+00
## [1063,] -1.1732253594 6.298803e-01 1.685769e+00 -0.3124213340 -1.019321e-01
## [1064,] 0.0792641083 -1.107659e+00 1.600977e+00 1.3009635432 -3.391126e-01
## [1065,] -1.3210104862 3.224345e-01 -1.181048e+00 -1.5188871973 -5.696514e-01
## [1066,] -1.6348687856 -4.261173e+00 -3.323945e-01 -2.3821157083 -7.580798e-01
## [1067,] 0.0101080705 4.052385e-02 4.635356e-01 -0.0784607960 -2.794344e-01
## [1068,] 0.3719069937 2.337532e+00 -8.469308e-01 2.1370689901 -2.183463e-01
## [1069,] -0.0620661150 1.423349e-01 -3.722992e-01 -0.0194408853 -3.187952e-01
## [1070,] 0.0806966794 -8.788039e-01 1.020093e+00 -0.5587196259 4.502539e-01
## [1071,] -0.4152658317 -1.512812e-01 1.991170e-01 -0.3012368070 1.927103e-01
## [1072,] 0.6146391583 -1.740227e+00 9.188306e-01 2.0914836879 -3.933872e-01
## [1073,] 1.0902025777 5.153122e-01 5.250988e-01 0.3982797758 -2.391613e-01
## [1074,] 0.1491270087 -1.194921e+00 -1.267748e-01 2.2666753201 -8.052555e-02
## [1075,] -0.6191382623 -3.591172e-01 -2.132307e-01 0.1384594742 -1.351720e+00
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## [1078,] -0.1694764340 6.011344e-02 -1.829306e-01 -0.0995779265 -3.900220e-01
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## [1102,] 0.8017866542 9.888229e-02 6.997710e-01 -0.5200791309 1.185497e+00
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## [1105,] 1.0977319214 -1.103630e+00 6.685919e-01 -0.4685831281 -2.078775e+00
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## [1110,] 1.1419315880 -2.539129e-01 9.974070e-01 -1.1622335225 -1.113554e-01
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## [1192,] 1.5515107826 -1.256302e+00 7.763024e-01 -0.3350114177 -2.714974e-01
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## [1201,] 1.5990723056 9.426485e-01 1.571699e-01 0.0458839103 1.435075e+00
## [1202,] -0.7687175529 2.766540e-01 5.472737e-01 -1.9415762742 2.998994e-01
## [1203,] -1.2306891904 7.594628e-01 -8.928268e-01 -2.1923844504 1.446690e+00
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## [1214,] 0.1419764902 -6.045571e-01 7.723626e-01 0.1749682055 -4.794875e-01
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## [1236,] 0.7946267479 -2.729483e-01 -1.083281e+00 0.0015285221 -6.191675e-02
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## [1238,] 1.0138477621 1.535442e-01 -1.616552e-01 -0.1864429485 6.771680e-01
## [1239,] -1.9957642173 2.321879e+00 7.659670e-01 2.1425335091 1.543487e+00
## [1240,] 0.4118978477 -3.990189e-01 -8.589290e-01 1.6600586001 9.042709e-01
## [1241,] -2.0428657956 -2.107180e+00 -1.543528e+00 0.2136405628 1.005524e+00
## [1242,] -0.8842194078 5.886613e-01 8.590031e-01 -1.2987565639 5.699510e-01
## [1243,] -0.2823337558 -2.858104e-01 -1.269905e+00 -1.5992326662 -1.326931e-01
## [1244,] 0.4460606919 6.377020e-01 3.410426e-01 -0.7137355715 1.718649e-01

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## [1245,] -0.9279053751 -5.265733e-01 7.026819e-02 -0.0911929287 5.785123e-01
## [1246,] 0.0064101200 -3.144579e+00 7.284023e-02 1.3052166826 1.979793e+00
## [1247,] -0.0485055736 -1.079464e-01 -2.373851e-01 -0.3235310157 4.670840e-01
## [1248,] 0.9371273387 -1.953697e-01 -5.914532e-01 -0.0688787901 1.152785e+00
## [1249,] -0.8006348088 3.251121e-01 1.388367e+00 0.7202174841 1.757399e+00
## [1250,] 2.9142841212 -1.221777e+00 -1.088785e-01 0.0440429075 -1.624730e+00
## [1251,] 0.5575575779 -2.532249e-01 1.084851e+00 -0.3244366462 7.573375e-01
## [1252,] 0.0652082055 4.791986e-02 -1.198450e-01 0.1934048498 8.158316e-02
## [1253,] 1.0341895848 1.708532e+00 -6.627584e-01 0.5241309364 9.617092e-01
## [1254,] -0.5819009988 2.747419e-01 -5.788592e-01 -0.9011007142 -4.306293e-01
## [1255,] 0.3133216305 6.650333e-01 3.194208e-02 1.2532443011 1.460358e+00
## [1256,] 2.7884279884 -1.073000e+00 -5.211935e-01 -0.6095222432 -1.750820e+00
## [1257,] 0.7302547066 -5.070540e-01 6.434842e-01 -0.2334900495 5.191267e-01
## [1258,] 0.3369789756 -2.812485e-01 3.421333e-01 0.4837278505 -1.271138e+00
## [1259,] 0.3087409026 -3.553630e+00 -2.301975e+00 1.9784387596 2.650953e-01
## [1260,] 0.0815649356 5.674979e-01 6.223737e-01 0.0899886168 -1.870041e+00
## [1261,] 0.9735668623 7.398255e-02 -7.809593e-01 -0.3474983122 6.936380e-01
## [1262,] 0.6181257724 -6.608272e-01 5.031903e-01 -0.6384853822 -2.748256e-01
## [1263,] 1.1042374236 3.019318e-01 2.108041e-01 1.2548831743 7.281350e-01
## [1264,] -0.4532774530 -1.134050e+00 9.320586e-01 0.7867122055 -1.125651e-01
## [1265,] -1.0986333320 -3.323734e+00 -1.143458e+00 -0.2898376940 1.448743e+00
## [1266,] 2.3755312644 1.149430e+00 5.395934e-01 -0.9441022248 1.754541e+00
## [1267,] 0.2687003416 3.334213e-01 5.357052e-01 0.4509020369 9.157884e-01
## [1268,] 1.0350538564 7.311775e-01 -2.229371e+00 -0.9650339563 2.314450e+00
## [1269,] -1.0896547270 -6.137729e-01 -1.351366e+00 -1.9910880205 -9.526334e-01
## [1270,] -0.3726258764 -1.280288e+00 4.895357e-01 1.4530255716 5.199147e-01
## [1271,] 1.0317620511 1.681186e+00 5.363105e-01 1.7550179835 6.740282e-01
## [1272,] 0.1550106196 5.619220e-01 1.485740e-01 0.6808241883 1.898575e+00
## [1273,] 1.0441960963 -2.195653e-01 -1.207460e+00 0.0483233832 -2.344526e-01
## [1274,] -1.9069223991 -2.410081e-01 2.931798e+00 0.9272193529 8.145567e-01
## [1275,] -1.0337236598 1.111877e+00 2.428830e+00 0.2424353005 8.991962e-01
## [1276,] -0.9924823484 8.923592e-02 1.188894e+00 0.1330302241 -1.104322e+00
## [1277,] -0.7891833310 -4.234567e-01 1.250995e+00 0.8750821746 -4.751760e-01
## [1278,] 1.2987223195 5.745010e-01 -5.451746e-01 0.5634950207 2.448774e+00
## [1279,] -0.9120442738 -1.020454e+00 3.144024e-01 0.4845235343 -1.388582e+00
## [1280,] 1.6094979386 2.119624e+00 -3.040280e-01 0.5343932398 4.569822e-01
## [1281,] 1.0277763962 1.575541e+00 1.508475e+00 0.0362794573 6.849781e-01
## [1282,] -0.1564983045 -1.269602e-01 6.121995e-01 -0.2255893178 -9.027616e-02
## [1283,] 0.0708244223 2.002066e+00 -8.188490e-01 0.7559060590 2.456872e-01
## [1284,] -1.8185593494 -3.804151e+00 -2.061200e+00 -0.8818964832 9.530772e-01
## [1285,] 0.17111415438 -1.260542e-01 2.302947e-01 0.0723956616 1.795831e-01
## [1286,] 1.5608738197 -7.713343e-01 1.615698e+00 1.3287273397 -4.165056e+00
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## [1288,] 0.0904076342 5.776961e-01 7.244294e-01 0.1610059857 -6.740596e-02
## [1289,] 0.9360963795 3.283346e-01 -4.507066e-01 -0.8319529322 -4.640732e-01
## [1290,] 0.2532152891 -9.188111e-01 7.827222e-02 0.0528240893 -7.545426e-01
## [1291,] -0.9011296058 -4.806037e-01 5.145969e-01 -1.4534051291 -1.520456e+00
## [1292,] 0.2617410102 -2.558250e-03 -1.124493e+00 -0.3283291785 -2.077029e-01
## [1293,] -0.2322970930 -9.025094e-01 1.690292e+00 1.6727203595 1.661106e-02
## [1294,] 0.3002718609 -3.280473e-01 6.818796e-01 -1.0834871159 -1.458905e+00
## [1295,] 0.3640053402 -5.351142e-01 6.045357e-01 -0.2616718284 2.521926e-01
## [1296,] -1.2387852859 -1.484372e+00 1.816286e+00 0.1583724497 -1.946190e+00
## [1297,] -0.1685340088 2.013540e+00 -1.795330e+00 0.7227932381 3.213486e-01
## [1298,] 1.3802059079 -9.757950e-02 -1.877509e+00 -0.2038920151 -2.269865e-01

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## [1299,] 1.4122760631 8.496391e-01 -1.219311e+00 -0.0289979850 1.557882e+00
## [1300,] 0.4122377536 -8.304726e-01 2.076441e-01 0.0408371144 -1.167959e-01
## [1301,] 0.4253179354 -1.008574e+00 1.598348e-01 -1.9069896423 -1.972423e-01
## [1302,] 0.2170958978 1.574470e+00 7.005321e-01 -0.0450289731 6.506572e-01
## [1303,] -0.3066290032 1.241231e+00 6.346681e-01 -0.2554995591 -1.574096e+00
## [1304,] 2.4240022496 -1.191025e+00 1.339431e-01 1.5861812302 -2.224642e-01
## [1305,] 0.3767797856 -1.164055e+00 7.300479e-01 -0.5796999527 -2.591514e-01
## [1306,] 1.8636216698 4.423903e-02 9.830710e-01 0.1635605017 -1.836001e+00
## [1307,] -0.4584699703 1.065549e+00 5.065544e-01 0.2744837778 -2.110674e-01
## [1308,] 0.1069721253 -2.891916e-01 -2.920517e-01 1.4455214610 4.463658e-01
## [1309,] 0.0148097710 2.516351e-02 -6.910511e-01 0.5442481128 -4.802475e-01
## [1310,] 0.4869101989 3.767964e-02 4.571265e-01 -1.6204891033 8.835086e-01
## [1311,] 1.5218284723 -2.046375e+00 1.370592e-01 0.5618308020 -3.391055e+00
## [1312,] -1.7464448461 3.805223e-01 -6.873905e-01 -0.7448097073 -4.928373e-01
## [1313,] -0.1973612506 7.403289e-01 -7.825535e-01 1.3367451450 6.836658e-01
## [1314,] 0.8639157070 -8.725781e-01 1.369706e+00 0.2848747779 4.166503e-01
## [1315,] -1.8748023184 -9.014029e-01 1.061480e+00 -0.4375679191 -1.088149e+00
## [1316,] 3.1005145966 -7.665552e-01 2.237235e+00 0.4856696987 -1.120201e-01
## [1317,] 0.5388949967 -2.826980e-01 3.227855e-01 -0.0926224520 2.735600e-01
## [1318,] -1.8370982960 -1.316445e+00 2.557012e-01 2.7672093464 -8.015658e-02
## [1319,] -0.5249264546 -1.222393e+00 -3.786628e-01 0.3427190788 -5.989736e-01
## [1320,] -0.6858751059 -1.488256e-01 -1.672644e-02 0.2978539641 2.560579e-01
## [1321,] -0.7027686596 -2.692927e+00 1.312842e+00 -0.1720128314 -1.147518e+00
## [1322,] 0.0717093064 -2.365423e+00 -1.227677e+00 -1.0231270934 8.407415e-01
## [1323,] -1.2295622660 1.087365e+00 -3.000737e-01 -0.1790114705 -6.253886e-01
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## [1325,] -0.1082023409 -7.736077e-01 -5.301348e-01 -0.0646216709 -3.548224e-01
## [1326,] 1.8063546261 1.859960e-01 -6.373508e-01 1.3105377814 -1.567185e+00
## [1327,] 0.7879440908 2.368216e-01 -5.162725e-01 0.6762561572 -1.624266e-01
## [1328,] 0.5103229680 -4.703448e-01 4.336641e-01 -0.1530782362 -5.143929e-01
## [1329,] 2.2348734973 1.261318e-01 -1.576347e+00 1.3229814819 5.287240e-01
## [1330,] 0.0420937723 1.102772e+00 -1.629271e+00 -0.4183703569 4.587501e-01
## [1331,] -0.1358063608 -1.031542e-01 1.332273e-01 0.0332730287 -1.577541e-01
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## [1333,] 0.0617324470 1.370472e-01 -6.026417e-01 -0.1468929990 -1.741341e-01
## [1334,] -0.5209325899 -9.346867e-01 8.978523e-01 -0.5586478588 6.246804e-02
## [1335,] -1.3235994500 -1.702983e+00 2.478665e-01 -0.0397530574 -7.832297e-01
## [1336,] -1.3814942740 -3.855141e-01 -1.042787e+00 -0.4970591964 -4.346205e-01
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## [1338,] 0.6572689559 -8.814207e-02 -8.264222e-02 -0.9054650173 7.897607e-01
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## [1340,] -0.3108647219 -2.562983e-01 1.334038e-01 1.2496655147 -1.775417e+00
## [1341,] -0.2652159775 2.374158e-01 7.461153e-01 -1.2005878287 -8.994076e-01
## [1342,] 0.7367077802 -7.397225e-01 7.258582e-01 0.3000095706 8.687609e-01
## [1343,] 0.2128999302 1.839281e+00 -2.863533e+00 -1.2021060305 7.938038e-01
## [1344,] 1.1110614051 4.881370e-01 8.184959e-01 -0.8643256887 5.867223e-01
## [1345,] 0.7511981894 -8.189345e-01 -1.393928e+00 -0.9439862763 -2.680386e-01
## [1346,] 0.8289541118 1.632475e+00 -1.056358e+00 -0.5541366560 6.296244e-01
## [1347,] 0.0026175699 -1.242801e-01 4.384308e-02 0.5742820172 9.826468e-01
## [1348,] 0.7346555657 -1.112357e+00 -6.630337e-02 -0.3528368461 -3.814878e-02
## [1349,] 0.4813944903 1.267991e+00 5.860778e-01 -0.7561290660 1.229255e+00
## [1350,] 1.1145016915 1.933146e-02 -9.198193e-01 0.2129705000 6.324065e-01
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## [1353,] -1.2164370954 -8.996098e-01 2.034232e+00 1.3391329184 1.438768e+00
## [1354,] 0.8938914861 5.879240e-01 8.839464e-01 2.0292637263 -1.780259e+00
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## [1357,] -0.4744112228 6.111728e-01 -6.169093e-01 -1.3271044863 -8.607542e-01
## [1358,] 0.1493075286 3.378901e-01 4.795575e-01 0.7185767465 8.911348e-01
## [1359,] 1.5271202345 -1.910209e-01 3.310185e-01 -0.5319657850 -3.544637e-01
## [1360,] -0.0125683526 -4.013985e-02 2.767691e-01 -0.0523822144 -2.839471e-01
## [1361,] 0.4281379398 4.387804e-02 1.486203e+00 -1.3263630262 -4.743199e-01
## [1362,] 0.8869068089 -2.144081e-01 -6.602136e-02 -0.0499731274 -5.410258e-02
## [1363,] 0.4606717312 2.187116e-01 7.892025e-02 0.0918554801 2.336119e-01
## [1364,] -1.6801152487 4.015213e-01 -5.480123e-01 0.2516298505 -1.718976e+00
## [1365,] 1.8571925946 -1.430349e+00 1.005401e+00 0.7592854494 -1.987215e+00
## [1366,] 0.1186718542 -1.271761e+00 4.001519e-01 0.3124187049 -4.474606e-01
## [1367,] 0.8625300958 6.276097e-01 1.065481e+00 0.6793933107 5.621118e-01
## [1368,] -1.9094671179 3.304048e+00 1.276183e+00 1.9954341247 7.637287e-01
## [1369,] 0.4822488689 -1.709050e+00 8.554228e-01 -1.2417013907 -3.270858e-01
## [1370,] -1.2241704320 -8.198152e-02 2.897803e+00 0.7973203439 1.149569e+00
## [1371,] -0.5254626147 -7.572481e-01 1.020784e+00 -1.3219410998 3.231178e-01
## [1372,] -2.3417864538 1.164282e+00 -2.282271e+00 -2.0444792718 5.460989e-01
## [1373,] 0.0482493114 1.006610e+00 -8.801391e-01 -0.3041211266 1.569061e-01
## [1374,] 1.2758597528 9.377927e-01 9.960001e-01 0.0910188507 1.555174e+00
## [1375,] -0.7754040131 -5.551604e-01 -1.653690e+00 0.4240197190 -3.567117e-01
## [1376,] 0.8430396191 -9.957608e-04 3.629327e-01 0.9028495139 -2.538527e+00
## [1377,] 0.3943180673 -1.301811e+00 5.863414e-01 -1.2889585882 -1.523382e+00
## [1378,] -0.0069589885 -2.836671e-01 -6.785105e-01 -1.0116536759 1.600107e+00
## [1379,] 0.8813340250 -3.398439e-01 -8.681577e-01 0.0964271757 3.597777e-01
## [1380,] -1.3933517772 1.344327e+00 1.669192e+00 1.5642560084 4.950670e-01
## [1381,] 0.1008275019 -1.447945e-01 -3.237322e-01 1.5072275647 -2.118895e-01
## [1382,] -1.6032132024 4.263100e-01 1.407928e+00 2.1675620760 -6.596523e-01
## [1383,] 0.3807112598 -3.017878e-01 -1.894375e-01 0.8787562935 7.443665e-01
## [1384,] -1.5365745697 1.036401e+00 1.020174e+00 -0.6427861468 2.681427e-01
## [1385,] -1.2804970614 -9.205814e-01 4.892913e-01 -0.9300817077 1.203098e+00
## [1386,] -1.5106643434 -4.677920e-01 -8.012739e-01 1.4752330682 1.349925e+00
## [1387,] -0.9955946285 -1.221599e+00 1.540644e+00 -0.0810653102 -1.270931e+00
## [1388,] 0.6879869178 -9.263851e-02 -1.262695e-01 0.0210446569 1.832020e-01
## [1389,] -0.7048604431 -2.561112e-01 -4.095502e-01 -0.8483455611 9.732643e-02
## [1390,] -3.0814716842 9.026835e-02 1.065657e+00 0.0817402790 -2.424366e+00
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## [1392,] 0.7141446102 -1.153904e-01 -1.584287e+00 -0.0503376767 -8.792245e-01
## [1393,] 0.5073499501 -1.434085e-01 -6.663808e-01 1.1071141335 4.213512e-01
## [1394,] -0.0233737840 1.974347e-01 -3.290018e-01 0.2295811691 -2.202460e-01
## [1395,] 0.7854638646 3.494293e-01 6.568671e-01 -2.3461135928 -2.546421e-01
## [1396,] -0.2746612331 -1.864405e-01 -3.963696e-01 -0.1032814148 2.165022e-01
## [1397,] 0.6348761116 -1.344994e+00 -6.461759e-01 0.7127422038 -3.674685e-01
## [1398,] -1.2097135268 9.121695e-02 1.537335e+00 0.8447140214 1.345524e-01
## [1399,] 0.4078469068 -3.184159e-01 1.240219e+00 -1.4837197689 1.263889e+00
## [1400,] 1.0190199241 1.001776e-01 -4.582916e-02 -0.3515719568 5.227332e-01
## [1401,] -0.4209042760 -1.692217e+00 4.203148e-01 -0.0894449323 -1.056509e+00
## [1402,] 0.3528602931 -1.416369e-01 5.464036e-01 -0.2039177159 -5.013980e-01
## [1403,] -0.4831195918 2.495769e-01 1.505155e+00 1.0647391286 1.279641e+00
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## [1405,] -1.4504007175 3.729866e-03 9.369080e-01 0.4683664018 1.085340e+00
## [1406,] 0.7497581831 9.656961e-01 -4.694646e-01 -1.5177064068 1.066443e+00

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## [1407,] -1.3477754318 8.198593e-01 2.740264e-01 0.9525190162 1.504724e-01
## [1408,] 0.6365379480 6.014667e-01 -5.798915e-01 1.0731527354 7.975959e-01
## [1409,] -0.5462191999 -7.256888e-01 -3.163267e-01 -0.2896354755 -6.555970e-01
## [1410,] 1.5685870794 9.012909e-01 5.973189e-01 -1.7460137465 -2.507226e+00
## [1411,] -0.1449493159 -6.555430e-02 1.082284e+00 -0.1787314604 -2.287878e-01
## [1412,] 2.3687063751 1.428873e+00 5.611073e-01 0.4539455103 -7.893649e-01
## [1413,] -0.9289916375 -6.000572e-01 5.385017e-01 0.4939579095 -1.036410e+00
## [1414,] -0.3306499789 1.606473e+00 8.526844e-03 0.3041296354 -6.818961e-01
## [1415,] 2.7025340027 -1.371884e+00 3.112810e+00 -0.7218337507 -9.673365e-01
## [1416,] -0.0883693856 -1.088940e+00 -1.910317e-01 0.2878659714 3.227418e-01
## [1417,] 0.7716446451 9.221188e-01 -3.858391e-02 -0.0779641191 -1.232116e+00
## [1418,] 0.2476354229 6.897965e-01 -6.580761e-01 -1.8532349712 -6.530680e-01
## [1419,] 0.4594623257 5.040198e-01 -6.915111e-01 -0.2699590939 -4.088005e-01
## [1420,] 0.8818155142 2.943992e-02 1.972569e+00 -1.7189926556 1.434896e-01
## [1421,] 1.2469030822 5.598927e-01 -2.414892e+00 -1.2760580882 -2.409708e+00
## [1422,] -0.5721514307 -1.521495e-01 -8.378186e-01 4.5378915459 -5.134742e-01
## [1423,] 0.4037974584 -3.376294e-01 2.121891e-01 0.3295594734 -3.340060e-01
## [1424,] -1.4775135410 -1.075331e+00 1.716617e+00 -2.0226593812 1.201820e+00
## [1425,] 1.8843423529 -7.667277e-01 1.816480e+00 0.6709003639 -5.419559e-01
## [1426,] -0.9987383868 -2.550642e-02 1.270494e-01 0.4461909579 3.445741e-01
## [1427,] -1.9947939708 1.212311e+00 4.322924e-01 1.8994670190 1.745762e-01
## [1428,] -0.3825572618 6.553218e-01 -4.935422e-01 0.2186317788 2.545487e-01
## [1429,] 1.9652122851 7.722371e-02 4.811872e-01 -0.5469027995 -7.281050e-01
## [1430,] 0.4168928994 -1.277726e-01 5.001026e-01 0.0519417852 6.685047e-01
## [1431,] 0.2311092037 -6.196218e-01 1.470980e-01 -0.0530419120 -2.089926e+00
## [1432,] -0.4488986711 8.638911e-01 -1.038030e+00 -0.0390162584 6.846020e-01
## [1433,] -0.8944629327 5.988588e-01 -9.313312e-01 -2.3708576567 -3.395812e-01
## [1434,] -0.7303274168 1.379429e-01 -7.060032e-01 -0.3817582562 3.703755e-01
## [1435,] 0.2744529157 -2.918636e+00 -2.242716e+00 0.4960761220 8.233987e-01
## [1436,] -2.6009472894 -1.658575e+00 5.088903e-01 1.3335155001 8.731341e-03
## [1437,] 0.2134605037 -3.911578e-01 2.348972e-01 0.3809812957 8.415375e-01
## [1438,] -1.9021012983 7.208853e-01 -2.639960e+00 0.1313685713 3.098816e-01
## [1439,] -1.6358064138 2.094654e+00 3.409690e-01 -0.2591330257 8.292255e-01
## [1440,] -2.6805804082 -3.804098e+00 -4.361266e-01 2.9736088061 1.272825e+00
## [1441,] -0.6615783272 -2.071395e+00 -1.943989e+00 -0.0050203432 -5.885461e-01
## [1442,] 0.2050981237 6.459431e-01 -4.871794e-01 -1.2101406018 -7.136014e-01
## [1443,] 1.8152316982 -1.430042e+00 1.465783e+00 -0.0150770270 -1.431288e+00
## [1444,] -0.5594350630 -4.890498e-01 1.335246e-01 0.1609158744 -2.291912e-01
## [1445,] -0.9995588451 -4.317202e-02 3.340201e+00 -2.1476029288 5.053974e-01
## [1446,] 0.5189693324 3.657884e-01 -6.032971e-01 -0.1695213914 -2.228079e-01
## [1447,] 1.1637604623 5.353225e-01 -4.280888e-01 0.7819489123 -1.548738e-01
## [1448,] -0.5459573010 1.797984e-02 -4.449739e-01 0.4295378575 -5.355974e-01
## [1449,] 0.8913476064 -8.378331e-01 2.080258e+00 -0.9250110001 3.302702e-01
## [1450,] 0.5785061302 1.347369e+00 -6.692944e-01 0.3492674628 6.638159e-01
## [1451,] 0.3803149266 8.494808e-01 -6.798577e-02 -0.1901171145 1.310037e+00
## [1452,] -0.8305599731 -3.879486e-01 -2.023438e-02 -0.4890670560 3.890855e-01
## [1453,] -0.4506194047 -2.253520e-01 -2.388852e+00 1.8595692209 9.996125e-01
## [1454,] 1.0189693923 -3.849093e-01 1.739838e+00 1.3820792214 -8.881139e-01
## [1455,] -1.2865569435 -3.039896e-02 -1.289443e+00 -1.4707496678 -2.110298e+00
## [1456,] 0.3473557892 2.057042e-01 1.062990e-01 0.0414164437 4.546571e-01
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## [1460,] -0.4054753221 -1.099452e+00 8.465733e-01 0.4775465587 -9.404862e-01

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## [1461,] 0.0954409551 -1.868940e-01 4.766695e-01 -0.6796430780 -1.427638e-02
## [1462,] -0.1765306315 1.756233e+00 1.914112e+00 3.0349062413 -1.439176e+00
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## [1467,] 0.2537347987 -3.085174e-01 -2.554058e-01 0.0393292299 1.197439e+00
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## [1469,] 0.5453920137 2.414424e+00 -2.274787e+00 -0.7290753918 -1.152744e+00
## [1470,] 0.9399874916 3.054940e-01 -2.280431e-01 -0.3596380745 -4.407251e-01
## [1471,] -0.1832575279 2.345249e+00 -6.935301e-01 -0.9631954930 4.263879e-01
## [1472,] -0.6098047641 -4.543684e-01 3.130718e-01 -0.5943040157 7.607976e-01
## [1473,] 0.6099821900 4.523022e-01 -1.571155e+00 -1.5372520336 1.744600e+00
## [1474,] -0.1436194289 6.733949e-01 -1.155097e+00 -0.3878955736 -2.320005e-01
## [1475,] 0.9096814077 -3.079465e-01 -7.011742e-02 0.7591384021 1.724062e+00
## [1476,] -0.6432480590 -9.200702e-01 2.781729e-01 1.1533445285 4.756250e-01
## [1477,] 0.5102672269 5.614459e-01 8.827060e-01 0.2894616527 -2.466400e+00
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## [1479,] -1.0338707768 1.066998e-01 -3.839490e-01 1.0644611303 -7.566691e-01
## [1480,] -0.9825295204 9.803251e-01 1.791151e+00 0.5619549798 1.953736e+00
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## [1484,] -2.2022086708 8.608062e-01 -3.175415e-01 0.6193182211 7.581131e-01
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## [1486,] -0.6313317464 -1.746709e+00 7.978321e-01 0.6744599869 -1.255030e+00
## [1487,] 0.5601320617 9.510187e-01 -6.409320e-01 -0.1594119910 -3.321763e-01
## [1488,] 0.1675219962 1.027059e+00 8.776446e-01 -0.0829608605 6.210993e-01
## [1489,] 1.7627096778 4.863266e-01 -8.489014e-01 1.5110412488 -8.907015e-01
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## [1491,] -0.8811982147 -2.547244e-01 -1.326970e+00 -1.8432776346 1.115862e-01
## [1492,] -2.1042075518 3.341468e-01 -2.451493e-01 -2.5044034312 4.620570e-01
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## [1494,] 0.8092420603 3.460912e-01 -3.733727e-01 -2.1246452050 8.536854e-01
## [1495,] -0.7510509542 3.171377e-02 2.539831e-01 -0.0945340245 2.565778e-01
## [1496,] -0.4087375939 2.295822e+00 -1.517690e+00 0.0911147076 -6.684326e-01
## [1497,] 0.5179659375 -2.361026e-01 -1.068147e-01 0.0008388965 -5.643248e-01
## [1498,] -2.0405953129 4.156825e+00 9.555751e-01 2.9225054792 9.632529e-01
## [1499,] 1.5215894788 -1.893828e+00 -1.317491e+00 1.1965126210 2.001940e-02
## [1500,] -0.5363372574 -7.711497e-01 -7.087299e-02 1.4687215697 -4.093612e-01
## [1501,] 0.7761207480 -8.885967e-01 -2.497552e-01 1.4956324737 1.970390e-01
## [1502,] -0.0150365653 -8.627663e-01 2.058235e+00 0.2559905003 -1.151022e+00
## [1503,] 0.1029932802 -8.448200e-01 -1.576413e-01 -0.6359064837 -3.126123e+00
## [1504,] 2.0529304573 -1.228528e+00 -1.281613e+00 1.0634669498 -1.541324e+00
## [1505,] -1.3561396341 7.141394e-01 -2.589436e+00 0.1602886085 4.442770e-01
## [1506,] -0.8247103907 1.996234e+00 1.062825e+00 1.6617834853 1.493314e+00
## [1507,] 0.9009717259 1.371803e-01 -1.904839e+00 -0.1934923879 2.627034e-01
## [1508,] 0.2171883697 3.024925e-01 2.873793e-01 -1.0340935298 2.472700e-01
## [1509,] -0.4777210420 7.353606e-01 -1.113933e+00 0.9009919790 2.710328e-01
## [1510,] -0.7555634097 5.721630e-01 -1.574055e+00 0.8267408845 4.643369e-02
## [1511,] -2.2080649620 4.957344e-01 3.308667e+00 1.9607477793 1.080773e+00
## [1512,] 0.2648930262 8.287941e-01 3.644531e-01 -2.2428567905 -8.348402e-01
## [1513,] 0.3210595356 -5.748049e-01 2.862815e-01 -0.7868979443 2.154245e-01
## [1514,] 0.9327433470 -5.241835e-01 -1.673161e+00 1.5462510661 1.703228e+00

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## [1515,] 0.4627163436 -6.208228e-01 4.143249e-01 -1.0158180752 9.367062e-02
## [1516,] -0.3489274928 1.232396e+00 -9.412442e-01 -1.0781086609 -1.857767e+00
## [1517,] -0.9001455938 1.981583e+00 5.483362e-02 0.8419821613 7.671617e-01
## [1518,] 0.4087138129 -4.735604e-01 6.702570e-01 -1.0796039730 -3.151909e-01
## [1519,] -2.5505831814 -5.421232e-01 -4.161069e-01 -0.1312962963 -2.642188e+00
## [1520,] -0.6381924564 1.702339e+00 5.498081e-01 0.9094312463 1.275719e+00
## [1521,] -0.3254443772 1.953499e-02 9.624730e-02 -0.7357569233 1.204587e+00
## [1522,] -0.7532990294 -1.767139e-01 4.468936e-01 0.0027908921 -1.076603e+00
## [1523,] 0.4996598988 -6.750430e-01 1.571250e+00 -0.8086256000 -1.237185e+00
## [1524,] 0.8277444866 -4.389244e-01 2.417076e-01 -0.4123606713 -2.341523e-01
## [1525,] 0.2844876975 -2.301771e-01 3.248066e-01 2.3842346631 -5.527848e-01
## [1526,] -0.3892759464 -8.471483e-01 1.335148e+00 1.6510217333 -2.516197e-01
## [1527,] -0.0192178112 -3.317910e-01 2.149667e-01 -0.8550745193 8.356710e-01
## [1528,] -0.4506717581 -9.550236e-01 -2.438314e+00 0.9707273349 6.144473e-01
## [1529,] 2.0675762288 -8.179335e-01 7.879196e-01 0.4077040246 -3.349257e+00
## [1530,] -0.2581314798 6.174659e-01 -5.984163e-02 0.4349697375 5.356415e-01
## [1531,] 1.1536940939 -1.255232e-01 3.844532e-01 -0.6700960827 -2.050616e+00
## [1532,] -0.7655284462 8.911484e-01 9.326069e-02 -2.0317257578 -6.331217e-01
## [1533,] -2.2014852375 -3.286726e+00 -1.312696e+00 1.1211942051 -1.249228e+00
## [1534,] 0.0455008551 -7.822771e-01 1.493392e+00 -0.4453691090 -2.044274e+00
## [1535,] -0.4309602169 7.996125e-03 9.559054e-02 -0.1906956219 -1.899689e-01
## [1536,] 1.3855991139 2.416576e+00 -6.525762e-01 2.5665993861 1.453075e-01
## [1537,] -0.5125675184 -3.422829e-01 1.379215e+00 0.3620213318 6.178925e-02
## [1538,] 0.5619723950 2.437101e-01 1.170191e-01 0.0753358678 -4.022918e-01
## [1539,] -1.3533479242 7.955940e-01 2.855864e-01 0.5183782580 1.390012e-01
## [1540,] -2.6938165436 -3.962817e-01 -1.276479e+00 -0.8558189456 9.489708e-02
## [1541,] 1.9612322301 -9.585441e-01 8.133806e-01 0.1405670364 -3.336934e+00
## [1542,] -0.3389334087 2.024998e-01 8.014414e-03 0.1055826034 1.088556e+00
## [1543,] -1.7774095057 -2.221181e-01 6.299554e-01 0.3294349869 1.000795e+00
## [1544,] 1.1367437898 -6.514853e-01 2.955081e-01 1.2379478996 1.081812e+00
## [1545,] -2.0406943811 1.390780e+00 1.681245e+00 1.5499750402 2.045888e+00
## [1546,] -0.1405383245 1.329662e+00 1.698508e-01 -1.3878163832 9.893919e-01
## [1547,] -1.4125798495 3.412968e-01 3.800978e-01 -0.5484231984 -1.484825e+00
## [1548,] -1.0075672265 -2.470530e-01 4.063716e-01 -1.8485677122 5.096342e-01
## [1549,] -0.4605239665 8.695971e-02 -3.344896e-01 0.8495214014 2.534994e-02
## [1550,] 1.9399441561 2.638439e+00 2.150508e+00 -1.0793150444 4.232032e-02
## [1551,] -0.9216023095 1.985135e+00 9.697647e-01 -0.8970142661 -2.853882e+00
## [1552,] 0.9291580913 8.365012e-01 -2.050825e-01 -0.5192064291 -1.030895e-01
## [1553,] 2.2138714480 7.677437e-01 1.051671e+00 0.0938385119 3.277779e+00
## [1554,] 1.3300299998 -1.929439e+00 2.437784e+00 -1.9554340466 2.126111e-01
## [1555,] -0.6271263214 1.421713e+00 8.444050e-01 -1.9136749722 -1.318241e-01
## [1556,] 0.3717572913 -2.875568e+00 -2.804896e+00 0.0296492516 1.831540e+00
## [1557,] 2.2254138971 -3.483076e-01 2.275220e-01 1.6356617565 2.840789e+00
## [1558,] 0.77771750463 5.406422e-01 -1.898733e-01 -0.0846604492 1.404334e-01
## [1559,] 0.0462341875 5.143305e-01 4.722427e-01 -1.7325680835 2.652451e-01
## [1560,] -0.2929261886 -1.028799e-01 -3.420572e-01 -0.0901587580 -2.031214e-01
## [1561,] 0.7621686854 -4.630844e-02 1.121284e-01 -0.2743236771 -1.194615e-01
## [1562,] -0.2620358803 1.196593e+00 -1.173331e+00 0.1833675315 1.209531e+00
##          PC6        PC7        PC8        PC9        PC10
## [1,] -2.096302e+00 -1.3435993712 2.673952e-01 0.2407885104 1.225284e+00
## [2,] -4.359753e-01 -0.0171646122 -5.234004e-01 -0.3999838550 -2.440431e-01
## [3,] -1.899097e-01 0.4539341010 -5.039857e-01 -0.4480251468 7.334338e-01
## [4,] -3.139787e-01 1.0528171324 -3.603985e-01 0.0697023756 -6.922526e-01
## [5,] 5.782266e-01 -0.0722214036 4.914258e-01 0.6493071664 -4.814169e-01

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## [6,] -4.679431e-01 0.4631851736 -8.180297e-01 1.7650048440 -1.644727e-01
## [7,] 8.641755e-01 0.5088400989 -4.959289e-02 -0.0663159260 5.144646e-01
## [8,] 4.439879e-01 -1.5551520130 -1.775536e+00 0.8634381857 -1.944380e-02
## [9,] 1.650251e+00 1.6681476542 -1.742242e-01 -0.2456159816 -5.982768e-01
## [10,] 9.515364e-01 -1.5964515854 2.562017e+00 -0.3442404160 5.299141e-01
## [11,] -2.852911e-01 -3.3975679232 -3.244851e-01 -1.3984062215 -2.286379e+00
## [12,] 1.000561e-01 0.4802472404 -6.707564e-01 0.1969935377 -2.027714e-01
## [13,] -9.005320e-02 0.5566353083 3.910914e-01 0.1692130382 2.699697e+00
## [14,] -2.039683e-01 -0.3042279219 1.200039e+00 -0.0681072222 8.426635e-01
## [15,] -1.629852e+00 1.9302690801 -7.285717e-01 0.0290198026 -4.745677e-01
## [16,] 2.624212e-01 0.6022078507 -9.599942e-01 1.2461682038 -1.493416e+00
## [17,] 6.339219e-01 0.1849233155 2.091539e+00 1.1812379075 6.481038e-01
## [18,] 8.317116e-01 -2.6203321620 1.207193e+00 -0.3913308471 8.575866e-01
## [19,] 6.941825e-01 2.9959671935 -5.450150e-01 -0.0617315778 -7.381366e-01
## [20,] 6.573517e-01 0.2574615879 3.617925e-03 -1.0326008679 5.602952e-01
## [21,] 1.481435e-01 0.7102144585 5.902425e-01 -0.5699694269 2.539932e-01
## [22,] -1.020715e+00 -0.9495125006 -2.146410e+00 0.9423045696 -2.997798e+00
## [23,] -1.269030e+00 1.0596148636 2.720026e+00 -0.4498836928 1.864796e+00
## [24,] 2.482624e-01 0.2751615892 -6.283046e-01 0.4939517083 3.552356e-01
## [25,] 4.094357e-01 -1.1000400082 2.243657e+00 -2.2275494651 -1.710677e-01
## [26,] 2.252813e+00 -1.2365047414 1.756221e+00 -1.2329985847 -1.624749e+00
## [27,] 8.576654e-01 -1.2316499197 -4.179632e-01 -0.4331635121 3.225596e-01
## [28,] 6.247903e-01 -1.2390392270 -4.336076e-01 -0.5839484646 -1.524208e+00
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## [30,] -6.295539e-01 0.1615194354 3.379128e-01 1.1114266974 5.708504e-01
## [31,] 7.470443e-01 0.3640234885 -2.706979e-01 -0.3220332043 5.175516e-01
## [32,] 9.216146e-01 1.4180918989 -1.515550e+00 -0.7800697420 1.370285e+00
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## [34,] 1.465011e+00 0.3793031479 -1.437836e+00 -0.3276715439 1.823419e+00
## [35,] -1.073646e+00 0.0117958922 7.109751e-01 0.0981407905 6.085189e-01
## [36,] 1.812286e+00 -0.2824358190 1.019196e+00 -0.7717951989 1.500364e+00
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## [38,] 4.355952e-01 -0.2180849623 -1.111234e+00 0.6812091563 1.248484e+00
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## [40,] 6.772313e-01 0.8618788142 -7.573408e-01 0.4774833716 -1.371404e-01
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## [149,] -5.068450e-01 0.1924919168 2.525926e-01 1.4042869178 6.381427e-01
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## [208,] -7.029023e-02 0.3080171212 -2.707142e-01 1.1705139522 6.056380e-01
## [209,] 1.779344e+00 0.2104165624 -2.222079e-01 0.5325114920 -1.822006e-01
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## [213,] -1.273552e+00 0.7579574064 2.257484e-01 -1.3215768112 -1.462380e+00
## [214,] 2.610891e-01 -0.5130518497 -3.992468e-01 2.0122352912 -1.131066e+00
## [215,] 5.096546e-02 -0.3413296167 1.209450e-01 -0.5672710809 -7.099937e-01
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## [219,] -1.074128e+00 1.4396971848 -1.043424e+00 0.2944597047 -2.094303e+00
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## [231,] -8.377770e-01 0.0623660402 1.796739e-01 0.1467962491 1.042812e+00
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## [234,] -1.294908e+00 1.2925686392 2.102567e+00 -0.6502260513 1.704670e+00
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## [239,] 1.090402e+00 0.6860549935 -2.128525e+00 0.9490848655 1.320421e+00
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## [242,] 1.576600e+00 1.1722638842 3.627353e-01 0.9603477897 3.452287e-01
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## [245,] 2.186748e+00 -1.9210656571 -1.082077e+00 -1.3612713079 6.949400e-01
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## [389,] 2.144693e-01 -0.7369906479 -1.143846e+00 0.1642941433 -1.372195e+00
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## [407,] 2.371033e-01 -1.1731678657 1.717966e+00 0.8657053636 -3.575805e-02
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## [567,] -8.329028e-01 -0.2228817465 -4.907481e-01 0.2052463655 -5.227562e-01
## [568,] 5.449574e-01 1.8850630861 2.854032e-01 0.6967513864 7.772794e-01
## [569,] -6.482596e-01 0.5417177333 8.039509e-01 -0.7208632973 -1.741507e+00
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## [582,] 8.2422990e-01 0.3790336184 -1.462579e-01 0.1457874420 3.364079e-01
## [583,] 2.303926e-02 1.1316673651 1.903439e+00 1.8938646332 -3.408320e+00
## [584,] -3.232091e-01 1.0351295415 -3.142027e-01 0.5692858205 1.241726e-01
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## [586,] 5.702492e-01 -0.4659802984 -4.702251e-01 0.5394624900 4.842791e-01
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## [595,] 1.923232e+00 -0.2666077732 1.203415e+00 -0.0638635991 4.312476e-01
## [596,] -1.041582e+00 -1.3526173592 1.586879e-01 0.6638550551 -1.059913e+00
## [597,] 4.610785e-01 -0.9984013203 6.362800e-03 -0.3434484083 -6.984552e-01
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## [717,] 7.374164e-03 1.7666287171 3.115267e-01 -0.3467812397 -4.186041e-01
## [718,] 3.214369e-01 -0.8302990520 9.664760e-01 -0.1198385300 2.138645e+00
## [719,] -5.823990e-01 0.3757294964 1.564594e-01 1.6035882966 6.118143e-01
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## [921,] 1.641270e-01 -3.1809947943 2.636046e+00 -2.1751039552 -2.682100e+00
## [922,] 1.435491e+00 0.8630310461 -1.942966e+00 1.4719120953 4.772803e-01
## [923,] -2.735471e-01 0.1741190441 -2.583958e-01 -0.0316241972 -1.140154e+00

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## [925,] 3.075837e-01 0.8919226749 -9.878839e-01 -0.1365524957 -2.048600e-01
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## [927,] 1.809658e-02 0.1205934773 -9.787951e-01 0.6664130696 8.051657e-02
## [928,] -7.500507e-01 1.9871901326 5.451079e-01 1.2221926682 5.022496e-02
## [929,] -7.687388e-01 0.6990515010 -4.093493e-01 -0.2780334080 -8.024413e-01
## [930,] 6.194125e-02 0.2112773715 3.492380e-03 0.1319186238 -2.468312e-01
## [931,] -1.090960e+00 0.1570093381 -9.060682e-01 1.3674879312 1.524897e+00
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## [939,] 5.322061e-01 0.3361853239 -2.084815e+00 -0.0850806538 -2.305858e-01
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## [945,] 3.358855e-01 0.8993278456 -2.551141e-01 0.0720847331 -1.477718e+00
## [946,] 6.596628e-01 2.2074240288 1.251507e+00 1.7247356923 6.138174e-01
## [947,] -2.249743e-01 -0.1428788159 -4.748583e-01 0.2837298009 -7.790604e-02
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## [949,] 1.136116e-01 0.2338023593 -1.080240e+00 -0.5414263882 1.785495e+00
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## [980,] 1.576591e+00 -0.5726336203 8.444064e-01 -0.1978948572 4.719084e-01
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## [1015,] -6.617938e-01 0.5992088626 -1.031562e+00 2.3952204236 -1.934275e+00
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## [1025,] -3.426129e-01 -0.3726488932 6.817567e-01 0.3897328631 1.450310e-03
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## [1036,] 1.409887e-02 0.3847513730 -3.469173e-01 -0.3175041725 -1.492317e-01
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## [1041,] 9.139122e-01 0.3615022022 -4.130484e-01 -0.3311228583 8.392291e-02
## [1042,] 6.470578e-01 -0.2166872992 -9.464783e-01 0.1822702659 6.384556e-01
## [1043,] -1.036920e+00 -0.2858367102 1.467972e+00 0.5432771614 3.099791e-01
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## [1056,] -6.490421e-01 -0.1395158554 -6.411313e-01 0.5263974604 -7.661611e-01
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## [1084,] 5.536414e-01 0.2050702537 1.086880e-01 1.5842483357 -2.174289e-02
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## [1095,] -1.394486e+00 0.5710297934 -1.335060e+00 -1.9993644835 -6.801845e-02
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## [1098,] -5.740905e-01 0.8880092501 -5.103801e-01 0.2806729412 5.195568e-02
## [1099,] -1.228586e+00 1.1145349550 8.573246e-01 -0.7659859802 9.711013e-01
## [1100,] -7.762332e-01 1.5187908724 2.710513e-01 0.6789699455 1.449627e+00
## [1101,] 5.683047e-01 1.4690374474 -4.681431e-01 -1.3811913183 2.617970e+00
## [1102,] -2.233951e+00 -1.3392567062 3.237039e-01 -0.8245062447 -1.563375e+00
## [1103,] -1.579297e+00 -0.9129475965 1.047445e+00 2.0948336899 -6.762173e-01
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## [1108,] -1.019838e+00 0.1796148393 -4.308893e-01 0.1611173641 -2.128001e-01
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## [1115,] -4.104478e-01 -1.9262400469 -4.533659e-01 -0.8073079151 -1.446534e+00
## [1116,] 9.582318e-01 0.3790449282 -1.938084e-01 1.6550030456 4.387026e-01
## [1117,] 2.939568e+00 0.3911162858 3.177688e-01 -1.0497836847 -1.664204e+00
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## [1121,] -2.382868e+00 1.5517036190 8.010050e-01 0.5187344177 1.785233e-01
## [1122,] -1.905991e+00 -1.1782855053 6.353922e-01 -0.9123728348 1.242522e+00
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## [1155,] -1.109252e+00 1.4533318428 -1.428114e+00 0.5965042207 -1.252644e+00
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## [1199,] -1.414079e+00 -1.4632775652 -7.575483e-01 -0.8050886784 -9.666760e-01
## [1200,] -5.504598e-01 0.3114578289 -4.963023e-01 0.5367242430 -3.792389e-01
## [1201,] -1.798275e+00 0.1805449212 2.206192e-02 -1.3654523169 1.593681e+00
## [1202,] -2.153603e-02 2.0018938618 6.594027e-01 1.2658795520 4.384506e-01
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## [1204,] 1.010934e-01 0.7917359858 -4.206750e-01 -0.5733460183 -2.613850e+00
## [1205,] -6.738671e-01 0.4081194012 4.754515e-01 0.5610170182 -8.356442e-01
## [1206,] 4.056992e-01 -1.4446190457 2.458687e+00 -1.9172390441 1.307286e+00
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## [1214,] -9.292277e-01 0.4222963614 -5.727649e-01 -1.1669556498 -2.200444e-01
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## [1216,] -8.973778e-01 -0.1518613771 -5.125941e-01 0.6099483464 -3.733868e-01
## [1217,] 1.002120e+00 1.4780638742 9.233446e-01 -1.3508448631 -3.049722e-01
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## [1224,] -1.513011e+00 -1.3710410463 -1.345305e-01 0.9910892248 1.029477e+00
## [1225,] -4.396375e-01 0.1394934137 -1.013257e-01 -0.1440577551 -4.393684e-01
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## [1227,] -8.395228e-01 0.3848474930 -3.219240e-01 1.3441017936 -4.516483e-01
## [1228,] 1.608030e+00 -1.3001475503 1.403375e+00 -0.1582082140 -8.988468e-01
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## [1230,] 2.234413e-01 -0.0956409236 -1.671101e+00 -0.6442673425 5.682598e-01
## [1231,] 1.384592e+00 0.9326797550 -5.144203e-02 -0.0424000817 1.370684e+00
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## [1236,] -3.452906e-01 -0.1715363401 2.002477e-01 0.9908851684 -3.374988e-01
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## [1239,] 3.563961e-01 1.7578264271 2.183756e+00 -1.4036280841 -1.017450e+00
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## [1257,] -1.358682e+00 0.3274193068 2.040003e-01 -2.6387088088 1.579878e+00
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## [1262,] -5.911143e-01 0.0794590728 -3.594773e-01 0.7877555084 -4.561940e-01
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## [1267,] 4.729938e-01 0.8762353873 -6.438172e-01 0.1966208684 -3.429183e-01
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## [1273,] 1.500407e+00 -0.2441278101 -3.675749e-01 0.4907922337 -1.063235e+00
## [1274,] -9.954035e-01 2.0862325400 1.487270e+00 0.1820901357 -3.420113e-01
## [1275,] 2.846177e-01 -0.9548570364 -1.202375e+00 -1.6098166481 8.490270e-01
## [1276,] -1.783377e+00 1.9146622073 1.304054e+00 -0.1826998051 2.054113e+00
## [1277,] -2.542618e+00 -0.6773912816 5.402938e-01 0.4310975152 -1.973080e-01
## [1278,] 4.730358e-01 1.5911329561 -8.632726e-01 -1.2477503967 -1.357429e+00
## [1279,] -4.516132e-03 -1.0013993536 9.004577e-01 0.1723739123 1.678271e+00
## [1280,] 3.705969e-01 1.0076360998 -5.810433e-01 1.0489013277 -1.302953e+00
## [1281,] 7.692831e-03 0.1722709105 7.507535e-01 0.9010877316 8.201959e-01
## [1282,] 2.345108e-01 0.2075982226 -1.198167e-01 -0.9889201981 3.211757e-01
## [1283,] -3.704313e-01 0.0918766891 1.146478e+00 0.8267037499 3.291923e-01
## [1284,] 6.303998e-01 1.1662066649 1.225448e+00 -0.6608124792 -4.972252e-01
## [1285,] 4.186580e-01 0.7788286665 1.241511e-01 0.0549246137 2.118391e-01
## [1286,] 2.473168e+00 -0.6983326668 -9.543892e-01 2.2758281851 -1.458723e+00
## [1287,] 3.325815e-01 -0.8285704394 -9.559815e-01 -0.6296457592 7.890885e-01
## [1288,] -5.920236e-01 0.6315800158 -1.441662e+00 0.8381596502 2.963880e-01
## [1289,] -1.446946e+00 -1.0648546917 8.063313e-01 -0.8715731793 1.797262e-01
## [1290,] -5.238238e-01 0.2073405856 7.426710e-01 0.2452604791 4.486772e-01
## [1291,] 3.215806e+00 -0.9644005718 1.372604e+00 1.2055969270 -5.347109e-01
## [1292,] -1.786580e+00 -0.4299076080 -6.821944e-01 -1.4202830146 -1.420733e+00
## [1293,] 6.242171e-01 0.8244651977 -2.337486e-01 0.2244466305 -7.886619e-01
## [1294,] -8.400882e-01 0.6526305849 8.134918e-01 -1.1695762914 -1.671721e+00
## [1295,] 6.516927e-01 -0.8102994312 -1.066364e+00 1.5235801726 1.055013e+00
## [1296,] -2.884150e+00 -0.3716389718 5.778888e-01 0.2768171026 9.119300e-01
## [1297,] -1.298172e+00 -1.8101227285 1.050765e+00 2.5494867889 8.292873e-02
## [1298,] 1.195038e+00 1.0533608278 -1.010007e-01 -0.5909155254 9.284486e-01
## [1299,] 8.796698e-01 0.0530426992 -1.065212e-01 1.2157220457 -4.685916e-01
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## [1301,] -1.966685e-01 -0.1093936528 -4.222862e-01 0.6808719777 -1.088700e+00

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## [1305,] -4.842280e-01 0.8438204808 7.283814e-01 0.0431188725 8.017918e-01
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## [1310,] 1.013438e-02 1.0215699927 1.762793e+00 -0.4922252018 -5.161806e-01
## [1311,] -1.484390e+00 2.2346605573 -1.130536e+00 -0.0959302549 -2.322523e-01
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## [1315,] 7.055090e-01 -0.5812018512 -7.920972e-01 -1.5988984747 6.407525e-01
## [1316,] 2.537147e-01 1.4181120970 7.354021e-01 0.1085171483 4.757640e-01
## [1317,] 1.6555698e+00 2.5226519022 -2.154686e+00 -1.0846983468 8.588043e-01
## [1318,] -6.376515e-01 0.0712661764 1.544450e+00 1.2535569878 -3.119825e+00
## [1319,] 2.305312e-01 0.5373876824 -9.022240e-01 0.6224631461 -7.046982e-01
## [1320,] -1.892888e-01 1.0327462398 -9.706160e-01 1.6013399523 -4.779316e-01
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## [1398,] -6.841597e-01 1.1249915878 1.663496e+00 0.2624281707 1.346063e-01
## [1399,] -1.866812e-01 -0.4709906172 -1.264673e+00 0.1127197566 2.352124e-01
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## [1402,] -7.416967e-01 0.4125264292 -7.551896e-01 0.4089390617 7.118494e-03
## [1403,] -2.322493e-01 -1.0428845734 2.069287e+00 -0.0884133925 -2.586881e+00
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## [1413,]  9.583210e-01 -0.0386352047 -5.001953e-01  0.3173186414 -2.393103e+00
## [1414,] -4.257346e-01  0.8355323396  2.689959e+00  0.2503792397  1.389428e+00
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## [1429,]  7.976929e-01  0.7735129225 -3.697428e-01 -0.2301750082 -6.398774e-01
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## [1431,]  2.832232e+00 -0.4496154654  1.180497e+00 -0.2145732568 -3.275637e-01
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## [1446,] -6.298224e-01  0.0298860645 -3.504916e-01  0.7899982487 -5.063199e-01
## [1447,]  9.253387e-01 -1.3274878470 -4.767746e-01  2.1710115858 -1.347395e-01
## [1448,] -3.370150e-01 -0.4211333291 -9.611700e-02  0.1670719541  4.273636e-01
## [1449,]  2.419175e-01  1.7262300601  8.178946e-01  0.9677651999  1.081232e+00
## [1450,]  5.819257e-02 -1.4735844637  8.287554e-01  1.8286593823 -2.280113e-01
## [1451,]  6.406817e-01  0.5310395335  3.135151e-01  1.1687222215  5.686844e-01
## [1452,]  1.700972e+00 -0.1007308979 -1.223009e+00  1.4256211483  9.254887e-02
## [1453,] -1.698605e+00  0.1746513887 -3.927965e-01  2.3901457903 -1.538738e+00
## [1454,] -1.789677e-01 -0.0002027321 -3.797982e-01  0.9099473101 -1.264787e-01
## [1455,] -1.575968e+00  0.0217197599  5.346075e-01 -0.3468683246  3.144243e-01
## [1456,] -7.787409e-01 -0.7563450945 -2.984182e-01 -0.3020397464  1.856335e-01
## [1457,]  6.975266e-01 -0.2184058880 -1.506208e+00 -0.1413788563 -4.668496e-01
## [1458,]  8.390961e-01 -1.5738189959  7.687635e-01 -0.4795463947 -9.176821e-01
## [1459,]  2.604571e+00 -1.3414532113  1.673014e+00 -1.3647851232 -2.146600e+00
## [1460,] -9.634616e-01  0.7343238744 -1.100943e+00 -0.2179448834  1.322638e+00
## [1461,] -2.357543e-01  0.2874618939 -5.327205e-01  0.2741141488  4.875934e-03
## [1462,] -8.225870e-01 -1.0696384045  1.385681e-01 -1.2465477992  3.008189e-01
## [1463,]  2.934108e+00  1.6349994676 -7.246316e-01 -0.8720655229 -2.204341e+00

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## [1464,] 1.875212e+00 1.2505927096 -1.630834e+00 0.2664353866 5.879439e-01
## [1465,] 1.717905e-01 -1.6352156035 2.410439e-01 -2.4443921800 1.820479e-01
## [1466,] 1.592448e+00 -2.1290611533 2.027757e+00 1.3284727825 1.918795e-01
## [1467,] -7.573355e-01 0.5665517695 3.190175e-01 -0.0781499616 9.705677e-01
## [1468,] -5.298156e-01 -2.8374432017 1.188155e+00 -1.5601096321 -3.070696e+00
## [1469,] -5.302160e-01 0.4329021779 6.656176e-02 0.7908276441 7.046168e-02
## [1470,] 6.442906e-01 -0.1853786293 -2.150123e+00 -0.9582931438 3.397647e-01
## [1471,] 4.938813e-01 -0.7132082980 -2.679844e-01 0.1614710658 3.425236e-01
## [1472,] -6.635725e-01 1.3450947703 -7.224069e-01 0.1087907434 8.063225e-01
## [1473,] -1.356606e-02 -0.1382331765 1.130311e+00 -0.1100164614 2.294013e+00
## [1474,] -4.863350e-01 -1.3153669208 9.443414e-01 -2.3252530402 1.104286e-01
## [1475,] -5.607598e-01 -0.8712226147 9.545303e-02 -1.6025889676 1.853176e+00
## [1476,] -1.482624e+00 -1.1570735308 1.128995e+00 0.1483811749 -2.983233e+00
## [1477,] -1.618651e+00 0.6573491182 -3.468670e-01 -0.6178823483 6.430858e-01
## [1478,] -1.820829e+00 2.3331194039 1.098194e-02 0.2488442283 6.325096e-02
## [1479,] -1.001508e+00 -0.6103029499 -7.244802e-01 -1.2967838311 1.454094e+00
## [1480,] 7.390031e-01 -0.6576266650 -4.433965e-01 -0.7073331516 -4.157805e-01
## [1481,] -3.605627e-01 -0.0819584140 -4.636427e-01 0.4099996833 1.465902e-01
## [1482,] 1.121736e-03 0.2050802638 -4.956192e-01 -0.0913588778 -5.274207e-01
## [1483,] 7.153619e-01 0.6076490172 -4.212552e-01 0.5153888740 1.677107e+00
## [1484,] 1.267653e+00 0.7598668931 -3.567907e+00 0.1112865771 -1.512938e-01
## [1485,] 5.470481e-01 2.2070888387 1.619987e+00 -0.1926362602 -2.292579e-01
## [1486,] 4.186834e-01 0.7298022130 -1.012095e+00 0.4958131273 -3.462303e-01
## [1487,] 9.020535e-02 1.0924177710 -9.430382e-01 -0.1518841300 -7.398493e-01
## [1488,] 1.294670e-01 1.4868535035 -3.107386e+00 -0.0345649396 6.098326e-02
## [1489,] -3.052837e-02 -2.0449343951 -2.424322e+00 -0.2846991961 6.920041e-01
## [1490,] -7.665046e-02 1.1323247853 3.852070e-01 0.5409740070 8.130107e-01
## [1491,] 3.446069e-01 0.7060209826 -1.281211e+00 -0.2604990610 -1.758973e+00
## [1492,] -1.002389e+00 -3.1415590942 1.190904e+00 -1.7254423388 5.510775e-01
## [1493,] 7.205015e-01 1.7588832358 1.833015e+00 0.3052338726 4.826522e-01
## [1494,] -1.386883e+00 -1.1682717342 3.151002e-01 1.3493382499 -1.769622e+00
## [1495,] -1.261135e+00 -0.8820954381 -3.694703e-02 -0.7696098937 6.350078e-01
## [1496,] 9.099033e-02 -1.5558237982 -1.299704e+00 1.7478356068 3.832402e-01
## [1497,] 4.679791e-01 0.6592481779 -5.682079e-01 -0.0298286889 -1.152683e+00
## [1498,] 4.374995e-01 0.8027933094 1.073126e+00 0.0136082093 2.479953e-02
## [1499,] 6.181058e-01 0.8840145847 -1.762953e+00 -1.1865649724 -3.086474e-01
## [1500,] 8.044653e-02 0.4130448486 -1.369797e+00 -0.0715371400 2.193445e-01
## [1501,] -1.313838e+00 -0.4780292390 2.964989e-01 0.3819168616 1.340902e+00
## [1502,] -2.181110e+00 -0.5691889870 7.433965e-01 0.7339446718 1.872359e+00
## [1503,] -7.060471e-01 2.0406130234 -1.506146e+00 -0.4389698003 -1.216689e-01
## [1504,] -8.585984e-01 -1.3429049524 -7.914264e-01 1.0126910511 -1.064389e+00
## [1505,] 8.748515e-02 -0.3265100031 -3.208942e-01 0.1283259182 7.189318e-01
## [1506,] 6.851262e-01 1.3694984778 1.618485e+00 -0.2069146114 -3.158809e-01
## [1507,] -1.208927e+00 1.2260206758 -1.827749e+00 -0.9250902487 -6.850235e-01
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## [1509,] -1.256778e+00 -1.2525847750 -2.030942e-01 2.8983504835 -9.317120e-02
## [1510,] 1.499469e+00 0.3405421056 -1.175283e-01 1.0859641548 1.207626e+00
## [1511,] -6.636108e-01 0.4205293467 -3.345859e-01 -1.7349038982 -4.406229e-01
## [1512,] 6.972672e-01 -3.7970549856 -2.217669e-01 -0.7286236042 2.252239e-02
## [1513,] -9.349539e-01 -0.3345691757 -8.518421e-01 -0.2864744922 -9.922245e-01
## [1514,] -2.001308e+00 -0.6869286620 -8.420090e-01 -0.4588936526 -1.978830e+00
## [1515,] -1.011018e+00 -0.2035809619 -3.211732e-01 0.3244117086 -4.445155e-01
## [1516,] 1.367378e-01 -0.0484306835 4.130749e-01 -0.0918206082 -6.409594e-01
## [1517,] 8.832063e-01 2.5700658532 -4.538360e-01 -0.9283111796 9.467726e-02

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## [1518,] 6.425126e-01 1.5722021202 1.382120e+00 0.6441696463 3.000945e-01
## [1519,] -1.653008e-01 -1.6992571577 1.040035e+00 -1.0506913667 2.636938e+00
## [1520,] -2.323310e-01 -0.3990973492 7.141376e-01 1.5269973044 1.521900e-01
## [1521,] 9.066291e-01 0.4164429562 -1.084589e-01 0.5851129280 -1.925314e-01
## [1522,] 2.610625e-01 0.0142419793 -1.040245e+00 -0.9114279635 -1.441856e+00
## [1523,] 2.112498e+00 -2.7138372013 1.723609e+00 -0.7654279854 6.608354e-01
## [1524,] 2.129413e-01 0.1072677620 -2.370891e-01 -0.2278520050 -3.784628e-01
## [1525,] -3.942012e-01 -1.2421765492 -3.934748e-01 -0.4258013156 9.433387e-01
## [1526,] -6.479787e-02 0.2695654245 6.224681e-01 0.7485916325 3.750488e-01
## [1527,] 9.978926e-01 1.1308675605 4.346977e-01 -0.4106532906 8.234035e-01
## [1528,] 1.265476e-01 0.5312265092 1.121600e+00 1.0273661496 -1.058973e+00
## [1529,] 7.842318e-02 -0.7146062670 1.866013e-01 0.6302441509 -1.157232e+00
## [1530,] -9.276743e-01 0.4979484501 9.962864e-01 -0.5108850284 2.365602e+00
## [1531,] 8.604460e-01 0.7250993589 -7.440103e-01 -0.1791342644 1.180615e+00
## [1532,] 1.759017e-02 3.0843044468 2.599424e+00 -1.3193017843 -3.222795e+00
## [1533,] 9.034039e-01 -0.9544854063 -6.876947e-01 0.2129071462 1.809315e+00
## [1534,] 3.911339e-01 1.1990461106 -6.485411e-01 0.3399209376 -8.135762e-01
## [1535,] 4.557955e-01 0.2965147206 -6.700008e-02 -0.4683452202 9.268317e-01
## [1536,] 5.271072e-01 -0.4251095506 -3.388140e-01 1.7744228438 2.976144e-01
## [1537,] -5.145564e-01 0.1789501667 -4.622552e-01 0.2534677005 1.688133e+00
## [1538,] 4.847517e-01 0.1126105608 -1.394871e+00 -0.0859880841 9.849598e-02
## [1539,] 1.785603e+00 -0.5227330213 -8.684844e-01 0.2795455991 -3.022640e-01
## [1540,] 1.734058e+00 -1.0466693027 -2.140583e-01 -1.5660563491 2.295995e-01
## [1541,] 3.334477e+00 1.8233227086 7.511328e-01 1.8473925137 -7.757228e-01
## [1542,] 7.385441e-01 -0.4872942929 5.892327e-01 -1.7038866495 3.595982e-01
## [1543,] 2.931030e-01 0.6325391871 -5.592015e-01 -1.2446442674 2.019318e-02
## [1544,] -1.130063e+00 0.6830815695 1.201058e+00 -1.1870082240 1.102999e+00
## [1545,] 3.996079e-01 -0.9417105224 -5.492456e-02 1.1896023452 1.212138e+00
## [1546,] 8.960281e-01 0.0922675668 1.226983e-01 -0.6188449490 -1.228474e+00
## [1547,] 2.944791e+00 -0.8390595341 5.524321e-01 -0.5806362513 7.785791e-01
## [1548,] 2.028613e+00 0.4408992591 2.405028e-01 0.7849729470 4.389891e-01
## [1549,] -2.325284e-01 0.6094616211 2.123788e+00 1.4435160573 7.128758e-01
## [1550,] -1.067527e-01 1.2699013720 4.842897e-01 -0.8983185962 -1.669986e+00
## [1551,] 1.474032e+00 -1.4874079799 1.683770e+00 -1.1385997366 3.736484e-01
## [1552,] -5.026932e-01 0.3410394275 1.306236e-02 0.6057638115 4.656498e-01
## [1553,] 7.585989e-01 -0.4827500171 1.988522e-01 -1.2062643787 -8.082316e-01
## [1554,] 8.582424e-01 1.1514327906 -5.225257e-01 -0.4753243357 3.965526e-01
## [1555,] 1.154352e+00 -0.0329844795 9.899844e-01 -1.7469684997 -1.044031e+00
## [1556,] 1.714337e-02 -1.5176513618 3.053997e+00 -1.3096648171 -5.750524e-01
## [1557,] 4.190342e+00 1.7201095872 -4.015568e-01 -1.3365250256 -1.039566e+00
## [1558,] 2.533825e-01 -0.5454969721 -9.962620e-02 1.0752591012 6.221436e-01
## [1559,] -3.557201e-01 0.2993880556 -1.576406e-01 0.5903572923 8.752893e-01
## [1560,] -1.479014e+00 1.0454620602 7.707719e-02 0.2084003460 6.901578e-01
## [1561,] -3.025839e-01 0.2335735620 -8.625074e-01 0.1921042403 -3.919397e-01
## [1562,] -5.816263e-02 0.7793479664 -1.065716e-01 1.0910817891 1.392247e+00
## [1563,] PC11 PC12 PC13 PC14 PC15
## [1,] -1.004289e+00 1.6095288519 0.2252109015 1.260413e+00 -7.776422e-01
## [2,] -3.328194e-01 0.0941377652 0.0291944988 -1.524610e-01 -1.216215e-01
## [3,] 1.178800e+00 0.3787705370 1.0831474120 -9.594373e-01 2.102156e-02
## [4,] 3.903987e-01 -1.1674857553 -0.0233149792 2.287033e-01 -9.318522e-01
## [5,] -3.785741e-01 0.7743428018 1.6663136907 -5.049890e-01 1.991108e-01
## [6,] 6.018357e-01 0.4995339778 -0.8999073910 -6.595901e-01 -7.012668e-01
## [7,] 1.139599e+00 0.5849652700 -0.5021222006 4.893390e-01 5.660910e-01
## [8,] -3.092580e-01 -0.8091194274 0.3974232086 -1.165903e+00 -4.169411e-01

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## [9,] -1.681857e-01  1.6970439554 -0.8802254357 -2.871403e-01 -1.165559e+00
## [10,] -1.951026e+00 -0.6275448435 -1.9366989428 -1.216043e+00  3.195952e-01
## [11,]  1.827257e+00 -0.4375452355 -0.6497255978  9.824777e-02 -5.362873e-01
## [12,] -1.301230e-01  0.4813719554 -1.0695079533 -3.801331e-01  5.067713e-01
## [13,]  5.846054e-01 -0.3894876326  1.3658901356 -1.088878e+00 -1.723209e+00
## [14,] -2.901386e-02 -0.6636141087  0.5161567450 -1.091600e+00  1.585937e+00
## [15,]  6.950349e-01 -0.4129571124 -1.2443142304  1.463105e+00  5.785455e-01
## [16,]  7.425222e-01  0.2517105562  0.8021555823 -7.332331e-01 -5.046065e-01
## [17,] -1.666545e+00  0.5862301431  0.8500966098 -4.174625e-01  8.408699e-01
## [18,]  3.761237e-01  0.6523074272  1.4074137194 -2.914492e-01 -3.767079e-02
## [19,]  1.054912e+00 -0.4270806563 -0.9058997803 -3.024880e-01 -1.151033e+00
## [20,]  6.726846e-01 -0.0736864760 -0.1385188529  4.939576e-02 -1.169905e-01
## [21,] -5.753338e-02  0.1629590551  0.9559214369  5.330117e-01 -1.902822e-01
## [22,]  4.518371e-01 -1.3441668576 -0.8386198347 -6.118350e-01  1.598035e-01
## [23,] -1.161576e+00 -0.5610869690  1.2300559686  1.215026e-01 -2.086923e-01
## [24,]  9.474476e-01  1.3272893882  1.2255818787 -3.626318e-01  2.367532e-01
## [25,]  7.150295e-01  0.4903785763  0.2721595152 -1.916171e+00 -3.647054e+00
## [26,] -6.214030e-01  1.1552239182  0.9474862248 -7.120657e-01  1.175293e-01
## [27,]  4.920058e-01  0.8616854005 -0.8758296609  5.389426e-01  1.092270e+00
## [28,] -8.044954e-02  1.0319958667  0.0509504281  2.231338e+00  5.592417e-01
## [29,]  5.350536e-01 -0.6096944579 -0.4518208118  5.321875e-02 -2.658318e-02
## [30,] -7.974376e-01  0.0127217692  0.9198113340 -7.027992e-01 -3.520062e-01
## [31,]  5.777784e-01  0.4289544971 -0.3218892721  2.256552e-02 -2.046294e-02
## [32,]  5.876442e-01  0.4352764631  1.6830198420  4.597197e-01 -2.440795e+00
## [33,] -6.797696e-01  1.5638066458 -1.2105827560  1.832551e-01  5.930812e-01
## [34,]  1.332321e-01 -0.1114222391  0.9572248822  9.779411e-01  8.871521e-01
## [35,]  3.007301e-01 -0.0736249608  0.1938967364 -6.833999e-01 -1.677788e+00
## [36,]  2.206042e-01  0.1247810034  1.9392297053  9.361398e-01 -6.397660e-01
## [37,] -1.153155e+00  0.8388105710  0.2312123362 -2.751506e-01 -2.063369e-01
## [38,]  5.954946e-01 -0.1626775960  0.2321864041 -1.095857e+00  1.466837e+00
## [39,] -5.778393e-01  0.3112400217  0.1777947004 -1.023022e+00  7.845114e-01
## [40,]  1.052600e-01  0.3186993379 -1.2639805092 -3.163945e-01  6.153100e-01
## [41,] -2.925413e-01  0.3575773501  0.7902400922 -8.501458e-01  9.289970e-02
## [42,] -3.001086e-01  0.1562370845 -0.0007449316 -8.888669e-01 -2.607352e-01
## [43,] -4.895560e-01 -0.0075126974  0.3398585891 -6.787595e-01  1.914151e-01
## [44,] -2.868237e-02  0.3049497567  0.3918427339  1.029116e+00 -4.777113e-02
## [45,] -4.397091e-01 -0.7661752418 -0.2459103495 -4.086531e-01  2.458389e-01
## [46,] -7.383310e-01  0.6578411394  1.0863191984  1.135373e+00  5.138889e-01
## [47,]  7.737311e-01  1.0747162932  0.7271158812 -8.192793e-01  1.668364e+00
## [48,]  1.528238e+00 -0.3821149012 -0.6188796424 -9.450064e-02  1.088460e+00
## [49,]  6.462128e-01 -0.9222147964  0.6952085932 -1.769185e+00 -1.021829e-01
## [50,]  4.418875e-01  0.2231432615  0.2159317059  9.292469e-01  1.610809e+00
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## [52,] -3.912335e-01  0.4391199213 -0.3249141224  7.994279e-02  1.931861e-01
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## [54,]  5.554926e-01 -0.1585291299 -0.1326374513 -6.030738e-01 -4.347340e-01
## [55,]  7.702362e-01  0.2141352333  1.9595191155  1.574788e+00  1.568856e+00
## [56,]  2.678129e-01  0.1929282284  3.6610427676  2.647667e-01  9.806523e-01
## [57,] -4.974161e-01 -0.4857152452 -0.0851627786 -1.328243e+00 -2.017445e+00
## [58,] -6.134674e-01  0.9153651160 -0.8170681682  3.165538e+00  2.716363e-01
## [59,] -5.586676e-01  1.5103150274 -0.5519481969 -3.952911e-01 -4.639618e-01
## [60,] -1.360573e+00  0.0145082455  2.2676409005 -1.938051e-01  1.233639e+00
## [61,] -7.771283e-01  0.0038270354  1.0154636532 -8.997807e-01  4.026139e-01
## [62,]  1.383627e+00 -1.6261218008 -1.5485169379 -4.540422e-01  1.405922e+00

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## [63,] 3.749644e-02 0.1589144052 1.3331708126 3.064213e+00 -1.058708e+00
## [64,] 7.741134e-01 0.3216294634 -0.3482996763 -2.788657e+00 -2.007341e+00
## [65,] 6.873242e-01 -0.5753775443 -2.4160158768 -1.217179e-01 -5.048420e-01
## [66,] 3.704095e-01 1.5000885638 -0.3647093267 9.236938e-02 1.200579e+00
## [67,] 1.285250e+00 1.0137035148 1.7457437904 -1.827536e+00 -6.490932e-01
## [68,] -1.012334e-01 1.1457824977 -0.7820936575 5.446119e-01 6.281655e-01
## [69,] -1.251819e+00 -0.35663333603 1.1072615237 3.056914e-02 2.517460e-01
## [70,] -1.341697e-01 0.8803287116 0.2454599245 7.134679e-01 7.401633e-01
## [71,] -1.243907e-01 0.5567012825 1.8532133278 6.416303e-01 4.932184e-01
## [72,] 5.709061e-01 -1.5825283333 0.3693210330 7.956088e-01 4.666157e-01
## [73,] -1.667255e-01 0.0049650280 0.3997640750 -6.490990e-02 -7.852987e-01
## [74,] -3.198177e-01 -0.1002097488 1.1826604787 1.500396e+00 3.392857e-01
## [75,] -7.487471e-01 2.3805902977 -0.4263238276 1.289467e+00 6.810997e-01
## [76,] 2.755302e-01 -0.3037483011 -0.9044521354 3.784558e-01 1.276843e+00
## [77,] -2.724989e-01 0.2125917941 -0.9898201396 -9.025235e-01 -1.486145e+00
## [78,] -8.381380e-01 -1.2446220799 1.8907557830 8.334198e-01 -9.914782e-01
## [79,] 6.553062e-02 0.0402734585 0.5341895373 -2.132499e-01 -4.061224e-01
## [80,] -1.092261e+00 1.6934811701 0.9664448523 -4.590120e-01 4.837048e-01
## [81,] -1.843606e+00 0.3591845165 -0.5381788231 -1.149476e+00 2.661218e-01
## [82,] 3.067154e-01 -0.2298655544 0.9520293587 -5.857215e-01 -3.086075e-01
## [83,] 8.488246e-01 -0.0816274839 0.6885522905 1.096557e+00 -8.313124e-02
## [84,] -1.197383e+00 -1.7382563631 0.9561579452 -5.116904e-01 7.551707e-01
## [85,] -8.749531e-01 -1.7270644282 -0.5654759760 -1.933894e-02 -4.385596e-01
## [86,] 4.441768e-01 0.4345890290 -0.8581981163 1.276808e-01 -4.999897e-01
## [87,] -2.156961e-01 0.8624617482 0.4394615350 1.376745e+00 1.072851e+00
## [88,] -8.154453e-01 -1.3280994013 -1.9418900937 -7.873130e-01 2.326730e-01
## [89,] -1.628495e-01 -0.5006426087 0.5678506451 2.117082e-01 3.197180e-01
## [90,] -1.052584e+00 0.0426889315 2.8820975969 -2.248793e+00 -4.942252e-01
## [91,] -1.054710e+00 0.2474773278 0.8602633719 -1.677838e+00 6.607871e-01
## [92,] 2.680274e-01 0.0227368947 0.1978776394 5.416806e-01 -4.409020e-02
## [93,] 2.271006e+00 0.5610473926 0.9490509543 1.735501e-01 -5.010090e-01
## [94,] 2.760330e-01 0.1300498909 0.0462300288 4.928207e-01 -2.110597e+00
## [95,] -2.560879e-01 -1.0658222992 -1.4886732824 -8.571534e-01 -1.164665e+00
## [96,] -9.650247e-01 -0.5788335109 0.7923365762 -4.995137e-01 -6.453542e-01
## [97,] -3.043426e+00 -0.0669927740 0.3942468268 1.372118e+00 2.553153e-01
## [98,] 1.206143e+00 2.2278169262 1.7671198414 -5.216136e-01 -1.289150e+00
## [99,] -4.005495e-01 0.2036776377 1.8194606001 -2.629167e-01 -5.211354e-01
## [100,] -6.267549e-01 -0.5852840951 -0.5558763412 2.044496e-01 2.350777e+00
## [101,] 9.907094e-02 -0.1560617179 -0.6207093352 -3.567904e-02 2.919990e-01
## [102,] -2.328273e+00 0.0823684393 -0.5162647319 -9.015636e-02 -1.939759e-01
## [103,] -9.873008e-01 0.6089611521 0.3978788321 7.082142e-02 3.665257e-01
## [104,] 1.193990e+00 0.6313448591 0.5583779091 3.997545e-01 1.279449e+00
## [105,] -1.321097e+00 -2.0620555538 -0.1701641083 2.871932e+00 -7.019757e-01
## [106,] -1.545864e-01 0.7184745044 -0.2885908776 4.144183e-01 -1.915291e+00
## [107,] -1.118697e+00 -1.5228826626 1.0421897185 9.737787e-01 -6.969753e-01
## [108,] -5.177975e-01 0.3958115556 0.6047302929 3.696528e-01 -1.154291e-01
## [109,] 1.433776e-01 0.4628614162 1.2765130907 -1.160514e+00 -3.502782e-01
## [110,] -3.102816e-01 0.1419766832 0.7624153716 1.554452e+00 -3.044377e-01
## [111,] -8.325562e-02 -0.0640340605 0.5505379506 1.494903e+00 2.221279e-01
## [112,] 5.511809e-01 -1.5234785792 0.1658816739 -9.091760e-01 -1.641506e+00
## [113,] 3.068873e-01 0.0707373400 0.1067929907 -3.650398e-01 -1.062584e+00
## [114,] 1.657589e+00 -2.1771991289 1.0459577784 1.511158e-01 -4.158786e-02
## [115,] 3.207702e-01 0.5186834143 -0.5671625053 -6.935556e-01 -8.964381e-01
## [116,] 1.577355e-01 0.0633384485 -0.0472128011 -6.529277e-01 2.129667e-01

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## [117,] -3.724331e+00 -1.9796550171  0.7584537566  2.275448e+00  7.587335e-01
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## [123,] -1.318255e-01  0.7328562552 -0.2819683440 -6.207852e-01  4.332734e-01
## [124,] -1.981384e-01  0.8420532812 -0.3260635521 -2.236325e+00  9.141117e-01
## [125,]  1.372841e+00 -1.6569588788  0.0101157124  1.899067e-01  5.025534e-01
## [126,]  1.203201e+00  0.9472934218 -0.3760498641  6.225763e-01 -2.530094e-01
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## [128,]  8.223589e-01  1.6789617363 -0.5984814721 -2.544813e-01 -2.017207e-01
## [129,]  1.444828e+00 -0.1689152814 -0.4516464302 -2.900531e-01  7.805760e-01
## [130,] -6.502731e-01  0.5869910172 -0.3317740491  5.989394e-02  8.977052e-01
## [131,]  1.337154e+00  0.6172383354  1.4234257031 -3.055175e-01  9.306542e-02
## [132,] -6.991132e-01  0.4107557113 -1.4680563977 -1.652770e-01 -1.923949e+00
## [133,] -7.661374e-01 -0.2629861006 -0.0171865850 -5.603538e-01  1.131397e+00
## [134,]  1.991303e-01 -2.2630073183 -0.0160471379  8.774267e-01  7.827230e-01
## [135,]  1.685144e+00  0.0723725316 -0.8881360160 -1.141290e+00  2.103206e-01
## [136,]  9.028828e-01 -0.1689647722 -0.8387764687 -4.998272e-01 -5.765396e-01
## [137,]  3.016789e-03 -0.8020389078 -0.5016475110 -7.167680e-01  2.433538e+00
## [138,] -3.478002e-01  0.3564107516  1.0845503793 -2.484344e-02  2.621648e-01
## [139,]  2.057445e-01 -0.0502771789  0.2538807826 -9.630657e-01 -2.862434e-02
## [140,]  4.905503e-01  0.8016880342 -0.4286149573  8.162775e-01 -1.504757e+00
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## [146,]  8.255308e-02  0.1744314515 -0.6757187527 -9.848208e-02  2.780604e-01
## [147,]  3.050991e-01 -1.2073261364 -0.3071891095  6.018607e-02 -4.419645e-01
## [148,] -4.232322e-01 -0.9245752445  1.1304124163 -2.333763e-01 -1.514321e+00
## [149,] -9.566774e-01  0.0767512032 -0.4183234997  3.149013e-01  8.638427e-01
## [150,]  1.550041e-01 -1.8205509872 -1.0432048705  6.508284e-01  1.018010e+00
## [151,]  1.099795e+00 -0.0484492244 -0.0666999744 -1.641012e+00  6.439428e-02
## [152,]  2.323932e-01 -2.5922697776 -0.9891382022 -3.962507e-01  1.952938e+00
## [153,] -1.041923e-01  0.36733360852  1.1854969808  2.820754e+00 -9.777816e-01
## [154,] -3.918796e-01 -0.1564433318 -0.5177861811 -1.350234e-01  2.534332e-01
## [155,]  1.191646e+00 -0.4408840651 -0.2697001686 -1.466190e-01 -7.190479e-01
## [156,] -3.164513e-02 -0.9740244701 -0.2606073848 -8.741751e-01  2.505715e-01
## [157,]  3.089580e+00 -0.0569927717 -0.4294069408 -6.965927e-01 -2.028312e+00
## [158,]  1.999411e+00  1.6740069402  0.1934669239 -5.818299e-02  8.467888e-01
## [159,] -3.641073e-01  0.6303839323 -0.1027120023 -5.956658e-01  8.280593e-01
## [160,]  9.901155e-03  0.4285871556  0.6806668032 -7.094889e-01  7.233668e-01
## [161,]  6.595644e-01  0.6433012856 -1.0886465565 -2.467735e-01 -7.039341e-01
## [162,]  3.068044e-01  4.2820101210 -2.3474927906  9.893906e-01 -7.745129e-01
## [163,] -2.843605e-02  0.0451658828  0.2104597152  3.913264e-01  3.676243e-01
## [164,]  4.186514e-01  0.4841149693 -0.1961998756 -9.907062e-02 -1.768051e-01
## [165,] -1.261301e+00 -0.5328404505 -0.1800310613  3.314198e-02 -8.342393e-01
## [166,]  1.473415e+00 -0.1995273998 -0.3834048916 -4.533405e-01 -1.118124e-01
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## [168,] -8.393386e-01  2.1057386160  0.1394257450  3.271352e-01 -5.621943e-01
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## [170,]  2.467540e-01  0.0018710464 -0.9232181266 -9.739312e-01 -8.140004e-01

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## [171,] -1.240809e-01 -0.9620825634 -1.1193614547 -5.251375e-01 -7.725317e-01
## [172,] 5.300513e-02 0.2367704157 1.4394550377 -8.223369e-01 8.752482e-01
## [173,] -7.349753e-02 0.0233274062 0.6947807799 2.861354e-02 -5.575648e-01
## [174,] -2.851976e+00 1.5517269586 1.0064105120 1.165488e+00 8.489986e-01
## [175,] 2.087794e-02 2.0908728184 -0.0811706673 -1.447379e+00 -3.584009e-02
## [176,] -2.176131e+00 0.7038109151 0.3453857469 -1.036433e+00 6.421083e-01
## [177,] 3.325645e-02 0.1785449249 0.4120734348 6.501671e-01 -6.228870e-01
## [178,] 3.875328e-02 -0.2729287903 -1.0707485674 -9.294859e-01 1.948318e+00
## [179,] 2.505919e+00 0.5860397197 0.4975588748 -1.154058e+00 -1.229072e+00
## [180,] 7.306329e-01 -0.0939321013 -0.2623948200 -3.118497e-01 6.678188e-02
## [181,] 8.799618e-01 -0.2564630064 -1.1601304378 -6.056883e-03 3.356925e-01
## [182,] 9.927028e-01 1.1441477346 -0.7551021891 6.138489e-02 -7.175458e-01
## [183,] 7.959326e-01 -0.8769120614 0.7550089071 -3.563856e-01 -1.426193e+00
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## [185,] -4.049161e-01 -1.2111452411 0.2293928936 -6.033602e-01 8.925324e-01
## [186,] 7.537323e-01 -1.0964053481 -0.1128034854 -3.970445e-01 8.766057e-01
## [187,] -3.447814e-01 -1.7137648613 -2.5386042312 -3.674711e-01 -6.720674e-01
## [188,] 1.027736e-01 0.0957281350 0.6248100913 -2.262662e-01 -7.505882e-02
## [189,] -1.513925e+00 -0.5643235828 0.0024517425 -2.008107e+00 1.371860e+00
## [190,] -2.815078e+00 -0.5536966422 0.6163608756 2.486563e+00 -1.768322e+00
## [191,] 1.353987e+00 -0.2293339251 -0.4449599670 3.511923e-01 1.339601e+00
## [192,] 1.647949e+00 -0.9605877044 0.1379075059 -5.383617e-03 -2.938508e+00
## [193,] 1.392486e-02 -0.3282246976 2.2494715733 -1.046406e+00 -6.557137e-01
## [194,] -1.290762e+00 -0.3524758219 0.1088444890 -2.238581e-02 -1.243925e+00
## [195,] -8.823852e-01 0.1216581881 1.0490786675 -4.588844e-01 8.617512e-02
## [196,] 7.703142e-01 -0.8612642126 -1.6469688235 -3.331364e-01 -8.043505e-01
## [197,] 3.844980e-01 -0.5566928131 0.8925656950 2.541215e+00 -5.221898e-01
## [198,] -1.482084e+00 0.4117544715 -0.8132386447 -6.376104e-01 9.185496e-01
## [199,] 1.168938e-01 1.8687857522 -1.8074034613 6.842962e-01 -2.415100e-01
## [200,] -8.696457e-01 -0.9267489447 0.6321160000 -2.310089e-01 7.706162e-01
## [201,] 1.277165e+00 0.4643948135 -1.0615182055 -6.342411e-01 -1.146466e+00
## [202,] -3.162731e-01 -0.1398006595 0.7659068475 -3.057716e-01 1.303034e-01
## [203,] -1.265979e+00 -0.1287009843 0.2926165771 1.733151e+00 1.103091e+00
## [204,] 5.110876e-01 0.6707797754 0.2269242721 -1.064875e+00 -4.689568e-01
## [205,] -9.138655e-01 -0.5340073296 0.7123173844 7.331366e-01 -7.924715e-01
## [206,] 1.125920e-01 -0.7319545107 0.1568731685 -2.805477e-01 1.462641e-01
## [207,] -2.622312e-01 -1.1443701881 0.4142239070 -4.980633e-01 7.088333e-02
## [208,] -1.099161e+00 1.0350397955 -1.5665417215 -1.065105e+00 9.142274e-01
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## [210,] 4.301517e-01 -1.5441313756 -0.0957294926 1.224308e+00 4.185059e-01
## [211,] 1.420669e-01 0.1881570033 -0.0938861705 -3.630254e-01 -3.121532e-01
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## [213,] -6.203100e-01 1.5064056804 0.3809747129 1.859886e-01 5.625086e-02
## [214,] -9.415470e-02 1.8889505797 0.5555345837 -1.659188e+00 3.026767e-01
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## [217,] -1.087871e+00 -0.4670452108 1.8027176309 5.954658e-01 -9.839239e-01
## [218,] -6.068469e-01 1.4502880608 1.1506242640 6.076817e-01 9.184706e-01
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## [228,]  6.561885e-01 -0.6073877229 -0.5355952737 -8.470816e-01 -4.837078e-01
## [229,]  3.214442e-01 -0.7441571340 -1.1109709376  3.482540e-01  2.620427e-01
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## [233,] -6.199281e-01 -0.4489687169 -0.5330456810  6.654528e-01  1.087007e+00
## [234,] -7.847440e-01 -1.2186540117  0.8771419093  7.779435e-01 -7.611785e-01
## [235,] -1.479045e-01 -0.8502365795  0.3784918176 -6.280447e-01  8.082119e-01
## [236,]  1.190729e+00 -1.8092732554 -0.3060019609  4.353532e-01 -2.666057e-01
## [237,]  9.108228e-01  0.3482017718  1.0809337708 -1.412813e+00 -3.030885e-02
## [238,]  8.050983e-01  0.5509012550 -0.1981308087 -7.550912e-01 -1.818300e+00
## [239,]  6.376347e-01  1.0280808729  0.4388217930 -1.518160e+00 -1.539631e+00
## [240,] -1.875869e-01  0.6263905155  0.9533269965 -5.431858e-01  1.152835e+00
## [241,]  6.750430e-01 -1.6292183997 -0.3840998134  1.908287e+00  6.291728e-01
## [242,]  1.126875e+00 -1.5286147087 -1.2038899859 -2.073138e-01 -6.855527e-02
## [243,] -3.323706e-01  1.0155327189 -1.9629379384 -9.777645e-01 -2.067106e+00
## [244,] -1.050193e-01  2.2130134280 -0.1015993001  7.614967e-01 -2.595965e-01
## [245,] -1.701010e+00 -0.4909239077 -0.7793158141  1.881448e-01 -4.795902e-01
## [246,]  1.349396e+00 -0.2010289162 -0.4891426471  1.054596e+00  2.281507e+00
## [247,]  3.316580e-01 -0.3497876158 -0.2541771363  2.009862e+00 -5.022376e-01
## [248,]  2.882979e-02  1.1011067561  0.3698199730  1.105292e+00 -9.447022e-02
## [249,] -1.846244e+00  1.1697482588  0.2156648900  2.994523e-01 -1.543210e+00
## [250,] -8.335428e-02  0.5765859219 -0.9861286118  4.117781e-01 -1.088681e+00
## [251,] -1.011837e+00  0.0085400110 -2.3141595561  6.761960e-01  7.826270e-01
## [252,]  1.249744e+00 -0.5279813064 -0.3953763910  1.109115e+00  2.143936e-01
## [253,]  1.995595e-01 -1.1316360470 -0.8597159724  1.032076e+00  2.791081e-01
## [254,] -2.985222e+00  0.7024374956 -1.9515513024 -1.547547e-01 -9.640935e-01
## [255,]  1.781798e-01  0.1756650007 -0.5599206283  1.139713e+00  3.318814e-01
## [256,]  3.093911e+00 -0.1414596494 -0.6807317863  5.047230e-01  1.666520e+00
## [257,]  1.366250e+00 -0.7317923982 -2.3093802577 -4.978412e-01 -2.763035e-01
## [258,]  4.580049e-01  0.1951957803 -0.8365788521 -3.125338e-02  1.077701e+00
## [259,] -2.385620e-01  1.2933771706 -0.2747162077  9.768158e-01  3.986524e-01
## [260,]  9.372532e-01 -1.2472047770 -1.5768349309 -1.783947e-01 -7.250594e-01
## [261,]  5.596765e-01  1.2431985871  0.1598511141 -8.103386e-01  6.416623e-01
## [262,]  1.393348e+00 -0.8137775115  0.2077243005  1.515557e-01  4.700119e-01
## [263,] -9.057888e-01 -1.0626207966  1.0370588282 -7.943866e-01 -1.714913e-01
## [264,]  3.768726e-01  0.5720605122 -1.6335399975  1.160654e+00  1.323823e-01
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## [267,] -4.787509e-01 -1.1613302899 -1.1912355368  9.805645e-02  3.015934e+00
## [268,] -4.088302e-01  1.5251951396  2.0257486930  5.680136e-01 -1.000943e+00
## [269,] -2.228583e+00  1.0834081298  0.1212174472  8.381203e-01 -8.050932e-01
## [270,]  1.163612e+00 -1.6581266346  0.8153959150 -1.335728e+00  2.214904e+00
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## [274,]  6.654947e-01  3.0868244537 -0.6989976399 -6.067188e-01 -1.390243e+00
## [275,]  8.133631e-01  0.1085115053 -1.5381984157  1.569977e-01  3.257100e-01
## [276,]  5.936425e-01 -0.7138579874  0.6248291056 -1.286185e+00 -6.412733e-01
## [277,] -2.632094e+00  1.0192920723  0.4855728926  8.227002e-01 -1.670852e+00
## [278,] -6.407202e-02 -0.5421259703 -0.0334921870 -7.128631e-01 -1.529661e+00

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## [279,] -4.700027e-01 -2.0345930943 0.3159665495 1.339062e+00 3.234595e-01
## [280,] 5.209496e-01 0.3204741399 0.2881665191 1.531968e-01 -4.787864e-01
## [281,] 1.402246e+00 -1.1304486539 0.0926068130 -3.437869e-02 1.780178e+00
## [282,] -1.409548e+00 -1.7192221954 -1.4357169213 5.484389e-01 3.499962e-01
## [283,] 3.890802e-01 -0.2009274221 -0.1232900019 -5.000643e-01 -2.588125e-01
## [284,] -7.134333e-01 0.4663501418 -1.0426454088 -2.129329e+00 7.716809e-01
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## [286,] 2.102415e+00 -1.3651171121 0.6697183451 -3.645122e-01 2.758354e+00
## [287,] 3.303233e-01 0.2809536646 0.1067216154 1.520656e+00 -4.459019e-01
## [288,] -1.455972e+00 0.3752658142 0.2157164415 4.910210e-01 -1.694615e+00
## [289,] 1.129122e+00 -0.4189781783 -1.8492475357 -1.133469e+00 -4.697187e-01
## [290,] 1.158710e+00 -0.5084115822 -0.8495456010 -8.357564e-01 -7.960855e-01
## [291,] -5.100384e-01 -0.5560815517 -1.7011059804 1.590411e+00 8.214791e-01
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## [293,] -2.170839e+00 -0.9432244012 0.4042455470 9.691231e-01 -1.982939e+00
## [294,] -4.227116e-01 -1.2046040259 -2.0937873394 5.745868e-01 -2.681385e-01
## [295,] 1.391628e-01 -0.0911536212 0.3256966374 -5.873341e-01 8.026412e-02
## [296,] -3.027129e-01 -1.6388041281 -1.4067326093 -9.995674e-01 -7.917423e-01
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## [303,] -5.120841e-01 1.1868226787 -1.6328716306 -2.112627e+00 -9.255040e-01
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## [310,] 8.237053e-01 -0.2847611982 0.1163146486 8.419478e-01 4.328266e-01
## [311,] -8.608098e-01 -1.2545376077 0.3891624684 -1.474926e-02 8.569667e-01
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## [314,] 1.531668e+00 -1.2857500355 -0.1783084324 2.208270e+00 -6.401189e-01
## [315,] 1.092385e+00 -1.2117359524 -0.7031464137 -1.674116e+00 -1.585381e+00
## [316,] 6.865260e-01 -1.7137577275 -1.5336045368 -2.227465e-01 4.610054e-01
## [317,] -7.683850e-01 -0.3067402982 -0.6506947936 1.023111e+00 2.927685e+00
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## [327,] -1.859435e-01 -0.6146809929 -0.7958675601 -2.397077e-02 7.231337e-02
## [328,] -1.650911e+00 1.1566639059 -0.6789278251 -1.422161e-01 -3.799524e-02
## [329,] 3.589625e-01 -1.2829843154 -0.7853327260 -1.472391e+00 -1.762749e-01
## [330,] -2.140970e-01 -0.0783147200 0.5893544972 -4.495784e-01 -3.325489e-03
## [331,] 1.783740e-01 -0.2045016253 0.2905475549 2.057303e+00 -9.045900e-01
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## [333,] -3.720514e+00 -1.6736665808  1.0523066911  4.792850e-01  1.003766e+00
## [334,]  1.388762e-01 -1.8678030681 -2.1335775828 -1.543500e+00 -1.425494e+00
## [335,] -9.200224e-03  0.0296267489 -0.1336974585 -8.447327e-01 -5.592993e-01
## [336,]  3.208750e-01 -0.1226813159  0.3643957211 -4.012497e-01  1.321223e-01
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## [338,]  1.025457e+00  0.2777604176  0.3459604708  3.565668e-01  9.738092e-01
## [339,] -2.356615e-02  0.3597114634 -0.3861250693  1.621808e+00 -1.059967e+00
## [340,]  1.431875e-01 -0.2673378453  1.2189096525 -1.200930e+00 -3.385685e-01
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## [343,] -6.161645e-01 -1.2802475516 -0.4404354068  1.790286e-01  7.189041e-02
## [344,] -1.177372e+00  0.9710066458 -0.7742432300 -2.009595e-01  1.041343e+00
## [345,] -4.815038e-01  1.2499896322  0.8327124694 -7.156109e-01  1.225619e+00
## [346,]  5.677502e-01 -0.0222890982  0.2206433282 -7.930721e-01 -1.047508e+00
## [347,] -1.230973e+00 -0.0717537110 -0.3470221660  1.221828e+00  1.179831e-01
## [348,]  5.361589e-01 -1.3082847273 -1.5749066192  2.151430e+00 -8.923768e-01
## [349,] -7.221482e-01 -1.6524388735  1.8284955416 -1.743952e-01 -6.922564e-01
## [350,]  2.182015e-02  1.0627868044 -0.2402365115  5.226002e-01 -2.615660e-01
## [351,] -1.516203e+00  0.7497174570  0.8633063119 -7.582512e-01 -3.543849e-01
## [352,]  7.915501e-01 -1.1509977989  0.0801518161  2.552434e-01  1.122737e+00
## [353,] -1.734860e-01  0.2168390892  0.3431215731 -1.697913e-02 -3.853941e-02
## [354,]  8.605664e-01 -2.6510567625 -0.5600672715  6.968482e-01 -6.258554e-01
## [355,] -5.657464e-02  0.9575438534  1.8486903980 -8.049641e-02 -8.364837e-01
## [356,] -2.483724e-01  0.2529995220  1.0309191388 -9.658702e-01  1.478612e+00
## [357,] -2.860325e-01 -0.2801782570  0.4776068788  1.255215e+00  7.143908e-01
## [358,]  7.615862e-02  1.2150358505 -0.5018832068  1.360227e-01  5.330125e-01
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## [361,]  2.361438e-01  0.3852881805  0.1638200798  1.883838e+00  1.510298e-01
## [362,] -5.382364e-02 -1.1839576230  0.0607128537 -1.432305e-01 -7.293705e-01
## [363,] -8.775445e-01  2.6390153086  1.1305276339  5.314208e-01 -9.487942e-01
## [364,]  1.387305e+00 -0.6554417090  1.6148885698 -2.021532e+00  1.068636e+00
## [365,]  4.515880e-01 -0.1913275625 -0.2880092170 -7.064956e-02  1.987300e-01
## [366,] -4.308056e-01 -1.2026465845  0.7735985846  1.554507e+00 -4.012484e-01
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## [368,] -2.874971e-01  0.3664110946  1.2372840180 -2.988311e-01 -8.238111e-01
## [369,]  2.919851e-01 -0.0924309686 -1.2199397663  1.924541e+00  1.506664e+00
## [370,]  3.443890e-01  0.8424359238  1.9556864062 -1.217122e+00 -2.297548e-01
## [371,] -3.622363e-01 -0.1747789093 -0.5826096959  1.338772e+00  1.003215e+00
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## [373,]  7.798073e-01 -0.3308150234 -1.5668803960 -6.074659e-02  7.440916e-01
## [374,]  6.721124e-01 -0.0929657360 -0.3302564797 -6.540671e-01  6.458972e-01
## [375,] -3.800432e-01  0.4955553862  0.3812574895 -1.648216e+00 -1.878403e+00
## [376,] -9.567177e-01 -0.8381904893 -0.0895438567  5.125795e-01  3.663138e-01
## [377,] -1.535315e-01 -0.4144823522 -0.1836527325  1.888899e-01 -1.598629e+00
## [378,]  1.086481e-01  1.0176279804 -0.2217484434  5.721656e-01 -5.709476e-01
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## [380,]  5.956722e-03 -0.1410866348  0.1774297959 -1.583909e+00  3.758010e-02
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## [386,]  2.956888e-01 -1.1060322715 -1.2544717173 -1.260526e-01 -1.369767e+00

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## [387,] 1.368381e+00 0.7662689466 -0.0756877715 -2.865857e-01 -1.957569e+00
## [388,] 2.134428e+00 -0.7893293849 0.0163596321 -1.017480e+00 3.446573e-01
## [389,] -2.599323e+00 -0.7950625767 0.6008922807 4.623737e-01 -6.700082e-01
## [390,] -6.900313e-01 -1.2509842589 1.2154350982 -7.596160e-01 -2.253925e-01
## [391,] -5.296107e-01 -0.0495473525 -1.5189181175 2.146041e+00 1.336412e+00
## [392,] -4.376259e-01 1.3870642828 0.3126187225 -5.257802e-01 -5.952714e-01
## [393,] 5.599167e-01 -0.5706689437 -0.2964568230 6.473338e-01 -8.286092e-01
## [394,] -1.719973e-01 0.0017360546 -0.1168333875 5.197415e-01 -3.733510e-01
## [395,] -1.090949e+00 1.0239275873 0.6136359812 1.436738e+00 -5.500334e-01
## [396,] 7.546993e-01 -2.0217296968 0.4049694912 5.969053e-01 2.084046e+00
## [397,] 2.191736e-01 0.2256482228 -0.1064249040 3.035923e-01 1.005907e-03
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## [399,] -1.066716e+00 0.7778617555 0.4795495380 3.202175e-01 -3.358160e-01
## [400,] -1.330972e+00 -0.3329615908 0.6845715536 -1.914157e+00 3.936706e-01
## [401,] -1.895182e+00 -0.6278061353 0.6952627398 -1.508584e+00 9.286092e-01
## [402,] -4.328339e-01 0.2517286128 1.5076536018 -3.221644e-01 -1.138249e+00
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## [405,] 2.078395e-01 -0.1336936043 -0.4061699730 8.933359e-02 -1.161548e+00
## [406,] -2.363220e-01 -0.5283338455 -0.4406854333 -3.349019e-01 4.469742e-01
## [407,] -5.939230e-01 0.9310943418 -1.2764820461 -4.012525e-01 -3.008319e-01
## [408,] -1.715762e+00 -0.4732552110 0.4419109568 1.531935e+00 3.326853e-01
## [409,] 2.864471e+00 -0.3530312949 -0.7724163449 1.091435e+00 -1.476885e+00
## [410,] -2.004981e+00 0.0795384158 0.1632345870 1.183490e+00 1.905162e+00
## [411,] -6.492458e-01 0.9315311636 0.9938429047 1.900339e+00 -1.865178e-01
## [412,] 5.398145e-01 0.3620432498 -1.4630282416 -1.950767e-01 3.412449e-01
## [413,] 6.715650e-01 -0.0355355168 0.0106330660 5.626869e-01 -2.371170e-01
## [414,] 1.210582e-01 -0.4632651437 0.4923194771 -2.355989e-01 -6.123993e-01
## [415,] 6.701065e-01 0.8335798083 -0.7652426302 -9.427310e-01 1.057421e+00
## [416,] -3.938790e-01 -1.6681700483 1.3054327801 -7.627713e-01 -8.799230e-01
## [417,] -3.050528e-01 0.9867443108 0.2117560902 -7.114729e-01 -3.099200e-01
## [418,] 1.151864e+00 -1.1394735840 -0.0520581481 -1.780794e+00 -1.975216e+00
## [419,] -1.328718e+00 -1.7370760071 -1.1422490702 1.020596e+00 -1.984846e-01
## [420,] 2.857463e-01 -0.3708572140 -0.2282157681 5.079030e-01 1.259536e+00
## [421,] -2.281075e-01 0.9400586771 -0.9575717545 -3.586505e-01 -2.510030e-01
## [422,] -1.427634e+00 -0.1301814450 0.0399365572 -1.757646e+00 2.020985e-02
## [423,] 1.066108e-01 -0.5813566639 0.2896223987 7.618459e-02 -6.948975e-02
## [424,] -1.406042e-01 0.4236050129 2.8043380984 2.935497e-02 1.130947e-01
## [425,] -1.752724e+00 0.5430682694 -1.1496508883 -4.679343e-01 3.737961e-02
## [426,] -1.196517e+00 0.2667088503 -1.9205514162 1.813462e+00 -1.726217e-01
## [427,] -3.972999e-01 -0.7051208375 0.8068475247 2.460217e-01 -4.699259e-01
## [428,] 2.223508e+00 -1.8383471508 -1.2470970663 2.899211e-01 7.480419e-01
## [429,] -1.158835e-02 0.0141468612 0.5523831770 -1.070404e+00 7.009114e-01
## [430,] -8.271456e-01 -0.1825043968 -0.1288770206 -1.793949e+00 -5.406320e-01
## [431,] 1.582477e+00 0.3274096176 0.1763155212 -7.770085e-02 8.026010e-01
## [432,] 8.962404e-01 0.5158464836 2.9883388896 2.290582e+00 8.959114e-01
## [433,] 4.901407e-01 0.0913281503 0.3510257045 -1.295358e-01 -5.361651e-01
## [434,] 1.378288e+00 -1.2303410891 1.3434390819 -7.511146e-01 -3.193743e-01
## [435,] 1.187326e+00 1.2295574112 0.0804821837 9.355003e-01 -2.300744e-01
## [436,] 3.187773e-01 0.2979431995 2.1412183084 -1.706184e-01 4.057428e-01
## [437,] -7.595059e-01 0.6987994698 -0.0457459325 5.628036e-02 4.333974e-01
## [438,] -9.562243e-01 -0.5052419048 1.7199930459 1.060591e+00 -4.153912e-02
## [439,] -1.543031e+00 0.5267448674 -0.5397955922 -6.296269e-01 -1.405459e-01
## [440,] -2.454846e-01 -1.1184664844 -2.2373510942 -1.005239e-01 1.336758e+00

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## [441,] -1.108903e+00 -0.9224733409  0.9198343089  1.040286e+00  1.642648e+00
## [442,]  3.990918e-01 -0.9144105275  1.9985166702 -1.213026e+00  3.499207e-01
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## [451,]  1.351364e-01  2.0570359884 -1.0286821455  2.189228e-01 -7.228952e-01
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## [454,]  1.316213e-01  0.0580231389  0.4211444661 -8.442226e-01 -2.938774e-01
## [455,]  8.880557e-01  0.2068396076  0.5341866227  9.282391e-01 -3.022896e-01
## [456,] -1.983657e+00  0.5154599616  0.6004115336  2.328687e-01 -1.276484e+00
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## [462,] -5.363872e-01 -0.0619245210 -0.4989683949 -3.849151e-01 -8.570664e-01
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## [467,]  1.114438e+00 -0.3241546230 -0.4290978531 -5.311303e-01  8.337085e-01
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## [486,] -5.959262e-01  0.3046388223 -0.1297804362 -3.531906e-01  1.009427e+00
## [487,] -1.501021e+00  0.5751538874 -2.3636556564 -5.252762e-01  1.282670e+00
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## [489,] -1.049669e+00  0.9738231706 -1.1226148619 -2.112153e+00  2.396744e-01
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## [495,] -4.868970e-01  0.0899756669  1.1479802790 -5.454544e-01 -1.713777e-01
## [496,] -3.988433e+00 -0.5447526105 -1.3608937881  3.030748e+00  7.152362e-01
## [497,] -9.713669e-02 -0.5752397982 -1.3281918817 -1.157611e-01 -1.533857e+00
## [498,]  1.702173e+00 -1.3870818076 -1.1422833621 -8.602060e-01 -1.168764e+00
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## [504,]  5.239478e-01 -0.3937451400  1.5455518679 -1.025871e+00 -1.120604e+00
## [505,] -1.224470e+00 -1.3532259056  0.8209959786  5.650638e-01 -7.087987e-01
## [506,]  1.406095e+00  0.1098479519 -1.4414872958 -1.168223e+00 -3.361472e-01
## [507,]  1.410392e+00  0.5962000569  1.5129620464  1.253485e-01 -1.491671e+00
## [508,] -1.104442e+00  2.0456884211 -0.0272176797 -1.343934e+00  1.888257e-02
## [509,] -3.809101e-01  0.0616122392 -1.1743829188 -4.563736e-01  2.687305e-01
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## [511,]  2.079453e-01 -0.4122854080  0.6066493392 -6.176442e-02 -1.713388e-01
## [512,]  3.188404e-01  0.4992019059 -0.2878214462  8.080113e-02  1.231945e-01
## [513,] -6.196936e-01 -0.7851018703 -0.2771736214 -1.698670e+00 -1.122251e+00
## [514,]  2.838037e+00 -1.2231431906 -1.5197866676 -2.964058e-01 -6.972110e-01
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## [516,]  4.042084e-01 -0.6555674327 -0.2448879886  1.177166e-01  7.186221e-01
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## [518,] -1.463703e+00  0.0270367202  1.0230402236  6.785125e-01 -7.394716e-01
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## [520,]  7.453486e-01 -1.2684002167 -1.5028030427  2.524727e+00 -2.295366e+00
## [521,]  4.380819e-01 -0.3823437150  0.7834717690 -5.966382e-01  1.734187e-01
## [522,] -2.013920e+00 -0.9370878334  1.7377998990  1.753012e+00  1.918313e+00
## [523,] -2.276353e-01 -0.6137569632  1.6376542251 -3.248613e-01  2.254315e+00
## [524,]  1.547269e-02 -1.3157527034  1.3483171842 -2.283817e-01 -2.179863e+00
## [525,]  3.724392e-01  0.0168148367 -0.4790623471  5.217872e-01  1.071161e+00
## [526,]  5.878418e-01 -0.0971730017 -0.2666606838  3.316497e-01 -3.369811e-01
## [527,]  2.047201e+00 -0.2491665940 -0.6492597121 -1.202455e+00 -5.757283e-01
## [528,] -5.434673e-01 -1.8040477390 -1.3858184082  2.357826e+00 -3.654876e-01
## [529,]  8.927211e-01 -0.9967307944  1.2187534709  1.184720e+00  2.822678e+00
## [530,] -5.073177e-01  0.1468471159 -0.9909650718  8.188761e-01  1.244036e-01
## [531,] -1.332599e+00  1.0660331922 -0.2158424725  1.179515e-02 -2.189126e+00
## [532,] -6.708245e-01 -0.2023439859 -0.5404993739 -5.132867e-01  1.547766e+00
## [533,]  1.223348e+00  1.0790232375 -0.0981943785  1.083254e+00  5.824762e-02
## [534,] -7.312610e-01  3.1502344819 -0.6821267565 -9.199379e-01 -4.519622e-01
## [535,] -1.447718e+00  0.6829317507 -0.1022474852  1.153326e+00 -1.039173e+00
## [536,]  3.954645e-01 -0.0018831055  0.1782919922 -1.137208e+00  1.181495e+00
## [537,] -7.430252e-01 -1.3175286226 -0.8127934498 -1.275287e+00  5.584514e-01
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## [539,] -1.912062e+00 -2.7765550913  0.9618722427  1.195009e-01 -1.544507e+00
## [540,]  4.915338e-01 -1.2120305767 -0.1899069066  2.699492e+00 -1.132728e-02
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## [549,] -1.455460e+00 -0.7143474317 -0.3766407515 -2.969534e-01 -4.893058e-01
## [550,] -1.327765e-01 -0.1363353593  0.0564026012 -1.008300e-01  5.954715e-02
## [551,] -5.467727e-01 -0.6395682264 -2.4883839913  8.420833e-01 -5.235523e-02
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## [557,]  3.975317e-01  1.8066809857  2.9795781069 -4.404469e-01  8.128754e-01
## [558,]  8.898605e-01  0.3430356611 -1.7711082122 -2.106765e+00  1.907270e+00
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## [564,]  4.643535e-01 -2.1733772642  0.4430611267 -1.258879e+00 -1.000677e+00
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## [579,] -4.133805e-01  1.0550115317 -0.0599009385  2.886003e-02 -4.873413e-01
## [580,]  1.088525e+00  0.2539939067  0.8980628451 -8.505139e-01 -3.739378e-01
## [581,] -1.337479e+00 -0.3453483719 -0.1755394192 -1.962671e+00  3.124305e-01
## [582,] -6.549572e-01 -1.1967207782  1.4921174181  5.637822e-01 -1.609665e+00
## [583,]  6.294859e-01  1.0736899062  1.1200248709 -2.144519e+00 -3.434744e-01
## [584,]  9.705584e-02  0.2022121801  0.2965425180  7.381425e-01  1.379075e-01
## [585,]  2.809883e+00 -0.6753975708 -1.5110235924 -5.365223e-01  1.485089e-02
## [586,]  5.021340e-01 -0.3035917772 -0.4332261959 -5.972984e-02 -5.192336e-01
## [587,]  8.7577701e-01  3.4913948853 -1.5056695753  1.495592e+00 -7.143420e-01
## [588,]  8.270664e-01  0.5577226431 -0.1307740467  9.861713e-02  7.663013e-01
## [589,]  8.635404e-01 -0.3402880965  2.0045039025 -1.005545e+00 -1.650808e+00
## [590,]  8.140339e-01  1.0374455572 -0.6818627873 -1.403250e+00 -2.253052e-01
## [591,]  1.229525e+00 -1.4319571261 -0.9186161532  6.021351e-01 -1.520475e+00
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## [594,] -1.687517e+00 -0.2974574019 -0.1560911194 -4.043199e-01 -8.768407e-02
## [595,] -9.935458e-02  0.0164044530  1.1375882623 -5.721057e-01 -6.004581e-01
## [596,] -7.543250e-01 -1.2514009621 -0.4237539707  6.378901e-01 -1.360682e+00
## [597,] -4.220921e-01 -1.4817292930  1.6546095548 -1.597031e-02 -1.090834e+00
## [598,] -2.850755e-01  1.2125034030 -0.3497740876 -2.337704e-03  1.758964e+00
## [599,] -2.837375e+00 -1.7979467255 -0.0969833056 -9.327205e-01 -1.234961e+00
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## [601,]  1.243325e-01  1.2302479994 -1.1008520645  5.450727e-01  1.053290e+00
## [602,]  4.772395e-01  0.3298912940  0.3994379402 -1.225614e+00 -1.275623e+00

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## [606,] -2.932795e-01 0.7290964832 -1.9245311010 -1.428859e-01 2.935261e-01
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## [608,] 7.386207e-01 -0.0082182523 -0.5236392877 -1.180857e-01 6.610007e-02
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## [617,] 6.290262e-01 -0.5596842871 -0.4035194639 1.316780e+00 -1.277894e+00
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## [621,] -3.654962e-01 -0.8619384156 1.5873467740 -4.373160e-01 1.071271e-01
## [622,] -6.334588e-01 1.3767473209 2.0387102940 -1.175380e+00 -8.568488e-01
## [623,] 1.103443e+00 1.5028349768 0.1537179817 1.096885e-02 -1.321213e-01
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## [626,] -1.830064e+00 -0.9102219224 -0.1215174229 5.263835e-01 -8.953985e-01
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## [669,] -8.275726e-01 -0.8634786415 -0.7514966787  1.769793e+00  3.776770e-01
## [670,]  9.806767e-01 -0.7847173344  0.8381380148 -7.702280e-02  1.880986e+00
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## [672,] -6.909260e-01  2.5965135660  1.7922126733  2.869207e+00 -1.012560e+00
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## [682,]  3.973921e+00 -0.2188069824 -1.2086293656  1.008336e+00  7.668508e-01
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## [692,]  3.433256e-01 -0.5951379167  0.8518686334 -8.365467e-01  4.033395e-01
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## [713,] 2.053700e-02 1.7740636130 -0.7977348582 -4.775586e-01 1.054698e+00
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## [748,] -3.668198e-01 5.1256851924 -1.1624603701 -1.535036e+00 -8.187756e-01
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## [753,] -8.457145e-01 -0.1457710483 -2.4897160993 -3.034657e-01 1.779596e-01
## [754,] 1.829026e-01 -0.4172869974 -0.1079640153 -1.570569e-01 -1.088441e+00
## [755,] 1.557771e-01 1.1580142175 -0.4767311639 5.666175e-01 -5.701007e-01
## [756,] -1.345421e+00 -0.3099577875 0.7096747660 -1.181506e+00 -8.175440e-01
## [757,] 1.175033e+00 -1.5128188714 0.2427709802 -2.520930e-01 7.971607e-02
## [758,] 5.153040e-01 -0.0912353257 0.2210347975 -6.261611e-01 -5.089174e-01
## [759,] 2.365171e+00 -3.5008323400 -3.0509743963 2.402889e+00 2.715615e-01
## [760,] 7.323857e-01 -0.4469604208 -0.7858965660 1.283495e+00 -3.039429e-01
## [761,] -5.877892e-01 -0.0527279362 1.2613537967 -3.052973e-01 1.837416e+00
## [762,] 1.106289e-01 -0.9782039297 0.0414087671 -6.892561e-01 -7.911181e-01
## [763,] 5.395111e-01 -0.8254893048 1.2969145542 8.944025e-01 -7.120299e-01
## [764,] -5.972334e-01 0.0946965135 -0.9572767773 3.608218e-01 2.471456e-01

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## [765,] 7.451314e-01 0.1234769201 0.5090862962 -2.405802e-01 -5.060726e-01
## [766,] -1.163141e+00 -0.2201829865 -0.4141859902 3.409689e-01 -9.214312e-01
## [767,] 7.901851e-01 -0.7441088921 0.1773023361 -8.054267e-01 -7.796633e-01
## [768,] 5.997257e-01 -0.0219774958 -0.3100761100 -6.593205e-01 -3.728240e-01
## [769,] 2.502435e+00 0.6381422601 -1.2824797005 1.030963e+00 7.128588e-01
## [770,] -2.242248e-01 -0.2597682786 -1.1683644220 1.039495e+00 -9.937655e-01
## [771,] 1.508970e-01 0.3530142162 -0.3114761143 -8.980165e-01 -2.939791e-01
## [772,] -3.134036e-01 -0.4404669143 -1.4216606873 -2.797988e-01 -1.469433e+00
## [773,] -2.100268e+00 -1.5152603951 -0.1900884994 5.034479e-01 3.607159e-01
## [774,] -4.622011e-01 0.5221749115 0.6314388193 -5.704736e-03 8.090308e-01
## [775,] -1.302458e+00 -0.9033134152 0.5982469843 -6.601782e-01 2.760017e-01
## [776,] 5.326610e-01 1.3559237080 -0.3802820541 -5.988002e-01 1.083877e+00
## [777,] 1.619947e-01 -1.5976045021 1.0422241843 1.144419e+00 5.411553e-02
## [778,] 1.005137e+00 0.4427443465 1.4592401321 2.750002e-01 7.482656e-01
## [779,] -1.377423e+00 0.7325269922 0.3072069670 2.619293e+00 -1.710566e+00
## [780,] 7.501552e-01 0.2098153714 0.4547828150 -6.084358e-02 -3.706915e-02
## [781,] -1.095919e+00 0.1913980684 0.7075439877 1.730941e+00 4.329666e-01
## [782,] 4.1110945e-01 -0.2116566476 -0.5864898447 1.962900e-01 1.837834e-01
## [783,] 3.675642e-01 -0.7530959337 0.1232756853 -8.409875e-01 -3.285900e-01
## [784,] -1.186021e+00 0.4593282778 0.1669480450 8.445125e-01 -1.003164e-01
## [785,] -6.951481e-01 -0.0672544318 0.5550858303 6.800239e-01 3.957933e-01
## [786,] 1.378301e-01 0.2065542280 -1.3267918619 2.305017e-01 -1.929582e+00
## [787,] -6.736193e-01 0.6151358761 0.1741999480 1.291302e-01 -1.942972e+00
## [788,] 1.034969e+00 1.3409154910 -0.6257492229 4.924008e-01 -1.821541e-01
## [789,] -2.962409e-02 -0.1511680817 -0.3222177020 -1.187599e+00 -1.193332e+00
## [790,] -1.288964e+00 -0.2143685150 0.0392951786 -1.751806e+00 6.080815e-01
## [791,] -7.992144e-02 -0.2179292346 -0.0700047608 -1.849655e+00 6.961886e-01
## [792,] 2.003801e-01 0.0059044457 -0.4717528309 3.021743e-01 1.073275e+00
## [793,] 1.874331e+00 0.3440810003 0.5910594650 -1.859748e-01 1.533503e+00
## [794,] 2.764542e-01 1.1930980941 0.8788868028 -1.957482e+00 5.240593e-01
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## [796,] -5.242155e-01 -0.8765324655 -0.2900719272 1.567014e+00 -3.428905e+00
## [797,] 1.926731e-01 0.6251860194 2.3921197256 -1.784130e+00 6.090418e-01
## [798,] -8.480786e-01 0.1023368145 0.0192622576 2.859253e-01 -1.040892e+00
## [799,] -8.913142e-01 0.0456718480 0.4077302409 -1.816529e-01 3.548850e-01
## [800,] 1.861503e+00 -0.8662868576 -1.6077923111 -1.021893e+00 1.154384e-01
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## [804,] 1.212095e+00 -1.5123416186 1.1441827854 9.793110e-01 -9.312430e-01
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## [806,] -1.147571e+00 1.7814337388 0.5593622874 -7.168194e-02 -5.913005e-01
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## [808,] -1.354613e-01 -1.8081571129 2.0302699360 7.355397e-01 -3.248744e-01
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## [810,] 6.499997e-01 -0.2859478989 -1.0705525923 -1.607152e-01 6.358551e-01
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## [817,] 5.156327e-01 0.5754450773 1.1190395028 -2.472717e+00 5.326679e-02
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## [819,] -2.413365e+00 -0.9746052989  0.8241046316 -5.042211e-01 -1.014640e+00
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## [824,] -3.301332e+00 -0.8903910407  0.3305013365 -1.004121e+00 -1.347626e-01
## [825,]  2.269654e-01  0.1469860351 -0.2232138085  1.246820e+00  1.132416e-01
## [826,]  4.213461e-02  1.3902998810 -0.1745619607 -1.355974e+00 -7.682843e-01
## [827,]  3.234941e-01 -1.6922041608 -0.1491709680 -6.375414e-01 -4.121372e-01
## [828,] -5.294922e-01 -0.4284218613  0.3921644626 -3.842263e-01 -1.778642e-01
## [829,] -1.809492e+00  0.5042380164  0.7872694813  6.193312e-01 -1.880886e-01
## [830,] -2.800487e-01 -0.6270689020  0.0179823335  3.435930e-03  3.277301e-01
## [831,] -7.235550e-01  0.7976680530  1.0421813048  1.468162e-02  1.493524e-01
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## [833,] -1.646416e-01 -0.1891145006 -0.2358907443 -3.812259e-01 -2.318495e-01
## [834,] -1.371688e+00 -0.7924674882  0.2661347581 -2.990282e-01 -2.455733e-01
## [835,]  1.092822e+00  0.8753160388  0.1126713006 -8.835960e-01 -8.377651e-01
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## [837,] -3.568881e-01 -0.0315108737 -0.0088174081  4.292384e-01  1.088732e-01
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## [839,] -1.943061e-02  2.1138619644  0.6286857912 -4.080096e-01  7.446157e-01
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## [841,] -1.053697e+00 -0.3780644743  0.1442326566 -1.288096e+00  8.427129e-02
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## [846,]  9.093331e-02  1.3855413794  0.1359922005 -1.292119e+00 -7.758477e-01
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## [854,] -2.410938e+00 -0.1725706732 -0.8309955950 -2.186258e+00  1.047371e-01
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## [856,] -2.028563e-02 -0.7858081325 -0.1841395410 -1.679192e-01  2.952185e-01
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## [871,] -1.136778e+00  0.0575021206 -0.6396484721 -7.429161e-01  6.871892e-02
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## [873,] 1.291544e-01 0.2037477738 1.0954153722 1.788194e-02 -1.098248e+00
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## [875,] 1.469141e+00 -0.1328660034 -1.3751255643 6.567907e-01 -2.005961e+00
## [876,] 1.110148e+00 -1.8078271518 0.9669050000 1.470833e+00 5.292440e-01
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## [879,] 2.148240e-01 1.0948181115 -1.0684859594 -1.450397e-01 -1.094533e+00
## [880,] 3.547786e+00 -1.9115496527 1.5157991953 -8.932316e-01 1.419501e+00
## [881,] -1.906052e-01 0.6524046053 1.3483584701 1.971162e+00 -1.616995e+00
## [882,] 4.813584e-01 0.2788012328 0.8927866164 -1.057026e-01 -2.487070e-01
## [883,] -2.056880e-01 -0.8595443424 -0.3990618978 -2.930472e-01 -1.644526e+00
## [884,] 3.603331e-01 0.9618036209 0.2207217029 -6.654573e-02 9.061848e-01
## [885,] 2.774052e-02 -0.5497879136 -0.9985337741 -2.704512e-01 3.015412e-02
## [886,] -5.245523e-01 0.5676849214 -1.4920342283 -5.322652e-01 2.715590e-01
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## [889,] 1.067113e+00 -0.5164490087 -2.8744748794 2.113543e+00 -1.761140e+00
## [890,] -8.753646e-02 -2.0938081429 1.0080620199 -2.263445e-01 -2.028504e-01
## [891,] 9.010444e-01 -0.0214882373 -0.5855215437 -2.481010e-01 1.718811e-01
## [892,] 2.257076e-01 -1.5916844196 0.4636212328 1.034851e+00 -7.813096e-02
## [893,] 1.609684e-01 0.1910097948 -0.7063324215 -5.625498e-01 -4.436207e-01
## [894,] 2.793718e-02 -2.5658355201 -0.3927569996 -1.473482e-01 6.065157e-01
## [895,] -6.575828e-01 0.1016895062 -0.5030340356 1.231668e-01 3.888059e-01
## [896,] -1.183761e+00 -0.0292849984 0.5659120301 2.484243e-01 -9.672974e-01
## [897,] 2.342976e-02 -0.5193347266 -2.4632740878 9.814632e-01 9.841687e-02
## [898,] -4.050889e-01 1.0227990084 -0.5226294807 -3.255864e-01 9.465149e-01
## [899,] -1.177180e+00 0.5218246195 -1.3571958564 1.151953e-01 -4.861146e-01
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## [903,] 9.484897e-01 0.8144979975 0.2324402145 3.883832e-01 1.264585e+00
## [904,] -1.455726e+00 1.1640808232 0.7620832298 7.929084e-01 -3.043120e-01
## [905,] -6.001686e-01 0.0237074181 -0.4763445153 -8.862376e-01 -4.041910e-01
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## [907,] 3.688125e-02 0.3068158622 -0.2824491583 -8.405772e-01 9.876325e-01
## [908,] 1.454692e-01 -0.0328062051 0.5134788260 1.255999e-01 -2.488184e-02
## [909,] -1.293478e+00 -0.0429948249 0.3443393742 -1.855192e+00 -5.383667e-01
## [910,] 2.319649e-01 -0.4466621657 0.4329079190 -1.298835e-01 2.263347e-01
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## [912,] 3.176491e-01 1.9072138993 -1.6815669299 -1.013145e+00 1.344746e+00
## [913,] 1.574762e+00 0.7798008478 -1.2508142125 2.433857e+00 3.055098e-01
## [914,] -2.119716e-01 -0.6233500200 -0.2075493837 -3.813398e-02 -5.286805e-01
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## [916,] 1.579257e-01 -0.6496848292 -0.2816167021 -4.869625e-01 6.581351e-01
## [917,] 8.573545e-01 0.1258605693 0.3491351780 -2.277708e-01 -5.064656e-01
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## [927,] 5.370711e-01 -0.1026639419 -0.3928469480 6.577728e-01 -3.525928e-01
## [928,] 7.596012e-01 0.1852294218 0.0923675827 9.374303e-01 7.763233e-01
## [929,] 8.681499e-01 0.4945572470 0.6728949456 -6.412856e-01 -2.910169e-01
## [930,] 7.307448e-02 -0.8947242557 0.2302815720 5.682173e-01 -1.020050e+00
## [931,] -2.046021e+00 0.0786872218 -1.3725576772 -1.812083e+00 7.737744e-01
## [932,] 3.244449e-01 0.3891819816 0.2262831176 -1.528240e+00 8.083343e-01
## [933,] 6.673832e-01 -0.0179575801 0.0726601683 -5.234606e-01 1.145962e-01
## [934,] 1.046691e+00 -0.4238529333 -0.0548625170 8.430270e-01 3.263308e-01
## [935,] 1.061272e+00 0.2272060966 -0.4474777503 -1.042931e+00 -7.394758e-02
## [936,] -2.031804e+00 -1.3805106378 -0.2262474756 -8.813465e-01 -1.761188e+00
## [937,] -8.096111e-01 -0.7471059422 0.3919515408 -9.690636e-01 -1.010219e+00
## [938,] -6.109618e-01 0.1563274999 2.3310921575 -4.198731e-01 2.556130e+00
## [939,] -1.023030e-01 -0.0982536569 -0.6133956169 -6.583789e-01 1.904758e+00
## [940,] -9.856126e-01 0.4759931149 -0.1465254517 2.889839e-01 -1.779511e+00
## [941,] 2.445429e-01 2.7019737134 -0.4308499384 9.476198e-02 -5.244057e-01
## [942,] -1.244991e+00 0.3808496573 0.2134144673 -4.678479e-01 -5.887322e-01
## [943,] -4.731469e-01 0.8742146199 -1.5845816337 -8.478762e-02 -8.125886e-01
## [944,] -1.188805e+00 0.5390691342 1.6082451489 1.405189e+00 -1.774149e+00
## [945,] -6.940243e-01 -0.4117267648 0.0508717298 -1.296611e+00 1.177927e+00
## [946,] -3.477813e-01 0.8445889219 -1.3579758341 -1.651017e+00 1.039993e+00
## [947,] 7.347263e-02 -0.3068759643 -0.8302055923 -6.409186e-01 7.674049e-01
## [948,] 5.301356e-01 -0.4273265997 0.0971947731 4.846916e-01 -7.576758e-01
## [949,] 3.227819e-01 -2.2901165168 0.5292709002 1.256920e-01 9.548775e-01
## [950,] -8.532415e-01 0.4032739367 -0.3113089546 -8.257728e-01 5.052444e-01
## [951,] 1.788281e-02 -0.5876997248 -0.4140066583 -8.420722e-01 -2.121279e-01
## [952,] -2.932008e-01 0.3739056083 -1.0223715680 -2.701751e-01 -1.210081e-01
## [953,] 5.634185e-01 -0.4870853330 -1.1372142461 6.948202e-01 -1.646752e+00
## [954,] 8.042280e-02 2.0097574899 -1.0743448909 2.667783e+00 -9.947639e-01
## [955,] -8.020647e-01 -0.4125066431 -0.4586752995 -1.404193e+00 2.042534e+00
## [956,] 1.266332e-03 0.9704671739 -0.8683394140 -6.920160e-01 -6.726499e-01
## [957,] -6.668279e-02 -0.0657411843 -0.0574281966 -1.494736e-01 9.062153e-02
## [958,] -7.188373e-01 0.5432588460 -0.5482204091 1.098198e-01 1.430404e-01
## [959,] -1.257247e-01 -0.4489593054 1.0307352344 -7.288367e-01 -6.817628e-01
## [960,] 1.234898e+00 0.2704109076 -0.6426077647 1.143509e+00 2.472542e-01
## [961,] -1.803087e-01 0.7284108017 -0.4980017593 -5.329658e-01 -2.153650e+00
## [962,] 1.415399e+00 -1.3341854717 -0.3210781540 6.698211e-01 8.564214e-01
## [963,] 5.579998e-01 -0.3064804827 -0.4028345564 -5.014262e-01 3.430171e-02
## [964,] 3.155058e-01 -0.4716580688 0.3716288207 2.129735e-02 -5.167250e-01
## [965,] 1.142181e+00 -0.9819529345 0.0134423843 -1.864653e-02 2.802851e-01
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## [967,] -3.842079e-01 -1.0666129858 -0.9526951102 -3.695001e-01 -1.136147e+00
## [968,] 7.707367e-01 1.6576081691 -2.3318215985 1.123862e+00 -8.917917e-01
## [969,] -1.202650e+00 0.7305307878 -0.4571823648 -1.612321e-03 1.336316e-01
## [970,] -4.770340e-01 0.6839537892 0.2333335244 1.934070e-01 6.304566e-02
## [971,] 4.584265e-01 1.9017441581 -1.5734631558 6.082504e-01 -1.595949e+00
## [972,] -3.391676e-01 1.3972428857 1.6027715150 1.180805e+00 4.174319e-01
## [973,] -1.768938e-01 1.1558106415 0.8243375918 3.086192e-01 -1.007403e+00
## [974,] -2.834287e-01 1.1616108011 0.4732136256 -7.169509e-01 -4.294473e-02
## [975,] 5.180706e-01 -0.2469736364 -0.2627033740 -1.398812e-01 -4.154782e-01
## [976,] -3.876459e-01 0.0722743699 -0.8334657864 -1.844580e+00 1.994492e-01
## [977,] 3.623113e-01 0.8241885457 0.7815578612 -4.033836e-02 -4.723651e-01
## [978,] 6.266896e-01 -1.0608666687 0.2251842999 -1.341931e+00 -1.255162e+00
## [979,] 3.527274e-01 -0.0575612599 0.2726107966 -4.861751e-01 2.017691e-01
## [980,] 2.660843e+00 0.4626839809 0.5076842137 -9.242200e-01 7.657535e-01

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## [981,] -2.715678e-01 -0.5320608142 -2.3695557869 1.632224e+00 1.301547e+00
## [982,] -1.189150e+00 -0.9917921214 0.1188685161 7.136327e-01 -9.009740e-01
## [983,] -1.028696e-01 -0.0779267193 0.7118107115 4.999684e-01 -3.464369e-01
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## [985,] -5.056584e-01 -0.7266145368 -0.3781443742 -1.231081e-01 2.942129e-01
## [986,] 4.470008e-01 -1.2125630855 -1.0456989264 6.573041e-01 8.423801e-01
## [987,] 2.776343e-01 1.7037166977 0.4289755531 -3.051342e-01 -1.576547e-01
## [988,] 1.063350e-01 0.0652731929 0.9102544702 4.619075e-01 -8.507457e-02
## [989,] -8.276113e-01 0.8827722408 0.1656289849 -5.328859e-01 7.152170e-01
## [990,] 9.165168e-01 1.3877183477 -1.5462198966 1.976794e-01 4.317809e-01
## [991,] -7.010185e-01 -0.5033162667 0.2234858277 1.897827e-02 -5.647144e-02
## [992,] 1.541512e-01 -0.4187278297 0.0894069186 -4.466205e-01 1.088655e+00
## [993,] -6.755814e-01 0.3580087617 0.8862410588 -9.887159e-01 -1.116462e+00
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## [998,] 1.108257e+00 1.9250881428 -1.3643175773 1.301229e+00 -2.867449e-01
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## [1000,] -9.544690e-01 -1.4913140132 0.3253167635 -4.931512e-01 -2.965946e-01
## [1001,] 1.334953e+00 1.0032124028 0.5741622884 5.244484e-01 -1.382956e+00
## [1002,] 3.195236e-01 0.0369089428 -0.7496826491 2.211173e-01 1.270773e+00
## [1003,] -1.684239e+00 2.0957204988 -0.4620445620 -8.677914e-01 2.478749e-01
## [1004,] -8.463468e-02 -0.4793266943 -1.1553209142 -9.082969e-01 -8.105337e-01
## [1005,] 2.651322e-02 0.2309350336 0.3113896387 -5.109960e-01 2.856961e-02
## [1006,] -1.651022e+00 -0.6972816484 -0.9536873128 -6.766962e-01 -1.344214e+00
## [1007,] 1.290983e+00 1.0199977904 -0.0396756776 -8.155441e-01 -6.296091e-01
## [1008,] 1.410768e+00 1.9954800349 -0.6653560870 4.119036e+00 -4.142484e-01
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## [1010,] -7.450536e-01 2.0629778420 -0.2017248707 4.676909e-01 2.884024e+00
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## [1012,] -1.215794e-01 -1.2301628499 0.7834277585 3.324406e-03 -9.603009e-01
## [1013,] 3.467239e-01 -0.2822930973 0.4912789082 -1.354676e-02 -4.376601e-01
## [1014,] 2.486927e-01 0.9000235388 -1.3584476129 -9.961533e-01 -4.904115e-01
## [1015,] 1.104445e+00 -0.9084773814 0.8255792752 1.597562e-01 -2.492758e+00
## [1016,] 7.426280e-01 0.2745864914 -0.6232731481 -1.732539e-01 1.710122e-01
## [1017,] 4.043373e-01 0.1857697931 -0.0459215486 -5.357588e-01 -4.418888e-01
## [1018,] 9.640392e-01 -0.4870728787 1.2814662279 -1.640739e+00 -1.454103e+00
## [1019,] 3.368409e-02 0.9655962304 0.0198265427 -2.403948e-01 3.531568e-01
## [1020,] 6.472572e-01 -1.6964697952 -1.0572656278 -1.070524e+00 -4.344343e-01
## [1021,] 9.745792e-01 1.4128399515 -0.4398001540 -5.156224e-01 6.528040e-01
## [1022,] -5.657339e-01 0.2511223008 0.8047184215 3.941325e-01 2.185798e+00
## [1023,] 9.791871e-01 0.2607198674 -0.8700956603 -7.656347e-01 -2.835391e-02
## [1024,] 6.635170e-01 0.1944381543 0.3431619340 1.553011e+00 -4.459408e-01
## [1025,] 2.468170e-01 1.1909855420 0.0729022702 1.021218e+00 1.057432e-01
## [1026,] -2.382510e-01 -0.5959938047 -0.3664819537 6.512080e-01 1.333483e+00
## [1027,] 2.177625e-01 -0.2241049621 -0.0503431430 -9.581551e-01 -5.214295e-01
## [1028,] -1.850857e-01 0.6034646985 0.2756336565 -1.966566e-02 1.809641e+00
## [1029,] -3.987906e-01 -0.2513139256 0.5583379765 5.390224e-01 -6.633281e-02
## [1030,] 6.602883e-01 -2.1008538247 -0.1624216569 6.601276e-02 -1.379687e+00
## [1031,] 1.688127e-02 -1.2001292102 1.4830083991 -1.585908e+00 -9.697649e-01
## [1032,] -9.714125e-01 0.6162757057 -1.6843111175 6.866607e-01 6.597495e-01
## [1033,] 2.358798e-01 0.9160226694 -0.9656646384 6.499577e-02 2.308359e+00
## [1034,] -2.375602e-01 0.4379995223 -0.9618787724 -5.838726e-01 -7.862687e-01

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## [1035,] -1.310743e+00  0.0015921349  0.0018492614  2.162291e+00 -1.304561e+00
## [1036,]  1.072343e+00 -0.2765504645 -0.0981899333 -5.881880e-01 -4.548281e-01
## [1037,] -1.542602e+00  0.5063578909 -0.8443893951  4.748740e-01  1.892407e-01
## [1038,]  5.415686e-01  0.6057246945  0.7039078691  3.201873e-01  1.967477e+00
## [1039,]  5.750797e-02  0.1726299364  0.2245048631 -1.296200e-01  1.017157e+00
## [1040,]  1.227205e+00  1.4163338800  0.1473261231  3.113708e-01 -6.126843e-01
## [1041,]  3.251794e-01 -0.5470219318 -0.3973305566  6.620400e-01  3.613032e-01
## [1042,]  2.092797e-01 -0.8152859284  0.6905534170  1.450208e+00 -1.234455e+00
## [1043,] -1.466515e+00  0.9543676929  0.0352073883  8.338758e-01  7.729083e-01
## [1044,]  1.319129e+00  1.9520085731  1.3556917524 -2.743677e-01 -4.741358e-01
## [1045,] -1.338875e+00  0.2150590363 -0.9725658755 -6.696975e-01 -1.031728e+00
## [1046,]  8.749595e-02 -0.5946760257 -0.5256844901 -3.131454e-01  1.723202e-01
## [1047,]  1.451403e+00 -0.2978450720 -0.3699817316  5.619086e-01  1.572672e+00
## [1048,] -8.690379e-01  0.2826127493  0.3251409664 -5.171055e-01 -1.077318e+00
## [1049,]  8.428602e-02 -1.5495675099  0.7090288482  9.978395e-01 -6.593665e-02
## [1050,]  2.001415e+00 -0.9426224305  0.3788533010  5.972313e-01 -7.498382e-01
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## [1052,]  6.383575e-02  2.7746270628  0.7711309719 -8.252564e-01  5.457975e-02
## [1053,]  9.252083e-01 -1.7893088295 -1.5333117833 -5.170866e-01  3.188239e-02
## [1054,]  9.790045e-01 -0.0075437137  0.2483051033  2.010179e+00 -4.248711e-02
## [1055,] -2.252448e-01  1.2503892044  1.7258231308  2.682907e+00 -1.769743e-01
## [1056,]  3.255276e-02  0.0690775390 -0.0142557488 -7.118506e-01 -1.492220e-02
## [1057,]  1.436847e+00  1.0045857406  0.3325197197  1.873181e+00 -1.507070e+00
## [1058,]  1.324156e+00 -0.2901040355 -0.2649295963 -2.622010e-01  3.406344e-01
## [1059,] -1.981137e+00 -0.8508319792  1.1245577845  4.377198e-01  1.187972e+00
## [1060,]  7.213431e-02 -0.7934781791  0.9172459015  1.300760e-01  1.737601e+00
## [1061,]  2.723975e-01 -0.8736135134 -0.0223576093 -1.096076e+00  1.415633e+00
## [1062,]  2.399296e-02 -1.4585423914  2.5722160382 -2.414495e+00  5.499358e-01
## [1063,] -4.375437e-01  0.8260673663 -0.2086197298 -3.311723e-02  2.002955e+00
## [1064,]  5.982118e-01 -0.1204097861 -0.5090336205 -3.772946e-02 -2.777342e-02
## [1065,]  3.114750e-01  2.0866806721  0.6970159504  3.719796e-01 -7.195347e-01
## [1066,]  7.413393e-01  0.6648941053 -1.1636039453 -2.255947e-01 -1.339806e+00
## [1067,]  3.671098e-01  0.1687699030  0.6409306780  1.879359e-03  7.753119e-02
## [1068,]  3.387148e+00 -0.7785121485 -0.0758310867  7.093615e-01 -2.988655e-01
## [1069,]  3.742360e-02 -0.2257107025  0.4677734769 -1.574827e-01 -7.386247e-01
## [1070,]  2.014406e+00 -0.2171246398  0.5689256275  1.757057e+00  6.561993e-01
## [1071,] -2.058478e-01 -0.9015900512  0.0815912309  5.324426e-01 -2.373231e-01
## [1072,] -9.546045e-01 -1.8823501486  1.7854986562 -1.467192e+00  5.769311e-01
## [1073,] -4.093634e-01  0.0948905619  1.8704134303  1.659916e-01  1.049116e+00
## [1074,]  2.766982e-01 -0.2782422143 -0.0280790558 -2.600507e-01 -8.938026e-01
## [1075,]  1.892383e-01 -1.5353566215 -0.0726808543 -4.119573e-01  8.591170e-01
## [1076,] -1.172873e+00  0.3985049011  0.6687214216 -6.765560e-01  1.240161e+00
## [1077,]  3.860878e-01 -1.1853778026  0.3923774686 -5.719674e-01 -2.758497e-01
## [1078,]  7.194716e-01 -0.0258803565 -0.1927578089 -7.325563e-01  1.560838e-01
## [1079,]  1.326310e+00  0.7215080880 -3.0166028184  1.357796e+00 -7.185131e-01
## [1080,] -1.176849e+00  0.7441399467  0.6140185278 -7.354588e-02  6.536785e-01
## [1081,] -2.163411e+00 -0.2990515570  0.5438899604 -8.667737e-02 -1.477838e-01
## [1082,]  6.495359e-01 -0.3262170725 -2.4157137276  6.467467e-01  4.562759e-01
## [1083,]  6.530783e-01  0.0032697390  1.9630273377 -1.854514e+00 -2.122982e-01
## [1084,]  2.639442e+00 -0.6750730759  0.8291728495 -4.158400e-01  1.294630e+00
## [1085,] -5.286335e-01 -0.4057399852  0.2486351315 -1.383140e+00  3.877008e-01
## [1086,] -5.596752e-01  0.5809418957  0.8979886605 -1.343353e-01 -1.938187e-03
## [1087,]  1.509883e+00 -2.1849884570 -0.4410308743  6.051791e-01  4.457784e-01
## [1088,]  1.537391e-02  0.3105651177  2.3876690781  1.998047e+00  4.213258e-01

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## [1089,] -2.025973e+00 -0.7140343906  0.3876734228 -1.748922e+00  8.721959e-01
## [1090,]  1.000082e-01 -0.4463159913 -0.0952055181  1.047954e+00 -1.410727e+00
## [1091,]  3.541981e-01 -0.3751387022  0.3020006661 -8.249412e-01 -2.978691e-01
## [1092,] -8.435807e-01  0.3044588452 -0.8859114209 -8.937777e-01  7.381502e-01
## [1093,]  4.854588e-01  1.1786628177 -1.4698566462 -1.204145e+00  1.081153e+00
## [1094,]  6.108001e-01  0.4656412363 -0.0578783352  1.440466e+00 -3.864945e-01
## [1095,] -8.981383e-01 -0.1975943938  1.4403574199 -3.095845e-01 -1.739669e+00
## [1096,]  2.349223e-01  0.4214195543 -0.8910988211 -2.895549e-01 -7.408720e-01
## [1097,] -1.813858e+00 -0.2571596265  0.4451399354  9.645376e-01 -5.593883e-01
## [1098,] -1.605542e-01  0.0192226449  0.6565420501  3.404515e-01 -3.336566e-01
## [1099,] -8.936876e-01  2.2065862277  1.0093543375  7.883058e-01  7.382663e-01
## [1100,] -2.040366e-02 -0.0897718211 -0.9452289514 -9.105307e-01  8.971119e-02
## [1101,] -6.068232e-01 -0.0667175464 -0.6094891242 -3.600994e-01 -2.164479e-01
## [1102,]  7.972160e-01  0.1974776125 -0.0370703772  1.295281e-01  1.479550e+00
## [1103,] -6.501417e-01  0.4599391334  0.0284684704  4.792230e-01  1.026223e+00
## [1104,]  1.110878e+00  0.3757800426  0.7806580359  1.415022e+00 -4.448386e-01
## [1105,] -1.305537e+00  1.7113704498 -0.9902430604  9.054180e-01  2.052002e+00
## [1106,]  3.752445e-01  0.7255371601 -0.4973872278  1.050677e+00 -4.700644e-01
## [1107,]  7.488764e-01  0.0707945351 -1.8806805621 -4.406184e-01  2.422686e-01
## [1108,]  6.940933e-02 -0.1869175083 -0.0021443483  1.108569e-02  1.778319e-01
## [1109,]  4.502667e-01  0.1685912623  0.4069566095  2.559348e-01 -2.058676e+00
## [1110,] -9.797625e-02  0.2152223383 -1.3905586636 -2.828030e-01 -1.471213e+00
## [1111,] -4.958226e-02 -0.3020911395  0.9769823612 -7.875773e-02  3.615232e-01
## [1112,] -1.421990e+00  0.1875555903 -1.0312255628 -1.214839e+00 -9.710698e-02
## [1113,] -6.339730e-02  1.6195373824  3.1883925830  1.384840e+00  3.728742e-01
## [1114,] -6.930054e-02  0.2304686081 -1.0773016645  9.476027e-01 -1.114678e+00
## [1115,]  3.676521e-01 -0.3450498471 -0.0048067015 -7.761749e-01  1.380599e+00
## [1116,] -1.736761e+00  0.6084308111 -0.5009634368  1.261301e+00  4.125676e-01
## [1117,] -2.260982e+00 -1.5698491937  1.2546591747  1.904578e+00 -1.400856e+00
## [1118,] -2.612656e-01  3.6946283171  0.6379293224 -1.605997e-01 -1.308371e+00
## [1119,]  1.541837e+00 -0.9874359089 -0.7080723722 -2.144646e-01  1.298100e+00
## [1120,]  1.023160e+00  1.7492636638  1.0949926845  1.826472e-01  6.480921e-01
## [1121,] -3.340408e-01  0.4142229136 -0.4454233585  6.537854e-01 -2.614499e-01
## [1122,] -1.858562e+00  1.9659936002 -0.4423465215 -3.203235e-01  9.548087e-01
## [1123,]  4.180416e-02 -0.1793001757 -0.1744000778  9.137423e-01  2.609307e-01
## [1124,] -9.858629e-02 -0.3416817851  0.5743048761 -6.734053e-03 -1.477572e-01
## [1125,]  6.222643e-01 -0.2254941102  0.4840154585  1.101740e+00  1.747825e+00
## [1126,]  1.948557e+00  0.1101320867  0.5956019025 -4.116508e-01 -6.089003e-01
## [1127,]  1.515738e+00 -0.2039679009  2.0791140920  7.199765e-01 -3.460270e-01
## [1128,]  1.115374e+00 -0.3165865159  2.2763899541  5.415043e-01  1.353717e+00
## [1129,]  6.505687e-01  0.5802058219  0.3749399259  4.425646e-01 -5.636992e-01
## [1130,] -7.451445e-01  0.4237841942  0.4765266151  4.682618e-01  9.528837e-01
## [1131,] -5.124139e-01 -1.0012065383 -1.1352016205 -1.082250e+00 -3.629487e-01
## [1132,] -1.360100e+00 -0.5794324877  0.4038134586 -9.170806e-01  8.951331e-01
## [1133,]  2.026332e+00 -0.5881606797  0.2901555057 -5.079788e-01  6.997840e-01
## [1134,]  1.709563e+00  0.0166659221 -0.8746452850 -4.118423e-01 -2.633536e-01
## [1135,] -1.244940e+00  0.6834565024  1.9691105960  9.138577e-01  8.643822e-01
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## [1137,] -3.678423e-01 -0.8479347412 -0.0562012756  7.648091e-01 -1.341938e+00
## [1138,] -6.541396e-01 -2.0685500554 -0.1415706287  2.968883e-01  4.139710e-01
## [1139,] -7.019666e-01 -1.4141025341  1.0103604394 -2.483266e-01 -7.937938e-01
## [1140,] -6.292042e-01 -1.9917279999 -0.4839261575 -3.512012e-01  3.134714e-01
## [1141,] -1.175849e+00 -0.2734033177  1.1646261319 -1.677864e+00  1.439465e+00
## [1142,] -2.381248e+00 -0.6020451688  1.2811294834 -1.003509e+00 -2.407976e+00

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## [1143,] 1.062883e+00 0.2769732041 0.3730802670 -2.807369e-01 1.357806e+00
## [1144,] -1.135105e+00 -2.0780047911 0.7850742904 5.231640e-01 2.608177e-01
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## [1146,] -1.716760e+00 0.9135739173 -0.1144004260 6.070456e-01 8.525954e-01
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## [1149,] 2.498976e+00 0.6612092312 1.2230270424 -5.899303e-02 1.420229e+00
## [1150,] -1.065405e+00 1.2416562768 -0.0542477490 5.243207e-01 1.113400e-01
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## [1152,] -2.418998e-01 2.0094341733 0.2873189700 1.097523e-01 -1.558122e+00
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## [1157,] -6.805336e-01 0.3888637160 1.1405402464 1.018116e+00 1.128554e+00
## [1158,] -1.645825e-01 -1.1782932869 -0.0414516868 -1.231512e-01 2.842421e-01
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## [1160,] 4.223153e+00 -0.3979735147 -1.2646113726 9.251864e-01 -1.164596e+00
## [1161,] -6.567581e-02 -0.2851937750 -0.4272172193 7.449141e-02 7.649684e-01
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## [1163,] 7.949168e-01 -0.0907838419 0.7877482810 -6.125031e-01 -8.758208e-01
## [1164,] 7.569738e-01 0.5987786166 0.7782829560 1.991286e+00 7.844719e-02
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## [1166,] 3.758507e-01 -0.6953324412 -1.3194672381 5.473798e-01 7.409373e-01
## [1167,] -1.194395e+00 -0.9944697201 -0.0715345620 3.225061e-01 -6.149288e-01
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## [1173,] -1.252511e+00 -0.1869937845 0.9128027743 7.081764e-01 -1.562691e+00
## [1174,] 1.761385e+00 0.6463261727 -0.1300088070 -7.415589e-01 -9.153307e-01
## [1175,] -3.188359e-01 0.9413282186 0.2673041344 2.249369e+00 -9.924834e-01
## [1176,] -6.197216e-01 0.6046169172 1.6966446796 2.492843e-01 -9.880508e-01
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## [1184,] 4.048289e-01 -0.3057188689 2.0221582455 -1.196213e+00 -6.252827e-01
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## [1190,] -3.008549e+00 -2.0850331197 -2.0511764758 6.957075e-02 -1.443940e+00
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## [1192,] -1.539739e+00 0.2759842620 -0.2181835427 1.730849e+00 -1.307257e-01
## [1193,] -5.878291e-01 1.4061762318 -0.3614879706 1.650576e-01 1.324100e+00
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## [1195,] -8.320380e-01 0.6428285481 0.2720803697 -1.378171e+00 -3.733555e-01
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## [1197,] 8.111513e-02 0.7906048184 0.3577401199 -9.596680e-01 1.851284e-01
## [1198,] -9.774734e-01 1.3717001083 -0.1434243170 1.367699e+00 -2.885346e-01
## [1199,] 2.695185e-01 -0.2169427576 2.6722445077 -2.094582e+00 2.815714e+00
## [1200,] 2.314731e-01 -0.1167273240 -0.3798968414 7.377664e-02 3.102145e-01
## [1201,] 2.277022e+00 1.7391059680 -1.2860485522 3.322901e-01 -1.138952e+00
## [1202,] 8.170033e-01 2.3538070710 -0.6031887386 -3.666869e-01 -1.079176e-02
## [1203,] -9.169434e-02 0.8930709391 -3.1039152316 2.499031e+00 -1.294013e+00
## [1204,] 1.111036e+00 0.2607913792 -0.6539559129 1.752847e-01 1.108591e+00
## [1205,] 4.387084e-01 0.5621417410 0.6241003532 6.251794e-01 -3.444729e-01
## [1206,] 7.830589e-01 -1.8069211763 0.5184147260 5.416975e-01 3.211276e+00
## [1207,] -1.419140e+00 -0.5834463135 -0.9777908886 2.279725e-02 3.481034e-01
## [1208,] 1.123670e+00 -1.6587878262 0.0040141926 -4.105423e-01 1.704507e-01
## [1209,] -4.430509e-01 -0.3018377323 -0.1597000662 8.202536e-01 -9.312747e-01
## [1210,] -2.107861e-01 -0.0947962561 -0.1134803784 -4.015274e-01 -5.664359e-01
## [1211,] -1.112132e-01 -0.8208681875 0.5564433253 -4.709216e-02 1.974302e-01
## [1212,] -1.596937e+00 -1.9469242847 0.2039226795 -3.923007e-01 6.212552e-01
## [1213,] -1.279633e+00 -1.8512229208 -0.8122758983 2.124776e+00 7.415586e-01
## [1214,] 2.743945e-01 0.1288129739 -0.4630339855 -7.224317e-01 1.564598e-02
## [1215,] 1.541269e+00 -2.4777851993 -2.2531265395 1.463314e+00 5.863606e-01
## [1216,] 8.110504e-02 0.7086423412 -1.7247199901 9.578022e-02 -1.524554e+00
## [1217,] -1.516003e+00 -0.3166956437 0.6556582500 3.858586e-01 2.450004e+00
## [1218,] -1.013409e+00 -0.3688128887 0.9511113067 -2.266077e-01 1.326425e+00
## [1219,] 5.688098e-01 0.0408632537 -0.0938647674 -5.084767e-01 7.119537e-02
## [1220,] -4.606974e-02 0.2422154087 0.5862524816 1.643006e+00 -8.380853e-01
## [1221,] 1.893047e+00 -1.4611601002 -0.7233429048 3.878412e-01 9.900660e-01
## [1222,] 1.282957e+00 -1.8071409172 0.0578431731 2.059933e+00 -3.591026e-01
## [1223,] -9.619206e-02 -0.4646568367 0.1755086550 -4.480013e-02 9.425123e-01
## [1224,] -1.462270e+00 -1.2296687458 0.3844349266 9.950864e-01 -2.586978e-01
## [1225,] 6.813363e-01 0.0573605711 0.5160773632 8.410724e-01 -3.585250e-01
## [1226,] -1.784757e+00 -0.0908997337 0.6018666834 2.768251e+00 -1.560269e+00
## [1227,] 3.292816e+00 -0.8381013059 0.1954808181 -1.333074e+00 -1.553235e+00
## [1228,] -2.458031e-01 1.8341411933 1.6099278287 1.030376e+00 1.876659e+00
## [1229,] -1.349758e+00 0.3709769989 0.6727939531 -3.135517e-03 -1.969848e-01
## [1230,] -3.946193e-01 0.5455197233 -0.8458261264 2.316607e-01 -7.548954e-01
## [1231,] -3.542259e-01 -2.0629397031 0.8523233258 2.427720e-01 -1.557292e-01
## [1232,] -4.829205e-01 0.2664483399 -1.6312628700 1.353794e+00 1.719601e+00
## [1233,] -2.383218e+00 -1.8789347139 0.7135132545 -1.938575e-01 1.171380e+00
## [1234,] 1.425229e+00 -0.3610143520 -1.0031395975 -1.367618e+00 4.341213e-01
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## [1236,] 6.223348e-02 -0.8395984573 -0.1620854560 9.755853e-01 -3.743393e-01
## [1237,] 2.449743e-01 0.0622187489 0.5078356486 -4.851407e-01 -8.354418e-02
## [1238,] -1.115057e+00 -0.0707031058 0.1852472217 -2.246286e-01 1.346492e+00
## [1239,] -1.142591e+00 -0.2568320128 0.4534478476 1.005808e+00 -1.224522e+00
## [1240,] 9.947264e-01 -0.8287380627 -2.2125853210 1.032968e+00 1.220147e+00
## [1241,] -1.069515e+00 1.9180261199 0.7769480303 -1.451213e+00 -1.700695e+00
## [1242,] -3.132473e-01 0.9081817542 2.5127540072 7.308257e-01 6.314666e-01
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## [1261,] -1.397988e+00 0.3383532233 -0.4863807499 1.060742e+00 -1.263812e+00
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## [1277,] -2.824768e-01 1.2618700097 -0.8978387655 3.183630e-01 -2.662930e-01
## [1278,] -1.804958e+00 -0.2704777096 -0.1119135299 -3.647809e-01 -4.956446e-01
## [1279,] 1.257806e+00 -0.2770892704 -1.2901423915 2.363381e+00 7.718172e-01
## [1280,] -9.244466e-01 0.0877100393 -1.0352675024 1.493171e+00 -1.273840e+00
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## [1285,] -4.632311e-02 0.4012367040 0.0628202925 4.421246e-01 -4.316106e-01
## [1286,] 6.868104e-02 -0.7249865739 -0.6575453477 4.319311e-01 -3.003957e-01
## [1287,] 1.039971e+00 -0.6428943976 -0.9312783625 -3.243059e-01 -1.128023e+00
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## [1303,] 4.236135e-01 1.4819537177 -1.1745832578 3.885848e-01 1.774708e+00
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## [1320,]  8.811830e-01  0.5699251361  1.3686037278 -5.824093e-01 -5.941064e-01
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## [1371,] -9.737901e-01 0.5610433824 -0.8604521472 -9.123431e-01 7.142421e-02
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## [1397,] 7.460586e-02 0.4856226035 2.0175969470 2.786802e-01 -2.742494e-01
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## [1399,] -6.651862e-01 0.4975622618 0.4328553478 1.368378e+00 -2.283931e-01
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## [1402,] 3.315758e-01 0.2419591727 0.6457702137 1.087292e-01 5.323963e-02
## [1403,] 1.682377e+00 -0.2025552990 3.3502722700 -1.177462e-01 1.127849e+00
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## [1447,] -8.911074e-02 -0.8170595972 1.4462305775 3.513504e+00 -7.965666e-01
## [1448,] 4.318746e-01 -0.1983862795 -0.5728517356 -2.450227e-01 2.613432e-01
## [1449,] 1.999390e-01 -0.1292822631 -0.9988130096 -1.104346e+00 9.814003e-01
## [1450,] 5.900591e-01 1.4806077157 0.8508873103 8.934329e-01 7.726600e-01
## [1451,] -4.859923e-01 1.1943790550 1.6277135029 5.822686e-01 -4.576228e-01
## [1452,] 6.330443e-01 -0.9909799769 1.9389390484 -6.971978e-01 -1.490313e+00
## [1453,] -5.105340e-02 -0.9643811951 3.0118754494 -8.057001e-01 -1.507875e+00
## [1454,] -6.357354e-01 -1.4706520924 -3.3070214765 1.276367e-02 2.444108e-01
## [1455,] -6.923233e-01 -0.8874681559 -1.0209041758 -3.201936e-01 -6.646655e-01
## [1456,] 6.043985e-01 -0.3215629407 -0.8964278805 2.057415e-01 1.400785e-01
## [1457,] -4.797830e-02 0.1186826280 0.9423120632 -1.768234e+00 -4.974903e-01
## [1458,] 6.865409e-01 -0.1090750155 0.8909697944 -1.194915e+00 -6.335282e-01
## [1459,] -1.168179e+00 1.0770904822 0.0641883945 -5.634325e-01 -1.048842e+00
## [1460,] -8.469753e-01 -0.5879996573 -0.2060125297 -1.458484e+00 -5.082663e-01
## [1461,] 6.093769e-02 0.0404790372 0.7730320424 4.188782e-03 -5.560856e-01
## [1462,] -1.498581e-01 -0.2427227678 -1.2485899313 -2.149254e+00 9.085798e-01
## [1463,] 9.988553e-02 1.2781916865 -1.4676472922 -8.630021e-01 -1.507058e+00
## [1464,] 9.102407e-01 0.4418980978 0.3708917343 1.942058e-02 -1.923498e-02
## [1465,] 1.480946e+00 0.3248105032 -1.2227636685 -6.426969e-01 2.218245e+00
## [1466,] -1.769195e-01 -0.5354019925 0.2172575317 -1.021349e+00 -1.259318e+00

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## [1467,] -7.142602e-01 -0.3878430476 -0.8592224886 2.414044e-01 -1.412581e+00
## [1468,] 1.320006e+00 0.2941261617 2.5801643468 1.049406e+00 9.364289e-01
## [1469,] -4.892278e-01 0.7915748411 -0.4349388251 -1.621566e-01 -1.018236e+00
## [1470,] -1.032798e+00 1.0297253410 -0.1844993608 1.866837e+00 -1.346151e-01
## [1471,] 1.180844e+00 0.1343086273 1.3024268611 -2.374679e-01 2.782950e-01
## [1472,] 4.189535e-02 0.6664847896 -1.7369281566 -1.717486e-01 -2.018312e-01
## [1473,] 1.7111316e+00 -2.1356411000 0.4781911876 2.272745e+00 -2.100995e-01
## [1474,] -5.709907e-01 -0.1850637607 -2.1977378432 3.932802e-01 -6.533739e-02
## [1475,] -4.487248e-01 -0.3809301735 -0.1285956636 -3.491595e-01 -3.351250e-01
## [1476,] 1.931625e+00 0.7763267478 1.2711982379 6.120684e-01 7.760037e-01
## [1477,] -7.466002e-01 0.9762316743 1.9830737252 -1.308715e+00 1.467448e-01
## [1478,] 1.406186e+00 0.5129969631 0.7951179082 -7.568025e-01 7.937863e-01
## [1479,] -5.460218e-01 0.9288764102 -0.5026522432 1.718445e-01 -6.897206e-01
## [1480,] -4.344412e-01 -1.0084879711 0.6336385817 -7.326346e-01 -6.184664e-01
## [1481,] 2.087610e-01 0.1301630268 -0.4702763614 5.436933e-02 1.345399e+00
## [1482,] 6.595410e-02 -0.4772953749 0.3531554609 4.789652e-01 7.360004e-02
## [1483,] -6.382763e-01 1.6022935361 -1.0621256905 5.466411e-02 3.965456e-01
## [1484,] 4.128231e-03 -1.4002012874 -1.1843608124 9.001954e-01 2.674864e-01
## [1485,] -6.717798e-01 1.5341963743 -0.7068328979 1.491902e+00 -4.316394e-01
## [1486,] 1.190801e+00 2.2642921413 0.3385764084 -9.606628e-01 -3.533233e-01
## [1487,] 6.742430e-01 0.8825163096 -1.1535078395 -7.907396e-02 1.300931e-01
## [1488,] 4.416026e-01 -1.7669895722 -0.1082392118 -9.335113e-01 -1.013010e-01
## [1489,] 3.008113e+00 -1.4458882519 0.7897949526 6.290052e-01 -2.492772e+00
## [1490,] -1.140039e+00 -1.1452580451 2.1995044655 3.185441e-01 -3.988907e-01
## [1491,] 5.603867e-01 -0.8721504554 -0.3446169173 -1.117922e+00 6.818109e-02
## [1492,] 4.595002e-02 -1.4076556196 -0.9531820147 -1.227999e-01 -1.999312e+00
## [1493,] -8.433185e-01 0.9146146368 0.3237002181 -1.145859e+00 1.622937e+00
## [1494,] 1.181915e+00 -0.9794864390 0.9867795816 2.713422e-01 8.155098e-01
## [1495,] -1.889010e-01 1.6049300370 0.1327929471 -9.348635e-01 -7.296494e-01
## [1496,] -2.319307e-01 0.8995166312 -1.4244544831 5.290644e-01 6.920900e-01
## [1497,] 4.331438e-01 0.2374631541 -0.3013110504 3.287080e-01 9.104201e-01
## [1498,] -6.376161e-01 -0.4999142847 0.0350041178 1.697901e+00 9.040595e-01
## [1499,] 2.898578e-01 0.9725999183 -0.8997093593 -1.363384e-01 -1.324572e+00
## [1500,] -1.506341e+00 0.1804716025 -0.6455054492 1.953448e+00 -1.674463e-01
## [1501,] 3.783072e-01 -0.5639735753 -0.4611462256 -5.647344e-01 -1.388558e+00
## [1502,] -6.196053e-01 -0.3059803505 1.6904043893 7.467627e-02 1.101896e+00
## [1503,] -5.177076e-02 -0.5810756656 0.5462546775 1.794413e-01 -1.047365e+00
## [1504,] 5.702571e-01 0.0128890655 0.3114511902 -1.705706e-01 -1.218169e-01
## [1505,] 1.444586e+00 -0.6506632382 1.3850092599 -3.187449e-01 4.490188e-01
## [1506,] -1.948083e+00 -0.3640617974 -0.0367162135 -2.002977e-01 -6.034896e-02
## [1507,] 2.135021e-01 1.8572537908 -0.6038442538 6.262930e-01 1.474301e+00
## [1508,] 1.519610e+00 -0.4314361816 0.1800140003 -6.402339e-01 2.769084e-01
## [1509,] -8.301323e-02 -1.0384275303 -0.0513707806 6.490133e-01 1.442580e+00
## [1510,] -2.358014e-01 -1.4527987128 1.5211416254 -7.965891e-01 -4.827309e-01
## [1511,] -1.921383e+00 -2.1796080132 0.4894854282 8.374180e-01 -2.995341e+00
## [1512,] 9.638989e-02 0.8158861526 -0.1667670791 -3.673088e-01 -1.942846e+00
## [1513,] -5.879167e-01 -0.2149408991 0.6064060300 -5.173945e-01 3.357592e-01
## [1514,] 4.824609e-01 1.0047251931 -0.6795192161 1.093406e+00 1.593506e-01
## [1515,] -1.510387e-01 -0.0655823357 0.3963628294 -5.211110e-01 -4.541623e-01
## [1516,] -1.556064e+00 1.2479924580 -1.1065561725 -4.598295e-01 -1.577652e+00
## [1517,] 7.767651e-01 -1.3401248250 -1.2526856693 6.387708e-01 1.688417e+00
## [1518,] 3.342942e-01 0.4088342628 -1.0764899245 -5.228825e-01 -2.158225e-01
## [1519,] -3.784968e-01 -0.1783923148 2.2911789811 2.081033e+00 2.759619e+00
## [1520,] -1.649765e-01 0.3653721217 0.4255221393 2.635870e-01 7.704847e-01

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## [1521,] 7.077630e-01 0.1524252685 0.1904079147 3.403338e+00 -1.249093e+00
## [1522,] 1.241880e+00 1.3332614303 -0.1055221375 4.168677e-01 1.058432e+00
## [1523,] -3.346445e-01 0.2565062500 -0.5671746249 -1.270195e+00 -3.783351e-01
## [1524,] -4.873386e-02 1.0169268135 -0.6706746339 -1.258362e+00 1.375844e+00
## [1525,] 2.105112e-01 1.5798401890 -0.1408763759 1.327078e+00 -6.344004e-01
## [1526,] 4.520349e-01 -0.1807840963 0.8850453687 1.725987e+00 -7.167099e-01
## [1527,] -8.633969e-02 0.0963529081 -0.0887277306 1.689011e+00 6.310180e-01
## [1528,] 1.314067e+00 -0.7052851102 0.1867423959 6.880361e-02 7.163422e-01
## [1529,] 1.260579e+00 -0.0334283018 -0.6438779385 1.001122e+00 -1.182350e+00
## [1530,] 1.155943e-01 0.1043893911 0.9371351008 -6.826983e-01 -1.368059e+00
## [1531,] 3.682184e-01 0.5028978209 1.6191125481 1.232473e+00 -2.632281e-02
## [1532,] -6.713259e-01 1.0414079922 -1.1151396966 -7.806884e-01 -4.102621e-01
## [1533,] -7.547073e-01 -0.8272921221 0.4209482000 2.330830e+00 -9.716472e-02
## [1534,] 7.384907e-01 0.2317804932 -0.1387500910 -1.210767e-02 -1.883665e-01
## [1535,] 5.599956e-02 0.2229201204 0.1621700639 2.380839e-02 6.404369e-01
## [1536,] 2.559963e+00 0.2911405506 -1.0955228692 -4.383662e-01 -1.172985e+00
## [1537,] -1.603319e+00 0.6397704063 0.0198464848 1.419785e+00 -2.383821e+00
## [1538,] 1.345479e+00 -0.7165126580 0.2836448396 -8.184336e-02 2.484725e-01
## [1539,] 1.703670e-01 -1.8342630491 0.5589667899 -1.605952e-01 5.722822e-01
## [1540,] -2.107469e+00 0.1639206720 -0.3680829658 -2.204084e-02 1.317888e-01
## [1541,] 1.726511e+00 -0.3525649605 0.1762518983 3.612367e-01 -1.077306e+00
## [1542,] 2.116745e+00 -0.2358122073 -0.6061743547 1.807073e-01 -2.052178e+00
## [1543,] -1.766542e+00 -0.5354133392 -0.8434449441 -4.217241e-01 -3.044642e+00
## [1544,] 3.571409e-01 0.3985553171 -0.8425699108 -1.072219e+00 9.716039e-03
## [1545,] -2.356559e+00 -0.3738838407 1.0859130596 1.391438e+00 -3.371607e+00
## [1546,] -1.106639e+00 -0.5285098007 0.2252705238 -1.271314e+00 -8.680246e-01
## [1547,] -8.153210e-02 0.1044717136 -1.8512529497 -1.205707e+00 -4.671368e-02
## [1548,] 1.783722e-01 -0.6917209383 -0.2901700467 2.087705e+00 1.905883e-01
## [1549,] -9.385084e-01 0.3119047001 0.5880406322 -1.727822e+00 5.704751e-01
## [1550,] -2.899600e-01 -0.7422925928 0.4632112342 8.258521e-01 2.247381e+00
## [1551,] -1.293183e+00 0.4744098087 -1.8686644761 -4.655360e-01 1.058796e+00
## [1552,] -1.092319e+00 0.1807150480 0.2238133494 -1.718477e-02 -7.725126e-01
## [1553,] 1.342465e+00 -0.6246274010 -0.7385787320 9.694537e-01 1.472154e+00
## [1554,] 4.487929e-01 -1.2741023214 0.1023648199 -1.251389e+00 3.801309e-02
## [1555,] -1.422333e-01 0.6104739815 -0.2251587944 1.118007e+00 1.791416e+00
## [1556,] 1.253945e+00 -0.7098746355 -0.6767899553 -2.572926e+00 -5.772650e-01
## [1557,] 1.284735e+00 2.3662916362 0.3571624624 9.825680e-01 -1.999677e+00
## [1558,] -2.916603e-01 0.0767172096 -0.4197464622 1.074088e+00 -1.775180e+00
## [1559,] -2.756397e-02 -0.2290366292 0.0529760730 7.493302e-01 6.648090e-01
## [1560,] 1.260386e+00 -0.7480460983 0.7719977979 -1.339990e+00 -6.967653e-01
## [1561,] -1.993756e-01 -0.3047289864 -0.8206850025 -9.121764e-01 1.938691e-01
## [1562,] -1.313707e-01 0.7405458136 1.7229133652 -6.684452e-01 -4.777569e-01
## PC16          PC17          PC18          PC19          PC20
## [1,] -1.400207e-01 -1.222805e+00 -1.411418e+00 -0.3356023053 -0.1200586639
## [2,] -2.990940e-01  4.086416e-01 -2.197935e+00  1.6167270033 -0.2670508709
## [3,] -8.717095e-02 -8.285924e-01 -2.189845e-01  1.4808206608 -0.5044576661
## [4,] -1.334388e+00  3.581077e-01  2.079328e+00 -0.6030198791 -3.1470787823
## [5,]  1.283404e-01 -1.086658e-01  1.538913e+00 -0.3323297314 -0.1334810119
## [6,]  1.403987e+00 -9.053509e-01 -5.205557e-01  0.6446702163 -1.5893721559
## [7,]  1.868939e-01 -2.714118e-01  2.450528e-01  0.2480953358  0.6508069801
## [8,] -4.352412e-01  1.777225e-01  5.907819e-01 -1.3142924207 -0.2437405822
## [9,] -2.896711e-01 -4.608884e-01  1.723099e+00  0.7239019635 -0.1374598276
## [10,] 4.929790e-01 -9.153354e-01  9.046561e-01  0.1524771900 -0.2982394027
## [11,] 4.230841e-01 -1.428739e+00 -7.943779e-01  1.9009334200  0.5266174836

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## [12,] -8.117092e-01 -1.076000e+00 1.018587e-01 -0.5092366819 -1.0923219693
## [13,] 9.183940e-01 2.777672e-01 1.856269e-01 0.4145803892 -0.3991309646
## [14,] -1.989360e+00 -6.615347e-01 -1.628845e+00 0.6532450405 -0.5772022521
## [15,] 3.024396e-01 1.284907e+00 -7.057999e-01 -1.3214311219 -0.8426143736
## [16,] 2.300248e+00 -1.959314e-01 3.700195e-01 -0.4032525767 -0.5423208857
## [17,] 1.074189e-01 3.022236e-01 3.363818e-01 0.1773566095 -2.0635502136
## [18,] -1.791179e+00 7.041341e-01 4.809388e-01 1.4238450137 -2.1930095213
## [19,] 2.910375e-01 1.682146e+00 6.779277e-01 -1.0248736001 -2.2991704042
## [20,] 3.258664e-01 -7.447741e-01 2.468831e-01 0.5386049411 0.8318639075
## [21,] -7.943159e-04 1.049975e+00 -3.361925e-01 -1.1807934586 -1.0379725929
## [22,] 2.006655e+00 1.191143e+00 1.079921e+00 1.3001988832 0.8199761624
## [23,] -4.756882e-01 4.903945e-01 1.390949e-03 0.2955910011 -0.0813725108
## [24,] 8.169947e-02 6.432951e-01 7.456652e-01 0.7720282951 -0.6658753356
## [25,] 2.339189e+00 -2.839148e-01 4.384001e-01 -0.2097903291 1.9609299610
## [26,] -7.876670e-01 5.091630e-01 2.285784e-01 0.7758013740 0.2328799830
## [27,] -6.990791e-02 6.576458e-01 1.470203e+00 1.7749208816 0.9514863540
## [28,] 9.154004e-01 1.550822e+00 -9.842914e-01 -1.1303220790 -1.2112341289
## [29,] -5.886129e-01 -7.716832e-01 -4.458895e-03 0.5849682582 1.0686784185
## [30,] 3.386941e-01 1.269568e-01 -6.442396e-01 -1.1617789804 -0.4421410071
## [31,] 1.593625e-01 -4.489176e-01 -1.839738e-01 0.0044943971 0.4504294474
## [32,] -1.022966e-03 5.264223e-01 -4.191603e-02 -0.6710590274 -0.6143320763
## [33,] 9.020145e-01 1.615552e+00 1.572800e+00 3.5697245987 0.3681532662
## [34,] -3.122529e-01 -2.503129e-02 -8.152030e-01 -2.7571639528 0.6002632759
## [35,] 2.229630e-02 1.507283e-01 3.236324e-01 1.6619748145 0.0958930155
## [36,] 4.838551e-01 1.498828e-01 -8.281966e-01 1.2822959043 1.1524123641
## [37,] -2.562031e-01 2.483205e-01 -1.567935e+00 0.4679327919 -0.1768554050
## [38,] -3.966839e-01 -1.119257e+00 2.681324e-01 -0.1871213164 -1.8430011694
## [39,] -1.481253e+00 3.473977e-01 2.831713e-01 0.0136688212 -0.8766459306
## [40,] -7.290731e-01 -9.651691e-01 7.893929e-01 -0.6987663197 -2.0321098192
## [41,] -6.496329e-01 8.292661e-01 1.159108e-01 0.2770674262 1.9904745596
## [42,] -2.120957e+00 -1.019824e+00 3.333896e-01 -1.3228499433 -0.8671951137
## [43,] -2.597370e-01 -2.678393e-01 1.089577e+00 -0.2387632477 -0.4059264633
## [44,] -5.904284e-01 9.777365e-02 2.255097e-01 0.0802125081 -0.7686285960
## [45,] -1.251016e+00 -1.817161e+00 7.613859e-01 -0.2230144452 -1.0543162591
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## [50,] -1.191341e+00 -1.987574e+00 -9.752841e-01 0.6740986486 0.1931449203
## [51,] 3.556613e-01 -9.623026e-01 3.000610e-01 -1.5725448437 -0.2175419084
## [52,] -1.949175e+00 1.192412e+00 -1.642857e+00 -0.2970332402 -0.9571152694
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## [56,] -5.271076e-01 -7.645329e-01 1.600516e+00 0.5687318020 1.9521952738
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## [58,] 2.990040e-01 2.405696e-01 -2.982104e-01 -0.8239993952 0.6999000095
## [59,] -6.730273e-01 -2.829697e-01 1.143598e+00 0.7863142258 -0.9959814854
## [60,] -6.370100e-01 -2.222036e+00 9.093966e-01 0.1749476555 0.8352811379
## [61,] -6.147753e-01 5.497691e-02 -2.040294e-01 -0.1735227982 0.6210098655
## [62,] 9.531709e-01 1.562443e+00 -5.123311e-01 -1.4986034379 1.0236841179
## [63,] -1.062846e+00 1.548313e+00 -1.272932e+00 -0.6532468446 -0.0858133377
## [64,] 7.139005e-01 1.184286e+00 -1.148409e-01 0.7580844350 0.5819657710
## [65,] 5.823804e-01 5.358067e-01 -3.152425e-01 0.6962532294 -0.2773178685

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## [66,] -4.824084e-01 7.425154e-01 -1.250810e+00 -0.1453546988 0.8934777071
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## [68,] 1.354614e+00 -3.724740e-01 -1.289327e-02 0.7044722822 -0.8784698808
## [69,] -2.037825e+00 -1.204310e+00 -1.844732e+00 0.0191525708 -0.2037245528
## [70,] 1.074352e+00 -1.343803e+00 1.174930e+00 -0.4833377690 -0.4553495347
## [71,] 5.096637e-01 -5.517309e-01 2.538837e-01 1.0865987820 -0.3574054602
## [72,] 7.841553e-01 -4.243502e-01 -1.162746e+00 1.2697420743 -0.5610994966
## [73,] -1.044079e-01 -4.253177e-02 5.539087e-01 -0.0351180750 -0.1233083154
## [74,] -9.349130e-01 5.334496e-01 3.305023e-02 -0.9602119645 0.0067086209
## [75,] 7.648573e-01 8.203822e-01 -1.002466e+00 -0.3638086049 0.5540331138
## [76,] 4.725471e-01 -1.191248e+00 2.869507e-03 0.0211092934 0.6112971709
## [77,] -4.729578e-01 2.529396e-01 5.081579e-01 0.7117963963 2.3133851198
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## [80,] -9.432354e-01 1.409035e+00 -3.877689e+00 1.1649288593 1.0940451313
## [81,] -1.367567e+00 1.393792e+00 9.505875e-02 0.8784245038 1.0622770660
## [82,] 7.885286e-01 1.049515e-01 4.782318e-01 2.9225087929 -0.3494132972
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## [84,] -6.450712e-01 4.091227e-01 4.862169e-01 2.3837347609 0.0445061768
## [85,] -8.218983e-01 -2.308004e-02 -1.694211e-02 1.6473295117 0.4168992063
## [86,] -2.838523e-01 -3.879865e-01 -4.079233e-01 -0.0978722094 -0.7267610853
## [87,] 7.096338e-01 -4.772407e-01 -3.048965e-01 1.1577597047 1.6820001033
## [88,] -8.891528e-01 1.171241e+00 4.688058e-02 0.3172543158 0.5218749842
## [89,] -1.129631e+00 -5.845410e-01 -1.027150e+00 0.8942913339 1.2519498695
## [90,] 1.133914e+00 -9.388024e-01 -4.473963e-01 0.7396141607 0.2676443246
## [91,] 1.098011e+00 -8.526671e-01 1.363434e-01 -0.2158912194 -0.2833443560
## [92,] 7.796904e-01 -9.371930e-01 -8.307733e-02 0.0345827237 -0.3134039620
## [93,] -5.791152e-01 -3.438048e-02 2.093348e-01 1.0672880365 0.7688845095
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## [95,] 2.760276e+00 7.610855e-01 1.031805e-01 0.9723363877 2.1559949215
## [96,] -1.833002e+00 1.072266e+00 7.702141e-01 1.1933234434 -0.9618031294
## [97,] -3.671303e-02 6.744380e-01 1.111642e+00 -0.6737606601 1.7789052619
## [98,] 3.604419e-02 -4.533502e-01 -1.545771e-01 -0.0115831975 -3.9545037655
## [99,] 8.157931e-02 9.761653e-01 -2.136815e-01 1.4503167013 0.3470384990
## [100,] 3.549216e-01 9.602816e-01 3.437917e-02 0.2469649062 0.2703008679
## [101,] -4.090979e-01 1.281963e-01 1.524424e-01 1.1881929649 -0.4109371661
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## [116,] -5.291604e-01 -1.764333e-01 2.838108e-01 0.0721703190 0.3065752957
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## [119,] -2.956739e-01 2.623436e+00 -4.152236e-01 -1.1880053668 -1.0578904319

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## [132,] -9.150042e-01 6.669949e-01 -1.268743e+00 -0.5395541432 -0.6960249349
## [133,] -6.081296e-01 3.997733e-01 9.040722e-01 0.1541177360 -1.0972951354
## [134,] -7.386804e-02 -1.274177e+00 2.578663e-01 -2.6778680908 1.5885172861
## [135,] 1.262373e+00 -1.215151e+00 -9.794327e-01 -1.8290342109 1.5776556322
## [136,] -5.278047e-01 3.574632e-01 -7.173704e-01 0.0288672306 1.2256739537
## [137,] -5.393472e-01 -2.077745e+00 -2.173519e+00 -0.4579212718 0.0103178201
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## [148,] -2.192438e+00 1.048512e+00 -5.498294e-01 -1.6844103066 0.1089910809
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## [155,] 2.330775e+00 -3.962096e-02 -5.426636e-02 1.1759956623 -0.8536035117
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## [158,] -3.864074e-01 -5.578892e-01 2.335997e+00 0.4579374432 -0.2697373199
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## [160,] 4.078619e-01 -6.425103e-01 4.149377e-01 1.3773992092 -0.7730767059
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## [162,] 1.871805e+00 -2.034527e+00 3.599140e-03 1.7648799966 -2.0165045714
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## [171,] -2.018412e+00 -9.856168e-01 1.620357e-01 1.0879629179 -1.4647159262
## [172,] -2.201955e+00 1.138011e-01 3.412590e-01 1.0443463815 0.0230540517
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## [174,] 1.170529e+00 1.593143e+00 -1.587081e-02 -1.9521999465 0.8148247499
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## [179,] 5.021447e-02 -1.487629e+00 -1.221828e+00 1.2531363686 -1.4115308135
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## [181,] 1.678046e-01 -1.210922e+00 -1.561910e-01 0.6808655111 0.8234777165
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## [183,] 1.785964e+00 1.187767e+00 -2.191842e+00 0.5793304956 1.4827242482
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## [195,] -1.294592e+00 -4.286653e-01 -1.480517e+00 0.2599866324 -1.0886127453
## [196,] -1.932854e-01 -7.565350e-01 7.289792e-01 -0.7532353474 -1.4165414148
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## [198,] -1.295544e+00 5.479572e-01 1.627125e+00 -0.2126862368 -0.7081036110
## [199,] -1.706545e+00 9.010446e-01 1.616849e+00 2.3652622580 -0.5166937669
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## [238,] 4.578283e-01 -1.546632e+00 6.399071e-01 -0.6308688224 -0.3167995960
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## [600,] -1.572615e+00 -7.542818e-01 9.369001e-01 -1.0213408091 -0.8076197318
## [601,] -4.167032e-01 1.970584e+00 -2.895840e+00 -0.3883739499 1.4960640045
## [602,] -3.406505e-02 -5.433756e-02 -2.538253e-01 2.2165244715 0.0952991211
## [603,] -2.379043e-01 8.044608e-02 -5.282953e-01 1.0089056291 -0.3748481122
## [604,] 6.718950e-01 5.829903e-01 -1.559933e+00 0.9063734405 -0.8817969415
## [605,] -1.398101e+00 -8.351751e-01 -1.989507e+00 -1.5179724978 -0.0763761563

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## [608,] 2.939004e-01 -9.528881e-01 -1.776163e-01 0.6398069401 0.8162223621
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## [612,] 7.696287e-01 -1.188249e+00 -7.947573e-01 0.2698971841 -1.9662666937
## [613,] 1.019865e+00 6.013156e-01 -2.739035e+00 -0.5225153669 1.5127007243
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## [615,] -4.905687e-01 9.187535e-01 1.018862e-01 -0.8382955966 -1.9628339941
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## [619,] 1.541737e+00 -3.434574e-01 1.748502e-03 1.6346196657 0.0215657401
## [620,] -5.363493e-01 -1.371401e-01 -2.401394e-02 0.7376029800 0.4522282154
## [621,] -3.673318e-01 5.581435e-01 1.190318e+00 -0.1746157708 0.1256733215
## [622,] 1.046839e+00 9.349774e-01 -1.928392e+00 0.3108396929 0.9998186520
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## [624,] -2.298521e+00 -3.298512e-01 8.396096e-01 1.2105212846 0.6587745966
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## [626,] -1.687408e+00 1.010347e+00 -6.628765e-04 0.2566151972 0.2726859338
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## [629,] -6.290647e-01 4.181785e-02 4.528069e-01 -0.1522786190 0.1354757541
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## [633,] -8.155056e-01 -7.209219e-01 4.562170e-02 -1.2124827505 0.4733307740
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## [635,] -4.937162e-02 -2.899154e-01 4.343718e-01 0.3989392049 0.8923704914
## [636,] -6.025214e-01 -2.222078e+00 6.535991e-01 -0.9067213306 0.5628007306
## [637,] -7.133853e-01 8.681422e-02 -7.662791e-03 0.2560019896 -1.1880273670
## [638,] 1.593760e-01 1.179311e+00 1.463330e+00 -1.3056012485 -0.6546707854
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## [667,]  3.585581e-01 -9.088993e-01  3.911087e-01 -0.0643617290  0.1582284276
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## [672,] -6.918813e-01 -7.111581e-02 -4.866320e-02  1.4033369043 -0.4651575163
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## [722,] 4.242380e-01 4.421688e-03 3.358769e-01 -0.8819311230 -0.4787916828
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## [775,] -1.896774e+00 -8.317464e-01 -1.877628e+00 -0.5804106132  0.7546994969
## [776,] -1.005224e-01  2.203907e+00 -1.707230e+00  1.0545289121 -0.2187275889
## [777,] -4.992089e-01  2.702064e+00  1.261386e-01 -1.9116915180 -3.0470488879
## [778,] -1.036787e+00  1.689125e+00 -2.241802e+00  0.1644552234  0.6899433382
## [779,] -1.142120e+00  4.307292e-01  3.231958e-01  0.3323822179 -0.3733441870
## [780,]  1.224840e-02 -2.850752e-01  2.682261e-03 -0.1360167384 -0.2812749348
## [781,] -4.545599e-01  1.501268e+00  1.705966e-01 -0.2418921894 -0.5790727964
## [782,]  6.533617e-02 -6.641827e-01 -2.611381e-01  0.3490763571  1.1338766574
## [783,] -1.107935e+00  1.614807e+00 -2.696546e-01  0.4104866694  0.3982930680
## [784,] -6.571611e-01  1.034292e+00 -1.423761e+00 -0.7606457862 -0.2881728009
## [785,]  1.691224e+00  1.725259e+00 -3.596279e-01 -1.2511396961 -2.1086001770
## [786,]  1.472137e+00 -3.133396e+00  1.587578e-01 -0.2345617984 -3.108902808
## [787,] -2.184813e+00  2.680767e+00 -1.333242e+00  2.4382731551 -1.5443819273
## [788,] -3.017186e-02  3.910575e-01  8.113444e-01  0.4258643521 -1.1873231934
## [789,] -1.623667e-01  3.684108e-01 -7.670464e-02  1.7697004392  0.6714771360
## [790,] -1.332783e+00  9.353118e-01  9.619344e-02  0.3803027286  0.6207990892
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## [793,]  6.395589e-01  1.734978e+00 -8.668372e-02  0.2237080695 -0.7767934013
## [794,] -1.776840e+00 -1.105620e+00 -6.727715e-01  0.7613599252  0.3711135353
## [795,] -2.113187e-01  1.188420e-01 -1.064063e-01  0.0663004700  0.5748208851
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## [797,]  3.060305e-01  2.732979e+00 -6.448198e-01 -0.7904218745 -2.6085153487
## [798,]  1.049701e+00 -2.027542e-02 -3.120888e-02 -0.2713425317 -0.0668733784
## [799,]  1.102700e-01  6.941467e-01  1.290090e-01 -0.5119630424  0.3088495857
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## [823,] 3.673973e-01 -1.117279e+00 -8.496222e-01 2.3813860290 0.1508878482
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## [830,] -1.431917e-01 1.204231e+00 -6.266264e-01 0.1140892799 0.1411466162
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## [835,] -9.189923e-01 4.889840e-02 -1.605616e-01 -0.1727414063 -0.6337522998
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## [885,] 3.150149e-01 6.232783e-01 9.865756e-01 -0.3985367676 -0.4999958893
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## [887,] 5.019766e-01 -1.819214e+00 6.620446e-03 1.2234966789 0.5715345270
## [888,] -3.229470e-01 -4.328727e-01 8.899016e-01 -1.5629047656 -1.3870056355
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## [895,] -5.610234e-01 7.467116e-01 -8.180075e-01 1.0125784550 1.8677329256
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## [897,] -6.408253e-01 4.812425e-01 -3.128210e-02 0.8496411675 -0.7821993494
## [898,] 5.032257e-01 1.281837e+00 5.138564e-01 -0.4736553263 -0.7631961725
## [899,] -1.769301e-01 -6.380846e-01 1.041952e+00 -1.0837595262 -0.6283990801
## [900,] -1.183992e+00 -2.947321e-01 -1.927338e-01 -0.8265923432 -1.0729828483
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## [951,] -7.647017e-01 4.183580e-01 1.116406e-01 0.3249327769 1.5435483420
## [952,] -3.000760e-01 1.055978e+00 4.629647e-01 -0.0954590778 -0.7400044740
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## [954,] -4.761917e-02 1.718436e+00 6.025503e-01 1.7648682539 -0.8438634461
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## [1128,] -1.241524e+00 -1.268965e+00 7.968184e-01 -0.6855584698 1.3923674539
## [1129,] -4.546147e-01 4.281828e-01 -1.439838e-01 -0.3523401805 -0.4444779867
## [1130,] -4.327648e-01 -1.127882e-01 5.230172e-01 0.4464685875 -1.3399418681
## [1131,] -8.864350e-01 -9.705963e-01 6.971041e-01 0.0382062837 1.9099230153
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## [1133,] 7.776187e-02 -1.983842e+00 -8.871849e-01 0.2850438250 0.3197889475
## [1134,] 6.211315e-01 -7.547803e-01 -2.515684e-01 0.9189395415 0.4542190928
## [1135,] 9.599648e-01 -1.363689e+00 8.328205e-01 0.0934668797 0.4169284235
## [1136,] 1.198997e+00 -3.555312e-01 4.749198e-01 2.1183348715 0.2797007329
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## [1143,] 3.839471e-01 1.245760e+00 -2.461343e-01 -2.3579390466 0.1942419617
## [1144,] 1.252641e-01 -4.232711e-01 1.112371e+00 -0.8538753171 -0.4235226190
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## [1202,] 6.418299e-01 1.668951e+00 3.738262e+00 -0.5560459141 -2.2914757970
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## [1300,] -2.480753e-01  7.112076e-01 -9.269679e-01 -2.2657780544 -0.0048563616
## [1301,] -7.953869e-02 -2.979983e-01 -1.788907e+00  1.4425714277  0.7715281398
## [1302,] -3.042295e-01 -3.807111e-02  3.254788e-01 -1.1001306740 -0.3628380548
## [1303,] -9.954103e-02  1.820927e+00  7.469077e-01 -0.5126472226  1.5893748708
## [1304,]  1.410700e+00  1.800366e+00 -8.155427e-01 -0.4228468066 -1.2233635827
## [1305,] -3.809595e-01 -5.326080e-01 -6.232691e-01 -0.4062968105  0.3488575404
## [1306,] -2.245354e+00 -2.437047e-01 -4.427305e-01 -0.8815625642 -0.5537124719
## [1307,]  2.350487e-01 -3.095201e-01 -1.196737e+00  1.2733351046  1.5257807169

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## [1308,] 1.504631e+00 1.339800e+00 6.752528e-01 -0.3616309846 -0.1597079954
## [1309,] 2.747889e+00 5.855332e-01 -7.628310e-01 -2.5652828382 0.2096507514
## [1310,] 3.167253e-01 6.897867e-01 -7.724849e-01 -1.3816802187 -0.5990629370
## [1311,] 1.339018e+00 -7.114266e-01 -7.450595e-01 0.5478675020 0.4575906417
## [1312,] 9.254705e-02 -7.500202e-01 9.489752e-01 -1.0243573301 0.5967813825
## [1313,] 8.985226e-01 -1.054446e+00 2.468704e-01 -1.2573987275 -1.0501306946
## [1314,] -1.128595e+00 -3.370306e-01 -9.702134e-02 -0.1377749667 -1.1070255689
## [1315,] -1.321631e+00 2.413297e-01 1.176049e+00 -1.4289880184 0.1631384675
## [1316,] 1.264841e+00 -1.248748e-01 8.408720e-01 0.5967293257 0.7913518738
## [1317,] -2.209946e-01 9.766430e-01 -1.903875e-01 0.7280533690 0.8970849585
## [1318,] 7.819930e-01 -3.816024e-01 -5.317313e-01 -2.2760554117 2.7392198057
## [1319,] 2.831749e-01 1.081796e+00 -1.512817e+00 -1.3383521050 1.0312905718
## [1320,] 1.994492e+00 8.316881e-01 1.677664e+00 0.5259033086 1.8013613612
## [1321,] 3.414736e-01 -1.888718e-01 2.844746e-01 0.8594598796 -0.5783343313
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## [1323,] -1.933482e-01 -2.437590e-01 -4.084415e-02 1.6067601604 0.9046751835
## [1324,] -1.559223e-01 4.081273e-01 4.413444e-01 1.7064036724 0.1649833933
## [1325,] -1.464456e-01 1.299652e-01 4.040210e-01 0.2342969219 0.0251248200
## [1326,] -1.3111919e+00 -1.154475e+00 -1.062468e+00 -0.5091376453 -0.8239128349
## [1327,] -3.694049e-01 -1.072587e+00 -1.930592e-01 -0.6313191158 -0.3504483106
## [1328,] -6.417275e-01 -1.541324e-01 -2.759153e-01 1.8569955892 -0.5977894523
## [1329,] -1.484879e+00 -2.367729e+00 6.305589e-01 0.7609003776 -0.0821509523
## [1330,] -6.879489e-01 1.092691e+00 -4.034875e-02 -1.3077584967 -1.2274851454
## [1331,] 4.568422e-01 -9.349918e-01 -1.970604e-01 -0.2402824447 0.4589494221
## [1332,] -7.654599e-01 -6.068112e-01 -1.621949e+00 -0.6609251526 -0.0947269792
## [1333,] -1.179571e+00 -3.473366e-01 1.572248e-01 0.4294198787 0.1767819230
## [1334,] -5.205443e-01 -5.413480e-01 -1.928457e+00 1.0808423806 -0.0594853930
## [1335,] -4.827929e-01 4.941384e-01 1.611485e+00 1.4213814952 -1.5775480935
## [1336,] -6.638037e-01 2.222869e+00 7.794565e-01 -1.1869127840 -0.9540126904
## [1337,] -7.413141e-01 6.388342e-01 1.549775e-02 -0.1132737692 1.5041255361
## [1338,] 8.445339e-01 2.939459e-01 -3.656614e-02 0.6594862441 -0.6002157284
## [1339,] -2.027197e-01 4.622521e-01 -3.112963e-01 0.1152380964 0.6514419072
## [1340,] 5.997503e-01 -7.077616e-01 -3.622076e-01 2.0467176436 1.2749182210
## [1341,] 1.210408e+00 1.010733e+00 3.025612e-03 0.5914008926 -0.8732187023
## [1342,] 2.441009e-01 -4.832961e-03 3.112326e-01 -0.2192642849 -1.7633604794
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## [1347,] 7.707398e-01 -2.892086e-02 -5.084647e-01 0.1457708295 0.0386500566
## [1348,] -1.668370e+00 -3.873709e-02 1.362466e+00 0.2665333448 0.0228145960
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## [1359,] 1.423004e+00 2.099301e+00 7.521572e-01 -1.4407449734 -1.6562516864
## [1360,] -4.592556e-02 -2.716448e-01 8.943120e-02 0.3327401325 0.5384259513
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## [1362,] -4.906290e-01  3.653693e-01 -4.767474e-02  0.3475608947  0.9273818083
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## [1370,] -5.212706e-01  8.845747e-01 -8.889854e-01 -0.8561309872 -0.7249886736
## [1371,] -3.257398e-01 -6.770507e-01  2.232307e-01 -0.5472481702 -0.5374109856
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## [1373,] -7.331917e-01 -5.119348e-01  1.004459e+00  0.2186722855 -1.2979115784
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## [1378,]  5.478046e-01 -6.860390e-01  5.808618e-01  0.1443053414 -1.0373514925
## [1379,] -1.100551e+00 -3.634931e-01 -5.055985e-01 -0.9011396030  0.6239084407
## [1380,] -4.220701e-01 -9.008735e-01  9.357562e-01 -0.2480172138  0.6703010921
## [1381,]  1.323571e+00 -2.388353e-01  5.057685e-01 -0.9917586056 -0.5538177132
## [1382,] -1.546775e+00 -7.407554e-01 -1.690303e+00 -0.0513928346  0.0223573839
## [1383,]  5.778257e-01 -1.966907e+00 -3.035482e-01  0.4795186231  1.4869094166
## [1384,] -3.890217e-01  1.387752e+00  1.434869e-02  0.4462199889  0.0213280290
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## [1388,] -7.320870e-01 -1.472259e+00  1.189360e+00 -0.7246776746 -0.1217305631
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## [1393,] -6.547510e-01  1.900167e+00 -2.181460e-01  0.4157418663 -0.6322312228
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## [1398,] -5.576060e-01  1.129880e+00 -3.644426e-01 -1.3998186165 -2.8913877930
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## [1400,] -1.259827e+00 -1.242787e+00  1.374447e+00 -0.6626657139 -1.1137740371
## [1401,]  2.967535e-01 -7.462097e-02 -3.859217e+00 -2.1149909602  0.9580470849
## [1402,]  4.261138e-02 -2.300290e-01  6.176419e-01 -0.1510969218 -0.3242186508
## [1403,]  5.943187e-01 -1.724749e+00  1.927479e+00 -0.4409394400  0.3747395992
## [1404,] -1.638821e+00 -4.566702e-02 -6.970302e-01  2.8732330159 -0.1885655314
## [1405,]  1.346912e+00 -1.369122e+00  1.148526e+00 -1.3349549963  1.0360987563
## [1406,] -2.208443e+00 -1.008584e-01 -5.391245e-01  0.9270514155 -1.0058331490
## [1407,]  2.257080e+00  1.440680e+00 -6.642336e-01  0.7699609036  0.2518427317
## [1408,]  1.767239e-01 -6.591973e-01  5.163739e-01  0.2812488011 -0.3815767695
## [1409,] -2.199913e+00 -3.455323e-01 -4.336575e-02  0.2849305979  0.0139046962
## [1410,] -4.239613e-01  6.570093e-01 -1.607376e+00 -1.3199622891 -0.6766948745
## [1411,] -2.100654e-01 -1.363145e-01  3.587338e-01  0.9427390358  0.8060308159
## [1412,]  7.063306e-01  2.242811e+00 -2.424636e+00  0.3918424406 -1.9477293039
## [1413,]  1.529864e+00 -6.537503e-01  9.503566e-01  0.0356730233 -0.5968198106
## [1414,]  4.435950e-01  5.161088e-01  2.594435e+00 -0.5853406176  0.4995258205
## [1415,] -4.387043e-01  4.976163e-01  1.635449e+00 -1.5606570679  0.6832420440

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## [1416,] 6.469972e-01 4.497795e-01 -1.626297e-01 -0.7401372350 -0.1117671746
## [1417,] -1.333804e-01 -1.347826e+00 -5.642861e-01 -0.6572421512 0.9072400105
## [1418,] -7.088435e-02 8.065702e-01 -1.379787e+00 0.9998536887 0.4244842695
## [1419,] -6.705700e-01 -1.094436e+00 2.718803e-01 -0.3181176135 -1.5576415804
## [1420,] -1.382735e+00 -3.369901e-01 3.098350e-01 0.2741214477 -0.3991492754
## [1421,] -2.188958e+00 5.490218e-01 -3.722115e-01 -1.1799188172 0.3554253502
## [1422,] -1.990080e+00 -1.251097e+00 -5.365797e-01 -0.4381015756 -2.0380014446
## [1423,] 1.263550e+00 -1.741855e+00 1.117625e+00 0.3751684887 0.7711374770
## [1424,] 2.228975e+00 7.456019e-01 1.958579e-01 -0.1289596266 -0.4905084692
## [1425,] -1.171589e-01 2.289518e+00 -2.256058e+00 -2.6143279612 -1.6127990206
## [1426,] -9.095839e-01 1.383745e+00 -1.608141e+00 -0.1123251121 -0.3457559877
## [1427,] 7.980374e-01 1.339718e+00 -3.925607e-01 -0.1570728647 -1.1392475994
## [1428,] -1.203270e-01 6.512359e-01 -2.521256e-01 1.3118593922 -0.8854331240
## [1429,] -9.660332e-01 -8.404166e-01 -1.340388e+00 0.4464297436 0.1554909286
## [1430,] 6.057748e-01 6.972851e-01 5.464570e-01 -1.4963457179 -0.3111870999
## [1431,] -9.044129e-01 3.291641e-02 -1.093024e+00 -0.1663725352 0.0734110076
## [1432,] 6.805614e-01 -7.809953e-01 5.773249e-02 0.1714706168 -1.7437141989
## [1433,] 7.110525e-01 -9.072976e-01 8.987288e-01 -0.7931811933 0.6920669183
## [1434,] -7.580591e-01 -9.294322e-01 -1.050567e+00 0.2704187602 0.8409855351
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## [1436,] -1.877793e+00 -6.908020e-02 -2.364835e+00 -0.8022360698 -0.7018170848
## [1437,] 1.966916e+00 -6.888454e-01 2.087259e-01 0.9646248489 -1.4265103551
## [1438,] 4.938913e-01 1.482784e+00 6.738985e-01 0.2038423879 -1.0843733894
## [1439,] 1.648441e-01 -6.319745e-02 5.602854e-01 -0.2612729856 -0.0170645268
## [1440,] 1.816578e+00 2.925178e-01 -1.193250e-01 3.5280326363 -1.3385672025
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## [1448,] -1.648602e-01 -6.749283e-01 4.813000e-01 0.6660872230 0.6025347683
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## [1452,] 6.103621e-01 1.378349e+00 1.096089e+00 1.4024969213 -0.7066471685
## [1453,] 1.934551e+00 1.753600e+00 -1.235936e+00 -0.3219262869 2.3984560688
## [1454,] -3.308668e-01 8.820653e-01 -9.900320e-01 0.4755985985 -2.1790576546
## [1455,] 2.323455e+00 -1.248291e+00 2.223683e+00 0.1255951016 0.0617303484
## [1456,] -5.550621e-01 -1.620297e+00 -1.254407e-01 -0.0710421846 0.6505524349
## [1457,] 1.228348e+00 -1.072675e+00 5.311686e-01 -0.8384689408 -1.6757120362
## [1458,] 1.669402e+00 2.195527e-01 -4.835476e-02 -0.4218354099 -0.1935060686
## [1459,] 1.736528e+00 1.637943e-02 2.569782e-01 -0.5035550387 -0.8971114742
## [1460,] 1.074764e+00 -5.266305e-01 6.799878e-01 0.1196996695 0.9099562062
## [1461,] 3.071859e-01 -1.017208e-01 5.073460e-01 -0.0229176491 -0.2768891288
## [1462,] -8.254805e-01 1.973735e+00 8.142728e-01 0.4244087750 1.1937529473
## [1463,] -1.871221e-01 -6.231622e-01 1.170645e+00 1.9694670875 -2.6601479399
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## [1467,] 4.758319e-01 -9.657454e-01 -4.944664e-01 0.2948590497 1.7546169416
## [1468,] -2.756959e-01 -1.123524e+00 -2.153803e-01 -1.2391035195 1.7418869267
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## [1470,] -7.507945e-01 2.408417e-01 -8.276530e-01 -0.2845970936 0.6303023753
## [1471,] -6.264637e-01 1.380890e+00 6.230212e-01 -1.0670653198 0.7346450999
## [1472,] -9.651490e-02 -1.745804e+00 3.191078e-01 -0.5670142872 -0.3912195297
## [1473,] 2.102021e-01 -2.852995e-02 1.845601e+00 -1.1665155912 1.6397441858
## [1474,] -1.162262e+00 5.739273e-01 1.244212e+00 1.3500187705 -1.0254849971
## [1475,] 1.809832e-01 -3.475274e-03 3.291220e-01 0.2477203931 0.7972912771
## [1476,] -5.458854e-02 3.289169e-01 -1.607424e+00 -0.8116987876 2.2821596831
## [1477,] -6.505908e-01 1.043794e+00 -2.237932e-01 1.3031728017 -0.1896091429
## [1478,] 3.984147e-01 4.808235e-01 -9.743853e-01 -0.3982772923 0.4984758134
## [1479,] -3.764270e-01 -7.715344e-01 -5.400728e-01 0.4332732992 -1.1437092477
## [1480,] -1.123173e+00 -3.365391e-01 -4.456164e-01 0.2600344392 -0.7260461231
## [1481,] 2.520827e-01 -1.032140e+00 -2.862503e-01 0.4119501438 0.5931519037
## [1482,] -8.743158e-02 2.545115e-02 -1.689170e-01 0.7105389226 -0.0461679155
## [1483,] -2.965678e-01 -1.251338e-01 1.080646e-01 -0.7489661367 0.1886120070
## [1484,] -2.663621e+00 4.240388e-01 1.627291e+00 -0.7087584198 1.3114247264
## [1485,] 7.018345e-01 -2.086226e-01 5.291647e-01 -0.3515256082 -2.2249545720
## [1486,] 1.978235e+00 2.599095e+00 4.601849e-01 2.1811315940 -1.2285058465
## [1487,] 1.354390e-01 -7.756776e-01 4.938435e-01 -0.6293300134 -0.9816847839
## [1488,] 1.013080e+00 1.103512e+00 -5.706945e-02 0.1104428056 -0.3194559184
## [1489,] -2.782362e-01 -2.453331e+00 3.367433e-01 -2.6241118902 -0.3354377706
## [1490,] 1.164443e+00 -8.261370e-01 5.109721e-01 1.0208379231 0.3385393969
## [1491,] -1.255891e+00 4.124130e-01 1.321345e+00 -0.9068826204 -0.9624542303
## [1492,] 4.698970e-01 -8.316681e-01 -1.628159e+00 1.4887802070 0.2215080783
## [1493,] 2.592557e-01 4.731634e-01 8.220929e-01 0.0125403723 -1.1001945860
## [1494,] 1.423583e+00 1.023059e+00 -1.022264e+00 0.2846219553 1.2566688760
## [1495,] 4.069359e-01 6.845613e-01 -3.279885e-02 -1.2828522892 0.6407667475
## [1496,] 1.962802e+00 -1.296515e+00 1.021691e+00 -0.3566133176 0.8161949482
## [1497,] 9.600363e-02 -7.143804e-01 1.039620e+00 -0.1019052977 -1.4938705064
## [1498,] -1.606161e+00 1.188128e+00 8.251498e-02 0.3317956146 -0.5184306356
## [1499,] -3.145724e-01 6.380074e-01 1.509940e+00 -0.2091509734 0.5434348588
## [1500,] -2.450464e+00 6.392375e-01 2.079926e+00 1.4385276195 -0.0845361702
## [1501,] 7.438579e-01 -7.323624e-02 7.331266e-01 0.3000309746 -0.3015269879
## [1502,] -4.749005e-01 -4.816699e-01 5.261940e-01 -1.3364157170 0.1726738358
## [1503,] 7.897485e-01 -1.105703e+00 -5.104962e-01 0.8466205528 -0.4161284954
## [1504,] 7.854079e-01 -1.113029e+00 9.169952e-01 -2.0844839484 -0.9088015036
## [1505,] 6.715553e-01 1.785473e+00 -6.722790e-01 -0.8157850920 -1.0453960705
## [1506,] -1.713918e+00 9.137562e-04 -3.847259e-01 0.1071139339 0.5821841589
## [1507,] -5.601706e-01 1.327814e+00 -2.303604e+00 -0.5142457089 -0.0181418011
## [1508,] -1.367717e-01 -4.266411e-01 -2.719652e-01 0.8013526985 -0.9007638156
## [1509,] -6.159301e-02 -3.807498e-01 -1.487392e+00 -0.1165248946 -0.6644329772
## [1510,] 9.621373e-01 1.032244e+00 6.981367e-01 1.4559985992 -1.3982374123
## [1511,] -1.160999e+00 2.500177e-01 -5.052422e-01 -0.5367550871 1.4019713681
## [1512,] -1.063259e+00 -2.033238e-01 -2.826570e+00 2.0969186607 -0.1871536532
## [1513,] -1.637274e-01 -2.819048e-01 7.166743e-01 -0.2734825809 0.1683969821
## [1514,] -8.745604e-02 4.587495e-01 3.089233e-01 -0.1227970424 -0.7380550807
## [1515,] -3.180256e-01 2.597134e-01 8.286929e-01 0.0643313948 -0.0146822421
## [1516,] 5.927444e-01 -1.673542e+00 6.817108e-01 -0.7215376948 -0.0974591384
## [1517,] -1.783121e-01 6.368592e-01 1.744330e+00 -2.3043718106 -0.4082933900
## [1518,] 7.690153e-01 2.001628e-01 2.487233e-01 -0.6098024532 0.1623345550
## [1519,] -2.141329e-01 -2.221722e-01 1.112026e+00 1.3424654426 0.2076738163
## [1520,] 7.061882e-01 -4.965844e-02 -4.761005e-01 0.6624697125 -0.5121390775
## [1521,] 5.525510e-01 9.551612e-01 1.341685e+00 -0.0089282113 -1.0548678696
## [1522,] 2.888686e-01 8.109728e-01 -8.629539e-01 -0.9927989174 -0.7293999362
## [1523,] 1.488175e+00 -2.429688e-01 -1.550106e+00 -0.0265308430 -1.3144403405

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## [1524,] -9.750138e-01 -1.105538e+00 5.354179e-02 -0.8835563410 0.4676434775
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## [1526,] -5.024220e-02 -2.818075e-01 -4.398950e-01 -1.1669165246 1.0219033516
## [1527,] -7.137136e-02 -6.527284e-01 1.248251e-01 -0.3077224683 0.0805100400
## [1528,] 1.818952e+00 -7.097182e-01 -1.446095e-01 -1.3433563243 -0.5342156395
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## [1531,] 1.257788e-01 -7.757341e-01 -1.151483e+00 0.9291471047 -0.4936180007
## [1532,] 2.002678e+00 5.819319e-01 1.540301e+00 -1.1861775179 -0.7807657596
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## [1539,] 1.661002e+00 1.824411e+00 -5.128964e-01 1.0510315776 -1.4553187498
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## [1543,] -7.864352e-01 4.688763e-01 1.439445e-01 1.0112593982 -0.3349911466
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## [1554,] -6.060739e-01 -1.100071e-01 4.022870e-01 -0.5773542283 0.4903958551
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## [1561,] -9.914747e-01 -1.139558e+00 3.736560e-01 -0.5174956702 -1.0856485999
## [1562,] -7.399454e-01 1.609046e+00 1.450290e+00 -0.4967641680 0.7208655356
## [1563,] PC21 PC22 PC23 PC24 PC25
## [1,] -6.163879e-01 2.7583246094 -1.736264e-01 -9.400959e-01 3.367907e-01
## [2,] 8.861302e-01 0.7463713915 -1.918365e-01 1.925257e-01 -8.417714e-02
## [3,] 1.566581e+00 -0.3076552671 1.746184e+00 -1.430999e+00 8.037159e-01
## [4,] 1.696669e-02 0.7306836404 4.024450e-01 7.927596e-02 -1.074670e+00
## [5,] -7.480539e-01 0.0659419924 -1.802092e-01 -1.782502e+00 8.116113e-01
## [6,] 9.087143e-01 -1.4310831664 -6.586167e-01 -7.346301e-01 3.821256e-01
## [7,] 9.182234e-02 -0.1679374346 -1.503017e-01 5.845495e-01 7.204356e-01
## [8,] 1.034925e+00 0.2323055267 1.151462e-01 2.720966e-01 -1.435132e+00
## [9,] -5.987707e-01 0.5142542999 -3.643404e-01 1.719090e-01 3.687563e-01
## [10,] 7.309510e-01 1.6317387572 1.840204e+00 -2.279436e-01 -6.936195e-01
## [11,] 2.134215e+00 -2.0224190075 1.316252e+00 1.147170e-01 2.240501e+00
## [12,] -3.949526e-01 -0.4524323186 8.805020e-01 2.324469e-02 -5.259331e-01
## [13,] -3.569853e-01 -0.5583938433 1.601109e+00 5.338488e-01 -3.959245e-01
## [14,] -1.516710e+00 0.2728690439 -4.622756e-01 5.804984e-01 1.009634e+00

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## [15,] -7.594145e-02 -0.0164900235 5.681324e-01 1.146889e+00 8.418669e-01
## [16,] 1.638987e-01 0.1637222015 -3.808828e-01 -6.935679e-01 8.036427e-01
## [17,] -1.463490e-01 0.3890191135 9.637275e-01 1.748537e+00 1.281156e+00
## [18,] -3.554331e-01 -1.9919520129 -8.147877e-01 -2.104082e+00 -4.151406e-01
## [19,] -1.536739e+00 -1.0811148641 9.992913e-01 1.104305e+00 2.108103e+00
## [20,] 4.184780e-01 -0.4525089351 1.048648e+00 -8.321933e-03 3.638506e-01
## [21,] -1.339896e+00 1.0710703102 8.279896e-02 1.149492e-01 -1.332690e+00
## [22,] -3.219566e-01 0.4374741359 2.383718e-01 -2.129937e-01 6.069999e-01
## [23,] 1.164187e+00 -2.0059747648 -1.474646e+00 -7.626462e-01 1.846882e+00
## [24,] 1.118202e+00 0.7445258799 -7.197001e-01 -4.287242e-02 9.221303e-01
## [25,] 6.651587e-01 -1.1352484953 -1.130387e+00 9.390733e-01 8.402869e-01
## [26,] -6.959471e-01 -0.6838967965 6.537684e-01 1.335110e-02 1.026272e-01
## [27,] -1.179779e+00 -0.0534305042 -5.979194e-02 2.181228e-01 1.719218e+00
## [28,] -8.015192e-01 -2.6388373859 -8.517169e-02 9.771291e-01 9.493081e-01
## [29,] 9.626283e-01 -0.2172074106 2.962255e-01 9.755247e-01 3.804307e-01
## [30,] -3.709814e-01 -0.7163812836 -7.760390e-01 -5.268582e-01 -7.976198e-01
## [31,] 7.513311e-02 0.0242347942 5.298137e-01 5.102068e-01 5.204772e-01
## [32,] -1.762370e-01 -0.2488301587 2.409202e+00 -8.403631e-01 1.372207e-01
## [33,] -2.018735e+00 -1.2127463173 6.910396e-01 7.247631e-01 3.127506e-01
## [34,] -1.859764e+00 0.4661709722 -6.543239e-01 -1.485533e-01 6.874663e-01
## [35,] -3.028422e-01 -0.5318643862 1.245307e+00 -5.190403e-01 4.309006e-01
## [36,] -2.232913e-01 1.2787615246 1.504501e+00 1.509621e+00 -4.996971e-01
## [37,] 6.443136e-01 -1.5536927516 6.484602e-01 -3.358900e-01 4.540210e-01
## [38,] -1.816868e+00 -1.1879285171 1.293064e+00 -7.551222e-01 -7.517392e-01
## [39,] 1.382993e+00 0.0824904591 7.700521e-01 -7.975304e-01 -4.747409e-01
## [40,] 9.074255e-01 -0.6412182656 1.287562e+00 7.614497e-01 4.081605e-01
## [41,] -1.264775e-01 0.0269723454 4.503110e-01 7.822892e-01 6.957212e-01
## [42,] -1.006219e-01 1.6255318057 -5.403414e-01 -6.400651e-01 1.112508e-01
## [43,] 9.393682e-01 0.0297558345 -6.853293e-01 -5.335181e-01 -6.287143e-01
## [44,] 5.209226e-01 0.1001497442 1.378361e-02 -4.052218e-01 -4.820730e-01
## [45,] -1.284849e+00 0.1137984383 8.023694e-01 4.463897e-01 2.894396e-01
## [46,] 2.806174e+00 -0.2142414232 5.406655e-02 3.368584e-02 -1.747952e-01
## [47,] 3.263128e-01 0.0098776101 -1.356525e+00 3.292402e-01 7.869757e-01
## [48,] -1.420984e-01 -0.7762147225 -2.262355e+00 1.522619e+00 3.018210e-01
## [49,] 1.174936e+00 -0.5231711937 1.169000e+00 7.336305e-01 -1.228970e+00
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## [51,] -1.462395e+00 -0.0219639547 1.617102e+00 3.354313e-01 5.471161e-01
## [52,] 2.592758e-01 -1.6683481380 -7.739465e-02 4.861579e-01 -1.397207e-01
## [53,] 2.571126e-03 -0.2801213076 8.725966e-01 8.742938e-01 -4.674224e-01
## [54,] -1.486165e+00 0.8728771292 6.854748e-02 6.549523e-01 1.113530e-01
## [55,] 8.741486e-01 0.2504587329 -3.053761e-01 1.109059e+00 -3.250787e+00
## [56,] 3.439199e-01 -1.0136560304 1.121535e+00 -1.422829e+00 -1.462450e+00
## [57,] -4.577401e-02 0.3195734408 -4.180593e-01 -2.050501e+00 5.364952e-01
## [58,] 1.242905e-01 -2.6555711773 1.672681e+00 -7.124284e-02 1.659279e+00
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## [60,] -5.264299e-01 1.5788744956 -8.804036e-01 -2.144564e+00 2.231286e+00
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## [62,] 6.337256e-01 -0.2141246422 -1.571933e+00 1.419107e+00 -5.293706e-01
## [63,] -1.986930e-02 -0.5725049611 9.418431e-01 7.177534e-01 1.756131e-01
## [64,] 3.743450e-01 -0.2502438160 7.514535e-01 4.221779e-01 3.197256e-01
## [65,] 7.272118e-01 0.2468338188 -1.894231e+00 -2.406547e+00 -9.359329e-01
## [66,] -1.171879e+00 -0.2240771148 -7.419210e-01 1.621321e+00 5.130678e-02
## [67,] 9.899069e-01 0.9555135097 9.332469e-01 -1.567871e-01 1.355129e+00
## [68,] 3.478432e-01 1.1977489247 -5.350811e-01 4.372410e-01 -3.133248e-01

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## [69,] 3.718057e-01 0.2951251351 6.711898e-01 6.567394e-01 2.709176e-01
## [70,] -6.542326e-01 -3.1035052781 2.381948e-01 -6.509690e-01 5.296572e-01
## [71,] -1.321020e+00 2.3943706484 -1.012967e+00 4.025890e-01 1.536671e+00
## [72,] -1.246735e+00 0.1002050553 -9.098601e-01 -1.202946e+00 2.305944e-01
## [73,] 1.710536e-01 -0.1489568864 -1.255953e-02 -5.170002e-01 -2.274741e-01
## [74,] 1.477176e+00 -1.0248057025 -6.559282e-01 -1.612045e+00 -6.434610e-01
## [75,] -1.147229e-01 -2.0736299125 -3.672011e-02 -2.171352e-01 1.505714e+00
## [76,] -5.180927e-03 -1.6316725686 8.073159e-03 7.926443e-01 1.197159e+00
## [77,] -1.477439e-01 -1.1240165390 2.151214e-01 -1.414774e+00 -2.059267e-01
## [78,] -3.842147e-01 0.0987428767 3.760660e-01 6.804261e-02 -2.449339e-01
## [79,] 3.899794e-01 0.0222126145 -1.612430e-01 -4.840405e-01 -5.590959e-01
## [80,] 5.811948e-01 0.5872306485 -1.362924e+00 4.744906e-01 -2.624905e-01
## [81,] -1.800738e+00 -1.2757825714 1.321128e+00 1.357620e+00 1.598901e+00
## [82,] -6.598266e-01 -0.4572753855 1.815720e+00 9.708588e-01 -3.689088e-01
## [83,] -6.714438e-01 -0.5692789430 9.204929e-01 -1.791985e-01 8.151877e-01
## [84,] -2.744225e-01 0.7259462649 -6.218390e-01 2.729635e-01 -7.216082e-02
## [85,] -8.416661e-01 -0.3721326645 -1.629984e+00 -1.657805e-01 2.425168e+00
## [86,] -4.007965e-01 -0.7139602586 -3.637864e-01 1.180894e-01 -8.024640e-01
## [87,] -6.798443e-02 -0.4973580868 -1.398734e+00 -1.841914e+00 4.637188e-01
## [88,] -9.486765e-02 -0.0474647337 -1.529462e+00 -2.097570e-01 -1.379266e+00
## [89,] 5.341924e-01 -1.3994495362 -5.244809e-01 -6.491936e-01 -5.756124e-01
## [90,] -4.194767e-01 0.0295396211 2.293397e-01 -9.492683e-01 -1.142409e+00
## [91,] -1.477978e+00 -0.0260939033 -1.105261e+00 -1.067785e+00 -1.332363e+00
## [92,] -4.883915e-01 -1.4089502564 3.203673e-01 -1.009155e-01 3.432438e-01
## [93,] 6.783092e-01 1.1397868156 1.222983e+00 6.538399e-02 -4.725248e-01
## [94,] -1.914750e+00 -2.0773071429 -9.523838e-01 3.162415e-01 1.447795e+00
## [95,] 1.157802e+00 -0.6449252633 -9.166236e-01 2.889327e-01 6.920071e-01
## [96,] 4.795721e-01 0.8935639822 6.395952e-01 5.592302e-01 -1.523646e+00
## [97,] -2.639248e-01 1.4637712111 1.069765e+00 -1.555021e-01 1.395129e+00
## [98,] -6.126146e-01 0.3713539344 -1.280288e-01 -2.344598e+00 2.637466e+00
## [99,] 4.121457e-01 0.1934689529 1.212501e+00 4.471160e-01 -7.049718e-01
## [100,] -6.744796e-01 1.0545698769 -1.155437e+00 1.185497e+00 -1.090370e+00
## [101,] 1.424128e+00 -0.3165990510 -9.929456e-01 -4.926237e-01 -1.042391e-01
## [102,] -8.797085e-01 1.0338995114 1.052664e+00 -3.223169e-01 1.064547e+00
## [103,] 3.298806e-01 -1.2828454423 2.934631e-01 8.921694e-02 -2.614157e-01
## [104,] -6.417081e-01 -0.0947763847 -7.061671e-01 -2.505681e+00 4.251471e-01
## [105,] 9.150991e-01 0.2849768444 1.071205e+00 -7.044274e-01 -1.218060e+00
## [106,] -7.649191e-01 2.7983588269 1.077500e+00 -1.053914e+00 2.736263e-01
## [107,] 5.870745e-01 0.7386846693 3.358906e-01 9.897736e-01 5.210469e-01
## [108,] -3.379252e-01 0.2609623687 -1.102888e+00 -5.839790e-01 -1.541708e-01
## [109,] -4.829981e-01 1.1373865653 -1.738789e-01 1.501281e-01 2.681601e+00
## [110,] -1.141120e+00 -1.5651371969 -7.602428e-01 7.352791e-01 2.056045e+00
## [111,] 1.193206e+00 -1.2856245474 -5.579700e-01 -2.026139e+00 -2.330463e-01
## [112,] 3.409710e-01 -0.3867288580 3.233449e-01 1.543190e+00 -3.077620e-01
## [113,] 1.806464e-01 0.0326666487 1.612991e+00 1.292505e-01 3.689788e-01
## [114,] -1.426755e+00 0.6022130745 -1.835817e-01 -1.325910e+00 7.887113e-01
## [115,] 2.366454e+00 2.0327505363 -2.197792e+00 -1.526934e-02 3.122470e-02
## [116,] 9.927959e-01 0.5766756331 2.395937e-01 1.023593e+00 -3.882062e-01
## [117,] -1.701699e+00 0.2313407485 1.454619e+00 -5.633966e-01 -2.008348e+00
## [118,] -1.552243e+00 -0.0110581790 -9.221782e-01 -9.123411e-03 -5.571145e-01
## [119,] -9.813462e-01 1.7587091301 -2.123045e-01 5.748994e-01 1.039128e+00
## [120,] -3.867277e-01 -0.6484426979 1.308664e+00 8.576056e-02 -1.690241e-01
## [121,] -1.381445e-01 0.0822715275 -3.354360e-01 6.889745e-01 -5.543847e-01
## [122,] -3.698686e-01 -1.8646366163 2.900296e-02 3.737569e-01 6.951607e-01

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## [128,] -9.582162e-01 -0.4860802489 -1.924801e-01 -1.047247e+00 -1.149541e+00
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## [130,]  9.569165e-01  0.1128152398 -2.955725e-01 -4.446772e-01 -1.075990e-01
## [131,]  3.700552e-01  0.1896881015  1.019114e+00 -1.485242e+00 -2.379669e-01
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## [137,] -8.251232e-01 -0.2496599593 -4.865882e-01  2.268260e-01  1.178442e+00
## [138,]  5.891031e-01 -2.1787458840  7.576848e-01 -1.371827e-01 -5.509108e-01
## [139,] -9.319478e-01  0.6982362523 -2.267225e-01  1.611705e-01 -3.745759e-01
## [140,]  4.228437e-01  0.6528970688 -1.295328e-02  3.995358e-01  6.718107e-02
## [141,] -1.543151e-01  0.1238428993 -8.841934e-01 -6.248023e-01 -1.183649e-01
## [142,] -1.939860e-01 -0.8194482373 -5.516107e-01  5.358253e-01 -1.026707e+00
## [143,]  3.283935e-01 -0.1091885506 -3.989393e-02  3.668062e-01 -2.663249e+00
## [144,] -2.336141e-02 -0.2101063982  8.054160e-02  6.389504e-01  3.557611e-01
## [145,]  1.230353e-01 -0.2330962030  2.522666e-02  1.449469e+00  1.599857e+00
## [146,] -5.841049e-01 -1.1645942559 -5.946928e-01 -1.867135e-01  4.612384e-01
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## [156,] -9.415935e-01 -0.9197287469  4.007125e-01  4.806652e-01  3.088082e-01
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## [160,]  5.578707e-01 -2.1408747187  5.947036e-01 -1.598125e+00 -5.563429e-01
## [161,]  6.731601e-01  0.0873664341  9.929900e-01  2.070817e-01  1.578754e+00
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## [164,] -9.767967e-02  0.1919451269  2.801294e-01  3.853760e-01  4.965288e-01
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## [168,]  3.414757e-01 -1.3132663946  4.883289e-01 -8.714083e-01  1.534665e-01
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## [172,]  8.187075e-01  1.1272522856 -1.503454e+00 -1.538470e+00  1.031268e+00
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## [183,] 5.456909e-01 2.2639735658 2.949027e-01 -5.311713e-01 1.403981e+00
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## [185,] 2.376438e-01 -1.5185724891 1.244594e+00 5.456284e-01 -1.464946e+00
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## [192,] -1.525002e+00 -0.5548998831 1.516858e+00 -2.161982e-01 3.181183e-01
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## [194,] 9.587893e-01 0.5346073182 -1.389024e+00 -4.281384e-01 2.801506e-01
## [195,] 7.644917e-02 -1.0257487268 -2.150245e+00 1.044938e+00 -2.215955e-01
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## [197,] 3.034757e-01 1.2477198840 8.453018e-01 -8.784024e-01 6.812650e-02
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## [199,] 1.661311e-01 -0.2943002235 -1.656763e+00 4.637180e-01 9.650064e-02
## [200,] 1.692350e-01 0.1624620044 -1.921520e+00 9.802888e-01 -4.001634e-01
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## [206,] 3.072532e-01 -0.4981425045 3.438348e-01 8.071353e-01 1.650360e-01
## [207,] -9.481183e-02 1.1067063814 1.329178e-01 8.120581e-01 2.626657e-02
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## [211,] -6.831253e-01 1.2067381377 -2.384059e-02 4.544844e-01 -6.833794e-01
## [212,] -3.028958e-01 -0.4637661105 -3.064495e-01 2.611623e-01 1.642457e-01
## [213,] -1.649076e+00 -0.1980140807 -5.275156e-01 1.047178e+00 3.783209e-01
## [214,] -4.033733e-01 -1.3771638662 -4.629947e-01 -1.366550e+00 -1.229742e+00
## [215,] 7.207139e-01 -1.5470853532 1.505310e+00 6.095463e-01 -1.611401e+00
## [216,] -1.818393e+00 1.5141812184 -2.549903e+00 4.562296e-02 2.825330e-02
## [217,] 9.594973e-01 0.5254623045 -1.162931e+00 -1.179432e+00 -6.955754e-01
## [218,] -1.200582e-01 -0.5213584207 8.963711e-01 -2.039919e-01 -2.203754e-01
## [219,] 7.656136e-01 0.2534176056 1.701744e+00 -4.305617e-01 -1.636720e+00
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## [221,] 6.432421e-02 -0.5098849854 7.182309e-01 -1.288848e+00 -6.728481e-01
## [222,] -9.733818e-01 1.2450499591 -1.965438e+00 4.727780e-01 -2.262879e-01
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## [250,] 3.281352e-01 0.0725323762 -1.494960e-01 1.992125e-01 6.179923e-02
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## [260,] -1.779831e+00 -0.9358621598 2.256065e-01 6.255157e-01 -1.056841e+00
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## [262,] 1.103234e+00 -0.3025791450 1.189498e+00 1.383916e+00 -1.904453e-01
## [263,] 4.916553e-01 -0.7151376850 -2.905438e-01 1.659329e-01 -5.036118e-01
## [264,] -2.206638e+00 -1.5265630740 -6.771905e-01 -7.805380e-01 1.023872e+00
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## [266,] -5.256072e-03 1.4874668456 -1.911635e-01 -3.335380e-01 -9.968797e-01
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## [305,] 7.779484e-02 -1.8614400055 8.195079e-01 -4.545454e-01 -5.929667e-01
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## [415,] 1.199415e+00 -1.1050155181 -3.202194e-02 2.102818e-01 5.508184e-01
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## [431,] -5.859890e-01 0.7904057081 1.275891e-02 -4.264026e-01 -4.028038e-01
## [432,] 8.111873e-01 1.2545345840 -6.812890e-01 -8.601068e-01 -2.802027e-01
## [433,] -1.664892e-02 -0.9044589654 -4.825397e-01 3.059014e-01 2.354808e-01
## [434,] 6.993750e-01 -0.1925930598 -4.937984e-01 -5.442562e-01 1.972824e+00
## [435,] -5.787420e-01 1.6703899593 1.722824e+00 2.239323e-01 7.035580e-01
## [436,] 1.215782e+00 0.2414111120 -3.691794e-01 -2.959492e-01 1.109235e+00
## [437,] -2.454070e+00 0.7712881158 -8.792316e-01 -2.426514e+00 -2.668827e-02
## [438,] -3.5677769e-01 0.6736704636 -4.832640e-01 -1.331132e-01 -6.879359e-01
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## [440,] 6.270142e-01 0.8062426496 -4.063730e-01 2.616953e-01 -8.446812e-01
## [441,] 1.638602e+00 0.0872847398 1.530117e-01 -4.565831e-01 9.767056e-02
## [442,] 1.810630e-01 0.9401028374 1.053718e+00 4.542544e-01 -6.324916e-01
## [443,] 5.222902e-01 -0.3003027353 -4.953770e-01 -9.966291e-01 -1.936618e+00
## [444,] 4.762107e-01 0.5432783314 -1.621471e+00 3.671309e-01 8.337111e-01
## [445,] -8.124411e-01 0.8494028253 9.416408e-03 1.130540e-01 -2.008002e-01
## [446,] -6.645026e-01 0.6524048246 -1.573113e+00 -1.948210e-01 1.986631e-01

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## [449,] -1.083796e-01  0.4718021166  9.330129e-01  1.596126e-01 -5.791808e-01
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## [465,]  1.595439e-01 -0.3182898773  1.585263e+00 -7.221540e-01  7.292430e-01
## [466,]  1.743234e+00  1.1830295659  6.723760e-01 -3.186597e-01  2.245804e+00
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## [468,] -2.745001e-01  0.8782936681 -2.167310e+00 -1.310717e+00 -7.237875e-01
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## [476,]  1.101069e+00  1.3631038719 -1.323417e+00 -2.292424e+00  3.581449e-01
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## [502,] 8.976378e-01 -0.5728243802 6.514211e-03 -8.659282e-01 -3.611236e-01
## [503,] -1.117756e-01 1.3077313227 1.130564e+00 -1.208479e-01 -7.651297e-01
## [504,] -7.354701e-01 0.5040788004 1.112721e+00 1.008372e+00 5.145004e-01
## [505,] 2.188740e+00 -0.8196612238 2.904068e-01 -1.066824e+00 8.523577e-01
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## [507,] 1.216783e+00 0.4425408449 1.568763e+00 -1.016705e+00 -2.140555e-01
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## [510,] 2.382343e-01 0.2023844819 -2.391119e-01 -5.999501e-01 2.288860e+00
## [511,] 3.878720e-01 0.6654318739 -1.822249e-01 9.133331e-01 -6.138170e-01
## [512,] 1.553932e-01 0.1300065311 4.902262e-01 5.917341e-01 4.833031e-01
## [513,] 4.350224e-01 0.1208201948 1.233040e+00 -2.887965e+00 -1.201485e+00
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## [537,] -1.210371e+00 0.86668684472 6.619206e-01 3.583340e-01 3.039310e-01
## [538,] -1.272376e+00 0.2037364578 8.869487e-01 -9.725405e-01 -1.343823e+00
## [539,] -6.603769e-01 -1.2784400063 -1.850849e+00 3.611019e-02 9.208254e-01
## [540,] 2.347368e-01 -1.0086081082 2.909958e-01 -2.324075e+00 2.585793e+00
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## [544,] -4.791308e-01 0.1776405784 2.363588e+00 -1.769209e+00 -5.649091e-01
## [545,] 9.038387e-02 -1.4352428421 -5.054623e-01 6.267147e-01 7.168203e-01
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## [575,] -1.312291e+00 -0.1405184836  5.599541e-01  1.254504e+00  5.952701e-02
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## [599,] -1.805962e+00  1.7348755281  1.335734e+00 -1.610577e-01 -9.352046e-01
## [600,]  2.071807e-02  0.0775936892  3.529341e-01  7.846791e-01 -5.690799e-01
## [601,] -3.356118e+00 -0.1150870607  8.172123e-02  1.036823e+00  3.322639e-01
## [602,]  1.501806e+00 -0.5487761394  1.519577e+00 -8.066860e-01 -2.039652e-01
## [603,] -1.064212e+00 -0.0652365161  5.342764e-01 -6.631332e-01 -8.330166e-01
## [604,]  1.046356e+00 -0.1991336213  1.134707e-01  8.885306e-01  2.012278e-01
## [605,] -7.702768e-01 -1.6872835588  4.269764e-01 -2.331261e-01  9.657644e-02
## [606,]  9.582665e-01 -0.9111626155  1.835843e+00  8.050870e-01  1.292206e+00
## [607,] -5.643530e-01 -0.2621092577  1.504921e+00 -5.382281e-01 -6.381837e-01
## [608,]  1.876818e-01 -0.6686705567  8.540177e-01  5.824067e-01  5.614757e-01

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## [610,] 6.659563e-01 -0.7909506195 1.551310e+00 1.069631e+00 1.254356e+00
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## [612,] 1.175829e-01 1.4178132177 -9.292096e-01 4.584022e-01 1.612131e-01
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## [614,] -1.390247e+00 -1.7871736248 -1.542448e+00 -1.319091e+00 8.150591e-01
## [615,] -4.435072e-01 -0.9404236091 8.272843e-01 -1.416379e+00 -1.264369e+00
## [616,] 4.664250e-01 -0.0555931405 -2.148079e-01 4.100576e-01 -1.068360e-01
## [617,] -3.239355e-01 0.0636510817 8.953394e-01 3.727961e-01 -3.706638e-01
## [618,] -1.1411178e+00 0.2329774676 3.202118e-02 1.700688e+00 3.136966e-01
## [619,] -2.420137e-01 -0.1031391027 7.114451e-01 -1.443812e+00 -1.356611e+00
## [620,] -3.036111e-01 -0.6239864235 2.560440e-01 -6.444459e-01 -5.838491e-01
## [621,] -4.483496e-01 0.3736357551 4.886447e-01 8.526437e-01 1.495256e-01
## [622,] -1.826949e+00 -2.1255332754 -3.504052e-01 -1.647908e+00 -1.622493e-01
## [623,] -4.964699e-01 -1.8078118380 9.613134e-01 1.865247e+00 -9.634929e-01
## [624,] 7.906013e-01 0.7263599954 -1.217312e+00 -4.975896e-01 2.739877e+00
## [625,] -9.401706e-02 -0.9098786090 5.409883e-01 1.298382e+00 -2.197889e-01
## [626,] 5.7111878e-01 -1.4476631338 -1.410117e+00 5.856128e-02 2.172805e+00
## [627,] 7.219455e-02 0.1796838010 -5.013288e-01 -1.813636e-01 -9.295789e-01
## [628,] 1.128998e+00 0.0209570491 3.844810e-01 -2.909596e-01 3.182700e-02
## [629,] 5.432759e-02 0.3566309768 4.028322e-01 1.513668e+00 -4.226471e-01
## [630,] -1.889576e+00 -0.3979656740 -1.210585e+00 1.133937e+00 -6.265823e-01
## [631,] 3.153729e-01 -0.1369574138 1.354686e+00 -5.475261e-01 -1.075862e+00
## [632,] 6.602686e-01 -1.4761427165 3.775527e-01 -1.780840e+00 2.406787e+00
## [633,] -1.034876e+00 -0.0317576805 -4.293653e-01 5.543521e-01 -9.835226e-03
## [634,] -1.944042e+00 0.2779041417 -8.379593e-01 3.590086e-01 -1.221612e+00
## [635,] 4.574500e-01 -0.8248234267 7.125265e-01 4.347442e-01 4.031668e-01
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## [639,] -8.447392e-01 1.5218797955 2.054587e+00 -1.464421e+00 1.067898e+00
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## [642,] 1.908063e-01 -0.5463609040 8.384627e-02 2.554559e-01 1.859470e-02
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## [644,] 4.738089e-01 3.8351605022 8.470402e-01 1.883050e-01 -5.938161e-02
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## [646,] 3.393603e-01 1.0383155356 2.892542e-01 -8.241239e-01 2.943948e+00
## [647,] 1.379431e+00 1.3519250839 -1.795442e+00 -3.746766e+00 1.995826e-01
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## [670,] -3.561042e-01 -0.4260293554 -1.663700e+00 -1.185210e+00  2.616084e-01
## [671,] -8.346526e-01  0.3754144226  2.092080e-01  7.915638e-01  6.716304e-01
## [672,]  1.508229e+00  2.2472097870  1.635618e+00  6.875608e-02 -6.550565e-01
## [673,]  6.570948e-01  0.0900156821 -1.348624e-02 -2.502301e-01  5.554347e-01
## [674,] -1.114509e-01 -0.2962166115  1.227822e-01  7.960579e-01 -4.446278e-01
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## [677,]  5.840231e-01 -0.3255148791  1.009228e-01 -1.712671e+00  2.472143e+00
## [678,] -1.634327e+00 -0.0901266656  4.179624e-01 -6.325213e-01  4.090599e-01
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## [680,]  9.777810e-01 -0.6672928225 -1.591314e+00  3.233242e-01 -9.670228e-01
## [681,] -6.212653e-01 -1.3573927447  1.716735e+00  2.929726e-01  4.649143e-01
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## [700,]  2.465836e-01  1.5512892264 -9.930933e-01  3.330132e-01 -6.491503e-02
## [701,]  5.548764e-01 -2.7387586913  6.215324e-01 -4.202738e-01  8.133328e-01
## [702,]  2.711919e-01 -0.6776318119 -8.923986e-01  7.570292e-01  7.368642e-01
## [703,] -5.907759e-01 -0.9613399189  2.163435e-01  1.672884e-01  5.100287e-01
## [704,]  1.330220e+00 -2.1729857501  1.385790e+00 -5.239919e-02 -3.983911e-01
## [705,]  6.360796e-02 -0.0515639518 -7.370513e-01  4.762431e-02  3.593254e-01
## [706,] -1.265047e+00  1.2279305671  1.536017e-01  7.671945e-01  6.963913e-02
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## [711,] -6.054751e-01  0.2266444485 -4.277814e-01  1.548195e+00  1.612808e-01
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## [718,]  8.777642e-01 -2.2264061709 -1.706353e+00 -6.095832e-01 -4.154833e-01
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## [721,] -2.787031e-01  0.6075507588 -7.137018e-01 -5.743710e-01  9.247052e-01
## [722,]  1.359714e+00  0.3808281299  8.544635e-01  9.656792e-01 -3.262801e-01
## [723,] -1.648176e+00 -0.3146838303 -4.812552e-01  1.413287e+00  6.806120e-01
## [724,] -2.332618e+00  0.6670250319  3.560172e-02  6.961216e-01  6.200981e-01
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## [726,] -4.885743e-01 -0.5296840959 -3.389365e-03  1.466717e+00 -1.557718e+00
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## [729,]  1.607805e-01 -0.3022905222  2.714508e-01 -1.059241e+00 -7.875102e-01
## [730,]  5.271903e-01  1.4663250806  2.953860e-01 -1.493199e-02  6.205441e-01
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## [732,]  2.245141e-01  0.5337942511 -2.523780e-01 -4.842153e-01 -6.895447e-01
## [733,] -1.248721e-01 -0.7276586055  4.408058e-01  7.850654e-01 -1.763584e-01
## [734,] -5.965539e-01 -0.0274403717 -1.295080e+00  6.432762e-01 -4.931240e-01
## [735,]  5.495476e-01 -1.0133642961 -1.663163e+00 -6.320270e-01 -6.677734e-01
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## [739,]  3.530033e-01  1.6392242448  1.409230e+00 -8.075627e-01 -1.158033e+00
## [740,]  4.998417e-01  0.2537201425  3.505153e-01  1.326675e+00 -8.138344e-02
## [741,]  7.378934e-01 -2.6034597909 -5.724292e-01 -7.524568e-01 -2.358893e-01
## [742,] -2.740163e-02  1.7778524913 -8.202440e-02  1.047574e-01  3.109584e-01
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## [746,]  6.045586e-01  1.2858152084  7.791248e-02  8.626288e-01  1.069065e+00
## [747,] -1.468798e+00  1.9875765940  1.126523e+00  2.384789e-02  1.649955e-02
## [748,] -2.212662e-01 -0.4236695093  1.355322e+00 -1.738813e+00  1.180245e+00
## [749,]  1.599639e-01  0.7892366156  1.429695e+00  4.643793e-01 -7.856526e-01
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## [766,] -7.590611e-01 -0.3009571662 -7.197345e-01 -1.385364e+00 -7.073035e-01
## [767,]  5.147242e-01  0.9725566556  8.006465e-01 -7.264142e-01  7.495407e-01
## [768,] -5.321401e-01  0.2815407580  3.593182e-02  9.811563e-01  2.385840e-01
## [769,]  1.044905e+00  2.0581717916  1.240917e-01 -2.464183e+00  1.150644e+00
## [770,] -7.283192e-01  0.1846635991  8.275147e-01 -2.290354e-01  4.429327e-01

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## [771,] -4.610688e-01 -0.0955650789 3.803187e-02 -8.911702e-02 -2.853738e-02
## [772,] -2.536515e-02 -0.1578564250 5.943614e-01 1.072514e+00 8.000431e-01
## [773,] -1.496813e-01 -0.1009172980 -2.421220e-01 8.824114e-01 -7.667334e-01
## [774,] 9.311073e-01 1.4078680209 -1.208033e+00 3.231300e-01 3.134366e-01
## [775,] -1.995431e+00 -0.2605304866 -6.751966e-01 -5.720233e-01 1.170162e+00
## [776,] -3.738137e-01 -0.9351976630 9.698790e-01 -1.863821e+00 -4.965815e-01
## [777,] -1.646981e+00 -1.3974076981 1.034813e+00 -4.382545e-01 -5.690309e-01
## [778,] -5.259827e-01 0.1706764995 -1.030889e+00 1.111954e+00 2.987225e-02
## [779,] 1.816134e+00 0.3845209625 -1.412969e+00 -7.477020e-01 -1.416099e-02
## [780,] -3.690761e-01 0.6850548139 -9.908962e-02 -1.045364e-01 -2.760341e-01
## [781,] -2.132228e+00 1.5370759963 5.277753e-01 -6.796457e-01 1.132394e+00
## [782,] 5.485901e-01 -0.7445452671 6.935257e-01 6.808365e-01 6.146731e-01
## [783,] -5.758391e-01 -1.7302765168 7.854228e-01 -5.781549e-01 -1.578618e+00
## [784,] 2.609667e-01 1.1210926920 -1.003363e+00 8.075268e-01 7.705882e-01
## [785,] 3.138760e-03 -1.1288257687 -4.295973e-01 1.529521e+00 4.002299e-01
## [786,] -1.586705e-01 -0.9827874995 1.536382e+00 -1.735215e+00 3.395609e-01
## [787,] 1.692798e+00 -0.2387924620 -1.135225e+00 3.832591e-01 -2.877650e+00
## [788,] -1.116282e+00 -1.4043968662 -2.216845e-01 5.045508e-02 -8.732567e-01
## [789,] -6.486691e-01 0.8204827466 8.366772e-01 -1.915799e+00 -1.357191e+00
## [790,] -1.549526e-01 -1.1381676989 1.237881e+00 -2.142422e-01 -1.737436e+00
## [791,] 7.089523e-01 -0.9364046222 1.391118e+00 -4.141774e-01 -1.477895e+00
## [792,] -2.111665e-01 -1.6698617776 -2.561796e-02 2.664916e-01 6.901462e-01
## [793,] 1.435298e+00 0.7571994118 1.290370e+00 2.125378e-01 -1.400806e+00
## [794,] -1.711082e+00 0.3378985867 -1.699500e+00 -3.938627e-01 1.134053e+00
## [795,] -7.211453e-01 0.3622329624 1.414195e-01 8.851978e-02 -4.247176e-01
## [796,] -5.676229e-01 -0.9757811430 -3.143246e-01 9.627407e-01 5.724198e-01
## [797,] 5.430646e-01 0.2237801022 -1.493889e+00 1.879550e-01 7.634688e-01
## [798,] 1.352281e+00 -1.7577952400 2.673844e-01 -3.798588e-01 8.463770e-01
## [799,] -6.990325e-01 1.3020408219 -6.079604e-02 -3.113696e-01 -1.156747e+00
## [800,] -1.262136e+00 -1.0610703597 -2.354543e+00 1.289364e+00 1.236009e+00
## [801,] 8.198422e-01 -1.8844319488 1.634844e+00 -8.545041e-01 5.327753e-02
## [802,] -7.171000e-02 -1.1340089913 -7.240042e-01 1.842366e-01 -9.821054e-02
## [803,] 5.071281e-01 0.3324278944 1.491864e+00 2.154153e+00 4.757637e-01
## [804,] -9.711700e-01 0.6442099559 6.423488e-01 -3.322581e-01 -1.610145e+00
## [805,] -1.470222e-01 -0.3344360276 -1.139565e+00 5.772004e-01 8.490542e-01
## [806,] 1.380064e+00 -0.1126105559 -4.180429e-01 -3.552686e-01 -1.891102e+00
## [807,] 8.674755e-02 0.6345267918 1.615081e+00 -5.284091e-01 -7.142293e-01
## [808,] -1.090982e+00 -1.1170755786 3.488838e-01 1.124125e+00 1.739522e-01
## [809,] 1.052542e+00 0.8373781098 -6.011376e-01 1.195555e+00 1.578974e+00
## [810,] 3.946925e-01 -1.3822767802 1.881487e-01 1.553702e+00 7.421308e-01
## [811,] -1.390237e+00 1.0885163605 1.314593e+00 -1.048654e-01 -3.509228e-01
## [812,] -9.944149e-01 -1.9942384996 2.274137e-01 -4.887211e-02 -4.450160e-01
## [813,] -2.960550e-01 0.9545886595 5.197768e-01 1.007570e+00 -1.435564e+00
## [814,] 1.109146e-01 -3.1353553497 -2.292554e+00 -1.579867e-01 2.426818e-01
## [815,] -1.305118e+00 -0.6174891432 5.163882e-01 -8.343730e-01 1.148293e+00
## [816,] 9.207978e-01 0.2227639868 -7.854865e-01 6.295525e-01 8.352012e-01
## [817,] -5.714492e-01 1.2054453683 6.583326e-01 4.945187e-01 1.229690e+00
## [818,] -1.379128e+00 -0.4116710421 1.711661e+00 -7.566058e-01 -7.920645e-01
## [819,] -1.391221e+00 -0.9645708322 -1.915837e+00 -1.129190e-01 3.033457e+00
## [820,] 2.153330e+00 0.4494109362 9.107291e-01 -3.509544e-01 1.263480e+00
## [821,] 6.625328e-01 0.2297420896 2.543971e+00 -3.958412e-01 4.930600e-01
## [822,] 2.534761e-01 -0.8891139375 4.214358e-01 8.198615e-01 1.475606e+00
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## [824,] -2.285545e+00 0.7533385760 8.409831e-01 -1.329718e+00 -1.915101e+00

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## [825,] 4.551714e-01 -0.8954890784 1.942383e+00 -1.244787e+00 4.249172e-01
## [826,] 3.621553e-01 0.4520148097 -2.030535e+00 -7.421306e-02 -6.839830e-01
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## [831,] -2.981613e+00 0.1690230705 4.860276e-01 6.728837e-01 -1.139473e+00
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## [834,] 6.498147e-01 0.1729524263 -1.773948e+00 -5.385726e-01 2.597644e-01
## [835,] -7.225509e-01 1.2807116478 -5.761593e-01 5.254978e-02 6.632481e-01
## [836,] 2.922162e-01 -0.0817006529 5.647034e-01 -2.136175e-01 -6.559439e-01
## [837,] -6.071156e-01 1.5828383796 2.580499e-01 1.471190e+00 -6.477893e-01
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## [840,] 7.137951e-01 -0.6282051580 1.100706e-01 7.734671e-01 2.836099e-02
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## [842,] -3.928765e-01 0.4840643179 8.934972e-01 -1.247658e+00 1.535815e+00
## [843,] 2.449328e+00 1.6776821754 -3.565047e-01 -1.138230e+00 -6.941271e-01
## [844,] 4.634273e-01 -0.5140238729 1.310699e+00 5.411042e-01 1.955539e+00
## [845,] -2.374045e-01 -1.0102615258 1.864009e-01 1.679969e-01 -2.265752e-01
## [846,] 4.567853e-01 -0.2345760525 -1.004940e+00 1.954755e-01 4.021119e-01
## [847,] 1.494716e+00 0.7361517233 7.399038e-03 3.773369e-01 2.220437e+00
## [848,] -1.795582e+00 -0.2909565827 -1.794984e+00 -8.662162e-01 2.677500e+00
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## [850,] 3.074289e-01 -0.5349034070 -1.986140e-01 -9.286017e-01 3.779006e-01
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## [852,] 1.865910e+00 0.6575441999 -1.205978e+00 -7.486654e-01 3.788276e-01
## [853,] -2.162592e-01 0.9353887850 2.568517e-01 1.278963e+00 6.098610e-01
## [854,] 2.239135e+00 1.9632306272 6.671460e-01 -1.006190e+00 -2.805072e-02
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## [857,] 4.714059e-01 -0.0277863052 -6.067810e-01 -9.808570e-01 -1.154739e+00
## [858,] 4.164700e-01 -1.7173152730 6.481018e-01 5.542963e-02 7.947546e-01
## [859,] 7.874546e-01 0.2369893823 2.801574e-01 -7.419745e-01 -2.543925e+00
## [860,] 6.833138e-01 2.0180789278 1.571184e+00 5.322103e-01 6.488604e-01
## [861,] -1.492558e+00 0.7120855298 -9.778776e-02 5.430435e-01 1.682750e+00
## [862,] 3.204446e-01 -0.6691026222 1.169313e+00 -1.252484e+00 1.039836e+00
## [863,] -1.656333e+00 1.1818963128 1.836995e+00 -1.170932e+00 7.425197e-01
## [864,] -1.685565e+00 1.6712598504 2.202792e+00 -1.498298e-01 -1.372023e-01
## [865,] 1.106721e+00 -1.3198879360 -1.440190e+00 -9.439217e-01 1.301403e+00
## [866,] 1.875117e+00 -1.0600110531 9.827185e-01 9.196182e-02 6.530213e-01
## [867,] -8.129137e-01 0.7383891549 1.911495e+00 -1.250787e+00 1.688539e+00
## [868,] 1.518767e+00 1.1914035363 -1.376904e+00 -5.850656e-01 5.110249e-01
## [869,] -5.445474e-01 0.8164628299 -9.283205e-01 -1.471196e+00 8.329120e-01
## [870,] -1.426296e-01 1.1910993695 4.226209e-01 8.915881e-02 -1.238885e+00
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## [873,] 9.247392e-02 2.1022764955 6.529368e-01 9.963355e-01 -1.672099e+00
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## [875,] 5.443720e-01 -0.4636505273 8.069866e-01 -1.273534e+00 -7.578053e-01
## [876,] 5.988242e-01 0.9114168620 -6.307866e-02 -2.470113e-01 1.296429e+00
## [877,] 6.835929e-01 0.0693440287 1.080156e+00 5.190104e-01 5.842087e-01
## [878,] 1.209602e+00 -1.3269924952 -9.181202e-02 4.922673e-02 3.213121e-01

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## [880,] -8.450882e-01  0.6680273258 -2.301088e-01  2.363546e-01 -1.824469e-01
## [881,]  6.334189e-01 -1.6854030572  1.788081e+00  3.011468e-01 -4.169209e-01
## [882,] -3.454282e-02  0.6135233458 -5.021346e-02 -1.808853e-01 -1.137388e+00
## [883,] -1.402820e+00  0.1945541108  1.394932e-01  1.262849e-01 -8.793794e-01
## [884,] -6.219946e-01  0.6226033402 -4.462530e-01 -1.637798e-01 -6.940480e-02
## [885,]  1.178909e-01  1.0719642712  8.321267e-01 -2.654408e-01  2.171088e-01
## [886,]  4.958730e-01 -0.6478197011 -1.017254e+00 -3.198292e-01 -1.658326e+00
## [887,] -4.032410e-01  0.2306408963 -8.804422e-02  3.139094e-01 -5.404342e-02
## [888,]  9.830369e-01  0.5584603161  7.848444e-01  3.842731e-01 -8.218022e-01
## [889,]  3.615028e-01  0.8693619135  1.404148e+00 -2.151451e+00  2.687862e-01
## [890,] -1.077234e+00  0.3784608406 -1.358646e+00 -1.362516e+00  1.730780e+00
## [891,] -4.090416e-01  0.5789023621 -1.506561e-01  2.949435e-01 -7.728059e-02
## [892,]  3.512644e-01  0.7328395239 -9.096005e-01  9.994724e-01 -2.741994e-01
## [893,]  1.493492e-01  0.5384503560 -8.290219e-01 -2.739153e-01 -1.516967e-01
## [894,] -4.518953e-01  0.1727556789  1.341404e+00  1.070081e-01 -1.073802e+00
## [895,]  3.528333e-01  0.2784695215  7.287556e-01 -2.169956e-01 -1.562425e-01
## [896,]  2.112723e+00 -0.7692798470  5.263666e-01  4.116322e-01 -9.540269e-01
## [897,] -1.000946e+00 -0.8466569175 -3.032205e-01 -3.677580e-01  1.047630e+00
## [898,]  1.840797e+00 -1.5334104297 -1.400207e+00  8.666485e-03  4.862336e-01
## [899,]  1.679971e-01 -2.2823768269 -1.065572e-01 -1.518669e+00 -5.720168e-01
## [900,] -2.225960e-01 -1.2109452790  7.308099e-01 -2.902844e-01 -3.925127e-01
## [901,] -3.123318e-01 -0.1264257760  5.800039e-02 -2.013937e-02 -3.759069e-01
## [902,] -1.953525e+00  1.6019650946  3.570325e-01  6.084637e-01 -1.677035e+00
## [903,] -2.258358e-01  0.1090860955  4.268263e-01 -1.153461e+00  7.922599e-01
## [904,] -1.564814e-01 -0.7500057234 -3.633599e-01  3.563525e-01  1.142518e+00
## [905,]  9.608918e-01 -0.3631480428 -9.658617e-01  6.966960e-01  1.120112e+00
## [906,]  1.480564e+00 -1.0939832907 -3.449248e-01 -1.283074e+00 -1.178126e+00
## [907,]  6.007428e-01 -0.5643179816  1.243830e-01 -1.988255e-01  2.648766e-03
## [908,] -7.305002e-01 -0.2267116838  1.989624e-01  6.109236e-02 -7.065239e-01
## [909,] -2.848694e-01  0.4008290514  4.484516e-01 -4.521272e-01 -4.101449e-01
## [910,]  4.677879e-01  0.7238879759 -5.303626e-01 -1.291557e+00  1.058192e+00
## [911,] -7.062832e-01  1.2839700776 -3.153953e+00  3.115939e-01 -1.036740e+00
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## [913,]  9.147239e-01 -0.0324229344  6.068154e-01  1.629186e+00 -2.132435e+00
## [914,] -2.226874e+00  1.2422379332  2.717679e-01  7.955369e-01 -3.018977e-01
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## [916,] -5.161049e-01  0.1145738356 -7.845734e-01  1.501125e+00  1.831086e-01
## [917,] -1.048394e+00  0.5862353784  5.540183e-01  5.094001e-01 -2.557862e-01
## [918,] -1.522598e+00  0.3183311204  3.733922e-01  1.016189e+00  6.666705e-01
## [919,] -3.067935e-01 -0.9414460373 -1.143418e-01 -3.549939e-01 -3.871519e-01
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## [921,]  6.101270e-01 -0.6016569181  7.942999e-01 -9.548928e-01 -1.929060e-01
## [922,]  5.109935e-02  0.6851414741 -5.629331e-03  7.815783e-01  9.193638e-01
## [923,]  3.944648e-01 -0.4988375967 -1.041697e-01  1.182010e+00  8.637511e-01
## [924,]  9.258741e-01 -1.3193718715 -4.345109e-02 -3.640938e-01  1.499057e+00
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## [927,]  2.639919e-01 -0.0100826558 -1.773347e+00 -2.899879e-01 -1.099971e+00
## [928,]  1.971399e+00  0.4750662971  1.869200e+00  1.070768e+00  7.272264e-01
## [929,]  6.340117e-01 -0.4825425709  9.494366e-02  2.031981e-01  7.370370e-01
## [930,] -1.775048e-01 -0.3419969866 -5.292945e-02  6.019137e-01 -2.653842e-02
## [931,] -1.062901e+00  1.0194806549  1.083917e-01 -7.779263e-01 -1.087199e+00
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## [936,] -2.296699e+00 -0.7847376871 -8.268015e-01 -1.586422e-01 1.145560e+00
## [937,] 1.134993e+00 0.8451873796 -1.333248e+00 1.111389e+00 1.429042e+00
## [938,] -1.396440e-01 0.1337407551 -2.000434e-01 -1.709341e+00 -9.155514e-02
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## [1020,] -8.955891e-01 -0.7347113845 5.171362e-01 3.892635e-01 2.359909e-01
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## [1042,] -1.085007e+00 -0.0530366441 3.944787e-01 1.367246e+00 2.192880e-01
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## [1044,] 2.999924e-01 0.3974215695 -3.528229e-01 1.024310e+00 -1.414130e+00
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## [1049,] -1.776543e+00 -0.9642952994 7.830939e-01 -1.052228e+00 -1.201943e+00
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## [1060,] -1.722849e+00 -0.6438911401 -1.291879e+00 3.768029e-01 9.357603e-01
## [1061,] 1.312437e+00 0.7897252807 -3.272573e-01 -2.389591e-01 2.376026e+00
## [1062,] -4.938072e-01 0.9678832867 -8.123721e-01 -4.098872e-01 -1.003878e-01
## [1063,] -2.686706e+00 -0.6329796457 -3.926341e-01 2.683049e-01 1.663234e+00
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## [1071,] -8.253222e-02 -1.0807328128 -1.023604e-01 1.398817e-01 3.633802e-01
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## [1082,] 2.041800e+00 1.0253295991 -1.294960e+00 1.566787e+00 9.336939e-01
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## [1086,] -1.957929e+00 0.5637595633 5.178731e-01 -2.739544e-01 1.381948e+00
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## [1107,] 8.244071e-01 0.2798038754 -5.604665e-01 1.121415e+00 1.219305e+00
## [1108,] 2.023333e-01 -0.1743943001 4.113099e-01 -7.585424e-01 -1.422420e-01
## [1109,] -1.981443e-01 0.4486391433 1.729181e+00 -4.072880e-01 -5.810996e-01
## [1110,] -5.294990e-01 -0.1018103017 -2.045818e-01 -5.458856e-01 -1.679673e-01
## [1111,] -1.737911e+00 -0.6853045414 6.260370e-01 4.060645e-01 -1.053410e-01
## [1112,] -9.346783e-01 2.4807239647 1.802319e+00 -2.025646e-01 -2.305939e-01
## [1113,] 5.540435e-01 -0.5493439967 -1.263520e+00 -2.466635e-01 -2.892883e+00
## [1114,] -2.755520e-01 -0.7581168129 4.674232e-01 -2.349969e-01 -9.424229e-01
## [1115,] 2.506539e+00 3.2481189155 1.331972e+00 -1.159614e+00 2.362401e+00
## [1116,] 1.362154e-01 0.3595667341 -1.562860e+00 1.897348e+00 1.230751e+00
## [1117,] -1.024002e+00 -0.2432314897 2.053681e+00 1.099172e-01 -2.089145e-01
## [1118,] 8.028948e-01 -0.5038050558 9.032911e-01 1.555822e-02 -1.362871e+00
## [1119,] -2.952412e-01 -1.5694169396 -1.755650e+00 6.874130e-01 4.572856e-01
## [1120,] -5.894594e-01 0.5587969229 -9.727310e-01 1.327540e+00 -7.457439e-01
## [1121,] 1.272237e+00 1.7448065899 2.135918e+00 1.239574e+00 -2.843063e-01
## [1122,] -1.384373e+00 -0.1811054549 7.430632e-02 -1.839798e+00 1.906338e-01
## [1123,] 4.654049e-01 0.1284454387 -1.014580e+00 7.388346e-01 4.699581e-01
## [1124,] 7.420377e-01 0.7053049286 3.310073e-01 8.472982e-01 -8.098729e-01
## [1125,] 3.869495e-01 0.7530575972 -7.669437e-01 1.173887e+00 -2.057533e+00
## [1126,] -5.612383e-02 0.3115961380 -1.491716e+00 -3.145332e-01 2.273460e+00
## [1127,] -9.018613e-01 -1.4581637945 3.105522e-01 -6.646592e-01 6.446817e-01
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## [1129,] -3.781395e-01 -0.3124276662 -1.276790e-01 2.727909e-01 -1.883214e-01
## [1130,] 1.539917e+00 -1.3041410162 4.634784e-01 -4.878950e-01 5.010563e-02
## [1131,] -2.447682e+00 -1.4228620005 -5.423694e-01 -2.811337e-01 -3.893832e-01
## [1132,] 6.031241e-01 -1.0646616343 1.992529e-01 -3.448944e-01 -1.361464e+00
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## [1136,] 2.352520e-01 -1.1111652353 8.021216e-01 9.595340e-01 -9.354583e-02
## [1137,] 1.239174e-01 0.5707579438 -1.067526e+00 -4.239297e-01 -3.695829e-01
## [1138,] 1.524801e+00 -1.5256605038 -4.115732e-02 5.558898e-01 1.273447e+00
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## [1179,] -1.435642e+00 -1.9561040751 -3.623002e-01 -1.795827e+00 6.375036e-01
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## [1187,] 1.122079e+00 -0.8781658815 2.456550e+00 3.558519e-01 -1.506179e+00
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## [1189,] 1.226763e+00 -1.0326996668 1.332737e-02 -1.541235e-02 -5.840784e-01
## [1190,] 8.629335e-01 0.0331872943 6.401254e-01 1.692622e+00 4.670424e-01
## [1191,] 9.998033e-01 -1.5824245998 -6.933789e-01 1.111380e+00 9.833635e-02
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## [1194,] 5.733841e-01 -0.8158070606 1.337542e-01 1.074534e+00 5.112045e-01
## [1195,] -3.493275e-02 -0.5569612615 -1.846725e+00 -8.589071e-01 -3.212716e-01
## [1196,] -9.759905e-01 -0.9337299647 8.798975e-01 -7.034639e-01 -1.414860e-01
## [1197,] -1.118010e+00 0.4873460965 -2.424534e-01 8.380568e-01 1.255257e+00
## [1198,] 1.474404e+00 1.3178524788 -7.421594e-01 1.373201e-01 5.399149e-01
## [1199,] 6.193490e-01 1.7952224458 2.665472e-01 -7.370463e-01 2.425179e+00
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## [1201,] -8.479340e-01 0.8525878782 -3.589686e-01 -1.285901e-01 -2.411771e-01
## [1202,] 1.060676e+00 -1.0917043570 8.035996e-01 -9.135864e-01 -1.836988e+00

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## [1203,] -7.619201e-01 -0.0549128647 2.633641e+00 -8.325281e-01 1.133395e+00
## [1204,] 1.344324e+00 1.9445181557 -7.435014e-01 2.562421e-01 -1.590485e+00
## [1205,] 1.063495e+00 1.1043724811 -7.484672e-01 9.979499e-01 6.199141e-01
## [1206,] -9.011089e-02 -0.3325993137 -8.614529e-01 1.574343e+00 3.401798e-01
## [1207,] 4.674570e-01 -0.5562259117 -1.038728e+00 1.351343e-01 -9.534521e-01
## [1208,] -8.627459e-01 -0.5330297480 3.004947e-01 8.040165e-01 1.601291e+00
## [1209,] -6.670304e-01 0.2329035756 -4.626254e-01 3.159145e-01 -1.884564e+00
## [1210,] -1.053571e+00 -2.3453329168 -1.388236e+00 -5.850861e-01 3.914405e-01
## [1211,] 9.003214e-02 -0.7180270065 9.989434e-01 7.603170e-01 -1.354115e-01
## [1212,] -3.006893e-01 0.5705831738 -1.965374e+00 -8.890695e-01 -4.553838e-01
## [1213,] -2.413175e-01 -0.3704310544 1.035280e+00 -9.513591e-01 -2.173197e-01
## [1214,] 3.690145e-01 -0.5486337127 7.979956e-01 -6.886513e-01 -3.319582e-01
## [1215,] -7.076112e-01 0.0129101127 -8.039252e-02 -3.923759e+00 -2.851405e+00
## [1216,] -1.746947e-01 0.4957473218 -2.536754e-01 3.098415e+00 -2.495703e-01
## [1217,] -2.963043e-01 0.9453546143 1.835832e+00 1.700210e+00 -3.316879e-01
## [1218,] 8.254901e-01 -1.1083360169 4.756618e-01 -2.430243e+00 2.574454e+00
## [1219,] -1.240895e+00 1.2082486378 -1.679719e-01 7.741829e-01 -3.763053e-01
## [1220,] 1.127644e+00 0.1875618646 8.415527e-01 1.479095e+00 1.000158e-01
## [1221,] -1.067201e+00 -0.6718081709 -2.153692e+00 -5.662453e-01 1.199171e+00
## [1222,] -1.345685e+00 0.5416198272 7.648422e-01 1.567516e+00 1.907226e+00
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## [1225,] -1.178813e-01 1.2668283572 -1.091167e+00 8.281621e-01 -1.601345e+00
## [1226,] 1.447494e+00 -1.0438272079 -1.784961e+00 -7.933548e-01 4.907988e-01
## [1227,] -4.610587e-01 -0.6809116744 -3.163994e-01 -6.159184e-01 2.132309e+00
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## [1229,] 6.234353e-01 -0.0413319350 -4.361667e-01 5.893968e-02 2.901502e-01
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## [1231,] -3.313544e-02 0.5382481851 9.805316e-02 -8.395199e-01 5.020512e-01
## [1232,] 9.174805e-01 1.9700842251 1.865836e+00 5.261492e-01 7.063538e-01
## [1233,] -2.203836e-01 0.4349597117 5.621604e-02 1.188562e+00 1.861471e-01
## [1234,] 2.114010e+00 0.8413900214 1.250780e+00 -1.554247e-01 -4.818630e-01
## [1235,] 8.670697e-01 -0.9667546944 3.707006e-01 4.639367e-01 7.017681e-01
## [1236,] 8.752209e-01 1.1327914823 -7.166163e-01 4.341529e-01 1.341621e-01
## [1237,] -1.518950e-01 0.1065966239 2.642906e-01 5.144041e-02 -8.466875e-01
## [1238,] 3.227911e-01 -1.0181957572 6.783370e-01 1.165685e-01 -2.497276e-01
## [1239,] 9.471892e-01 -1.8759146131 -6.384569e-02 -2.114148e-01 1.390743e+00
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## [1241,] 8.834988e-01 1.9186814385 -5.754712e-01 -9.902116e-01 1.421724e+00
## [1242,] -5.612459e-02 0.9079632023 3.698825e-01 9.525308e-01 -1.399742e+00
## [1243,] 8.673143e-01 0.4677555322 7.497943e-02 -9.867972e-01 6.671248e-01
## [1244,] 1.051985e-01 0.0669038251 1.824987e-01 8.071087e-01 -1.553741e-01
## [1245,] -6.881068e-01 0.6025202816 1.378652e+00 2.244382e-01 -4.379098e-01
## [1246,] -2.155617e+00 0.5416596804 -7.316715e-01 6.120127e-01 1.265277e+00
## [1247,] -4.669857e-01 -0.4748561865 1.381163e-02 7.876657e-02 -4.727553e-02
## [1248,] -8.567310e-01 0.4673355647 5.787790e-01 1.721163e+00 -7.531942e-02
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## [1251,] -1.021360e+00 0.3541127024 4.907328e-02 1.604911e+00 -1.445015e+00
## [1252,] -2.339601e-01 -0.3469564901 4.575373e-01 -2.705193e-01 -3.790207e-01
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## [1255,] -1.303703e+00 1.4606271207 -5.120313e-01 1.350875e+00 5.423446e-01
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## [1260,] -1.525366e-01 0.3364509770 -3.044932e-01 -3.228540e-01 -1.994635e+00
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## [1264,] 1.611788e+00 -1.9554855804 -1.281645e+00 -6.956210e-02 -6.397050e-02
## [1265,] 2.682226e-01 1.4369589782 -1.895636e-01 2.025198e-01 -3.795905e-01
## [1266,] -2.311176e-01 0.3493200171 -2.780861e-01 2.816023e+00 3.849611e-01
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## [1276,] -1.363663e+00 1.3866881547 -1.138089e+00 -9.230962e-01 -5.685207e-01
## [1277,] -7.268930e-01 -1.2295996546 -1.080123e+00 9.860336e-01 1.153738e-01
## [1278,] 1.987574e+00 0.7692818720 -8.706477e-01 -1.422792e-02 -2.479498e+00
## [1279,] -2.878136e-01 -1.4935675358 1.958739e+00 7.606322e-02 1.020721e+00
## [1280,] 8.666008e-01 0.0890707903 -4.059813e-01 -1.794660e+00 1.102342e+00
## [1281,] 2.991290e+00 -1.7199569200 -1.111126e+00 -9.535618e-01 1.562688e-01
## [1282,] 2.265761e-01 -0.5678906576 7.790974e-01 6.146917e-01 4.744086e-01
## [1283,] 1.477740e+00 0.0702566824 3.741143e-01 8.056700e-01 7.669688e-01
## [1284,] -1.789584e+00 -0.3072271616 -1.418573e+00 1.863321e+00 2.687868e+00
## [1285,] 2.406713e-01 0.5311084096 1.483682e-02 3.324035e-01 -6.325845e-01
## [1286,] -1.025277e+00 0.0646272575 -4.363977e-01 -9.937992e-01 -6.124614e-01
## [1287,] 2.224085e-01 1.1939509859 7.120489e-01 -1.234486e+00 3.827399e-01
## [1288,] -1.000104e+00 -0.3554169951 -2.073137e-01 -6.843854e-01 -1.033283e+00
## [1289,] 8.879252e-01 0.8539244627 1.443118e+00 1.211953e+00 4.386749e-01
## [1290,] -4.843133e-01 1.4939064203 -2.401533e+00 1.044916e+00 -4.903296e-01
## [1291,] 2.691530e-01 1.0108668441 2.164297e-01 -3.308339e-01 -1.646365e+00
## [1292,] 7.572963e-01 0.3074135744 9.650060e-02 1.007280e+00 7.778000e-04
## [1293,] -2.576109e-01 -0.7798393414 -2.665689e-01 3.082761e-01 -1.149303e+00
## [1294,] 1.415377e+00 -0.2646332288 4.350632e-01 9.778313e-01 -6.075657e-01
## [1295,] 3.016744e+00 1.8447672699 -6.312412e-01 1.312142e+00 -6.516639e-02
## [1296,] 1.714780e+00 1.4738252809 7.812801e-01 1.373846e+00 -1.295516e+00
## [1297,] 1.572873e+00 -0.5416657933 -6.517670e-01 1.398987e+00 6.733234e-01
## [1298,] 1.092205e+00 -0.9075234431 -5.076228e-01 -1.841053e+00 -6.260467e-01
## [1299,] 4.465863e-01 0.9181107531 -1.329818e+00 -2.401604e-01 -5.906472e-01
## [1300,] 1.608835e+00 -0.8989818373 -1.575086e+00 3.189270e-01 4.340644e-01
## [1301,] -6.711616e-01 0.7009376443 -5.861245e-01 -7.256748e-01 -5.440852e-01
## [1302,] -6.491597e-01 0.1482739289 -1.325877e+00 7.819965e-01 -2.654892e-01
## [1303,] 1.538326e-01 -0.9363528808 -1.680597e+00 2.170418e+00 -1.882737e+00
## [1304,] -6.800695e-01 1.2300968389 -8.133512e-01 1.816995e+00 1.460791e+00
## [1305,] -3.814433e-01 -0.5234892335 1.117130e-01 -4.261237e-01 1.005713e-01
## [1306,] -1.835215e+00 1.3096774590 -2.675271e-01 -3.409567e+00 -9.367349e-01
## [1307,] -8.459832e-01 -0.1524708491 -1.134284e+00 -8.480198e-01 -1.210107e+00
## [1308,] 1.731187e+00 1.8032184500 -3.303917e+00 -5.464654e-01 -1.656887e+00
## [1309,] 7.854154e-02 -1.3202338015 3.988095e-01 -2.016547e+00 -7.489510e-01
## [1310,] -2.171171e+00 0.8886537036 1.182695e+00 1.254722e+00 8.076605e-01

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## [1311,] -1.267685e+00 -0.4172732836 -8.149392e-01 1.313892e-01 1.357718e+00
## [1312,] -7.207700e-01 0.6752341751 -4.429782e-01 1.514769e+00 -1.346381e+00
## [1313,] -2.627206e+00 -0.6291182565 3.241775e-01 1.471682e-01 5.055827e-02
## [1314,] 1.482898e+00 0.3453961663 -1.791577e+00 5.268025e-01 7.638399e-02
## [1315,] -1.365095e+00 0.1605916690 2.110302e-01 -3.428360e-01 -1.811156e-01
## [1316,] -1.524885e+00 1.1819632963 7.256575e-02 1.675019e+00 2.539933e-01
## [1317,] 2.348018e-01 0.2316017013 1.109922e+00 -2.111835e+00 -4.428384e-01
## [1318,] 3.594392e-01 0.5618652698 1.493933e+00 7.485740e-01 -2.276978e+00
## [1319,] 4.565000e-01 1.5607264157 -1.282976e+00 -4.301066e-01 -2.038465e-01
## [1320,] 9.197007e-02 1.8222424221 -1.961538e+00 -9.639423e-01 -1.693875e+00
## [1321,] -4.186899e-01 -0.0280714384 -1.611291e+00 -1.750032e+00 -1.395701e+00
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## [1325,] 1.718486e+00 -1.0211351001 2.368960e+00 9.357054e-01 8.764510e-01
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## [1332,] -3.162454e-01 1.2395900401 1.699244e+00 -4.987164e-01 9.359475e-01
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## [1334,] -3.530630e-01 -0.9137571714 -1.132300e+00 1.072005e+00 6.705558e-03
## [1335,] -1.361388e-01 0.7705111321 -1.475372e+00 1.585358e-01 4.304575e-01
## [1336,] -8.905959e-01 0.4020168371 -9.872497e-01 -2.521071e+00 -7.142168e-01
## [1337,] 2.651817e-01 -0.1972669293 4.279047e-01 9.336005e-01 1.206510e-01
## [1338,] 2.192563e-01 -0.7458130687 1.592019e+00 1.048306e+00 -1.427228e+00
## [1339,] -9.442968e-01 0.6415475937 -1.844113e-01 -2.479339e-01 -6.793019e-01
## [1340,] 1.897300e-01 -0.2327433499 -2.553702e+00 -7.048889e-01 -1.503297e-01
## [1341,] 1.893647e+00 -1.4713336818 -6.048432e-01 4.057958e-01 -8.710347e-01
## [1342,] 5.323829e-01 0.4895260323 -2.002759e-01 9.666719e-02 -9.305523e-01
## [1343,] -4.627286e-01 0.4374462444 6.213661e-01 -6.682158e-01 1.283925e+00
## [1344,] -7.954744e-01 -1.2643334047 9.535797e-01 1.381172e-02 8.503456e-01
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## [1347,] 4.255989e-01 0.9986549746 6.356539e-01 5.793737e-01 -1.546043e-01
## [1348,] 9.233936e-01 0.2972761160 -5.397343e-01 9.810010e-02 1.046537e+00
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## [1351,] -2.419235e-02 1.0996800985 -6.788682e-02 2.663328e+00 7.080595e-01
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## [1353,] 2.317214e-01 -1.0147373772 -3.331019e+00 -1.974780e+00 -7.086249e-01
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## [1356,] -5.695049e-01 0.5288351563 6.195103e-01 -8.401886e-01 -5.196908e-01
## [1357,] -5.908179e-01 1.2420440809 2.556309e-02 -4.093060e-01 9.490799e-01
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## [1363,] -5.936517e-01 -0.0585426547 1.488179e-01 2.031604e-01 -5.500499e-01
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## [1366,] -9.594369e-01  0.6998215711  9.215877e-01 -1.302907e-01 -8.077512e-01
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## [1368,]  3.725044e-01  -0.7632411026 -1.136910e+00 -3.707098e-01  1.858103e+00
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## [1370,]  1.197613e+00  -0.2764691921 -6.208055e-01  8.614389e-01  1.282650e+00
## [1371,] -2.548679e-01  -0.2007640784  9.914977e-01  1.134993e+00  8.401249e-02
## [1372,] -1.800400e+00  1.0618050430  1.550798e+00 -6.221687e-01 -1.086237e-01
## [1373,]  8.431206e-01  0.1816699557  1.014266e+00 -2.054149e-01  3.962846e-01
## [1374,] -3.515396e-01  0.6131179910 -2.690315e-02 -1.067842e+00 -9.354031e-01
## [1375,]  3.197153e-01  -0.4255326720 -1.412650e+00  7.750314e-02  9.847747e-02
## [1376,] -1.174386e+00  1.8508870104 -6.999346e-01  8.880040e-01 -9.524163e-01
## [1377,]  1.810439e+00  0.2176669901 -1.277237e-01  4.609467e-01  1.422967e+00
## [1378,] -7.358132e-01  -1.1957553825  4.203327e-01 -7.218987e-01 -6.667301e-02
## [1379,]  8.334484e-01  -0.8427258399  6.095707e-01 -8.381872e-01 -9.591947e-01
## [1380,] -1.642572e+00  -0.2926976611 -1.926338e+00 -9.001868e-01  1.631646e+00
## [1381,] -1.811659e+00  0.5739475210  1.071084e+00 -6.713073e-01  3.160106e-01
## [1382,]  6.418989e-01  -1.6552975701 -5.027498e-01  7.550112e-01  1.036002e+00
## [1383,]  2.331388e-01  -0.4288955881 -1.163849e-01  1.658048e+00 -1.974696e+00
## [1384,] -1.187016e+00  -0.5013893499  1.185772e+00  8.483089e-01 -2.617876e-01
## [1385,]  1.861138e+00  -1.5209462875  7.996565e-01 -1.456842e-01 -5.219250e-01
## [1386,]  2.242198e-01  0.2346323577  7.172486e-01  1.080908e-01 -1.763459e+00
## [1387,]  4.944223e-01  -0.8021001669 -1.012650e+00 -5.756213e-02 -1.774264e+00
## [1388,] -4.066468e-01  -0.5481706535 -1.141206e+00 -4.894204e-01  3.829237e-02
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## [1390,]  4.049110e-03  0.3870577867 -7.665728e-01 -8.991416e-02 -1.163714e+00
## [1391,]  1.553139e-01  0.9358146955  1.533986e+00 -1.282723e+00  6.054876e-02
## [1392,]  3.018216e-01  -0.7897990891  7.730358e-01 -1.272758e+00 -8.505037e-01
## [1393,]  1.542771e+00  -0.4009791353 -4.006959e-01  2.808399e-01  2.869518e-01
## [1394,]  8.864340e-01  0.2397170243  4.895729e-01  1.137963e+00 -1.477741e-01
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## [1397,] -1.153273e+00  2.0326952021 -1.818293e+00 -1.251567e+00 -9.612606e-01
## [1398,]  2.057494e+00  -0.2080028843  6.719593e-01  1.006910e+00  1.161331e-01
## [1399,]  2.475200e-01  -0.0934581880 -8.624531e-01  4.166819e-02 -9.002503e-01
## [1400,]  1.846191e-01  -0.1759812874 -3.946519e-01  2.263792e-01  2.427856e-01
## [1401,]  1.316449e+00  1.3928654329  1.305396e-01 -1.474069e+00 -1.000572e-01
## [1402,]  7.249438e-02  -0.5341626198  5.542497e-01 -6.339107e-01 -9.116995e-01
## [1403,]  3.696665e-01  -0.2223480633 -2.663547e-01 -1.577191e+00 -2.050209e-01
## [1404,]  2.002972e-01  1.0268679949  1.044605e+00  4.407720e-01 -2.764949e-01
## [1405,]  9.337121e-01  0.4605680350  1.165940e+00 -1.465852e+00 -1.167297e+00
## [1406,]  1.352429e+00  1.6009027433  8.572593e-01 -3.624164e-01  2.413984e-01
## [1407,]  7.145648e-01  -1.8546694773 -4.649667e-01  1.239868e+00 -4.571549e-01
## [1408,] -1.275132e-01  -1.6417861505 -5.678720e-01 -3.485405e-01  9.022380e-01
## [1409,]  1.244269e-01  2.7793421086 -1.333031e-01 -1.322689e+00  2.151060e+00
## [1410,] -1.544101e+00  1.1304468917 -8.230619e-01 -2.345648e-01  7.779187e-01
## [1411,]  5.818110e-01  -0.3809565881  2.864095e-01  7.617736e-02 -1.034322e-02
## [1412,] -4.133965e-01  -1.7739008555  6.511382e-01 -1.733272e+00 -1.891616e-01
## [1413,]  6.450120e-01  -0.7008852320 -2.834319e-01 -7.365663e-01  7.865669e-02
## [1414,] -1.844321e-01  0.2238213930  1.307947e-01 -2.343000e+00 -7.488308e-01
## [1415,] -9.276233e-01  0.2628057874  8.555637e-01  6.226950e-01  1.404558e+00
## [1416,] -1.137430e+00  0.5280831919 -4.055916e-01  2.725838e-01 -4.190962e-01
## [1417,] -9.535904e-01  -0.4680389414 -1.125761e-01  4.300395e-01  8.142462e-01
## [1418,]  6.998428e-01  0.0314083523  7.088370e-01  6.714347e-01 -8.748298e-01

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## [1419,] -9.073311e-02 -0.7237689919 7.573873e-01 3.398171e-01 -2.915174e-02
## [1420,] 9.799058e-01 0.1054944918 4.998082e-01 2.489274e-01 -1.130827e+00
## [1421,] 8.788446e-01 0.3891443441 -8.242430e-01 9.455732e-01 3.162920e-01
## [1422,] -2.564705e-01 -0.2668163659 -6.854357e-01 1.988734e+00 1.795274e+00
## [1423,] -3.290392e-01 1.5526651238 9.073843e-03 3.829058e-01 -3.822721e-01
## [1424,] 1.371455e+00 -0.7010205538 1.626116e+00 2.158752e+00 1.331543e+00
## [1425,] 4.553533e-01 0.6915651878 2.947132e-01 -9.014801e-01 2.787766e+00
## [1426,] -1.125647e+00 0.4201360007 -7.298124e-01 2.085171e+00 8.405186e-02
## [1427,] 1.325729e+00 0.4583679648 4.156933e-01 5.811390e-01 1.315343e+00
## [1428,] -6.170263e-01 0.1966269362 1.413305e+00 -1.716823e-01 -8.709448e-01
## [1429,] 1.221742e+00 -0.2122237525 2.873846e-01 1.194709e+00 -8.328509e-01
## [1430,] -1.399448e+00 0.6219648293 -2.845368e-01 4.882127e-01 -9.207716e-01
## [1431,] 1.901496e+00 0.7242710514 -5.292451e-01 3.769569e-01 -1.909202e+00
## [1432,] -1.782625e+00 0.5995285863 2.173859e+00 1.969768e-01 -1.082676e+00
## [1433,] -7.131984e-01 1.7069416625 2.859914e+00 -1.790025e+00 2.008919e+00
## [1434,] -8.523940e-01 -0.6785209972 2.447987e-01 -5.536791e-01 -1.191305e+00
## [1435,] 3.179048e-01 -0.5573272129 -8.540303e-01 -2.105898e+00 1.356586e+00
## [1436,] 5.286130e-01 0.7729406754 2.093004e+00 -2.941650e-01 -1.559413e-01
## [1437,] 5.698403e-01 0.0361082383 9.168561e-01 -2.685889e-01 1.536880e+00
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## [1439,] -2.099343e+00 -0.1920034881 3.314437e-01 -1.380353e+00 -4.984840e-01
## [1440,] -5.233107e-01 1.6365143008 1.874840e+00 -1.716046e+00 4.142089e-02
## [1441,] 1.534943e-01 -0.4023028584 6.815608e-01 -1.097103e+00 -2.491709e-01
## [1442,] 9.531568e-02 0.1923722345 6.502372e-01 1.302298e-01 4.348865e-01
## [1443,] -1.092556e+00 0.0016486096 -2.407895e-01 -2.740531e-01 1.013264e+00
## [1444,] -6.982714e-01 0.7618938898 -2.763451e+00 7.009775e-01 -1.492550e+00
## [1445,] -8.646106e-02 -0.2552956591 5.524326e-01 -1.220361e+00 2.299003e-01
## [1446,] 5.484391e-01 0.2447785233 -2.949332e-01 7.418648e-01 6.149323e-01
## [1447,] 8.513324e-01 1.0583359079 -8.777251e-01 3.288662e-01 1.255335e+00
## [1448,] 1.126464e+00 -0.4904538359 7.928601e-01 1.009911e+00 2.950193e-01
## [1449,] -1.045694e+00 0.5646349939 -4.752408e-01 7.391175e-01 8.403393e-01
## [1450,] -1.486600e+00 0.0548863095 6.710940e-01 8.357430e-01 5.342785e-02
## [1451,] 3.363327e-01 0.1442817826 1.765717e-01 3.482888e-01 8.586826e-01
## [1452,] 1.222713e+00 -1.5430425094 -1.881246e-01 -7.140476e-02 9.605648e-01
## [1453,] 1.527681e-01 -0.0701129261 5.588644e-01 -1.463583e+00 6.422919e-01
## [1454,] 9.433393e-01 0.3467052511 -1.957578e+00 -1.418188e+00 -1.222121e+00
## [1455,] 4.144515e-01 -0.6956714672 1.327147e-02 -4.021375e-01 2.023110e-01
## [1456,] -6.427446e-01 -1.3436199797 7.109541e-01 1.015094e+00 -4.057647e-02
## [1457,] -1.417862e+00 1.0879611610 -2.753442e-01 -1.503660e-01 1.325162e+00
## [1458,] 9.116944e-02 -0.9087412945 -1.344246e+00 2.883221e+00 1.052000e+00
## [1459,] -1.886079e+00 0.5342623233 1.350567e+00 -5.166137e-01 2.087211e-01
## [1460,] 7.204746e-02 -0.3813558494 -8.305202e-01 -1.284656e+00 -1.417797e+00
## [1461,] -2.859763e-02 0.0251638663 2.040357e-01 -5.279358e-01 -4.102802e-01
## [1462,] 1.804419e+00 1.4419725271 1.102527e+00 2.592625e-01 1.859880e+00
## [1463,] -9.486323e-02 0.3827618389 2.178955e+00 -3.102606e-01 -2.633505e-01
## [1464,] -4.058420e-02 -0.3732957730 -9.888827e-01 2.421851e+00 -1.306337e+00
## [1465,] -6.101966e-01 -1.0352792392 -5.951939e-01 -8.923614e-01 -2.060573e-01
## [1466,] 3.620539e-01 -0.2876961228 7.590352e-01 -8.299791e-01 1.415668e+00
## [1467,] -4.917896e-01 -0.6733955022 8.621003e-02 -1.760261e+00 -4.646515e-01
## [1468,] 1.431024e+00 -0.2408550964 6.676650e-01 -3.269604e-01 -2.420205e+00
## [1469,] -1.028744e+00 1.4462371886 -2.033887e-01 4.684884e-01 8.234388e-02
## [1470,] 1.046949e+00 -1.6937558628 -6.432852e-01 -5.013603e-01 1.980963e-01
## [1471,] -2.424204e-02 0.0825996920 5.500700e-01 -8.369272e-01 1.482968e+00
## [1472,] 4.972279e-01 0.0147445649 4.538922e-01 -1.197423e+00 -6.353702e-01

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## [1473,] -2.642446e-01 0.6126527475 -5.395909e-01 8.725780e-01 -5.307805e-01
## [1474,] 1.784427e-01 1.0913914513 -1.226891e+00 -8.737963e-01 2.957605e+00
## [1475,] -1.800501e-01 0.7153690870 7.425828e-01 1.503192e+00 -3.155052e-01
## [1476,] 8.207750e-01 -0.4059694914 3.484216e+00 -1.229743e+00 -1.666670e+00
## [1477,] -6.315209e-01 0.7116104324 -1.844272e+00 5.332829e-01 1.051649e+00
## [1478,] -7.960643e-01 1.2379948697 -1.707422e-01 1.353719e-01 8.388341e-01
## [1479,] 1.643713e+00 -0.4656860518 -4.899176e-02 -8.745089e-01 6.278433e-01
## [1480,] -2.134174e+00 -1.1184272285 -1.040899e+00 2.920637e-01 5.338512e-01
## [1481,] 1.086003e-01 -1.8538105172 -2.739537e-01 2.193775e-01 8.223855e-01
## [1482,] 1.505059e-01 -0.7064062881 2.901143e-01 1.175524e-01 -7.952851e-02
## [1483,] 4.927154e-01 -0.7464384006 -1.549287e+00 -5.916249e-01 -6.214825e-02
## [1484,] 6.798866e-01 2.3307299283 8.283713e-01 -9.420143e-01 -1.045481e-01
## [1485,] 1.529007e+00 0.0976044706 9.525232e-01 -2.258413e-01 5.143176e-01
## [1486,] 8.310898e-01 0.1138420440 7.463539e-02 1.076578e+00 -3.018928e+00
## [1487,] 1.079188e-01 0.2829978230 1.961932e-01 4.997390e-01 -3.538669e-02
## [1488,] -1.803013e+00 -0.6522452766 -1.333408e-01 5.826854e-01 -6.441998e-01
## [1489,] -4.127750e-01 -0.6850393307 1.717758e-01 1.213498e+00 2.150924e+00
## [1490,] -2.284600e+00 1.0319794664 -7.512987e-01 9.154630e-01 2.283513e-01
## [1491,] -2.202766e-02 1.1768036476 -3.408294e-01 -2.634948e+00 -1.203167e-01
## [1492,] -5.422373e-01 -0.2894454653 -2.272189e-01 -1.738568e+00 -2.309232e+00
## [1493,] 1.974595e+00 -2.2773642738 -1.336829e+00 -2.440067e+00 -4.647610e-01
## [1494,] 1.837745e-01 -0.4593533713 6.439871e-02 -2.541309e+00 3.134257e+00
## [1495,] -3.741803e-01 1.0816960451 -4.099053e-01 9.183398e-01 -1.319128e+00
## [1496,] -3.339674e-01 0.6263673184 2.830937e-01 1.853866e+00 6.536949e-01
## [1497,] 4.348930e-01 0.1968814966 1.134941e+00 1.951776e+00 8.084039e-01
## [1498,] -8.047740e-01 -0.4220127158 -1.406426e-02 -5.829185e-01 1.363545e+00
## [1499,] -1.280259e+00 1.0924784467 -1.675637e+00 1.521094e+00 1.241140e+00
## [1500,] 1.987763e-01 -0.3633174703 -3.109813e+00 -1.295673e+00 -6.851650e-02
## [1501,] -2.357627e-01 -0.1003780935 1.410375e+00 -7.374683e-01 -1.827370e-01
## [1502,] 5.300763e-01 -0.0622557012 1.562373e-01 -2.798070e-01 -7.992726e-01
## [1503,] -7.746545e-01 -0.9776345998 -1.177471e+00 1.588089e+00 4.225292e-01
## [1504,] 6.936737e-01 0.6363218090 -3.009495e-02 4.169167e-02 -2.325083e-01
## [1505,] -5.977466e-01 0.1024554765 -1.255000e+00 5.826594e-01 8.605058e-02
## [1506,] -9.340822e-01 -0.5299808760 -1.805199e+00 -1.539925e+00 1.814345e+00
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## [1508,] 3.827399e-01 0.1247853945 -5.589349e-01 6.021044e-01 -1.146456e+00
## [1509,] 1.008341e-01 -0.1873438141 -9.060871e-01 3.093686e-01 -2.403100e-01
## [1510,] -3.720721e-01 0.5400253807 -1.715595e-01 4.642107e-01 1.703372e-01
## [1511,] 2.618285e-01 -0.8817459600 -2.293819e+00 -3.317147e-01 1.013099e+00
## [1512,] -8.556221e-01 -0.5173203424 -4.199468e-01 4.189306e-01 -9.360892e-01
## [1513,] 2.812145e-02 0.2562003865 -1.005891e+00 -5.647510e-01 -7.580345e-01
## [1514,] -2.110539e+00 0.4392315088 -5.199636e-01 -4.736613e-02 2.435768e+00
## [1515,] 3.728693e-01 -0.2011141367 -4.749074e-01 -3.233365e-01 -3.787656e-01
## [1516,] 8.415698e-01 0.4794520413 -8.483930e-01 1.775251e+00 5.739546e-02
## [1517,] 6.245226e-01 -0.2558344409 1.338643e+00 -1.566509e+00 1.152314e+00
## [1518,] -3.740354e-02 -1.1315411902 5.319843e-01 -5.956043e-02 1.852895e-01
## [1519,] -1.663801e+00 -1.0060850128 -4.288063e-01 -1.494083e+00 -1.123138e+00
## [1520,] 9.895178e-01 0.0651304785 -1.109950e+00 2.064679e-01 1.937423e-01
## [1521,] 1.312676e+00 1.8154106316 -1.379615e+00 -4.613962e-01 -9.858588e-01
## [1522,] 9.507216e-01 1.0283519075 -6.023510e-01 1.450921e+00 -2.019550e+00
## [1523,] -7.429524e-01 0.8590060795 -9.633431e-01 -5.253136e-01 -7.121576e-01
## [1524,] 3.257653e-01 -1.0488367085 6.171071e-01 3.663140e-01 2.140036e+00
## [1525,] 8.645413e-01 -1.0142615373 2.939618e-01 -6.411575e-02 -5.141926e-01
## [1526,] 1.016961e+00 0.6971959702 9.177523e-01 1.027168e+00 -9.675884e-01

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## [1527,] -3.107652e-01 -0.8135170943 8.248350e-01 -7.540645e-01 3.772042e-01
## [1528,] -2.251387e+00 0.0439318247 -2.303210e+00 1.456362e+00 1.049454e+00
## [1529,] -4.227644e-01 -1.0190561458 -8.567903e-01 -1.464046e+00 1.475093e+00
## [1530,] -2.142539e+00 0.7301949175 1.223725e+00 7.481088e-01 -9.201736e-01
## [1531,] -1.067899e+00 -0.6414115165 -1.008951e+00 4.818331e-01 1.007827e+00
## [1532,] 1.259259e+00 -0.5464305706 1.255131e-01 8.253722e-01 -3.196461e+00
## [1533,] -1.541488e+00 1.4410007300 8.048853e-01 1.853593e+00 1.645366e-01
## [1534,] -1.970206e+00 0.2225140019 2.651168e-01 -7.402250e-01 -3.263475e+00
## [1535,] 6.505715e-01 -0.7530061583 9.062463e-01 2.261958e-03 6.611771e-01
## [1536,] -2.176069e-01 0.2142082435 4.268873e-01 1.048732e-01 1.113835e+00
## [1537,] 1.400697e+00 -0.3933477948 -1.176299e+00 -4.925873e-01 9.543045e-01
## [1538,] 3.613120e-02 0.5165729550 -1.171026e+00 2.269579e+00 -6.868571e-01
## [1539,] 2.287720e-01 -0.0549955438 -1.162539e+00 4.875028e-01 -6.490985e-01
## [1540,] 1.403097e-01 0.4013671042 4.003431e-01 8.619125e-01 2.405234e-01
## [1541,] -1.855384e+00 -0.2403055317 -6.624186e-01 3.487713e-01 1.329350e+00
## [1542,] 8.097961e-02 1.5844407121 2.663947e-01 1.680047e+00 6.918664e-01
## [1543,] 1.853779e+00 -1.3270441353 -2.847774e+00 4.030550e-01 1.233390e+00
## [1544,] -6.351856e-02 -0.2153687500 2.011789e+00 3.711885e-01 -8.439972e-01
## [1545,] -1.109262e+00 -0.7895978540 -2.078636e+00 9.340589e-01 -4.280305e-02
## [1546,] -1.636265e-01 -0.3898722471 -2.049098e+00 5.785239e-02 -3.982782e-01
## [1547,] 9.439830e-01 0.3858494314 -1.793027e-01 2.645237e-01 -2.148533e+00
## [1548,] -2.026421e+00 0.6649146611 2.688133e+00 -1.485815e+00 1.261724e-01
## [1549,] 9.924561e-02 1.3500470375 -7.048709e-02 -1.049940e-01 -2.015478e-01
## [1550,] -1.206530e+00 0.3007021065 -8.494847e-01 -1.659248e+00 3.301535e-01
## [1551,] 2.867124e-01 0.1605519379 -1.264056e-02 1.336138e+00 -9.963201e-01
## [1552,] -2.148065e-01 1.4479032743 -1.363672e-02 2.691415e+00 9.012117e-01
## [1553,] -3.145721e-02 -1.6979999963 -7.613276e-01 -1.319016e+00 -1.449589e-01
## [1554,] 9.538393e-01 -0.1687124167 -5.470773e-01 -2.170344e-02 1.463122e+00
## [1555,] -1.605755e+00 0.5328817687 -2.469684e+00 9.392746e-01 -7.700659e-01
## [1556,] -4.144979e-01 0.4549132209 -1.389113e-01 -7.037910e-01 1.390887e+00
## [1557,] -1.031667e+00 -1.7829591152 -9.996733e-02 -1.435765e+00 1.914608e+00
## [1558,] -2.726911e-01 0.5865181106 -1.238236e+00 1.538058e-02 6.854729e-01
## [1559,] 1.390785e-01 -0.1522487301 -4.835914e-01 5.669792e-01 -2.659433e+00
## [1560,] -1.015610e+00 0.5616379623 2.758919e-01 3.977006e-01 7.171165e-01
## [1561,] -7.858188e-01 -0.1603611372 4.184219e-01 1.282064e-01 -3.917889e-01
## [1562,] -1.540399e+00 0.3234639386 4.588178e-01 -6.328176e-01 6.131577e-01
##          PC26      PC27      PC28      PC29      PC30
## [1,] 0.8410497321 -1.1173631410 2.908067e-01 1.7408162688 -0.9433504391
## [2,] -1.8108510912 -0.6612572723 -1.427564e+00 2.1932015236 0.6966261145
## [3,] -0.5641959642 -0.3170475344 5.824937e-02 -0.0475088777 -1.1956941186
## [4,] 2.0213676935 -0.5661333513 -2.279989e-01 1.4404901516 1.7796089924
## [5,] -0.9722644046 1.1165623411 6.804641e-01 0.2524540526 -0.4172085582
## [6,] -0.9511608239 1.8983533421 -9.517588e-02 0.8355715599 0.1309054188
## [7,] 0.4012836352 -0.6126590018 -4.112716e-01 -0.4025944463 0.7581109264
## [8,] 1.5113893284 -0.4748530005 1.534019e-01 0.9436930822 -0.5188160716
## [9,] -0.6259749191 -1.0183154661 -5.221140e-02 -1.2267172688 -1.0182562042
## [10,] -0.0364958779 -0.2334095632 -1.777453e-01 -0.3342421521 1.6836274578
## [11,] 1.4848144509 0.9323603208 -2.493835e+00 0.5392341661 -0.2880075382
## [12,] 1.4797101452 -1.0239948131 3.400147e-01 0.4207417674 0.5399429088
## [13,] 0.4227875300 0.2056680010 1.666233e+00 -0.9401671182 -0.3191739369
## [14,] -0.1858273820 1.5074986846 1.619893e+00 0.1532507942 -0.7192445312
## [15,] 0.1911607011 0.1786576584 3.260173e-01 -0.2184701366 0.6179033662
## [16,] 0.1081441149 0.4478553880 -7.175607e-01 -0.2446241655 1.4496861844
## [17,] 0.6323785014 0.5617123971 -6.191372e-01 -1.2184512578 -0.0111838752

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## [18,] -0.1604920784 -2.4853276878  1.237040e+00 -0.5430028994  0.0750780578
## [19,]  1.4564395570  3.7457772759 -2.825075e+00  2.0526610761 -0.8505626070
## [20,]  1.2842990569  0.5011604669 -6.966106e-01  0.0600305767 -0.2646444388
## [21,] -0.2820272874 -0.6521212863 -4.958029e-01  0.1000250543  0.5436490710
## [22,]  0.4473295713 -0.7642789364 -9.676397e-01 -1.3580697773  0.2615285161
## [23,] -0.5938665139  0.1488525905  2.533656e-01  0.2239706952  0.1269428249
## [24,] -0.3800629691 -1.2736262195  8.710332e-02  0.4867648087 -0.0464317975
## [25,]  0.3064917463 -0.4693534710  3.004144e+00 -1.2525626909 -0.1381859090
## [26,] -1.0157237435 -1.5920883750 -1.676076e+00 -0.0798532952  0.4310532338
## [27,]  0.6771908899  1.5447685096 -2.966357e+00  0.7736081627 -0.1280672138
## [28,]  0.0114113333  0.0222210226  8.256593e-01  0.1857746897 -0.4047339425
## [29,]  0.8345917733  0.2201975770 -2.267744e-01  0.6018635060 -0.4616997745
## [30,]  0.1971717029  0.0224025532  1.645808e-02  0.8419185610 -0.3844911791
## [31,]  0.4765258024 -0.3835510756 -3.703355e-01 -0.6985865401  0.5516008943
## [32,] -0.9831496603 -0.4480518736 -2.198721e-01 -2.8589774862 -2.0007382632
## [33,]  0.1646243307  0.6340607858  4.470346e-01  1.1125087501  1.2909257759
## [34,] -0.3827012626 -1.1532636070  8.818975e-01  1.7351619246 -1.9073978053
## [35,] -0.8164837534 -0.0521989438 -8.226445e-01  0.9390898074 -0.4093938178
## [36,]  0.3934624308  0.9270920674 -5.239653e-01 -1.4757334050 -0.6904593210
## [37,] -1.6553697411  0.3307279227 -4.800222e-01  1.6685425826 -0.5303733740
## [38,]  2.8615016103  0.2065315036  2.134348e+00  0.1793566764  2.8452179398
## [39,] -0.2685931054  1.0083299294 -3.996253e-02  1.1399433768 -0.0184716873
## [40,]  2.0363968839 -0.1341606333  6.260560e-02 -0.6997339189 -0.0315612267
## [41,] -1.0288703943  1.9214685258  2.319163e-03 -1.9458120897 -1.3702024074
## [42,] -0.0539599761  0.6614774702 -6.077008e-02 -0.9193836887  1.9692879751
## [43,] -0.5316562562  0.7889543949 -8.007575e-01 -0.8278936838 -0.0988542533
## [44,] -0.9329007647 -0.3163811384 -8.332991e-01 -0.1090400524  0.3403578401
## [45,]  0.3979192329  0.4430215101  1.590619e+00  0.6893275616  0.7280892340
## [46,] -0.2844542028 -0.7497153837  3.713813e-01  0.0894826347 -0.4592443334
## [47,] -0.6972845359 -1.3807432766  2.465273e-01  0.8066735865  1.5103871439
## [48,]  1.0397441402  1.9852715993  3.769793e-01  0.2263669813 -0.5499982444
## [49,]  0.4855809522  2.0447348126  1.261810e+00  1.3348000924 -0.5784538726
## [50,]  0.9246580009 -1.7205273173  1.542269e+00 -1.3340389547 -0.8717076339
## [51,] -0.5903466757 -1.2840918335  8.571044e-01  0.2542089099 -0.6995463868
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## [54,]  0.0265232671 -0.5891954197 -7.899640e-01  0.4476295120 -0.1435711541
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## [82,] -0.4857792296  0.1397096965 -1.333272e+00 -0.5920048658  0.0892055736
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## [180,] 0.8374100519 0.0576730843 -5.135282e-01 -0.1914619270 -0.1477671136
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## [1379,] 0.1029461202 1.2883699352 1.196596e+00 -0.0853582520 0.4560240622
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## [1476,] 0.4805959543 0.8579984953 4.354397e-01 1.2356368556 -0.1702444447
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## [1545,] 0.8259286285 -0.1566319914 1.252127e+00 -0.3919938643 -0.1256989413
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## [1548,] -1.2087735645 -0.1173072626 1.267022e+00 0.3966156408 0.1497456949
## [1549,] -1.5509743220 0.1602904542 -1.010590e+00 -0.0546966774 0.4095063494
## [1550,] 1.3202173526 0.8527884227 1.561274e+00 2.0526213885 -0.9493941785
## [1551,] 1.3550031925 -0.1021990578 -4.281677e-01 1.8539374699 0.6266482964
## [1552,] 0.0022150004 0.1158778634 2.633984e+00 1.7555058804 0.1547034291
## [1553,] 0.7865535190 0.4878052263 8.235753e-01 0.2941645796 0.4752851602
## [1554,] 0.8370844915 -0.3298390590 -6.968039e-01 1.2892132459 0.4200083783
## [1555,] 1.7821630414 2.8084471434 -1.113536e+00 -0.2459103505 1.0210270946
## [1556,] 0.0190170913 -0.7453026245 8.622353e-01 0.8037848409 0.7552275201
## [1557,] -1.5984784703 0.1762355891 7.449524e-01 0.8490773116 0.5006701830
## [1558,] -0.1627682211 -2.1609221081 -9.937236e-01 -0.1626796448 -0.2469264354
## [1559,] 0.1654542123 -0.1487743491 1.773115e+00 -0.2759657875 -1.2630344466
## [1560,] -0.9752208379 -1.0640784058 2.005689e-01 0.0126314100 -0.6763911198
## [1561,] 0.4906126848 -0.2714238371 -2.177445e-01 0.1135657127 0.2305291395
## [1562,] 0.2522918045 0.3209014378 2.848157e-01 0.7286163083 -1.3552206339
## [1563,] PC31 PC32 PC33 PC34 PC35
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## [2, ] -0.4401241194 3.587641e-01 1.1716847257 0.4614226908 0.1681113500
## [3, ] -0.2898210524 -2.039993e-01 0.2126640036 -0.7959140720 -0.1106574214
## [4, ] 0.4115279375 1.817251e+00 0.8411726904 2.5269948533 1.1934347695
## [5, ] -1.9472142346 1.221278e+00 1.6146144103 0.3585405331 0.0131849755
## [6, ] -0.1517340569 -1.420198e+00 -0.3657425125 0.6615334957 0.2182830923
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## [936,] -0.2141551943 -5.152940e-03 -0.0782938712 1.6940035540 -0.0629988347
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## [1303,] 0.1296055185 7.310572e-01 0.7468115645 1.3738725374 0.6559755767
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## [1489,]  0.3782628183  7.169889e-01  1.7597904853  0.2507414028 -0.5952269048
## [1490,] -0.7479878756 -1.419407e+00  0.3564525476 -0.2603888687 -1.1040613986
## [1491,] -1.6928298822  7.497971e-01  0.6184194595 -0.1746568268  0.7321087177
## [1492,] -0.3757709270  1.071474e+00  2.0250117228  0.8200782300  1.6767843920
## [1493,]  1.6582130636  2.754377e-01 -1.6363890736 -1.8606059320 -1.1838280241
## [1494,]  0.2779724645 -7.268178e-01  1.3598392290 -1.0916632691  0.9927336972
## [1495,] -0.7339917945 -4.365938e-01  0.1943106080  0.2469261324 -1.1157922011
## [1496,]  0.9819018350 -3.259587e-02 -1.2152351839  1.3296382438 -0.3829240618
## [1497,] -0.4103799025  1.786357e+00  0.1705539325  0.3782876588 -0.6231968909
## [1498,]  0.5458622450 -1.386152e+00 -0.1226958163 -0.0159079479  0.8154521848
## [1499,] -0.4684894637 -1.240883e+00  2.5460612613 -1.2818961409 -1.0459206208
## [1500,] -0.4560987157  6.114692e-01  1.0611612230 -1.0554107906 -0.5231541301
## [1501,]  0.5951273043  8.362434e-01  1.1123214602  1.7301406891  0.2697930031
## [1502,] -0.2762728515  1.444176e+00  0.7357440207  1.0575688335 -0.9875966159
## [1503,] -0.3968068124 -2.176769e-01  1.0649005342  1.6458738009  1.2269608003
## [1504,]  1.2145546095  2.145160e+00 -0.7217422356  0.3927313688 -0.1588556397
## [1505,] -0.7018627923 -3.208142e-01 -2.4504532900 -0.5186746511  0.1078407884
## [1506,] -0.2656610321 -4.116063e-01 -0.4288778315  1.0881915722 -1.6009792435
## [1507,]  0.8918404251 -2.096164e+00  0.6771504652  1.8689208672  0.8115990377
## [1508,]  0.9618016644  1.613787e+00 -0.6690212054  2.0187166576 -1.6251023636
## [1509,]  1.1596926106 -2.310538e+00 -0.4740239370  0.1650739707 -0.9646770579
## [1510,]  1.0365579395  1.202973e-01 -1.1491320751 -1.4081411209  1.1903824696
## [1511,] -0.4896017676 -6.741661e-01  0.2235351427  0.7620169872  0.4061547266
## [1512,] -0.7522795483  1.723413e+00  2.2462132228 -1.2487780214  0.9023033276
## [1513,]  1.2682871655 -1.211930e+00 -0.6041226351 -1.5351360308 -0.9408209995
## [1514,] -0.2874823231 -1.405385e+00  0.5403782170 -0.1889057584 -1.6344386295
## [1515,]  0.2501736144  3.323433e-01  0.4545550787 -0.8671834945 -1.3063673941
## [1516,] -0.5267057698 -1.953606e+00  1.0351421957 -1.0736163934 -0.2905839169
## [1517,]  1.5900839788  6.889086e-01  0.6996538593 -0.9859595293  0.9732847267
## [1518,]  0.5114729786  1.149479e-01  0.2825848252  0.4552661651  2.0516866881
## [1519,]  1.1787185511 -1.161410e+00 -0.4365189241  0.1181423241  0.6438469838
## [1520,] -0.5029406590 -1.368601e+00  0.8078483472 -1.6741208441 -0.5930337326
## [1521,] -0.5041040739  4.485482e-01 -0.4982614144  0.2002925234  1.8210143335
## [1522,]  0.8210334513 -2.735815e-01 -0.8074086939  0.6697651989 -1.2636579403
## [1523,]  0.4377803407  3.631790e-01  1.6370464327  0.0818990261  0.9903594646
## [1524,] -0.5695536140 -2.682722e-01  0.3508630941  0.2647135789  0.8494479842
## [1525,]  1.7521355186 -2.734454e+00  0.1947898440 -1.8418222427  0.4223674135
## [1526,]  1.0999734103  5.692778e-01  0.4372535151 -0.7209001757 -0.7874169394
## [1527,] -0.2480037434 -9.047193e-01 -0.7625322937  0.6840857735  1.5401519449
## [1528,] -1.9682614343 -8.126357e-01  1.0838359682 -0.8830314254 -0.9290566061
## [1529,]  0.1454556094  2.396617e-01  0.0655736869  1.4853422500  2.0745109531
## [1530,] -0.7130951418 -5.896708e-02  0.3298999408 -2.1830944881 -0.8239800671
## [1531,]  1.6127224798  5.810929e-01  0.2387040501  0.3931200153  0.7735938454
## [1532,]  0.1144438750 -2.896884e-02 -0.3345304371  0.0872537633 -0.6530114379

```

```

## [1533,] 0.1825323331 -9.141148e-01 -0.1157434773 -0.5226457032 1.5003993228
## [1534,] -3.3310143026 -2.502961e-01 -0.1630858822 2.0824535786 0.1708250374
## [1535,] 0.0208658791 4.269870e-02 -0.4380005574 -1.4837615928 1.5050826851
## [1536,] -1.5408997214 -1.091272e+00 1.0086567466 0.6535686583 -0.4789690429
## [1537,] -2.5780765668 9.525313e-01 -1.1227396270 -0.0841311132 -0.2058368081
## [1538,] -0.4876132808 -1.260966e+00 0.1303386922 1.7943814085 -0.5302380918
## [1539,] -0.8390502553 -5.608649e-01 -1.4821994549 0.4391555637 1.0429146225
## [1540,] -0.9697625321 2.481042e-01 1.6536199190 1.1356673184 0.3158895214
## [1541,] -1.0532775272 6.814601e-01 -1.7492832067 0.0229882347 0.8657640123
## [1542,] 0.8505946675 8.857942e-01 -0.8285133464 0.2381947720 -1.1467263148
## [1543,] -0.9359582458 -3.859234e-01 -0.5812918455 0.9023652069 1.0352085525
## [1544,] -1.0668717679 -7.692154e-01 0.2167535475 0.3025157331 -0.4745407108
## [1545,] -0.8960769069 7.028491e-01 -0.9021660087 -0.2308698761 0.9277730580
## [1546,] -0.8585653939 -6.739166e-01 0.3275183511 -0.1700707475 -0.4321417919
## [1547,] -0.2811026509 1.645082e-01 0.0816721608 0.2008535905 -2.4379413890
## [1548,] -1.1940591914 -5.134220e-01 -0.3011826210 -1.1205700083 -0.4468102676
## [1549,] -0.3672262559 -9.621782e-01 0.0590806941 -0.6058830283 0.9367823878
## [1550,] -1.5285789958 2.773435e-01 1.3131675516 -0.3496761022 0.4491202861
## [1551,] 0.6622580248 -3.839533e-01 -0.1825202463 0.5987928077 -0.5332501271
## [1552,] 0.4503110740 -1.345298e+00 -0.4291462209 -0.1933792332 -1.1685526949
## [1553,] -0.1323167902 -5.438210e-01 -0.3311676845 0.6042562654 1.6299696219
## [1554,] -1.3088860053 1.186960e-01 0.3344517645 -0.9954133789 -0.8968180416
## [1555,] -0.7645752773 1.405328e+00 -0.6760509249 0.3623301979 -0.1159987671
## [1556,] -1.0236893860 -4.581903e-01 -2.2999428816 -1.6081679989 0.2914792837
## [1557,] 2.8100748981 2.608774e-03 0.9555583802 0.3230624629 -0.5264783267
## [1558,] 0.0898619260 8.872037e-01 -1.1782056735 -0.4733850433 0.8355624600
## [1559,] -0.0705655209 -2.541897e-01 -1.1063000990 0.0890929359 -0.6337194926
## [1560,] -0.0564106965 -1.536643e-01 -0.6432354842 -1.5365247986 0.1962191938
## [1561,] -0.9226814222 1.003155e+00 -0.2639344652 1.0613902282 0.1986167478
## [1562,] -0.8854880389 -1.759163e-01 -0.7051063931 -0.5369609664 0.9331372206
## [1563,] PC36 PC37 PC38 PC39 PC40
## [1,] -1.217689e+00 1.644862e-01 -1.560403e-01 -7.333138e-02 8.022012e-01
## [2,] -2.074063e-01 -4.793286e-01 -1.245619e+00 -1.320532e+00 4.802469e-01
## [3,] 1.801795e-01 2.138804e-01 -2.061511e+00 6.686367e-01 -4.229134e-02
## [4,] 6.699523e-01 1.802772e-01 -2.818627e-01 1.671523e+00 -2.079212e+00
## [5,] -2.240235e-02 -6.274940e-01 -1.481359e+00 2.638419e+00 8.234179e-01
## [6,] -7.887596e-02 7.148784e-01 -1.218705e+00 -7.228320e-01 -3.804642e-01
## [7,] -6.654520e-01 2.994182e-01 6.904103e-02 6.036211e-01 5.693293e-01
## [8,] 1.089465e+00 8.586053e-01 6.258652e-02 -1.337605e+00 6.462077e-01
## [9,] 9.560542e-01 -2.993562e-01 7.373858e-02 -1.369815e+00 5.096265e-01
## [10,] 1.640739e-01 1.150502e-01 -1.488054e-01 -2.044941e-01 4.880633e-02
## [11,] -1.916072e+00 4.102268e-01 5.636378e-01 3.013110e-02 6.328649e-01
## [12,] -6.644301e-01 8.936422e-01 2.932031e-01 2.893087e-01 7.061713e-01
## [13,] -8.937572e-01 2.966172e-01 -9.329406e-01 -2.649465e-01 4.939986e-01
## [14,] -9.825427e-01 -1.049440e+00 -4.828966e-01 1.233566e+00 -6.433199e-01
## [15,] 1.994794e-01 2.808348e-01 -8.205106e-01 8.774509e-01 -1.413092e+00
## [16,] 8.434561e-01 5.325830e-01 -1.126262e-01 -4.735808e-01 2.634657e-01
## [17,] 6.309374e-01 4.208909e-01 -1.086207e+00 6.307737e-01 -8.129328e-01
## [18,] -2.143806e+00 1.618624e+00 3.602369e-01 -4.825571e-01 -1.212532e+00
## [19,] -1.442886e+00 -6.586326e-02 4.887738e-01 -3.769260e+00 1.095491e+00
## [20,] 7.255002e-01 4.552194e-01 1.182716e+00 -8.724546e-01 -1.166108e+00
## [21,] 5.292953e-03 4.432979e-01 -6.706845e-01 -4.719948e-01 -4.999321e-01
## [22,] -5.547072e-01 -3.668691e-01 -1.148354e+00 -1.000461e+00 2.542263e+00
## [23,] 1.703031e+00 -1.024743e+00 -2.373896e-01 -1.550569e-01 -7.960924e-02

```

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## [24,] -1.788921e+00 -6.889939e-01 -1.384705e+00 -6.100845e-02 -2.100569e-01
## [25,] -5.670489e-02  1.613803e-01 -7.621430e-01  7.480972e-01 -1.232620e+00
## [26,]  3.414971e-01 -9.477278e-01 -1.347170e+00  5.048911e-01 -5.920651e-01
## [27,] -2.524032e+00  1.993818e+00 -5.828430e-02 -1.849971e+00  6.882192e-01
## [28,]  9.151015e-02 -1.341496e-01 -9.474043e-01  1.290484e+00 -6.259626e-01
## [29,] -1.883811e-01  4.411587e-01  6.784834e-01  5.909898e-01 -1.518136e+00
## [30,]  4.480013e-01  2.543512e-01  1.993639e-01 -2.106420e-01  9.135370e-02
## [31,] -1.011912e-01 -1.569253e-01  4.235466e-01  2.931251e-01  2.517611e-01
## [32,]  1.017897e+00 -1.141160e+00  7.642496e-02  6.039945e-01  3.253685e-01
## [33,]  5.871144e-01 -3.487468e-01  1.103268e+00 -2.303552e+00  8.246014e-01
## [34,]  8.979590e-01 -1.365445e+00  6.227385e-02  2.100058e+00 -2.533342e-02
## [35,] -1.580477e-01 -4.037294e-01  3.177346e-01 -4.245527e-01 -4.802681e-01
## [36,]  1.753919e+00  6.801105e-01 -7.690834e-01 -1.397037e+00  6.174515e-01
## [37,]  3.415120e-02 -1.494984e+00 -7.502729e-02  5.916692e-01  8.526364e-01
## [38,] -1.027051e-01 -5.993780e-01  2.985133e-03  1.424431e+00 -5.436262e-01
## [39,] -1.952791e+00  4.050594e-01  5.788234e-01 -2.404427e-01  5.050386e-01
## [40,] -2.187316e-01  7.602566e-01  2.083790e+00  1.436351e-01  1.096293e+00
## [41,]  3.299601e-01  1.787088e-01 -1.163586e-01 -1.946802e-01 -1.937715e+00
## [42,] -3.173616e-01  1.593940e+00  3.154969e-01  1.866988e+00  1.425678e+00
## [43,]  4.671780e-01  7.395457e-01 -6.491986e-01  5.040660e-01  2.581493e-01
## [44,]  3.379333e-01 -7.428940e-01  1.060803e-01 -5.535815e-01 -5.109666e-01
## [45,] -2.291914e+00  1.343357e+00  9.902021e-01 -3.529365e+00  5.913277e-01
## [46,]  3.318270e-01  2.439351e+00  1.734503e-01 -4.211925e-01 -1.631397e-01
## [47,]  5.342129e-01 -1.848430e+00  3.626182e-01  1.315988e+00  7.608151e-01
## [48,]  1.044211e+00 -1.033198e+00 -1.474340e+00  2.297577e-01 -9.381090e-01
## [49,] -6.915742e-01  9.760297e-01  3.039399e-02 -1.890499e+00 -9.893649e-02
## [50,]  2.214112e-01  1.204943e-01  4.082393e-01 -1.694606e+00 -1.838663e+00
## [51,] -1.413539e+00  3.923584e-01 -1.713208e+00  1.116237e+00 -2.132307e-01
## [52,]  2.310329e+00  4.525918e-02  1.411470e+00  1.370914e+00  6.375650e-02
## [53,] -8.539625e-02 -1.211449e+00  2.273430e-01 -8.296854e-01 -9.749136e-01
## [54,] -6.238861e-01  2.656229e-01 -2.960851e-02  8.884014e-01  8.973832e-02
## [55,]  7.795577e-01 -1.562673e+00  2.289285e+00 -9.257113e-01  1.532373e-01
## [56,]  5.429239e-02 -1.367366e+00 -9.319727e-01  8.984648e-01  8.617407e-01
## [57,] -6.561976e-01  3.760229e-01  3.664223e-01  1.628653e-01 -1.186224e+00
## [58,]  1.080271e+00  3.551074e-02  1.066845e+00 -2.457711e+00  3.019492e+00
## [59,] -2.410160e+00 -6.213152e-01 -2.327836e-01 -1.060779e+00 -2.147279e+00
## [60,]  7.197418e-01 -2.428651e+00 -3.984884e-01 -1.336906e+00  1.114294e+00
## [61,] -2.382257e-01  1.122222e+00  3.241814e-01 -8.683263e-02  7.591529e-01
## [62,] -3.366293e-01  5.187592e-01 -1.088893e+00  1.027426e+00 -1.010719e+00
## [63,] -9.903323e-01  6.968957e-01 -8.660825e-01 -4.049907e-01 -1.000185e+00
## [64,] -8.381508e-01  2.867981e-02 -7.423539e-01 -5.499862e-01 -3.517797e-01
## [65,]  5.814085e-01 -1.371177e+00  2.504383e-01  1.750970e-02 -1.617822e+00
## [66,] -1.379748e+00 -7.708397e-01 -4.867757e-01 -5.130784e-01 -6.094250e-01
## [67,]  2.559999e-01  2.060128e-01 -1.622560e+00 -6.754032e-01 -9.005016e-02
## [68,] -9.331964e-01 -2.101622e+00 -1.242342e+00 -6.208649e-01 -1.088651e-01
## [69,] -2.266038e-01  1.013080e+00  2.405813e-01 -4.480654e-01  1.082946e+00
## [70,]  6.978857e-01  8.080738e-01  7.057053e-01 -2.027324e+00 -1.254572e+00
## [71,]  1.003931e+00  4.546944e-01  1.033832e+00 -1.104761e+00  1.268494e+00
## [72,] -1.687301e+00 -9.815757e-01  5.730898e-01 -1.141125e+00  2.533422e+00
## [73,]  4.812858e-01  4.013383e-01 -7.951297e-01 -4.043744e-02  3.369237e-01
## [74,] -3.109258e-01  1.132321e+00 -6.113450e-01 -3.870848e-01  8.943696e-01
## [75,] -2.334912e+00 -1.430546e+00 -1.278498e+00 -2.068861e-02 -9.311956e-01
## [76,] -7.026333e-01  3.391452e-01  1.099094e+00  2.957961e-02 -1.095657e+00
## [77,]  1.803157e-01 -9.561158e-02 -5.280597e-01 -1.347031e+00 -5.820023e-01

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## [78,] -1.240365e-01 9.693055e-01 -6.898610e-01 -4.635648e-01 -8.398145e-02
## [79,] 4.693635e-01 2.337449e-01 -8.675824e-01 -1.353384e-01 3.188194e-01
## [80,] 1.161566e+00 4.702650e-01 -6.886992e-01 -2.553018e-01 -1.347804e+00
## [81,] -8.180531e-01 3.351091e-01 3.848826e-01 -1.764930e+00 -1.943394e-01
## [82,] 3.275490e-01 -2.008115e-01 1.378439e+00 -4.702680e-01 -1.085148e+00
## [83,] 8.491552e-01 1.414484e+00 5.985887e-01 8.830153e-01 3.931721e-01
## [84,] -1.570717e+00 2.164241e-01 -8.430373e-01 1.769517e+00 -1.149295e+00
## [85,] 7.617943e-01 -6.674728e-01 1.998854e+00 -7.092905e-01 -1.450207e+00
## [86,] -1.339566e-01 3.819423e-01 -5.617822e-01 1.221013e-01 1.463695e+00
## [87,] -1.875900e+00 -1.480575e+00 -1.745884e+00 -8.153609e-01 3.160756e-01
## [88,] -9.582701e-01 -5.923710e-01 3.749931e-01 -3.607802e-01 -1.761334e-01
## [89,] 2.617682e-01 1.448622e-01 -5.606808e-01 -7.778899e-01 1.036300e+00
## [90,] 1.197582e+00 4.797080e-01 1.707304e+00 1.680211e-01 1.322181e+00
## [91,] 1.247339e+00 -1.055351e+00 1.190462e+00 -1.362525e+00 -7.668799e-01
## [92,] 1.575328e-01 -5.683300e-02 1.460427e-01 -7.048484e-01 -7.244108e-01
## [93,] 5.557867e-01 5.017512e-01 2.035159e-02 -1.180745e+00 1.177584e+00
## [94,] 1.525917e+00 -6.587521e-01 1.487543e+00 7.926739e-01 -7.762499e-01
## [95,] -1.048960e+00 6.804928e-01 -2.204936e+00 1.521879e+00 -3.716069e-01
## [96,] -3.107259e+00 -1.928197e+00 -1.198217e-01 1.350053e-03 9.967553e-01
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## [98,] -9.855392e-02 1.873711e+00 -1.308815e+00 -2.000154e+00 5.812887e-01
## [99,] 3.828180e-01 5.355376e-01 -3.565865e-01 2.262042e-01 -1.483835e+00
## [100,] 2.759784e-01 -1.206618e+00 2.143264e+00 3.069818e-01 -2.149595e-01
## [101,] 3.948534e-01 -6.834882e-01 -2.629601e-01 -1.704789e-01 -3.923352e-01
## [102,] -9.462323e-03 1.235346e+00 -2.445920e-01 -1.489812e+00 -1.425729e+00
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## [104,] -2.532296e-01 -8.859328e-01 -1.301055e+00 2.744135e-01 -2.473201e-01
## [105,] 8.369084e-01 1.029952e+00 3.705761e-02 7.262407e-01 -2.317267e+00
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## [107,] 1.862015e-01 1.200376e+00 4.367725e-01 1.570790e-01 -1.808228e-01
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## [109,] 1.497643e+00 -2.240266e+00 -1.262746e-01 -1.219612e+00 6.628992e-01
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## [112,] 3.073203e-01 -5.972400e-01 1.554690e+00 1.156269e+00 -5.478367e-01
## [113,] -3.945171e-01 6.113741e-01 6.529077e-01 -5.769871e-01 -1.105124e+00
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## [124,] -1.845186e+00 -4.539488e-01 8.974227e-01 -1.472171e+00 -1.380998e+00
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## [130,] -1.020642e+00 1.143987e+00 9.054060e-01 5.227293e-01 6.176165e-01
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## [266,] -3.117599e-01 -8.406910e-01  6.461063e-01  9.041299e-01  6.351874e-01
## [267,] -2.869121e-01 -2.748791e+00 -2.197560e-01 -4.468639e-02  3.580876e-01
## [268,] -2.235199e-01 -1.567479e+00  7.382270e-01 -5.709079e-02 -3.853401e-01
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## [270,] -7.591300e-01  1.205502e+00  1.669139e+00  1.337512e+00  3.249779e-01
## [271,] -1.837624e-01 -1.062806e+00  5.800429e-01 -6.629368e-01 -4.015495e-01
## [272,]  1.112491e+00  7.200350e-01  6.272544e-01 -7.010032e-01 -1.035657e-01
## [273,] -7.719232e-01 -1.824168e+00 -1.473584e+00 -7.841051e-01 -8.265259e-01
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## [276,] -1.344594e+00 -1.277936e+00 -2.990802e-01 -1.868033e-01 -9.785992e-01
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## [282,]  5.275100e-01 -2.532344e-01 -1.204914e+00  5.404823e-01 -3.666619e-01
## [283,] -6.030388e-02 -7.964308e-01  1.313599e+00 -9.828268e-01 -4.631473e-01
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## [292,] -1.326018e+00  1.637459e+00  1.312883e+00 -2.849576e-01 -1.806867e+00
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## [773,] 1.928876e+00 4.216951e-01 -1.164317e+00 6.000505e-01 4.596408e-01
## [774,] -8.018328e-01 7.665062e-01 -2.150792e+00 -8.987571e-01 5.003872e-01
## [775,] -7.570490e-01 -4.212327e-01 1.385593e+00 -6.193024e-01 -7.059561e-01
## [776,] -5.070769e-01 8.876471e-01 -1.615071e+00 -5.030710e-01 -1.015069e+00
## [777,] -4.561305e-01 1.246312e+00 -4.661531e-01 -2.929207e-01 1.122648e+00
## [778,] -5.380158e-02 -9.825903e-01 -1.452852e+00 -6.620606e-02 3.062277e-02
## [779,] 9.799014e-01 -5.359489e-01 3.420679e-01 -1.352521e+00 9.017082e-01

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## [780,] 5.770293e-02 2.116700e-01 -5.131935e-01 1.695584e-01 -1.085594e-02
## [781,] -7.011012e-01 -6.309911e-01 1.030248e+00 3.064360e-01 -8.597115e-01
## [782,] -1.242604e+00 1.027850e+00 5.165714e-01 4.946594e-01 -1.186286e+00
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## [786,] 9.583772e-01 9.111718e-01 -1.337310e+00 -2.436621e+00 4.814693e-01
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## [789,] -3.480308e-02 4.286375e-01 -7.440036e-01 5.409218e-01 5.780654e-01
## [790,] 3.829007e-01 1.339469e+00 -1.042373e+00 -9.951303e-01 2.518410e-01
## [791,] -5.425486e-01 2.281971e+00 -9.092666e-01 -1.887926e+00 -6.322799e-02
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## [794,] 1.376267e+00 1.058305e+00 2.935629e+00 4.385112e-01 -1.354985e-01
## [795,] 8.964365e-03 3.243729e-01 -7.935504e-01 -4.740850e-02 1.770427e-01
## [796,] -6.460380e-01 2.854584e-01 -1.867539e+00 -6.919644e-01 7.650082e-01
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## [799,] 1.090288e+00 3.388160e-01 -1.254908e+00 4.974693e-01 4.208344e-01
## [800,] -5.076078e-01 3.146164e-02 1.589041e-01 1.778886e+00 -1.613259e+00
## [801,] 4.976386e-01 -4.284576e-01 -8.645877e-01 -8.761135e-01 6.786900e-01
## [802,] 2.923706e+00 -6.977077e-01 -5.827865e-01 8.763411e-02 8.359839e-01
## [803,] 2.022825e+00 -5.668723e-01 -4.669562e-02 5.431416e-01 1.719858e+00
## [804,] -7.851486e-01 -2.496543e-01 1.121552e-01 -2.123156e-01 6.287930e-01
## [805,] -1.509039e+00 8.169615e-02 5.260458e-01 1.705909e-01 2.193321e+00
## [806,] 6.520149e-01 -2.288506e+00 7.778453e-01 3.543738e-01 -3.684871e-01
## [807,] 8.421290e-02 -1.460293e-01 8.038779e-01 -6.870543e-01 -7.701430e-02
## [808,] 9.766110e-02 -3.492088e-01 -1.248471e-02 7.752033e-01 7.770485e-01
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## [811,] -3.339039e-01 3.419449e-01 6.070013e-01 3.493559e-01 1.256268e-01
## [812,] -6.995320e-01 -7.650298e-01 -1.051432e+00 -1.716529e-01 1.321112e+00
## [813,] 1.058422e-01 -2.106884e-01 -7.376979e-01 1.365682e+00 -4.885359e-01
## [814,] -1.202267e+00 -1.047360e+00 -2.679184e-01 1.246530e+00 -3.926335e-01
## [815,] -5.266184e-01 1.199709e-01 -3.854538e-01 1.896138e+00 5.090430e-01
## [816,] -5.453408e-01 1.266576e+00 1.261935e+00 -5.212832e-01 1.600143e+00
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## [818,] -1.972253e+00 2.013538e-01 -1.168932e+00 2.109544e+00 1.183487e+00
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## [842,] 1.164944e+00 -3.181596e-01 3.990654e-01 -1.506238e+00 -1.203221e+00
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## [850,] -3.128622e-01 -1.247510e+00 -6.924155e-01 9.278732e-01 3.607804e-02
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## [871,] 1.397386e+00 1.030946e-02 1.139272e+00 -2.834389e-01 1.636803e+00
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## [875,] 2.403917e-01 -1.218412e+00 -2.485652e+00 8.322905e-01 1.020500e+00
## [876,] -2.829380e-01 -5.219708e-01 -1.381221e+00 2.200516e-01 -1.321501e-01
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## [901,]  5.683679e-01  7.310833e-01 -6.103557e-01  9.573795e-02  5.675037e-02
## [902,]  1.608867e+00 -1.493148e-01  3.700977e-01 -2.622075e-01 -9.153889e-01
## [903,] -6.328316e-01 -1.196600e+00 -7.403314e-01  5.427791e-01  1.335840e+00
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## [905,]  6.975153e-01  1.175947e+00  3.558142e-02  2.962333e-01  1.521822e+00
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## [939,] -1.316980e-02  9.897381e-01  2.869560e-01 -1.212493e-01  1.315268e+00
## [940,]  1.987744e-02 -6.635056e-01 -1.495012e-01  8.670367e-01 -1.675444e-01
## [941,]  5.135096e-01 -5.306836e-01 -2.599406e-01  1.464478e+00 -1.478735e+00

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## [942,] -8.261564e-01 8.158689e-01 -1.232960e+00 -1.381363e+00 -5.841745e-02
## [943,] -1.714516e+00 9.992081e-01 -1.381773e+00 -2.060885e-01 -1.516239e-01
## [944,] -1.171694e+00 -5.937380e-01 1.648477e+00 -2.484242e-01 -3.361499e-01
## [945,] -1.391605e+00 -6.388701e-02 -1.012809e+00 4.166989e-01 -1.120085e-01
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## [947,] -4.857223e-01 6.771191e-01 -8.796608e-01 -2.448090e-01 3.051939e-01
## [948,] -8.854651e-01 3.899310e-01 -4.309676e-01 8.369917e-01 -2.123504e+00
## [949,] -1.453147e+00 5.026718e-01 3.528923e-01 4.513052e-01 -5.150440e-01
## [950,] 6.708308e-01 5.240074e-01 -7.992659e-02 3.487792e-01 1.308681e+00
## [951,] 1.139233e+00 -2.276796e-01 -1.070069e+00 -2.833896e-01 9.967218e-01
## [952,] -3.190431e-01 -7.094234e-01 6.865558e-01 8.021013e-03 4.470760e-01
## [953,] 4.505452e-01 1.157240e+00 3.393320e-01 1.036412e+00 1.044317e+00
## [954,] -4.721397e-01 4.315376e-01 -4.036546e-01 -5.787537e-01 -1.622272e+00
## [955,] -1.333220e-04 -1.573604e+00 -7.103722e-01 -6.626766e-01 -9.458202e-01
## [956,] -1.193469e+00 1.233569e+00 -9.500849e-01 1.535320e+00 7.398127e-01
## [957,] 7.237249e-01 -3.970278e-01 8.570884e-01 4.198090e-01 -1.317908e+00
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## [961,] -2.328475e+00 -8.122561e-01 4.513081e-01 3.767062e-01 3.454542e-01
## [962,] -1.544439e+00 -3.298051e-01 1.649433e+00 -2.356498e-01 9.646643e-01
## [963,] 2.525467e-01 1.621534e-01 1.921301e+00 -3.704506e-01 -1.171047e+00
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## [966,] -8.888078e-01 4.373868e-01 -7.806186e-04 1.374255e+00 -4.995309e-01
## [967,] 3.661465e-02 8.169961e-01 -4.646717e-01 1.571226e+00 1.069476e+00
## [968,] 5.582303e-01 1.208521e+00 7.155890e-01 6.587738e-01 -1.600366e+00
## [969,] 4.038820e-01 -2.830934e-01 -1.332818e+00 -5.929101e-01 -1.649988e+00
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## [971,] -2.591516e-01 -2.939247e-01 5.022572e-01 -2.455932e-01 -5.529457e-01
## [972,] 4.602776e-02 -1.690388e-02 -1.860772e-01 -7.437421e-01 5.963327e-01
## [973,] 2.303369e+00 -4.729293e-01 1.332627e-01 -2.844904e-01 -1.452686e-03
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## [975,] 8.705265e-01 -2.838096e-01 9.769238e-01 4.972909e-01 1.006669e+00
## [976,] -1.804238e+00 5.588149e-01 -9.327741e-02 -5.438990e-01 4.865190e-01
## [977,] 3.917714e-01 -1.239568e+00 -5.306062e-01 -9.587538e-01 -3.925771e-01
## [978,] 2.976240e-02 -3.659241e-01 2.672521e+00 -4.252453e-02 -2.010689e+00
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## [980,] 7.388973e-01 8.330314e-01 7.717505e-01 -1.963571e+00 -3.953927e-01
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## [984,] -5.699857e-01 -1.092926e-01 1.502543e+00 -2.311364e-01 -1.250819e+00
## [985,] 2.170562e+00 -1.512788e-01 1.354975e+00 -5.887110e-01 2.093766e+00
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## [995,] 4.012310e-02 -9.216255e-02 -8.470100e-01 -2.581061e-01 -2.996765e-01

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## [998,] -3.526694e+00 -1.212093e+00 -2.068149e+00 1.033979e+00 -1.257972e+00
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## [1000,] 9.850415e-01 5.898329e-01 2.773254e-01 6.590248e-01 -1.215031e+00
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## [1002,] -5.396882e-01 4.275198e-01 1.116632e+00 -5.242076e-02 -8.908121e-01
## [1003,] 3.985371e-01 2.774361e-01 9.541941e-01 2.352741e+00 2.428071e-01
## [1004,] -9.568499e-01 -1.021083e-02 -2.568473e-01 1.261463e+00 -4.079030e-02
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## [1006,] -4.348731e-01 1.153540e-02 -6.052105e-01 1.810919e+00 5.596533e-01
## [1007,] -3.198196e-01 -7.016830e-01 1.296599e+00 2.353600e+00 8.583289e-01
## [1008,] -3.744815e-02 -8.018366e-01 6.371388e-02 -7.595817e-01 -3.201460e-01
## [1009,] 3.064081e-01 -1.639851e-01 -5.695642e-01 -1.091704e+00 6.363455e-02
## [1010,] 5.245841e-03 -2.396361e-01 -1.294419e+00 -5.119295e-01 4.698013e-02
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## [1015,] 5.084941e-01 -8.180529e-01 2.288936e+00 -1.592366e-01 2.822447e-01
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## [1017,] 1.953253e+00 4.050484e-01 6.608483e-01 9.844447e-01 5.875938e-01
## [1018,] 1.228622e+00 1.204680e+00 1.528265e+00 3.364501e-01 7.102232e-01
## [1019,] -1.380186e-01 1.941321e+00 1.811103e-01 1.664528e-02 -5.422019e-01
## [1020,] 4.005411e-01 5.911079e-01 -1.872723e-01 -4.411381e-01 7.243569e-01
## [1021,] -7.168834e-01 3.864150e-01 2.719134e-01 -9.150875e-01 -9.085094e-01
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## [1025,] -5.074549e-01 1.990693e+00 -1.779913e+00 -3.237857e-01 1.652388e+00
## [1026,] 1.020882e+00 -1.624303e-01 -3.821684e-01 1.674004e+00 -1.522767e+00
## [1027,] -1.8777700e-01 7.247359e-01 -4.217327e-02 6.589977e-01 1.095517e-01
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## [1030,] -3.349227e-01 -1.711873e+00 -1.203173e+00 -1.626234e+00 -5.890705e-01
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## [1032,] -1.208568e-01 -1.453826e+00 -9.145100e-02 2.331113e-01 -3.552695e-02
## [1033,] -1.540195e+00 2.397396e+00 5.650859e-01 -2.178612e+00 -3.563096e-01
## [1034,] -2.516267e+00 6.033056e-01 -4.806873e-01 4.074673e-02 -1.285730e+00
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## [1036,] 7.381141e-01 2.865624e-01 1.085425e+00 3.395065e-01 -1.638638e+00
## [1037,] 3.972135e-02 1.586374e+00 1.020749e+00 -1.312662e+00 9.513965e-01
## [1038,] -1.273745e-01 1.631148e+00 8.000256e-01 6.187602e-01 8.622021e-01
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## [1046,] -1.266115e-01 4.880103e-01 -9.525476e-01 7.793566e-02 2.156055e-01
## [1047,] -1.200914e+00 1.477052e+00 -3.836381e-01 1.630223e+00 2.153759e-01
## [1048,] -1.223899e-02 -3.098933e-01 -1.456857e+00 -6.372115e-01 6.434804e-02
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## [1050,] 3.196259e-01 -3.959288e-01 1.622418e+00 -7.970443e-02 7.345267e-01
## [1051,] 4.627063e-01 -8.036114e-01 1.422701e-01 1.038658e+00 -1.483269e+00
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## [1053,] -5.365035e-02 1.016963e+00 1.012782e+00 1.322613e+00 1.637408e+00
## [1054,] -5.524334e-01 -4.514455e-01 -8.837659e-02 8.829505e-01 1.525113e+00
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## [1059,] -1.087031e+00 1.703245e+00 -8.417189e-02 -8.096878e-01 -8.539826e-01
## [1060,] 1.358170e-01 1.928549e+00 -9.725321e-01 1.164788e+00 1.116724e+00
## [1061,] 8.461940e-01 -5.724288e-01 -1.529582e+00 -1.797689e+00 1.655592e+00
## [1062,] -6.366940e-01 6.764577e-01 6.589886e-01 5.840962e-01 -1.574737e+00
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## [1065,] -2.421403e+00 4.191252e-02 1.057019e-01 1.638271e+00 -1.050413e+00
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## [1071,] 3.869428e-01 7.722765e-01 4.383354e-03 -2.896816e-01 -2.300884e+00
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## [1085,] 8.010657e-01 1.591931e-01 -1.691768e-01 1.232545e+00 1.364967e+00
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## [1088,] 1.103578e+00 3.357484e-01 -8.209991e-01 1.053714e-01 -7.608366e-02
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## [1098,] 6.406042e-01 5.576790e-01 -3.169364e-01 -3.736461e-01 -2.497465e-01
## [1099,] -2.721614e-01 -5.162638e-01 -2.287544e-01 1.262320e+00 -4.102411e-01
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## [1106,] -5.885681e-01 -1.802809e-01 4.755730e-01 -7.842508e-01 1.477098e+00
## [1107,] 2.530545e+00 -4.259629e-01 3.516867e-01 -8.166526e-01 -9.363657e-01
## [1108,] 2.989570e-01 -3.210080e-01 -4.395303e-01 5.519772e-02 -2.995707e-01
## [1109,] 1.157805e-01 4.659032e-01 -1.731617e-01 6.239172e-02 5.022370e-01
## [1110,] -2.698780e-02 1.109819e+00 -5.108456e-01 1.335727e+00 1.302574e+00
## [1111,] 2.415345e-01 1.343234e+00 -6.435900e-01 -1.412647e+00 7.153618e-01
## [1112,] -1.243909e+00 8.400595e-01 -4.720118e-01 -1.673564e-01 8.173151e-01
## [1113,] 1.116103e+00 -2.317044e+00 3.307711e+00 -6.954106e-01 2.816939e-01
## [1114,] 7.490312e-02 -9.345302e-01 -2.780089e-02 -1.854607e+00 5.704308e-01
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## [1116,] -5.195182e-01 3.705893e-01 -1.104999e+00 5.162913e-01 -1.126496e+00
## [1117,] -8.642285e-01 2.683340e-01 -6.654495e-01 -6.003664e-01 -1.519617e+00
## [1118,] 9.967040e-01 7.490059e-01 8.672781e-01 1.467326e+00 -6.785466e-01
## [1119,] -9.650547e-01 1.152827e+00 -1.346554e+00 1.569102e+00 -1.040738e+00
## [1120,] 2.403522e+00 -3.226442e-01 -2.696983e-01 -1.192765e+00 -1.506110e+00
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## [1122,] 1.148355e+00 -3.417931e-01 4.059163e-01 -1.908316e+00 -8.270282e-01
## [1123,] -1.721999e-02 1.600685e-01 -2.104680e-01 8.370135e-01 1.237429e+00
## [1124,] 3.267705e-01 7.002085e-01 -4.308703e-01 6.867588e-01 -9.349104e-01
## [1125,] -4.226020e-01 -1.097534e+00 4.485118e-01 7.891894e-01 4.403947e-01
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## [1127,] -1.513697e-01 1.621551e-01 -1.324149e+00 7.674681e-01 1.387243e+00
## [1128,] 4.988154e-01 4.914955e-01 -6.046042e-01 7.188155e-02 -1.675317e-01
## [1129,] -2.562253e-01 3.725273e-01 4.077701e-02 7.111656e-01 -1.260229e+00
## [1130,] -6.690673e-01 -8.516999e-01 -8.190751e-01 5.263314e-01 -5.205420e-01
## [1131,] 2.458506e-01 -3.251247e-01 -1.056444e+00 1.276754e+00 -1.773248e-01
## [1132,] 8.587458e-01 -5.047452e-01 -1.838501e+00 -1.845939e-01 -4.413917e-01
## [1133,] 2.177945e-01 -2.213382e+00 5.153457e-01 9.838281e-01 1.702729e-01
## [1134,] -1.767631e-02 -8.059789e-02 1.451971e+00 -5.610024e-01 -4.136670e-01
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## [1138,] 9.658838e-02 1.948018e+00 -1.151355e+00 5.667686e-01 -5.751999e-01
## [1139,] -1.190602e+00 1.131511e+00 -7.914701e-01 -2.433615e-01 -7.565432e-01
## [1140,] 7.498805e-01 -1.069657e+00 5.040921e-01 5.143267e-01 5.582204e-02
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## [1143,] 1.414460e-01 7.922473e-01 7.552674e-01 6.466126e-01 -4.890014e-01
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## [1154,] -1.623315e-01 2.458633e-01 -1.235792e-01 7.702597e-01 1.204570e-01
## [1155,] -1.786098e+00 -8.408020e-01 1.237072e-01 4.279701e-01 8.431490e-01
## [1156,] 1.389844e+00 1.418270e+00 -1.380027e+00 -7.561085e-01 1.619587e+00
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## [1159,] 1.713423e-01 -7.789963e-02 1.322880e-01 -5.606953e-01 -4.485505e-01
## [1160,] 4.161122e-01 1.198380e+00 -1.484588e+00 1.240026e+00 -1.079933e+00
## [1161,] -1.053712e+00 6.969094e-01 6.636290e-01 2.410713e-01 -1.114183e+00
## [1162,] 3.674706e-01 2.979030e+00 -1.432176e-01 -1.209479e+00 -7.062802e-01
## [1163,] 4.644751e-01 8.607791e-01 9.305770e-01 -2.767479e-02 -2.537201e+00
## [1164,] 1.032274e+00 2.290520e-01 -8.572067e-01 -5.789851e-02 -2.129570e-01
## [1165,] -5.431557e-01 4.771069e-01 -6.112458e-01 1.068880e-01 -4.714100e-01
## [1166,] -1.268189e+00 1.457190e-01 1.598895e+00 -5.350422e-01 3.931400e-01
## [1167,] 1.103125e+00 -1.334938e+00 -7.151417e-01 -7.374977e-01 -7.255817e-01
## [1168,] -1.754785e+00 -4.889692e-01 -1.998811e-01 -4.433941e-01 6.743053e-01
## [1169,] -2.677142e-01 2.770844e-01 -3.368635e-01 -1.403734e-01 3.843429e-01
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## [1171,] 1.814255e+00 -1.328871e+00 1.612009e+00 1.130185e+00 1.271187e-01
## [1172,] 2.845478e+00 1.212186e+00 1.114896e+00 -9.088932e-01 1.648239e+00
## [1173,] -2.050786e+00 3.672654e-01 2.348474e+00 -2.973997e-01 9.712475e-02
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## [1176,] 8.827733e-01 6.999889e-01 -9.789400e-01 5.533875e-01 1.673397e-01
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## [1178,] 1.514900e+00 7.319578e-01 -3.811923e-01 -1.601116e-01 8.571702e-01
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## [1180,] -1.021189e+00 6.059436e-01 1.426709e+00 3.136771e-01 3.020281e-01
## [1181,] 9.572871e-01 -1.273137e+00 -1.526833e+00 -1.948204e-01 -4.882948e-01
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## [1183,] -1.293936e-01 -5.969089e-01 1.807783e+00 -6.299936e-01 -6.739544e-01
## [1184,] 5.126402e-01 -1.092806e+00 5.372777e-01 -3.140094e-01 4.223329e-01
## [1185,] -1.817869e-01 1.808630e-01 -1.163294e-01 9.400583e-01 -9.791234e-01
## [1186,] -5.213371e-01 -1.942092e-01 -3.833414e-01 2.807444e-01 9.383113e-01
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## [1192,] -2.408340e+00 8.392750e-01 -5.247098e-01 -2.156551e-01 -2.782745e+00
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## [1194,] 1.013568e+00 -1.682673e-01 8.334812e-01 2.617828e-01 -2.182984e-01
## [1195,] -5.777293e-01 2.816696e-01 -4.105098e-01 1.908875e-02 1.225765e+00
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## [1197,] -9.461813e-01 -4.450090e-01 -2.617480e+00 -9.342164e-01 -1.332063e+00
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## [1201,] -1.077609e+00 -1.643456e-01 -4.169555e-01 9.140792e-01 -9.387676e-01
## [1202,] -6.155076e-03 7.558332e-01 8.820294e-01 -1.187161e-01 7.965507e-01
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## [1215,] -1.423051e+00 1.379800e+00 8.089266e-01 8.686509e-01 -9.586583e-01
## [1216,] 1.800443e+00 -2.328404e-02 2.777389e-01 -1.534198e+00 1.169189e+00
## [1217,] -8.004401e-01 -1.800702e+00 -8.161333e-01 3.984480e-01 -4.019818e-01
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## [1219,] -2.230964e-01 1.516512e-01 4.919860e-02 3.686477e-01 -6.041753e-02
## [1220,] 2.171448e-01 -1.104961e+00 4.142404e-01 -3.398260e-01 8.923565e-01
## [1221,] 1.249345e+00 4.402292e-01 -1.011466e+00 -1.103580e+00 2.767790e-02
## [1222,] -8.326988e-01 -2.336372e-01 -1.005663e+00 -1.463728e+00 1.665003e+00
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## [1226,] 3.745127e-02 -9.794094e-01 6.045726e-01 4.133343e-02 -9.806804e-01
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## [1229,] -3.457547e-01 2.003481e+00 1.189799e+00 -8.457380e-01 1.436979e+00
## [1230,] -3.667884e-01 -8.827848e-01 -1.687635e+00 -1.134255e+00 -6.349954e-01
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## [1233,] -8.344401e-01 2.797626e-01 4.039983e-01 5.996472e-01 -6.975872e-01
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## [1257,] 1.065688e+00 8.445262e-01 6.923342e-01 6.249577e-01 1.203610e+00
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## [1259,] 4.396457e-01 1.714578e+00 -1.190297e+00 -1.353254e+00 7.771661e-01
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## [1325,] -6.173421e-01 -8.304106e-01 -1.601213e-01 1.572238e+00 -4.902372e-01
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## [1438,] 9.855147e-01 -1.759045e+00 1.159404e+00 2.821119e-01 1.219799e+00
## [1439,] -1.949069e-01 2.714098e+00 -8.550524e-01 1.189619e-01 -2.680214e-01
## [1440,] 3.433747e+00 1.986427e+00 -1.916391e+00 -4.428829e-01 1.507301e+00
## [1441,] -2.303741e+00 1.429534e-01 -7.661870e-02 -6.284346e-01 -1.368507e+00
## [1442,] 6.806513e-01 4.410129e-01 -6.640987e-01 1.841229e+00 4.067100e-01
## [1443,] -1.139662e+00 -3.628889e-01 8.231906e-01 7.620192e-01 2.121925e+00
## [1444,] -1.332251e+00 -2.313015e-01 -3.710072e-01 -9.208101e-01 2.497137e-02
## [1445,] 8.855201e-01 2.609776e+00 1.140548e+00 -8.273985e-01 -4.330215e-01
## [1446,] -4.446528e-01 -7.350294e-01 6.972812e-01 -2.641076e-01 1.771172e+00
## [1447,] -1.287582e+00 -7.170939e-02 1.528789e+00 -1.903441e+00 -4.523083e-01
## [1448,] -1.699449e-01 6.160214e-01 5.849403e-01 7.700962e-01 -1.265893e+00
## [1449,] 7.219264e-01 4.604137e-01 1.594723e+00 -2.940973e-01 2.089853e+00
## [1450,] 1.077808e+00 2.388522e-01 7.262260e-01 -4.009067e-01 1.130911e+00
## [1451,] 4.961579e-01 -4.792439e-01 5.646492e-02 -6.364809e-01 -4.092784e-01
## [1452,] 1.001677e-01 2.316148e-01 -1.003845e+00 1.905001e+00 -1.040230e+00
## [1453,] -6.882874e-01 -1.145726e+00 1.568396e+00 -1.173579e+00 1.199973e+00
## [1454,] -5.917984e-01 -4.719787e-01 -7.236150e-01 -5.387192e-01 -3.248128e+00
## [1455,] 1.739375e+00 -3.593375e-01 2.044186e+00 1.558286e+00 -7.116968e-01
## [1456,] -4.388277e-01 5.913010e-01 6.101407e-01 -2.273857e-01 -1.242145e+00
## [1457,] -7.710396e-01 -4.430039e-02 1.221361e+00 5.077411e-01 2.938337e-01
## [1458,] 5.922068e-01 -2.133235e-02 5.894219e-01 -1.100752e+00 -6.739307e-01
## [1459,] 4.487334e-01 3.995449e-01 -2.947058e-01 9.121231e-01 2.997543e-01
## [1460,] 1.650482e+00 6.739615e-01 -9.335422e-01 -1.075035e+00 6.134617e-01
## [1461,] 6.426440e-01 4.875253e-01 -6.488914e-01 -2.848188e-01 3.865911e-01
## [1462,] 5.970887e-01 -6.308073e-01 7.857760e-02 6.947460e-01 5.252984e-01
## [1463,] 3.888047e-01 1.964170e+00 -6.978735e-01 -1.482959e+00 1.025908e+00
## [1464,] -3.516010e-01 -1.737795e+00 -1.312240e+00 3.061437e-01 -4.842362e-01
## [1465,] 5.719873e-01 3.430354e-01 1.169818e-01 1.065107e+00 -5.353642e-01
## [1466,] -2.230069e+00 -5.169963e-01 -7.933555e-01 -1.328832e+00 -2.457217e+00
## [1467,] -1.004278e+00 8.008607e-02 -1.246909e+00 4.927534e-01 1.185285e+00
## [1468,] -1.478182e+00 3.850676e-01 1.480630e+00 3.229225e-01 6.843555e-01
## [1469,] 4.692664e-01 -7.000959e-01 6.055480e-01 4.363286e-01 -1.820703e-01
## [1470,] -1.453298e+00 -8.373305e-01 -6.833003e-01 -4.769308e-01 5.146543e-01
## [1471,] -4.186554e-01 1.846045e-01 -6.751183e-01 2.336383e-01 4.210449e-01
## [1472,] -2.032318e+00 3.861135e-01 1.087199e+00 1.239746e+00 4.219937e-01
## [1473,] 5.591241e-02 4.582892e-01 8.603318e-01 -1.135979e+00 2.849184e-01
## [1474,] 1.156716e+00 -1.967013e+00 4.850793e-01 -4.356861e-01 -1.313564e+00
## [1475,] -3.929482e-01 1.290840e-01 9.020408e-01 -1.654549e-01 -7.027139e-01
## [1476,] -1.017875e+00 -5.173789e-01 4.788025e-01 -3.387420e-01 1.231561e+00
## [1477,] -3.718710e-02 -1.517132e+00 1.376049e-01 9.889646e-01 2.404657e+00
## [1478,] 5.649075e-01 1.439709e+00 3.230034e-01 5.001233e-01 -6.113512e-01
## [1479,] -1.091463e+00 -1.670510e+00 -1.008494e+00 3.561270e-01 -4.670206e-01
## [1480,] 7.298869e-01 -4.869141e-01 3.091677e-01 1.105877e+00 9.879198e-02
## [1481,] -8.485800e-01 3.589327e-01 1.267630e+00 -1.849544e-01 -9.945219e-01

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## [1482,] -1.248044e-01 6.542299e-01 2.322818e-01 8.701201e-02 -1.950103e+00
## [1483,] -1.289884e+00 -1.359763e+00 -1.232348e+00 -3.681596e-01 1.802496e+00
## [1484,] 4.687993e-01 1.781845e-01 1.896448e+00 -6.464636e-01 1.467596e+00
## [1485,] -1.584033e+00 2.406666e+00 2.108935e-01 -1.382351e+00 -1.125172e+00
## [1486,] -1.839770e+00 1.498034e+00 1.236454e+00 -1.382790e-01 -3.902191e-01
## [1487,] -1.760633e+00 5.900995e-02 1.530387e-01 -1.297451e+00 1.821254e+00
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## [1489,] -2.990731e-02 4.652950e-01 4.281646e-01 -6.430226e-01 -4.711202e-01
## [1490,] -2.130954e+00 3.824616e-02 2.266377e-01 1.186854e+00 7.716536e-01
## [1491,] -1.010927e+00 -1.784777e+00 -6.894870e-01 -2.060366e-01 -9.823749e-02
## [1492,] -1.290134e+00 -9.618092e-01 -1.100959e+00 3.329506e-01 -2.250346e-01
## [1493,] 2.049989e-01 -1.040740e+00 -4.695048e-01 9.225606e-01 -6.400285e-01
## [1494,] -1.154473e-01 4.980245e-01 -1.218047e+00 -1.893466e+00 -3.548517e-01
## [1495,] 5.354941e-01 -3.199025e+00 1.153347e+00 -2.723507e+00 6.894491e-01
## [1496,] 3.553290e-01 -1.265307e-01 -2.245800e-01 -7.024715e-01 8.472662e-01
## [1497,] 4.400426e-02 2.455048e-01 3.825780e-01 -1.023479e+00 1.362895e+00
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## [1499,] -1.586670e-01 -1.680124e+00 -6.008713e-02 1.132253e+00 2.118967e+00
## [1500,] -1.010215e-01 -1.357053e-01 3.580936e-01 1.174648e-01 -3.660121e-01
## [1501,] 2.684655e-01 9.276389e-01 -5.070578e-01 3.561133e-01 8.240524e-02
## [1502,] -3.095426e-01 -2.122542e+00 3.804237e-01 -4.360399e-01 1.013881e+00
## [1503,] 2.962411e-01 -6.295242e-02 1.123367e+00 1.120600e+00 7.414448e-01
## [1504,] 2.829079e-03 1.148280e+00 -8.375916e-01 -1.761097e+00 -2.002963e+00
## [1505,] 3.812280e-01 -1.292520e+00 1.294615e+00 -8.345010e-01 -2.834358e-01
## [1506,] -1.460805e+00 6.484249e-01 2.855049e-01 2.427961e-01 9.863434e-01
## [1507,] -1.446530e+00 -2.602514e-01 8.906406e-01 1.124553e+00 -2.135407e-01
## [1508,] -8.962125e-01 -4.678121e-01 3.974307e-01 -6.700952e-01 3.722427e-01
## [1509,] -1.063526e+00 -1.035589e+00 8.494494e-01 4.996711e-01 6.607509e-01
## [1510,] -6.316760e-01 -1.250610e+00 -1.461588e-01 1.165980e+00 -1.381461e+00
## [1511,] 7.974530e-01 1.156758e+00 1.487696e+00 -2.114307e-01 1.048466e+00
## [1512,] 8.931714e-01 -7.766626e-01 -1.089863e+00 5.566935e-01 -1.521607e+00
## [1513,] -8.853954e-03 5.393161e-01 3.714225e-01 -2.051423e-01 5.238164e-02
## [1514,] 5.427390e-01 -2.058054e+00 -2.036407e-01 -2.334877e+00 -5.490556e-01
## [1515,] 2.478948e-01 4.842654e-01 -5.369460e-01 1.316334e-01 3.645860e-01
## [1516,] -1.865586e-02 -1.314218e+00 3.850592e-01 2.179942e-01 -4.238383e-01
## [1517,] -9.994290e-01 3.311909e-01 6.481510e-01 -1.400732e+00 -9.641798e-02
## [1518,] 1.250341e+00 -8.298792e-02 -1.740421e-02 2.100729e-01 6.923209e-01
## [1519,] -6.111541e-02 1.251867e+00 -9.855186e-01 5.986896e-01 2.109302e-01
## [1520,] 1.243313e+00 -6.946338e-01 -2.383611e+00 -4.651989e-03 8.126712e-02
## [1521,] -9.326581e-01 1.243248e+00 -4.633435e-01 -6.365914e-01 -9.692112e-01
## [1522,] -6.781074e-01 -3.738193e-01 8.641375e-01 2.128960e-01 2.038390e-01
## [1523,] 3.089695e-01 -1.836188e+00 -6.681259e-01 -1.507776e+00 -1.008759e-01
## [1524,] -1.057928e+00 1.363872e+00 1.322816e+00 4.966990e-01 -1.454700e+00
## [1525,] -1.985981e-01 1.322891e+00 2.213812e-01 1.627266e-01 -3.225244e-01
## [1526,] -4.529183e-01 1.278158e-02 1.127847e+00 7.323527e-03 1.057478e+00
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## [1528,] 1.778915e+00 -2.398489e-01 -9.080409e-01 -1.284820e+00 -2.884049e-02
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## [1532,] -1.077032e+00 -4.377262e-01 -2.876445e-01 -1.291526e+00 -7.210876e-01
## [1533,] -1.172490e+00 -7.172930e-01 -8.571133e-01 -5.205658e-01 2.176475e+00
## [1534,] 1.359772e+00 -1.371335e+00 9.203608e-01 -1.823562e+00 -1.312833e+00
## [1535,] 5.397584e-01 5.885653e-02 8.518287e-01 -7.303757e-01 -6.004256e-01

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## [1536,] -1.108207e+00 -5.855869e-01 -1.357123e+00 -5.968757e-01 -4.869425e-01
## [1537,] 1.458458e+00 -1.185164e+00 1.755363e-01 -3.789481e-01 2.412242e-01
## [1538,] 2.522630e-01 -1.612918e+00 -4.002057e-03 1.431613e+00 3.982667e-01
## [1539,] -6.312579e-02 1.621506e+00 -1.019246e+00 -4.504440e-01 -7.882464e-02
## [1540,] 2.340534e-01 1.714185e-01 -4.592141e-01 -4.043656e-01 -1.058141e+00
## [1541,] -5.010894e-02 -7.207700e-02 4.744301e-01 5.924778e-01 1.140723e-01
## [1542,] 3.856186e-01 -1.410413e-01 5.598276e-02 -1.181109e+00 -4.015092e-01
## [1543,] 1.231580e+00 -6.491787e-01 -1.113523e+00 1.222490e+00 1.155154e+00
## [1544,] -1.041472e+00 -4.169490e-01 -1.796836e+00 2.267372e-01 -5.843581e-01
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## [1546,] -2.329725e+00 -2.309271e-01 -2.664997e-02 -3.415884e-01 -9.882137e-01
## [1547,] 7.179940e-01 -8.344829e-01 2.722450e-01 -9.819468e-01 -1.607617e-01
## [1548,] 1.551080e-01 -1.315621e+00 -1.544471e+00 2.629609e-01 -7.171629e-01
## [1549,] 7.523272e-01 3.148764e-01 -3.717525e-01 8.187198e-01 3.885891e-02
## [1550,] -1.807044e+00 -1.235268e+00 -1.189546e+00 -1.648091e-01 1.068271e-01
## [1551,] 1.820275e+00 -2.038695e-01 6.419757e-01 -8.211584e-01 -5.079705e-01
## [1552,] 9.628834e-01 -2.852897e-01 4.229316e-01 4.389584e-01 -8.849776e-01
## [1553,] 1.409535e+00 -1.356750e+00 -1.328733e+00 -9.731904e-02 7.844951e-02
## [1554,] 9.887720e-01 -3.098143e-01 5.507434e-01 9.532751e-01 2.510097e-01
## [1555,] 1.645779e+00 -4.501365e-01 7.513173e-01 1.748878e+00 2.106487e-01
## [1556,] 1.143608e+00 -8.228477e-01 1.024988e-01 -4.737534e-01 -2.041438e+00
## [1557,] 2.860645e-01 -1.963654e+00 2.489293e+00 -5.703615e-01 7.248516e-01
## [1558,] -1.617263e+00 -4.453415e-01 -4.953864e-01 1.714291e-01 9.800462e-01
## [1559,] -1.240673e+00 1.720714e+00 1.552504e+00 -1.607228e-01 2.471611e-01
## [1560,] 1.093464e+00 -1.938864e-01 1.493968e+00 3.195061e-01 -5.513166e-01
## [1561,] -3.192451e-01 9.437576e-01 2.908696e-01 -1.294616e-01 1.305928e+00
## [1562,] -1.553889e-01 -5.760832e-01 2.245953e-01 6.430232e-01 -2.713530e-01
##          PC41        PC42        PC43        PC44        PC45
## [1,] -0.5237135163  0.3032370583 1.257217e+00 2.413886e-01 -2.136160e-01
## [2,] -0.7733121265 -1.0954107207 1.172808e+00 2.219654e-02 -7.705013e-01
## [3,] -1.3736691160  2.0815727977 -5.057821e-02 -4.007622e-01 -9.400141e-01
## [4,] -0.9025453188 -0.6734324052 1.670508e+00 9.478805e-02 9.826074e-01
## [5,] -0.8398607393  0.1749856108 -4.794484e-01 -2.471754e-01 2.794976e-01
## [6,] -1.3043655240  1.2098379600 3.074748e-01 -5.756875e-01 1.195952e+00
## [7,] 0.2203914344  0.2333360348 4.845948e-01 1.174538e+00 -8.161703e-01
## [8,] -0.2611575094 -1.4394001025 3.936575e-01 5.891698e-01 8.419080e-01
## [9,] -0.4476226713  1.4008481565 1.588224e-01 -4.144294e-01 -3.057983e+00
## [10,] 2.2824396139  1.8374331616 2.817697e-01 2.486633e-01 -7.283862e-01
## [11,] 0.0845429034 -0.7632506060 -4.808525e-01 -1.798306e+00 7.657623e-01
## [12,] 0.5171557968  0.5311478027 -9.151579e-01 3.936586e-01 -6.174879e-01
## [13,] 0.1045195929  0.2857653475 -1.511897e-01 -3.300932e-02 -7.847982e-01
## [14,] -1.0873013205 1.4726285874 -8.294519e-01 6.706793e-01 -9.207853e-01
## [15,] 0.9249400390 -0.4845757303 -6.588620e-01 7.120705e-01 -3.245982e-01
## [16,] 0.9564108510 -1.3585810684 1.235952e+00 6.235470e-01 -5.760626e-01
## [17,] 2.2452448705  0.6414307332 3.978524e-01 6.916826e-01 9.003945e-01
## [18,] 0.2824386834  0.6472729925 3.583868e-01 -9.446527e-01 1.041059e+00
## [19,] 0.7739456472  0.6143144777 -9.692218e-01 -1.504581e+00 7.923789e-01
## [20,] 0.3888087936  0.1520542796 6.073548e-01 6.254096e-01 8.458460e-01
## [21,] 0.2299229946 -0.5100151698 -1.662001e-01 7.557225e-01 -2.932661e-01
## [22,] 1.3925961637 -0.8118486069 7.629508e-01 -9.347376e-01 -4.938371e-01
## [23,] -0.6441681041 -0.7132279455 -8.274655e-01 8.097531e-02 -2.469774e-01
## [24,] 1.8569667926 -0.2277215919 -1.090855e+00 8.687739e-01 2.511408e-01
## [25,] 0.6950073573  0.7222934334 1.384756e+00 -1.057904e+00 7.282914e-01
## [26,] 0.6732436014  2.1973635467 -1.405340e-01 -4.619585e-01 -2.118742e+00

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## [27,] 0.5375257951 0.2664600817 -2.453011e-01 -1.941118e+00 1.905390e+00
## [28,] 1.0375622208 -1.8559082405 1.698959e+00 2.984158e-01 7.462371e-01
## [29,] 0.9053194165 -0.0947839935 9.988190e-01 1.539606e-01 1.775959e+00
## [30,] -2.1255883109 -1.0005828549 -2.859134e-01 -1.384389e-01 2.229138e-01
## [31,] -0.2706469285 0.0142685427 4.601872e-01 1.780788e+00 -1.346495e+00
## [32,] -1.6747531699 1.2296021136 9.210752e-01 -1.135219e+00 6.929898e-01
## [33,] -0.9947047217 1.0483161982 -9.722088e-01 -1.924362e+00 1.108423e+00
## [34,] 0.5676590020 -0.1083346440 -1.972532e+00 -5.283349e-01 -8.450844e-01
## [35,] 0.7851116485 -0.8151579326 3.502367e-02 -6.367237e-01 -1.144320e+00
## [36,] 0.3026083565 -1.9970003037 2.851674e-01 4.427938e-01 2.963655e-01
## [37,] -1.1657710663 -0.0269446968 -1.026282e+00 2.532625e-01 9.662277e-01
## [38,] 0.1083486294 0.3304751782 1.465322e+00 8.254779e-02 -3.101165e-02
## [39,] -0.2717227014 1.0918805905 8.908097e-01 1.112416e+00 1.410068e-01
## [40,] 0.6919262370 0.1071856383 -5.896095e-01 1.020032e+00 -3.482843e-01
## [41,] 0.9672185749 -0.9690492085 1.363390e+00 -5.237946e-01 -4.906310e-01
## [42,] 0.9442526910 -0.0053915995 2.199459e+00 1.838101e+00 5.677513e-01
## [43,] 0.2863419487 1.7866109109 -3.422422e-01 6.397000e-01 2.227675e-01
## [44,] -0.0289278695 0.9840659925 -1.669533e+00 1.181202e+00 -3.268396e-01
## [45,] -0.9366833716 0.6213090867 1.372582e+00 3.853032e-01 -1.077165e+00
## [46,] -0.4990343091 -0.1400468083 4.160585e-01 -4.186693e-01 -5.893227e-01
## [47,] 0.8881443595 0.7638409681 -7.532567e-01 8.342946e-01 -7.185566e-01
## [48,] -0.4686507470 -0.1604556124 -1.338240e+00 1.094945e+00 -1.391697e-01
## [49,] 0.8963211764 0.6905574101 1.736058e+00 -1.380279e-01 5.217668e-02
## [50,] 0.7376823619 -0.6438436678 -1.135351e+00 1.286738e-01 2.087365e-01
## [51,] 0.16577115241 -1.4901820820 -1.916665e-01 -4.001078e-01 -1.238189e+00
## [52,] -1.2358334885 2.1224649468 8.861045e-01 -1.695619e+00 -2.007990e+00
## [53,] 0.3806621591 0.1373395945 2.956656e-01 -1.182314e+00 5.519300e-01
## [54,] -0.7608642966 0.3510994502 5.452318e-01 1.232144e+00 4.981595e-02
## [55,] -1.1694913010 1.0889643507 -3.559724e-01 -1.352478e+00 -1.923490e-01
## [56,] 1.4796201885 1.3632766185 -2.541171e-01 -2.013239e-01 -8.685672e-03
## [57,] -0.9415718248 -1.1747689097 -1.081516e+00 7.829947e-01 2.238463e-01
## [58,] -0.2480699693 0.6908725094 2.216122e+00 -2.838537e+00 7.976462e-01
## [59,] -0.6777393711 -0.4997597200 -2.128379e+00 -2.976196e-01 1.860236e-02
## [60,] 1.7618760566 1.4519165344 7.474607e-01 -1.464835e+00 -2.397158e-01
## [61,] -0.6917695041 -0.7620809078 6.052982e-01 -1.715195e-02 5.341245e-01
## [62,] -0.2640947009 -1.7780127949 -6.705410e-01 3.083722e-01 -2.007605e+00
## [63,] 0.2763264139 0.8544004833 -2.416030e+00 -1.449869e-01 1.227310e+00
## [64,] -0.3883736467 -0.6944556516 1.902971e-01 -1.416061e+00 6.545755e-01
## [65,] 1.1887625674 0.2646831873 3.039564e-01 -2.605645e+00 -1.456136e-02
## [66,] 1.4197294982 -0.7752309802 -9.605163e-01 4.864564e-01 4.853516e-01
## [67,] -1.0537417798 1.6621224226 7.046370e-01 1.772041e+00 -2.307560e-02
## [68,] -0.5740370318 0.2499969438 -8.523784e-01 -1.941404e+00 1.828314e+00
## [69,] -1.2941003700 1.5948133197 -1.469481e+00 -2.860344e-01 -4.765236e-02
## [70,] -1.1569122884 -1.1287011776 -1.479985e+00 3.067339e-01 -8.739826e-01
## [71,] 0.6527164424 0.4012072073 1.289077e+00 1.723835e+00 -6.317162e-02
## [72,] 1.3453058976 0.7818429065 -9.320281e-01 -1.657640e-03 1.256570e+00
## [73,] -1.2114693968 0.6222057252 -8.821808e-01 2.194518e+00 -8.226099e-01
## [74,] 0.3640436301 0.0054398432 -5.588130e-01 9.770755e-01 -1.546025e+00
## [75,] 2.0332740485 -0.5051563909 7.369758e-01 4.935824e-02 -5.297890e-01
## [76,] 0.4656579234 -0.1522762832 9.927137e-01 4.875606e-01 -1.791397e-01
## [77,] 1.0991386152 -0.3004156448 1.652900e-01 1.464540e+00 -6.102105e-01
## [78,] 0.0708686265 -2.3170049543 3.466585e-01 2.249029e-01 -1.597616e+00
## [79,] -1.0822323754 1.4137463506 -1.018742e+00 1.954070e+00 -3.619156e-01
## [80,] 0.9745753004 2.3585100482 -8.303078e-01 -2.346567e-01 5.810966e-01

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## [81,] -1.9253688384 -0.6282661389 -1.037247e-01 -1.274108e+00 1.379948e+00
## [82,]  0.0389728813 -0.7187463076  3.259293e-02 -1.213136e+00 -5.714541e-01
## [83,]  0.5051774130 -1.0589925533 -9.883064e-01 -7.163062e-01 -1.550322e+00
## [84,]  1.2283329372  0.8712833900  4.083559e-01  2.996660e-01 -1.306585e+00
## [85,]  0.2293970307  0.1655912574  9.631603e-01 -1.287913e+00 -3.552229e-01
## [86,] -1.0994141818 -0.5532630871 -1.021672e+00 -1.281065e+00  3.253428e-01
## [87,]  0.1228256150 -1.1817511175  6.402579e-01  5.927254e-01 -3.337261e-02
## [88,] -0.8145391836  0.1572976903  3.843969e-01 -8.562361e-01 -1.615970e+00
## [89,] -1.7429587748  0.4851871362 -1.791634e+00  1.787700e-03  3.666591e-01
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## [91,] -0.7200830911  1.4828954909  5.137844e-01  1.063512e+00  1.993489e+00
## [92,] -0.4746514897 -0.3779455760  3.328859e-01  1.589437e+00 -8.908312e-01
## [93,] -0.0214687806 -1.3560963857  1.663192e+00 -1.288575e-01 -1.396795e-01
## [94,] -1.9031033418  1.5951258966 -4.410968e-02 -2.257297e+00 -3.349168e-01
## [95,] -0.2600323438  0.3424546781 -3.270819e-01  9.243937e-02  9.516177e-01
## [96,]  0.3868696729 -1.4076310761  1.949760e+00  1.463340e+00 -7.015205e-01
## [97,] -0.0838258293  1.0496298017  3.811317e-01 -1.237591e+00  2.459848e-01
## [98,]  0.7887729950  0.7942314786  3.952233e-01  6.961591e-01 -9.832025e-01
## [99,]  0.1754560097  1.5672656036  2.049670e-01 -1.074447e+00  1.092442e+00
## [100,] 2.5146775380  0.0628971929 -7.099329e-01 -1.606737e+00  1.160664e+00
## [101,] -0.6906116235  0.3696323911 -9.020857e-01  1.486770e+00 -7.147536e-01
## [102,]  1.0341204247  0.7027393442  8.429570e-01  4.603588e-02  1.942661e-02
## [103,]  0.5418311979 -0.0032299437 -8.198592e-01 -1.695207e-01 -3.489053e-01
## [104,] -1.6639704441 -1.2680220773 -9.949292e-01 -5.625065e-01  5.507524e-01
## [105,] -0.6770949016 -0.4602962377  2.749694e-01  4.462982e-01  1.156888e+00
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## [108,] -0.2503250725 -0.9098686936  2.557342e+00 -7.035802e-01 -7.109873e-01
## [109,]  1.5943285530 -1.0502155910  2.941768e-01  1.472867e+00  6.189387e-01
## [110,] -2.0507302658  0.0651508069  4.556013e-01 -1.459719e+00  3.397833e-01
## [111,] -0.1197331286  0.3459821385 -9.124717e-02  1.157881e+00 -7.277181e-01
## [112,]  1.7422549208 -0.3119419870  9.596787e-02 -4.568356e-01  5.911697e-01
## [113,] -1.0456417907 -0.9838865447 -8.661421e-01 -2.136702e+00 -1.620135e+00
## [114,]  0.0169240590  1.1144946405 -1.662026e+00 -8.666971e-01 -1.262699e+00
## [115,]  0.0018611868  0.3386060256 -6.468125e-01  1.841191e-01  1.042036e+00
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## [117,]  0.8134002355 -0.2161805113 -7.163313e-02 -5.409927e-01  8.213528e-01
## [118,] -0.2095750081 -0.1694569352  7.833784e-01 -3.732503e-01 -6.866830e-01
## [119,]  0.2800081278 -0.0754789440  1.883441e-01  2.376791e-01 -4.458002e-02
## [120,] -0.9634602575 -0.3021623196  6.148548e-02 -1.217943e+00 -7.486538e-03
## [121,]  1.3289780111 -0.1592176947 -1.032371e-01  1.148383e-01  1.564516e+00
## [122,]  0.2487689119 -0.7698101778  6.895676e-01  8.166254e-01 -6.195248e-01
## [123,]  0.7627961634 -0.3315110313  1.386637e+00  1.494467e+00 -7.421853e-01
## [124,] -0.6434686916  0.8306963029 -8.952424e-01 -7.526017e-01  2.987026e-02
## [125,] -0.2576522576  0.2690175337  4.833760e-01  4.483240e-01 -8.302973e-01
## [126,]  0.5288000587 -0.1984046562 -4.087052e-01 -2.845873e-01  5.322720e-01
## [127,]  0.9376650397 -0.5132857573  8.293636e-01  2.443148e-02  2.057590e+00
## [128,]  0.0342045016 -1.1154975306  1.777159e+00 -1.127419e+00 -5.740863e-01
## [129,] -1.3458198222  0.0178863527  6.764742e-01  4.195424e-01  8.725540e-02
## [130,]  0.1407962863  1.8000205840 -1.364663e+00  1.366434e+00  7.790649e-01
## [131,]  0.2717547045 -0.7319670774 -5.623558e-01 -4.879204e-01  9.271432e-01
## [132,] -0.4204497002 -0.8999912362 -7.662376e-01 -5.684837e-02 -9.741326e-01
## [133,] -0.3083672821 -1.5259718553 -8.276197e-02  1.196421e+00  4.205628e-01
## [134,] -0.8995794275 -0.6982985194  1.070955e+00  3.501988e-01  3.478211e-01

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## [135,] -1.7306566938 -0.6801502285 -1.978428e+00 8.307156e-01 9.387847e-02
## [136,] -0.9963411152 0.2335124876 1.590880e-01 1.280247e+00 2.283058e-01
## [137,] 1.2203755559 -0.8029474566 3.149792e-02 -4.014509e-01 -1.206034e+00
## [138,] -1.4916585047 -0.2378413061 -4.348113e-01 -6.633484e-01 6.091205e-02
## [139,] -0.6776319096 1.2146136580 8.238231e-01 1.106456e+00 1.008343e-01
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## [141,] -0.3436038190 0.9690106470 9.834589e-01 9.207193e-01 -7.060143e-01
## [142,] 0.5604812851 -2.2629442097 2.726052e+00 -4.312682e-01 -1.223766e+00
## [143,] 3.3762396593 0.3167080489 -4.668728e-01 -1.026889e+00 1.810092e+00
## [144,] 0.3711474380 0.1412281979 6.152841e-01 1.273562e+00 -1.125135e+00
## [145,] -0.0573084604 -0.4323508589 8.542387e-02 -7.034969e-01 1.397389e-01
## [146,] -0.3687341552 -0.1713430074 7.729048e-01 -1.295188e+00 5.458095e-01
## [147,] 0.1403139103 -0.6991519484 9.398459e-01 1.180485e+00 1.810589e+00
## [148,] 0.9959710369 -0.7415599571 4.998364e-02 -2.121408e-01 -5.307130e-01
## [149,] -0.3478034455 -1.7699669829 -2.691498e-01 -5.062009e-01 -1.244325e+00
## [150,] 0.1349075338 0.9950336113 -6.852152e-01 3.543517e-01 7.866347e-01
## [151,] 0.5658365656 -0.9584267268 2.342820e+00 1.234784e+00 -5.731012e-01
## [152,] 0.6412661918 2.0095182297 5.219189e-01 -2.173612e-02 8.480823e-01
## [153,] -0.9776737176 -0.5367259470 -1.192626e+00 -1.537415e-01 1.117353e+00
## [154,] 0.4243126193 0.0712174504 5.190514e-01 -9.093783e-01 -2.971624e-01
## [155,] -0.3915608297 0.0559292924 2.009765e+00 1.745892e-01 -3.425056e-01
## [156,] -1.6192486507 -0.5052736252 -2.722066e+00 -1.900577e+00 -7.819360e-02
## [157,] -0.1757045088 0.7807430309 1.570363e+00 -7.202612e-01 -9.432462e-01
## [158,] -0.5698374733 0.0959825269 1.135484e+00 -1.852709e+00 9.821320e-01
## [159,] 0.8102014105 0.9382084946 -1.379543e+00 9.681662e-01 -1.869872e-01
## [160,] -0.4711092578 1.4897544030 -5.130908e-01 2.196300e-01 7.460380e-01
## [161,] 0.0385071935 0.0230253749 9.931278e-02 8.044448e-02 -9.388451e-01
## [162,] -1.3302020918 0.7053372460 -1.893729e+00 -7.414257e-01 1.049394e+00
## [163,] -0.2704253140 0.6831719144 3.136346e-01 -7.261033e-01 2.144312e+00
## [164,] -0.2319560764 0.1596099199 5.903428e-01 1.744495e+00 -1.153522e+00
## [165,] -0.0142053662 -2.1173548667 4.810954e-01 3.446996e-01 1.035223e-01
## [166,] -0.9634296079 -0.8754081715 -1.379585e+00 2.095933e-01 -5.994623e-01
## [167,] -0.6077881848 0.0665949186 1.454524e+00 8.441754e-01 8.697240e-01
## [168,] -1.1154942704 -0.6545471552 -2.219079e-02 9.713569e-01 5.230366e-01
## [169,] 0.9640177985 -0.5098072738 1.083343e+00 -2.813801e-01 6.874610e-01
## [170,] 1.5314062315 -1.3339756171 -1.092737e-01 -1.784417e-01 5.294002e-01
## [171,] -0.0701539426 0.9062409525 4.288510e-01 -4.907523e-01 -1.588180e+00
## [172,] 0.4943498539 -0.7940034197 -3.818178e-01 -3.077418e-02 8.105132e-01
## [173,] -0.4771187027 1.5182820851 -9.323224e-01 1.889108e+00 3.862646e-03
## [174,] 0.3871460117 1.2295355034 -1.352545e+00 5.220972e-01 1.532806e+00
## [175,] -1.4557090477 2.2198681992 -1.465745e+00 -4.412664e-01 -4.911867e-01
## [176,] 0.4293078255 0.9690636677 -8.320598e-01 -1.573940e+00 4.789823e-01
## [177,] -0.9663601846 0.2599836104 -5.136843e-01 1.844119e+00 -9.345461e-01
## [178,] -0.7437890995 -0.3594711920 2.360356e-01 -1.229428e+00 -7.172963e-03
## [179,] -0.6429299133 1.3099213068 -4.352817e-01 -9.035239e-02 1.279919e+00
## [180,] 0.4056088106 -0.2539085409 8.011285e-01 7.645389e-01 9.832349e-02
## [181,] 0.7870100137 -0.0436092561 1.264591e+00 3.723775e-02 6.593974e-01
## [182,] 1.1358040634 -1.5780807229 -4.288754e-02 3.491530e-01 1.683218e+00
## [183,] 1.7165313000 0.7451833928 -1.209000e+00 -1.450072e+00 -2.257537e+00
## [184,] 1.4066877146 -0.4933167448 -6.704295e-01 1.663878e-01 -1.628409e-01
## [185,] 0.5532606254 -1.6721306537 1.180219e+00 2.222614e+00 -6.522044e-01
## [186,] -0.3654334934 0.1134642005 -1.207853e+00 -5.259464e-01 2.447064e-01
## [187,] 0.0605229160 0.0120429938 -6.600506e-01 6.419166e-01 -1.254556e-02
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## [189,] 1.5183817116 -0.7511439527 -6.781379e-01 1.648343e-02 -3.191196e-01
## [190,] 0.1013007505 -0.3310578887 1.384013e+00 -4.034234e-01 -8.011773e-02
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## [201,] -1.1425575894 0.8838340294 1.493599e+00 6.119039e-01 -1.115359e+00
## [202,] -0.2905200519 -1.9351041242 -1.172114e+00 5.373529e-02 -5.906905e-01
## [203,] 0.3095138230 0.0650217358 5.981751e-01 -2.062992e-01 1.025064e+00
## [204,] -0.2694465559 -0.4880897416 -1.343709e-01 5.471006e-01 -1.574119e+00
## [205,] 0.2472646942 1.2443944291 -1.323249e+00 2.249416e-01 -1.025929e+00
## [206,] 0.5431155981 -1.0025410575 5.106904e-01 -1.162629e-01 1.536376e+00
## [207,] 1.7472517284 -0.1246907534 -2.852224e-01 4.787095e-01 -5.360139e-01
## [208,] -0.3827193315 -1.3008429288 1.960909e+00 -9.595033e-01 -1.237079e+00
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## [210,] -1.7069051308 0.5511086353 -4.746474e-01 -8.717400e-01 -7.892368e-01
## [211,] -0.7746975341 0.4765561972 -2.052792e-01 1.732009e+00 -3.245580e-01
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## [213,] -2.5622317457 1.0405791356 2.945465e-01 -1.253223e+00 -6.621025e-01
## [214,] -0.5821605268 -0.5689143177 1.779579e+00 -5.884388e-01 8.000618e-01
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## [219,] 1.8569044532 0.4306578679 1.104970e+00 -9.486231e-01 -9.358535e-01
## [220,] 0.1372848714 0.1353961840 2.549716e-01 5.035055e-01 -6.748653e-01
## [221,] -0.6269940364 0.7433529762 2.879603e-01 1.392433e+00 -8.308701e-01
## [222,] 0.1965913475 -0.2659991001 -4.845029e-01 1.573387e+00 5.745131e-01
## [223,] 0.9231385182 -0.5438211793 9.619155e-01 6.498598e-01 -1.414737e-02
## [224,] 0.2801945072 1.3909290977 7.155731e-02 5.776045e-01 9.593224e-01
## [225,] 0.1516201026 -0.8947255651 4.926880e-01 1.162313e+00 1.263075e+00
## [226,] -1.2576995511 -1.0690218575 7.102621e-03 -1.320264e-01 -6.652595e-01
## [227,] -1.2663379898 0.8011292029 1.339527e+00 6.494378e-01 5.398531e-01
## [228,] 0.0744947420 -1.2958638114 -3.224279e-02 2.026332e-01 -2.894056e-03
## [229,] 0.1531129755 -0.0538977208 1.735130e+00 -1.381108e-01 3.672662e-01
## [230,] 1.5023559550 0.4302369709 -7.057903e-02 5.847179e-01 1.473628e+00
## [231,] 2.6663255078 -0.0414743954 8.308941e-01 -3.359874e-01 1.361920e-01
## [232,] -0.5328064732 1.4105161144 -1.862599e-01 -3.981463e-01 5.525557e-01
## [233,] 0.9771670379 0.5802842094 6.127285e-01 -4.792105e-01 5.875276e-01
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## [235,] -0.5325391735 -1.2658120319 5.078381e-03 1.051413e+00 2.488084e-01
## [236,] 0.2243194144 -0.3605980449 -3.377160e-01 -7.384000e-01 -3.562978e-01
## [237,] -0.9534364334 -1.7543704684 3.860083e-01 5.873436e-01 -1.200353e+00
## [238,] -0.5762103636 -0.2221877959 -8.098020e-01 -1.957987e-01 -7.096847e-01
## [239,] -0.3370068642 1.8466493211 9.069941e-01 6.296119e-01 -8.302262e-01
## [240,] 0.4822234513 -0.4835159968 -1.700146e+00 5.457958e-02 5.178345e-01
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## [244,] 1.0571084737 0.0441596046 -1.187627e+00 4.742340e-01 -1.033089e+00
## [245,] 0.6495504998 0.8114067103 -1.016231e+00 3.980287e-01 4.321497e-01
## [246,] -2.2792194429 1.2964179819 -8.436369e-01 5.372480e-01 -3.847443e-01
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## [248,] 1.7227899131 -0.1978251102 -4.286439e-01 -7.365695e-01 -1.025903e+00
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## [250,] 0.3630778594 1.1010921273 -2.581004e-01 4.444400e-01 2.059874e-01
## [251,] 0.8253821330 1.6088899252 1.625641e+00 -1.569265e+00 2.736835e-01
## [252,] 0.1594323370 0.5122219356 8.357055e-01 -8.092366e-01 4.935886e-01
## [253,] -0.0167191502 -2.3194784144 -1.148481e+00 -6.107058e-01 -6.706804e-01
## [254,] -1.0557005176 0.5722084985 -6.014437e-01 -2.764810e-02 9.275961e-01
## [255,] 0.0299574151 -0.8856584324 -1.840545e-01 1.708505e+00 6.514663e-01
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## [257,] 1.4343020937 0.3410242918 -3.553151e-01 -1.133034e-02 -1.367307e+00
## [258,] 0.7416595373 -0.0730543936 8.652111e-01 -2.000390e-01 2.791240e-01
## [259,] -0.6835244563 -0.0820096615 6.698070e-01 -7.924505e-01 -2.150838e-01
## [260,] 0.3149080255 1.0935973963 1.124756e+00 -2.280929e+00 -4.455360e-01
## [261,] 0.5869751166 -0.2475568819 -7.743752e-01 -2.008994e-01 -2.289049e-01
## [262,] 0.9594253586 -1.0472198426 -1.092971e+00 4.805179e-01 -1.904112e-01
## [263,] -2.0340428360 1.6245018412 -1.325501e+00 -4.463743e-01 4.399685e-01
## [264,] -0.5989537115 1.2149855836 7.799691e-01 -1.118317e+00 -4.839730e-01
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## [266,] -1.3439459547 1.4163471676 -1.717732e-01 5.467067e-01 -6.340955e-02
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## [269,] -0.9849282522 2.3327336116 1.033205e+00 -1.429395e+00 -3.498096e+00
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## [309,] -1.1254766272 0.1321943841 -1.911384e-01 7.895050e-01 1.627758e-01
## [310,] -0.8427658946 -0.5030311359 1.698036e-02 1.270330e+00 6.728041e-01
## [311,] 0.6850578330 0.2852943912 -1.496347e-01 4.884797e-01 1.714540e-01
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## [334,] 0.6008154929 1.6357492356 -7.672194e-01 1.402306e+00 -5.711710e-03
## [335,] -2.0330465812 -0.4363662573 -2.551883e-01 -2.562464e-03 1.618255e+00
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## [340,] 1.8195357934 -1.3943337557 -1.676876e+00 -7.296686e-01 5.968646e-01
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## [363,] 0.4983262201 1.3107122270 7.424757e-01 -1.707735e+00 -7.609543e-01
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## [375,] 0.9925271837 0.8581670020 7.070265e-01 -5.188166e-01 2.392876e-01
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## [382,] -0.4929942720 -1.2509720242 6.238645e-01 3.572953e-01 -1.315381e-01
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## [398,] 0.6687639330 -0.5970880202 1.491395e-01 -1.332897e+00 1.639260e-01
## [399,] -0.0647848411 1.4750106848 -6.287422e-01 -9.761561e-02 3.282173e+00
## [400,] -1.5659235216 0.6373689007 4.458847e-01 -1.516645e-01 1.091699e+00
## [401,] -0.6920513923 0.5864247653 -2.496576e-03 1.630710e+00 -1.078913e+00
## [402,] -1.3042449699 -1.1959085470 1.185799e-01 3.885133e-01 5.929688e-01
## [403,] 0.4612833866 -0.6951120598 -8.081359e-01 3.772398e-01 -9.896523e-01
## [404,] -2.3937370308 2.8343055782 6.067528e-01 -1.375633e+00 8.177425e-01

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## [405,]  0.3072730197 -0.6463545117 -6.128854e-01  7.299915e-01 -9.612651e-01
## [406,] -1.8220779411  1.2696845184 -4.596397e-01 -1.571666e-01  1.650087e+00
## [407,]  0.2493144464 -0.0934853292  8.517067e-01  7.875464e-01 -8.089814e-01
## [408,] -0.0299104463 -1.1065274763 -6.779871e-02 -1.442391e+00 -4.464378e-02
## [409,] -0.6406530940 -2.0764264302 -2.824039e-01 -3.949894e-01 -1.384786e-02
## [410,]  2.5998769518  0.6251424947 -5.234553e-01  1.732024e-01 -1.010461e+00
## [411,] -1.7907767460 -0.0485145791  4.660245e-01 -2.588792e-03  4.846692e-01
## [412,] -1.7196791418 -0.6034941447 -5.289326e-01 -1.561314e+00  6.179076e-01
## [413,]  1.5588447908  0.7754115237  1.518372e+00 -3.168605e-02 -2.047215e-01
## [414,] -0.2655093763  0.2340465083  2.700729e-01  1.179286e-01 -7.569786e-01
## [415,]  1.0029753572 -0.8611636188  4.549178e-01 -1.275788e-01  4.896141e-01
## [416,]  1.7986896068  0.2986111868 -6.122148e-01 -1.036896e+00  1.062188e+00
## [417,]  2.0215455055  0.2338742995  1.878044e+00 -6.115565e-01 -1.101223e+00
## [418,]  1.2937350771 -0.4032206791 -7.243859e-01 -8.644383e-01 -1.208453e+00
## [419,] -0.7543315105  1.3002640050  3.777657e-01 -1.973087e+00 -1.470404e+00
## [420,] -0.8494681406 -0.1036773455 -9.813004e-01  1.278122e+00  1.625745e-01
## [421,]  0.4174704624 -2.7890903445 -3.299920e-01  1.808541e-01 -5.269623e-01
## [422,]  0.4156594247  1.0322851348 -3.020178e-01  4.957955e-01  1.163184e+00
## [423,]  0.5401443566 -0.8211103159  4.552517e-01  6.298503e-01  1.042267e+00
## [424,]  0.7032370670  0.8635985885 -7.110491e-01 -3.675545e-01  1.484666e+00
## [425,] -2.0087674445 -0.2920944143 -2.373047e-01  2.212809e-02 -6.141814e-01
## [426,]  2.2553880831  0.6459009110 -2.237808e-01  3.272407e+00 -9.615068e-01
## [427,] -1.2650136589  0.7589341287 -8.873727e-01  4.123344e-01 -1.319643e+00
## [428,]  0.9038876956  0.1645679618  1.335301e+00  6.418382e-01 -1.006570e+00
## [429,] -1.3206239792 -0.3215180201  6.223732e-01  2.564023e-01  1.454946e+00
## [430,]  0.1232647585 -1.1982275412 -2.171410e-01 -1.104911e+00  5.219521e-01
## [431,] -0.2293253372  1.6939250694  8.837890e-01 -5.787742e-01  2.069859e+00
## [432,]  0.9663952011 -0.6008356430 -6.833815e-01 -2.589223e-01 -2.769567e-01
## [433,]  0.8767250168 -0.5645301415 -4.793578e-01 -2.497208e-01  1.340437e+00
## [434,]  0.0001866628  0.2645699925 -3.567327e-02 -1.549945e+00  5.828800e-01
## [435,]  1.1987782785  1.3188395548 -1.677625e+00 -1.779631e+00  2.020722e+00
## [436,]  0.5328283223 -1.1827007087  8.288411e-01  1.314869e+00 -3.320877e-01
## [437,]  0.8375973121 -0.3666631790 -3.831229e-01 -5.178525e-01 -1.505877e-02
## [438,] -0.3034835231 -0.6792394341  8.298726e-02  1.025153e+00 -1.150744e+00
## [439,] -0.0558118645  0.5579090099  8.683559e-01  1.765083e-01  1.339526e+00
## [440,] -2.9160449867  1.8638199833 -1.542804e+00  8.436056e-01  2.704704e-01
## [441,] -1.8554566269  0.0335356569 -5.712207e-01 -3.023190e-01 -8.011988e-01
## [442,] -0.6027432945 -1.4869895287  4.112982e-01  2.403322e-02 -2.745203e-01
## [443,]  2.1018634951 -0.2944950582 -8.365890e-01 -1.947190e-01 -7.950418e-01
## [444,] -0.0563509057 -1.1666704198 -7.742226e-01  2.002844e+00 -1.946160e-01
## [445,]  1.3788867036 -0.1904062924  9.872290e-01  6.861930e-01 -3.221880e-01
## [446,]  0.7318376887 -0.4003996239  9.116470e-01  1.351468e+00  5.180220e-01
## [447,]  1.5482542949  1.0359300182 -2.116445e-01  1.097886e+00 -5.808846e-01
## [448,] -0.6349391912 -0.5478228697  5.443211e-02 -4.576257e-01 -2.416807e-01
## [449,]  0.3293366575 -0.2688405686 -1.208999e+00  1.610207e+00  3.508897e-01
## [450,]  0.4297955464 -1.7862439070 -9.665241e-01 -8.800362e-02 -4.801519e-01
## [451,] -2.6830127325  0.6159825944 -1.996401e+00  1.602709e-01  5.732434e-02
## [452,] -0.1479889548  0.4051799217  1.174302e+00  3.039942e-01 -1.202096e+00
## [453,]  0.9436447153 -1.0215216741  1.436650e-01 -3.061770e+00 -1.642105e-01
## [454,]  1.1110578351 -0.4750665829 -4.086444e-01 -8.266709e-02  1.198410e+00
## [455,] -0.7384807842  0.6384494571  6.060301e-01  8.258516e-01  1.482056e-01
## [456,] -0.5193056066  0.5341157501  9.236197e-01  4.247117e-01  1.303836e+00
## [457,]  1.1473670369 -0.4731660862 -7.734559e-01 -1.108427e+00  6.805491e-01
## [458,] -0.4888899231  0.2506535516 -6.685780e-02 -3.644611e-01  6.757572e-01

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## [459,] -0.0620633401 0.2645751753 5.223546e-01 6.896384e-01 1.391747e+00
## [460,] -0.5382836589 -0.3338952555 1.329207e+00 8.824851e-02 2.891552e-01
## [461,] 0.7971252084 -0.4284670596 2.048057e-01 -4.681897e-01 3.981623e-02
## [462,] 0.4075318257 -0.1147550636 -7.036035e-01 -7.527886e-01 -2.565250e+00
## [463,] -0.8073363123 1.0248164695 -5.976125e-02 -3.859353e-01 5.401682e-01
## [464,] 0.3959449533 1.0005227337 1.781482e+00 -7.125236e-01 -1.013100e+00
## [465,] 1.3847442326 1.9327939664 7.467281e-01 5.004867e-02 -6.121250e-01
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## [467,] -2.1849362739 1.2279037767 -1.925207e+00 7.202877e-01 6.319712e-01
## [468,] -1.3898236619 -1.0139082813 1.181448e-02 -7.210631e-01 -1.470281e+00
## [469,] -0.9536845445 -1.3591847259 2.488136e-01 -2.072608e-01 -1.091173e+00
## [470,] -0.0003453779 0.0635471503 3.612282e-01 1.117174e+00 -3.627943e-01
## [471,] 0.6035082487 -0.3501806640 1.141664e+00 -2.365153e-01 -2.968733e-01
## [472,] -0.3526612458 0.2297037192 -4.410470e-01 -1.357174e+00 -2.278817e+00
## [473,] 0.0491366573 1.1429950438 -1.172577e+00 -3.495476e-01 -9.220079e-01
## [474,] 0.7717567457 0.0190636442 -2.060900e+00 -3.121629e+00 9.331386e-02
## [475,] -1.4572298207 0.7352008837 -7.919036e-01 1.933194e+00 1.452391e-01
## [476,] -0.0668324576 -2.2524541829 2.099921e-01 -1.432118e+00 2.416797e-01
## [477,] 1.5918727494 0.6988128814 -4.453426e-01 -2.149992e+00 -8.314662e-01
## [478,] -0.7057829900 -0.3933391769 1.493674e+00 -1.151302e+00 5.366302e-01
## [479,] 0.4820203684 2.1098696654 6.376936e-01 -1.591648e+00 -4.889272e-01
## [480,] 1.1839093032 -0.3361572219 8.671286e-02 1.913856e-01 8.752975e-01
## [481,] 0.4540121333 1.3315493737 -4.055206e-01 -3.496959e-01 2.476530e-01
## [482,] 2.3026087044 -0.2812292763 1.048440e-01 -1.333075e-01 -7.015040e-02
## [483,] -1.3633944949 0.1838745949 -1.922767e+00 -1.923318e+00 3.369323e-01
## [484,] 1.3760435441 1.1652049030 -6.837626e-01 -1.834041e+00 -3.108370e-01
## [485,] 1.1872274557 1.8840336155 -1.323735e+00 8.160986e-01 -5.437715e-01
## [486,] 0.6432255471 0.1003508811 4.847896e-01 1.555208e+00 -5.626232e-01
## [487,] 0.2387525240 1.5600259456 -1.182428e+00 1.865618e-01 -5.284286e-01
## [488,] -0.9200913888 -0.5355352439 -1.071029e-01 1.112120e+00 1.043969e-01
## [489,] -1.0304556663 -0.1469702404 -6.152334e-01 1.339529e-01 6.668716e-02
## [490,] -1.1298289349 0.3313122490 6.678379e-01 1.378088e+00 -5.624902e-01
## [491,] 1.2928341584 -0.7904738258 9.320759e-01 -1.056869e-01 -1.509178e+00
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## [493,] -0.9505966369 0.7690961884 -4.370873e-01 4.095337e-01 -6.398882e-01
## [494,] 1.1047469466 1.2595982532 -1.554602e+00 1.419703e+00 1.430373e+00
## [495,] 0.2705153185 -2.1902061567 1.157148e+00 2.509408e-01 -9.723840e-01
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## [497,] 1.0916662786 0.0086402390 -3.623959e-02 3.167152e-01 1.229147e+00
## [498,] 1.1952821092 -0.9254808455 -7.386626e-01 -3.012197e-01 -9.330654e-01
## [499,] 0.1081225777 -2.0965594261 -6.816874e-01 -6.523383e-01 5.619457e-02
## [500,] 1.0927477576 -0.01111196041 5.082074e-01 2.404827e-02 2.024149e+00
## [501,] -0.1316489093 0.7277746873 6.257634e-01 1.973757e-01 2.299895e+00
## [502,] 0.9024060030 -1.1313628937 -1.302039e+00 2.835279e-02 -6.422873e-01
## [503,] 1.6020236225 -0.6314185162 2.002734e-02 -1.466937e+00 3.093555e-01
## [504,] 0.1067645399 -0.0357264250 1.229971e-01 -1.650613e+00 -5.658235e-01
## [505,] 2.9754802996 1.4251010967 1.619798e+00 -4.144480e-01 -2.421203e+00
## [506,] -0.2840142828 -1.6238401841 -5.213665e-01 -9.972697e-01 5.547987e-01
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## [508,] -0.1716367163 2.0681509818 4.108337e-01 2.111876e+00 1.259496e+00
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## [511,] 0.3558246364 -1.3446097038 9.888012e-03 6.543222e-01 3.472950e-01
## [512,] -0.2321797207 -0.0422129759 5.706185e-01 1.678028e+00 -1.438896e+00

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## [513,] -1.1260695329 -0.5527617376 -1.625964e+00 -4.618955e-03 2.501225e-01
## [514,] -0.4667268074 -0.9264288789 -1.054255e+00 1.577911e+00 -4.782690e-01
## [515,] -0.9875703215 0.2173881433 5.628891e-01 -1.110183e+00 4.992874e-01
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## [517,] -0.1651098906 0.3529491222 -1.590853e+00 3.748356e-01 7.690745e-01
## [518,] -0.3005580938 0.4457062177 1.100935e+00 -7.899064e-01 -1.478902e+00
## [519,] 1.2954414918 -1.2906366181 -9.772374e-01 -1.902268e-01 -2.029294e-01
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## [521,] -1.4666250131 1.4162166444 1.590703e+00 -3.430539e-01 1.669310e+00
## [522,] -2.5587927528 -0.3238943714 -1.412439e+00 -1.100466e+00 -1.239484e+00
## [523,] -0.6689676434 -0.5611454805 7.847060e-01 -1.199367e-01 -1.335497e+00
## [524,] 0.2443224640 -1.7982163765 -9.906035e-01 -4.908676e-01 6.849495e-01
## [525,] 0.3659276467 -0.1593076086 3.424930e-01 8.530503e-01 -1.089312e+00
## [526,] 0.7803373705 2.0610642242 -1.106903e+00 5.113968e-01 1.630764e-01
## [527,] -0.2235617043 -2.8538905720 2.566283e-01 8.950014e-01 1.827755e-01
## [528,] -1.4027133655 0.9768627825 -2.928270e-01 -1.000879e+00 5.093232e-01
## [529,] -0.5851164509 -0.4450838073 -1.006362e+00 4.426125e-01 -8.507094e-01
## [530,] 1.8167628314 -1.1603047970 9.310833e-02 1.461941e+00 1.474549e-01
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## [535,] -1.2127031607 1.1874391993 -2.777138e+00 1.535563e-01 -2.321108e+00
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## [548,] -0.8422583690 1.0186151079 -4.539035e-01 -1.308247e+00 9.602643e-01
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## [550,] -0.8807294878 1.1242017643 -4.617603e-01 1.753463e+00 -5.750746e-01
## [551,] -0.0891979888 1.2953296233 -2.379120e+00 -1.136916e+00 1.230358e-02
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## [556,] 0.0506398549 -0.0073073744 -8.015086e-01 1.147891e+00 4.812266e-01
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## [567,] -0.4620595165 1.8450070895 -7.799553e-01 1.367519e+00 1.910439e-01
## [568,] 0.8000927022 0.3901759466 9.224256e-02 1.160638e+00 1.219663e-01
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## [570,] -0.4976183518 0.1018127286 -8.029638e-01 1.346671e-01 -1.252677e+00
## [571,] 1.4355715783 0.3354588278 -1.160681e+00 -2.415872e-01 9.962410e-01
## [572,] 0.3110777322 -0.9226911038 1.098861e+00 4.211806e-01 -1.265710e+00
## [573,] 0.8535909336 1.4766936485 -4.510704e-01 6.600050e-01 9.982081e-02
## [574,] -1.4630902747 0.2231038782 3.556247e-01 1.118598e+00 -3.782922e-01
## [575,] -1.2069075157 2.3329846367 2.703591e-01 4.151515e-01 7.172492e-01
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## [577,] 0.4967488014 -0.7691160081 6.898295e-01 -5.179554e-01 -7.275511e-01
## [578,] -0.2277488518 -1.4880165371 -1.247561e+00 -4.650303e-01 3.535382e-01
## [579,] 1.2003044673 -0.4270396231 -1.229089e+00 -1.421723e+00 1.177424e+00
## [580,] 0.3079420348 0.9545416519 -1.317978e+00 -1.900070e-01 -6.070667e-01
## [581,] -0.7722152366 0.4824494456 1.548845e+00 2.783083e-01 -4.007411e-01
## [582,] -0.1622656437 0.3341806360 2.044288e-01 7.174271e-01 -1.644055e+00
## [583,] 1.7329425889 0.5841789493 -3.706480e-02 -2.038434e+00 -1.286211e+00
## [584,] -0.4252387906 -0.0084128385 9.465925e-02 1.329827e+00 -1.057548e+00
## [585,] -0.8178153095 0.2796903010 -7.871343e-01 6.829671e-01 -1.083837e+00
## [586,] 0.8314087396 -0.1512889634 -1.602719e+00 5.647660e-01 -2.172476e-01
## [587,] -0.3123221700 0.2729291772 -4.427366e-01 -5.366236e-01 3.030941e-01
## [588,] -0.1084201419 -0.7991646229 1.226699e+00 -7.503080e-01 8.622629e-01
## [589,] 1.3419042945 -0.6355861375 -1.521196e+00 -1.018879e+00 3.396103e-01
## [590,] 2.3769081769 -1.0507501624 -2.238993e-01 -1.184722e+00 1.980066e+00
## [591,] 0.2491505455 1.6969085322 -3.877710e-02 -8.507003e-01 -1.027073e+00
## [592,] 0.0459730229 0.5817408590 1.385350e+00 -1.308217e-01 3.375941e-01
## [593,] 0.7470131805 0.2840864875 6.918514e-02 -8.746090e-01 -1.176952e+00
## [594,] 0.3434067005 0.9217917610 -2.214685e-01 -7.536987e-01 1.063300e+00
## [595,] -0.5741693833 0.8978656238 -4.568702e-01 1.199780e+00 -6.986858e-01
## [596,] 2.6411528525 0.4601638136 2.342763e+00 -2.254275e+00 -1.314318e+00
## [597,] -0.4354039000 0.0149548084 -9.239084e-01 4.618119e-01 2.201992e-02
## [598,] 2.8974694868 -0.1921741455 8.601584e-01 4.701532e-01 5.508753e-02
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## [601,] 0.4988144640 -0.8863433433 3.414927e-01 9.967518e-02 -2.940210e-01
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## [604,] -0.2485294914 2.6369503321 9.551617e-01 -1.145368e+00 1.836175e-01
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## [621,] -1.4420719631 -2.7296770342 -9.932307e-02 1.350321e+00 4.330260e-01
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## [630,] -1.2132601474 -1.2227221078 -3.626716e-01 -4.048305e-01 8.219010e-01
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## [675,] 1.4765331550 -0.0056109862 -8.032152e-01 4.179710e-01 9.981174e-01
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## [687,] 1.8031804824 1.1489389666 1.006815e+00 -8.358614e-01 -9.534273e-01
## [688,] -0.9015699052 1.3815868066 1.443486e-01 -4.759602e-02 7.323813e-01
## [689,] -1.2728475431 0.3899629558 -4.065346e-01 9.228771e-01 -5.191779e-01
## [690,] -1.5784615350 -1.0481773507 -1.331216e+00 -3.174719e-01 6.953532e-01
## [691,] -0.1438913353 -0.4048576421 9.042503e-01 1.435852e+00 -1.085536e+00
## [692,] 0.2526740779 -2.5625750976 4.602817e-01 -4.004297e-02 2.496624e-01
## [693,] 0.0601313627 -1.1966986544 1.481016e-01 -3.554783e-01 -5.530731e-01
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## [696,] -0.2882267230 -1.0103835254 5.015499e-01 -6.302984e-01 6.517539e-01
## [697,] 0.6586296529 -1.2916890878 -1.658536e+00 9.036694e-01 -1.686926e-01
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## [705,] 0.5066161106 -0.0941851399 2.499261e-01 -5.244595e-01 9.405844e-02
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## [708,] -1.0445126185 0.7086070421 1.970060e-01 -4.035898e-01 2.850934e-04
## [709,] 1.0089093738 0.8313250763 2.686990e+00 -1.125526e+00 -8.887546e-02
## [710,] 0.2072872193 1.5161750598 1.428925e+00 6.449587e-01 1.069535e+00
## [711,] 2.0787042910 -0.8397775945 -1.068572e+00 -5.370397e-01 7.476744e-01
## [712,] 0.7297933316 -1.4048485531 -8.039501e-01 -2.842883e-01 -1.902441e-01
## [713,] -0.6290267198 -0.1089341231 -2.683272e+00 3.908155e-01 -8.540075e-01
## [714,] 0.6263568420 -0.2019736060 1.752235e+00 -3.125317e-01 1.552100e+00
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## [717,] -0.7170602242 -0.2522839775 2.491860e-01 2.655035e-01 1.175360e+00
## [718,] -0.4086825266 0.7106189263 -1.866780e+00 -5.883777e-01 -4.934747e-01
## [719,] 0.2399886042 0.0871827527 2.535671e-02 3.321922e-01 -6.885095e-02
## [720,] -0.1133857290 -0.4678147749 -8.506209e-01 -1.642892e+00 4.382846e-01
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## [729,] -0.8318785954 0.7665877784 -1.545306e+00 2.077803e+00 -8.089444e-01
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## [755,] 0.1091268004 -0.4271700355 -3.142184e-01 -4.476556e-02 -5.908719e-01
## [756,] -1.7931333485 0.1985581699 -2.799965e-01 5.718679e-01 3.246423e-01
## [757,] 0.3651064151 1.6195515402 1.634994e-01 7.275750e-01 1.546063e-01
## [758,] -0.7301178545 0.3613264968 -1.229317e-01 1.251266e+00 2.607062e-01
## [759,] 1.1989135656 -0.4502186991 -4.094674e-01 -9.414469e-01 6.322897e-01
## [760,] 0.1560760250 0.4199023020 9.744999e-01 7.364592e-01 1.061222e+00
## [761,] 0.4587924768 0.0025941913 -2.642370e+00 -9.162361e-01 3.196891e-01
## [762,] 0.1440242277 0.2287808526 4.985127e-01 1.107181e+00 -8.961475e-01
## [763,] 0.3741701410 -1.5535137478 1.043828e+00 5.993178e-01 -2.252537e-01
## [764,] 0.5898463137 0.0659725238 -1.127548e-01 1.184577e+00 -6.568849e-01
## [765,] 1.0616003498 -0.0173524626 3.279202e-01 6.079180e-01 1.340557e+00
## [766,] 1.1246764828 0.6353433493 9.956533e-01 -4.900345e-01 -4.146260e-01
## [767,] 0.1324462099 0.1156128713 -1.474184e+00 -2.469886e+00 -1.015834e+00
## [768,] -1.0303634334 1.0144505758 4.238313e-01 1.760969e+00 -3.638188e-01
## [769,] 0.7245369015 -1.4983711308 6.985315e-01 -3.350031e+00 1.141462e+00
## [770,] -0.5179688202 -0.0365101402 -5.892464e-02 -1.202508e-01 -2.356685e-01
## [771,] -0.1980481663 1.0509168703 6.790751e-01 1.416968e+00 -1.095694e+00
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## [773,] -0.0849088969 2.3515863124 4.576582e-01 -1.231714e+00 -1.497766e+00
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## [775,] -0.6376297224 -0.7062497293 7.054792e-01 -1.827037e-03 7.841877e-01
## [776,] 0.8164321929 0.6173680628 1.130152e-02 7.647661e-01 -1.533307e-01
## [777,] 0.8092279149 1.9429466442 -8.884270e-01 3.983274e-02 1.139594e+00
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## [782,] 1.0022126376 0.4154084572 7.039093e-01 5.673472e-02 7.708162e-01

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## [784,] -0.0656062226 -0.7373120181 8.526309e-02 -7.208998e-01 -1.176993e+00
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## [786,] 1.8750739408 2.2438427289 -1.033062e+00 -8.465310e-01 -9.159939e-01
## [787,] 0.3611229751 -1.5500016406 2.454958e+00 -2.216414e-01 -1.573698e+00
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## [792,] 0.1027885894 -0.5807392438 9.610533e-01 3.743835e-01 -9.297706e-01
## [793,] -1.4739722166 2.5407460685 -6.426603e-01 1.327614e+00 5.771388e-01
## [794,] -0.2265453470 -0.4155425851 1.023212e+00 -1.450102e-01 -2.327750e+00
## [795,] -0.9723476441 1.0355923504 -6.393807e-01 2.061476e+00 -5.291558e-02
## [796,] 1.21115101447 -1.2736005351 6.971018e-01 1.201185e+00 -2.430727e-01
## [797,] 0.7890579816 0.7719038725 -2.969558e-01 2.192053e-01 4.712181e-01
## [798,] -0.2920518581 -0.3797268221 -1.084556e+00 7.218985e-01 -3.951481e-01
## [799,] -0.3273917405 -0.7218776385 5.039458e-01 1.009398e+00 1.801894e+00
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## [801,] -2.1201382977 0.0486442034 -3.733209e-01 1.115966e+00 -7.026670e-01
## [802,] -0.2873751905 -0.8699699954 2.718181e-01 -1.451904e+00 7.158887e-01
## [803,] 0.0567545707 -1.5503369047 1.938830e-01 4.672622e-01 -8.710083e-01
## [804,] -0.0280369208 1.3789030226 4.607577e-01 -5.254453e-01 1.386110e-01
## [805,] 0.5267146415 -0.4389943117 1.283690e-02 1.612435e-01 -4.758709e-02
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## [807,] -0.1403425522 -0.1526617618 -1.473462e+00 4.522261e-01 3.115620e-01
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## [810,] 1.0415640922 -0.8546895301 1.718987e+00 -5.131642e-02 5.056974e-01
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## [813,] 2.1497319700 1.2102241832 -2.682650e-01 1.498615e+00 8.901128e-01
## [814,] -0.3866974277 0.2183056474 8.913597e-01 -1.027753e-01 1.214411e+00
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## [837,] -1.7791981229 -0.8443065422 -7.835042e-01 1.104722e-01 -7.912294e-01
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## [844,] 0.2373049304 -0.3383692019 9.623328e-02 -1.623645e-01 -2.094981e+00
## [845,] -0.2275697540 0.0408320937 4.285972e-01 9.687564e-01 -1.189026e+00
## [846,] 1.1258649254 1.8152435029 -3.010867e-01 6.792045e-01 2.189230e-01
## [847,] -0.8698478212 -2.2434078442 1.113091e+00 8.080892e-01 2.190262e-01
## [848,] 1.4690032193 1.4885694743 -6.190756e-01 -3.039292e-01 -1.368760e+00
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## [853,] -1.5490823456 -2.2326862188 7.157231e-01 -4.057044e-01 -8.976226e-04
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## [858,] -1.5550504273 -0.6982777856 -1.016077e-01 1.743920e-01 -1.147710e+00
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## [860,] -3.1117203254 0.1793005661 9.962328e-01 5.582254e-01 -5.489674e-01
## [861,] 0.7180612887 2.0466981481 2.255464e-01 -5.331627e-01 8.857896e-01
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## [867,] 0.0341400615 0.7972512078 4.473058e-01 2.462202e-01 -1.748165e-01
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## [869,] 0.3691304022 -0.2576232704 -7.854014e-01 -1.716316e+00 -2.090565e+00
## [870,] 0.2471368071 -1.1933914405 -5.490610e-01 8.583444e-01 5.727427e-01
## [871,] -0.2166401595 -0.8272885780 3.596447e-01 1.191564e+00 1.671190e+00
## [872,] 1.5386443753 -1.3010869916 -1.092397e+00 -1.779101e+00 1.018030e+00
## [873,] 1.1492149990 -2.2437882302 5.486855e-01 5.917352e-01 -2.098880e-01
## [874,] -0.6504156740 -0.1845883442 1.902503e+00 -1.226362e+00 -1.081827e-01
## [875,] 0.2409612282 -1.6101185229 3.962826e-01 1.268600e+00 1.463835e+00
## [876,] -1.5916939220 0.1493707915 -5.027038e-01 5.031299e-01 -1.133303e+00
## [877,] -0.2342594246 1.2313774286 9.023408e-01 2.588316e-01 1.733053e+00
## [878,] 1.1061835724 -0.0094916561 6.063163e-01 1.386587e+00 -4.707835e-01
## [879,] -1.1997415532 0.0608702188 2.524514e+00 -1.507185e+00 -3.533848e-02
## [880,] -0.9880106830 0.2381602817 -1.709865e+00 2.895448e-01 -5.763577e-02
## [881,] -1.1834844487 -0.3527242863 -3.052124e-01 1.525861e-01 4.629512e-01
## [882,] -1.9672426253 1.1089004216 -6.816425e-01 3.968037e-01 1.225487e-01
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## [885,] 0.8098928006 0.4287657357 9.430366e-01 5.318561e-01 2.326632e+00
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## [891,] -0.8452299023 1.0994826013 2.347135e-01 9.345491e-01 4.982892e-02
## [892,] 0.5854067567 0.9187842016 1.221300e+00 -4.514825e-01 1.076969e+00
## [893,] -0.0866578702 0.4729303306 -1.665004e+00 -4.790177e-01 8.446244e-01
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## [895,] -0.5621322206 0.3876494027 6.395249e-01 2.741842e-01 9.427116e-01
## [896,] -0.3857080826 -0.4317951173 1.341072e+00 7.194582e-01 -9.939605e-01
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## [902,] 2.1716296662 -0.9423096936 -5.815825e-01 1.458673e+00 5.788515e-01
## [903,] -0.5378820511 0.2025934390 6.944321e-01 -1.666754e-01 8.152144e-01
## [904,] 0.3401524160 0.0358603340 -8.113832e-01 -3.203801e-01 -4.140258e-02
## [905,] -0.1797885932 1.1524410347 -1.090685e+00 6.641183e-01 -1.145394e+00
## [906,] -0.4499286009 1.2553301602 1.022929e+00 -8.632822e-01 1.031934e+00
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## [912,] 0.5066267280 -0.2743224080 1.090598e+00 1.288642e-01 -5.130772e-02
## [913,] -0.1922521672 0.2062964684 -1.524323e-01 -1.016807e-01 9.376438e-02
## [914,] 0.8037845761 -0.2838561392 -6.059497e-01 1.655902e+00 7.689688e-01
## [915,] 1.3520978974 0.9408348807 -2.467090e-01 1.577133e+00 -3.243925e-01
## [916,] 0.7390992979 -1.5123870254 -1.526637e+00 -1.127769e+00 4.875484e-02
## [917,] -0.4537341760 -0.3000054668 -2.637204e-01 1.199140e+00 -3.235720e-02
## [918,] -0.2533785955 1.1598675795 1.051187e+00 -1.177135e+00 1.041813e-01
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## [921,] -0.5184705581 0.9755304069 1.378607e+00 -8.603968e-01 3.471695e-01
## [922,] -0.6154479710 2.3454641681 6.087838e-01 1.001943e+00 -6.044845e-01
## [923,] 0.1778479338 -0.6517322175 9.342772e-01 5.193482e-01 1.053070e+00
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## [927,] -0.96299929979 -1.1004377682 1.569077e+00 2.585262e-01 -9.409138e-01
## [928,] 0.0393805521 -0.2877533144 1.244460e+00 -9.132916e-01 -1.259344e+00
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## [932,] -1.1921560399 0.8777005086 1.254578e+00 -5.631697e-01 2.859396e-01
## [933,] 0.6154560206 -0.6604076269 5.820031e-01 6.484447e-01 1.759772e+00
## [934,] -0.1590307760 -0.7460063978 9.651193e-01 -6.006399e-01 4.509464e-02
## [935,] 0.2370405248 0.3053943837 6.610558e-02 -1.501804e+00 -8.400312e-02
## [936,] -0.4875906612 -0.4606811559 -1.629999e-01 2.444723e-01 -4.450752e-01
## [937,] 0.2125076412 1.0416596077 1.071041e+00 5.888027e-01 6.393042e-01
## [938,] 0.1858058600 0.3803406406 -8.413714e-01 -5.467743e-01 -2.566097e-01
## [939,] 0.3630942428 -1.0187665876 -4.604396e-01 1.089763e+00 1.423690e-02
## [940,] -1.2251870471 -1.6643769300 1.379141e+00 -3.883985e-01 -6.817284e-01
## [941,] -0.1928687604 -1.2839454222 2.685443e+00 -4.233801e-01 2.278552e-01
## [942,] 1.6449261131 -1.8589212545 -5.257063e-01 -4.566322e-01 1.290916e-01
## [943,] 0.9164641217 0.2960694550 -1.204109e+00 1.310619e+00 1.600860e-01
## [944,] -0.5310097410 0.5406499975 7.821137e-03 -6.732930e-01 6.331793e-01

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## [945,] 0.0934509093 -2.8272372136 1.390932e+00 -1.546520e-01 -5.059681e-01
## [946,] -0.1420314069 -1.2072022829 -9.566221e-02 9.623927e-02 7.961925e-01
## [947,] 0.2234831282 0.9785701202 -3.808320e-01 2.079688e-01 -3.856889e-01
## [948,] 1.1005968250 -0.2784075802 3.851010e-02 4.254111e-01 7.237451e-01
## [949,] 0.4420678177 0.5720313808 3.303144e-01 -2.664125e-01 -5.357949e-01
## [950,] -0.3347880143 0.4643724807 7.310975e-01 -6.554296e-01 6.067016e-01
## [951,] -1.1290795969 0.1444723377 -3.501905e-01 9.052774e-01 9.274660e-01
## [952,] 0.6703451511 -1.0678670525 3.651288e-03 1.666818e+00 1.578051e+00
## [953,] 0.6364631341 1.7635800967 3.037046e-02 -6.125790e-01 1.585787e-01
## [954,] -0.3232273456 -1.9162029367 -8.394008e-01 1.676130e-01 -9.558622e-02
## [955,] 0.1207152818 -0.1725247358 -6.255498e-01 -1.980045e+00 1.763534e-01
## [956,] 0.4433548378 -1.4133658808 -1.232442e+00 -4.049041e-02 -2.176110e-01
## [957,] -0.7963915501 -0.1831318789 7.551642e-01 3.085287e-01 6.043408e-01
## [958,] 0.2505601257 -0.6550377899 -9.340526e-01 9.519300e-01 -6.913396e-01
## [959,] -1.1072292723 2.4998710327 2.126043e+00 -7.374409e-01 -8.353092e-01
## [960,] 1.5329806037 -0.7051296479 4.210208e-01 1.244666e-01 -1.541070e-02
## [961,] -0.1147547517 -1.9044745571 4.906252e-01 5.203887e-01 -4.384219e-01
## [962,] 0.4609861242 0.5228066224 5.576102e-01 9.361566e-01 1.324915e+00
## [963,] 1.3298899338 -0.4567209597 9.480924e-01 6.120692e-01 1.045798e+00
## [964,] 0.5933056097 -0.4184376660 -2.090719e-01 -1.342357e-01 2.012098e+00
## [965,] -0.1132118559 1.0361906595 -6.850341e-01 1.620439e-01 -7.330485e-02
## [966,] -0.7379241917 0.0815133194 1.287204e+00 -1.992813e+00 1.188935e-01
## [967,] -1.1603595345 -1.0631460114 -1.434524e+00 -8.029226e-01 -2.239169e+00
## [968,] -1.4534306828 -1.0683427970 9.087550e-03 -4.382209e-01 2.894197e-01
## [969,] -1.0452506450 -0.8547626301 -5.204960e-01 -1.230948e+00 3.670816e-01
## [970,] -0.7047246259 -0.9115681685 1.671831e+00 -5.127722e-01 -9.669070e-01
## [971,] -0.7133565017 1.8108357162 1.307119e+00 -4.937462e-01 3.094978e-01
## [972,] 1.7069103653 -0.0956969723 -5.955272e-01 5.940342e-01 -2.497919e-01
## [973,] 0.4031627235 -0.0524998811 -1.485062e+00 6.651863e-01 -1.194414e+00
## [974,] -0.2622127874 0.9526941236 -2.228567e-01 3.155989e-01 4.166523e-01
## [975,] -1.5697242574 -0.4189522025 3.171393e-01 -5.104883e-01 1.729640e+00
## [976,] -1.2607552842 0.5218435139 3.661339e-01 -3.105557e-01 -3.400248e-01
## [977,] -0.9853782866 0.5083855729 8.246595e-01 -1.202262e+00 1.297376e+00
## [978,] 0.2510005799 0.4759494501 6.419893e-02 -1.052653e+00 -4.526493e-01
## [979,] -0.9608463899 0.7250481097 9.657161e-01 9.194202e-01 -4.702076e-02
## [980,] 0.0221659268 -0.9975303879 9.287939e-01 1.342126e+00 8.937977e-01
## [981,] -0.8315686364 -0.0370029449 2.713924e+00 5.577220e-01 -1.461021e-01
## [982,] -0.2625646169 -0.1358959008 5.866441e-01 1.281067e+00 2.178253e+00
## [983,] -0.0189987955 -0.8088029311 3.362564e-01 6.530062e-01 4.476634e-01
## [984,] 0.4618459156 -0.6306859093 1.346731e+00 6.070374e-01 -1.973651e-01
## [985,] -1.2337477901 -1.4816043027 1.013274e+00 -1.107517e+00 2.451126e-01
## [986,] -0.6580978899 -1.8132818290 6.553494e-01 9.651381e-02 -1.404531e+00
## [987,] -1.1269082184 0.2843883815 6.041348e-01 -5.040117e-01 9.733470e-01
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## [989,] -2.0729840937 -0.2603698926 1.842958e+00 -2.488414e-02 -4.560071e-01
## [990,] -0.1598063838 -0.3317696773 2.296916e-01 2.347232e+00 7.186695e-01
## [991,] -1.0181992285 -1.2093035274 -1.712246e-01 1.653760e+00 -1.657835e+00
## [992,] 0.2068740581 0.4524510887 1.123300e+00 1.326658e-01 5.736807e-02
## [993,] -0.4981019427 -0.5487598468 -6.276626e-01 1.260501e+00 -8.191588e-02
## [994,] 0.5817305397 1.0413040087 3.069999e-01 -1.156516e+00 -8.078403e-02
## [995,] 1.3538374621 -0.1546189297 1.687131e+00 3.219652e-03 -6.254637e-02
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## [997,] -0.1239655742 0.1046668286 -7.134085e-01 -1.372067e+00 1.276624e-01
## [998,] 2.0098419133 -1.1014303955 -1.204079e+00 -3.920840e-01 -9.617679e-01

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## [999,] 0.5405824868 0.1278559621 4.858555e-01 8.579453e-01 -9.457910e-02
## [1000,] 1.2861952359 0.5926389389 1.754672e+00 -1.143576e+00 7.724137e-01
## [1001,] -1.3597556056 -0.2533178211 -3.618537e-01 -7.097854e-01 7.917365e-01
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## [1003,] -0.7256646518 0.3748602903 1.459429e+00 1.351259e-01 8.328965e-01
## [1004,] -0.3461939545 -0.5930993001 -8.916105e-01 4.455083e-01 6.260585e-01
## [1005,] 0.0341920811 -0.2913849904 -1.184389e+00 7.934146e-01 3.683198e-01
## [1006,] 0.2420514149 -0.1502424495 8.078737e-01 4.733575e-01 -1.913962e+00
## [1007,] 0.0423316704 -1.1414144925 1.474150e+00 2.040259e-01 -1.224144e+00
## [1008,] 0.3121545766 -0.9225259943 1.245919e+00 -1.029611e+00 -1.411135e-01
## [1009,] 1.6968534136 0.0165145680 -6.104879e-01 5.684892e-01 -9.735021e-02
## [1010,] -1.0491468332 -0.3663814754 6.441752e-01 -9.665609e-01 -3.745015e-01
## [1011,] 0.3976009954 -1.0398941663 -1.068130e+00 4.590374e-01 -1.333296e+00
## [1012,] 1.7313146819 1.1590538290 2.472733e+00 -4.916358e-01 -1.073027e+00
## [1013,] 0.4140135483 -0.2299340731 5.441127e-01 6.841502e-01 9.851453e-01
## [1014,] 0.7862039130 -0.0739948742 -1.182541e+00 5.043143e-01 -1.389197e+00
## [1015,] 0.9865298861 2.0965249841 6.120159e-01 -1.989065e+00 -8.268944e-01
## [1016,] -0.1517552763 -0.1486828290 7.435722e-01 1.149199e+00 -6.855525e-01
## [1017,] 1.7012813751 -0.3307108960 -6.515924e-01 -1.502281e+00 1.865614e+00
## [1018,] 0.8562844685 -1.0519981494 -4.094718e-01 9.938819e-01 -2.641064e+00
## [1019,] -0.8648767731 -0.7252658015 -2.443153e-01 -4.093917e-01 4.706719e-03
## [1020,] 1.0614027139 -0.5937378725 -1.937724e+00 4.820239e-01 -7.050076e-01
## [1021,] -0.6869780210 -0.6093585114 -1.289038e+00 1.120612e+00 1.382578e+00
## [1022,] 1.5755506876 -0.4461873953 8.057972e-01 -7.470633e-01 6.403144e-01
## [1023,] -0.6884339346 0.4993016916 7.372946e-01 -1.063096e+00 -2.612259e-01
## [1024,] -0.0547970741 0.4995127562 7.545721e-02 -2.609671e-01 9.371911e-01
## [1025,] 0.1799053293 -1.5566211915 -5.441242e-01 3.247668e-01 1.543897e-01
## [1026,] 1.6594437065 0.3884108816 4.584234e-01 -8.011387e-02 8.157843e-01
## [1027,] -0.3166214840 0.5541283849 3.949144e-01 1.149582e+00 9.727219e-02
## [1028,] -0.4893435277 -0.7701396965 3.121253e-01 8.367408e-01 1.721885e+00
## [1029,] -0.8269064795 0.8252820143 -1.123792e+00 3.964504e-01 -6.394707e-01
## [1030,] -0.5769781637 0.4275228670 1.436001e+00 -5.736372e-01 -6.389846e-01
## [1031,] 0.9865280620 -1.1412244287 -1.152292e-01 5.833338e-01 2.583881e-01
## [1032,] 0.9743026882 -1.1589323127 -1.562010e-01 1.048857e+00 8.379276e-01
## [1033,] -0.3550258351 0.5140064845 2.699263e-01 -1.276216e+00 1.385972e-01
## [1034,] -0.9398495063 1.1721678179 -1.846746e+00 1.381924e+00 -2.715167e-01
## [1035,] 1.2601919639 0.7535336142 2.233433e+00 7.623333e-01 3.571695e-01
## [1036,] 1.1546702325 -0.1046720857 5.563155e-01 1.450160e-01 1.934564e+00
## [1037,] 0.3686261901 1.0988085745 -4.639300e-01 -1.515338e-01 3.494108e-01
## [1038,] 2.2480704511 0.7649602493 1.475957e-01 1.111636e+00 1.020055e-01
## [1039,] -1.7099157698 -0.1814390944 -1.985322e+00 -1.494622e+00 -1.113431e+00
## [1040,] 0.7375805001 -1.1518466768 1.313961e+00 6.852414e-01 -5.635793e-01
## [1041,] -0.0818739066 0.1841070761 5.956714e-01 1.023983e+00 9.635406e-01
## [1042,] -0.5455176163 -0.4754247245 -7.162866e-01 1.630347e-01 -1.033864e+00
## [1043,] 0.9385709029 1.0686947952 -1.529757e-01 3.428744e-01 1.454058e+00
## [1044,] 0.3462179133 2.4220254722 3.971568e-02 -1.136528e+00 -1.860286e+00
## [1045,] 1.2366546686 -0.1006979864 -1.305182e+00 9.597667e-01 -2.225898e-01
## [1046,] -0.3695634890 1.3163058523 -3.371034e-01 9.038117e-01 9.229406e-01
## [1047,] -0.2747676049 0.9553801271 2.168463e-01 1.023088e+00 -7.239807e-01
## [1048,] -0.2727288874 -0.3100878486 9.271347e-01 9.876119e-02 -1.100318e+00
## [1049,] -0.4096540296 1.3662518657 1.471790e-01 -9.487104e-01 -5.435810e-01
## [1050,] 0.3278061108 -0.0905435341 2.324877e+00 9.489712e-01 -1.214838e+00
## [1051,] 2.2427102066 -0.5109776965 -4.238169e-01 -1.155234e+00 1.418202e+00
## [1052,] -1.5237358626 1.3788123678 -2.429119e+00 2.621513e-01 4.811010e-01

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## [1053,] -1.2401246092 0.6147076189 1.265678e+00 -2.329893e-01 -1.407257e+00
## [1054,] 0.1820932949 -0.6694277860 -2.392647e-01 -8.461818e-01 7.204471e-01
## [1055,] 0.1908399276 0.5710137131 1.217759e+00 -1.017365e+00 1.078975e+00
## [1056,] 0.9934138183 -1.2108454293 -5.016918e-02 1.251037e-01 1.697674e+00
## [1057,] -1.3337549165 -0.1990504203 4.328522e+00 -1.090085e+00 -2.405488e+00
## [1058,] 0.2315015956 0.9269154761 -2.997074e-01 -6.269072e-01 -1.139142e+00
## [1059,] 0.6947370214 -1.2840625948 -6.700118e-01 -1.048509e+00 1.113141e+00
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## [1061,] 1.3470903400 -0.7809675127 2.213206e-01 -1.170381e+00 3.153523e-01
## [1062,] -0.2430642005 -0.3855960637 -4.490349e-01 -1.711800e-01 1.135343e+00
## [1063,] -1.4441649889 3.0762652479 -4.423411e-01 -1.198361e+00 1.646588e+00
## [1064,] -1.3342937334 -1.5116390562 9.169811e-01 2.067404e+00 2.607578e-01
## [1065,] -0.5098153930 0.5005975274 2.529988e-01 -5.937404e-01 1.170602e+00
## [1066,] 1.2350639214 -0.0330537940 2.556884e-01 -7.230912e-01 1.254352e+00
## [1067,] -1.0300027495 0.7534200312 2.397420e-01 1.438712e+00 -7.308536e-01
## [1068,] -0.9567177660 1.5195504648 1.595137e+00 6.138635e-01 -1.646312e+00
## [1069,] 0.4880468667 -0.7673623420 8.048959e-01 6.765924e-01 1.057911e+00
## [1070,] 2.1171626909 -1.3153187888 -4.329546e-01 7.344694e-01 -4.039644e-02
## [1071,] -0.0940530451 -0.2479207330 1.489624e-01 7.890045e-01 1.193391e+00
## [1072,] -0.3465071308 1.1859729104 2.638037e+00 1.043037e+00 1.255308e+00
## [1073,] 0.9693864052 0.0728923972 -1.966933e+00 1.577167e+00 1.888951e-01
## [1074,] 0.1584841653 -0.8290058598 -1.199388e+00 6.760047e-01 -1.216097e-01
## [1075,] 2.0304802683 -2.0526409627 -1.556579e+00 -9.573271e-01 1.246430e-01
## [1076,] 0.9898086091 0.5647667778 -6.878462e-01 1.038692e+00 -5.959480e-01
## [1077,] 3.0889885142 -1.1049553809 7.738781e-01 -1.021048e+00 -4.225069e-01
## [1078,] 0.9023391427 -0.3784147184 6.655173e-01 4.403307e-01 1.364086e+00
## [1079,] -0.1646859583 -0.3023676272 -1.500402e+00 -1.604276e+00 4.425088e-01
## [1080,] -0.9346374437 1.4356636687 -4.659965e-01 -1.274766e+00 -5.801427e-01
## [1081,] -0.3526625370 -0.4998484523 -1.344741e+00 1.692850e-01 2.073696e-02
## [1082,] 0.0212224397 -1.3784531319 -3.076885e+00 -1.730294e-01 7.958612e-01
## [1083,] -0.4373465083 1.5277613104 1.542968e-02 2.551806e-01 7.268794e-01
## [1084,] -1.3009533557 2.6222055681 6.359535e-01 1.002033e+00 2.127111e-01
## [1085,] -1.6409631209 -3.0481966203 6.751885e-01 -6.529812e-01 -1.202197e-01
## [1086,] -0.6216964808 -0.8929441957 5.197118e-01 -7.789867e-01 1.326120e-01
## [1087,] -1.2229141590 0.4936117657 -7.734477e-02 -1.911859e-01 -1.877295e+00
## [1088,] 0.9579830021 -0.7100908642 9.623031e-01 -4.473306e-01 -4.461725e-01
## [1089,] -0.8256445562 -0.3284581822 1.132273e+00 -1.564863e+00 -7.951249e-01
## [1090,] -0.0724443343 -0.6808431329 -4.025262e-01 1.331738e+00 -1.244918e+00
## [1091,] 1.3316996027 -1.1252023349 1.545870e-01 1.731312e-01 1.424430e+00
## [1092,] -0.1479074771 -1.5730769229 -9.215581e-01 -2.649261e+00 -5.753577e-01
## [1093,] -1.3838807086 -1.4978561706 -1.759345e+00 2.549513e-01 9.851560e-01
## [1094,] 0.8835931680 -1.7060984792 5.260072e-01 1.968937e+00 -2.130507e-01
## [1095,] -1.4727953669 -0.0871622856 -2.143079e+00 -5.162873e-01 -7.979898e-01
## [1096,] 1.4827656917 -2.1817357047 -1.425798e+00 -1.129569e-01 3.238274e-01
## [1097,] -0.3356308295 1.0536247789 8.539135e-01 8.603725e-01 2.487497e-01
## [1098,] -0.6798993764 -0.0751735157 -1.536475e-01 1.473627e+00 -1.172929e+00
## [1099,] -0.2625225309 -0.1064342630 1.686813e+00 -4.545795e-01 6.138222e-03
## [1100,] 0.0390667263 -0.1123693048 2.335229e+00 1.541502e-01 8.022722e-01
## [1101,] 1.5872955083 -0.6407132424 9.535563e-02 -2.884334e-01 -2.336039e-01
## [1102,] 0.2047972008 -0.9736017745 -1.063212e+00 1.765074e-02 -3.872111e-01
## [1103,] 0.3276101588 0.0540325673 -4.820209e-01 -7.405214e-01 -2.469067e-01
## [1104,] -0.1168186627 0.5659456829 1.528381e-01 2.274744e-01 9.300272e-01
## [1105,] -1.7805484156 1.1488745343 1.544061e+00 -1.855195e+00 1.583991e+00
## [1106,] -0.2841714884 0.3151170359 9.641239e-02 4.415407e-01 1.494434e+00

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## [1107,] 3.3210581505 -0.0995615754 -3.050521e-01 3.672021e-01 -4.755397e-01
## [1108,] -1.2367624916 1.0853825879 -5.504011e-01 1.633040e+00 -4.374243e-01
## [1109,] 0.4371334498 -1.2828619467 -9.503503e-01 -8.262913e-01 -1.246219e-01
## [1110,] 1.4595662727 0.7874882859 4.825794e-01 -4.973517e-01 9.675713e-01
## [1111,] -0.1750158104 -1.4745393380 9.390066e-02 1.190484e+00 2.988913e-02
## [1112,] 0.4389580451 0.9476883733 -4.951118e-01 -4.103623e-01 5.748922e-01
## [1113,] 1.1086840586 3.1563643316 -4.730845e-01 -1.715294e+00 -2.453750e+00
## [1114,] 0.8876823301 -1.3041042829 9.411968e-01 1.936853e-02 7.920166e-01
## [1115,] -0.1901282541 -1.1548671404 1.509742e-01 -3.274060e-01 5.909831e-01
## [1116,] 0.4084675236 1.5862236054 -1.143583e+00 2.224241e+00 1.808978e-02
## [1117,] 0.8036446315 -0.3354737207 8.360634e-01 -1.819417e+00 6.721479e-01
## [1118,] 0.4734557341 -0.8336282127 1.260987e+00 -2.712182e+00 -2.352070e-01
## [1119,] -0.4088993494 0.9491262481 -4.071956e-01 -7.007933e-01 -9.997064e-01
## [1120,] 0.9618876051 0.7731431275 1.665701e-01 -5.991125e-01 -1.067900e+00
## [1121,] -0.3189338018 0.4117738923 5.267901e-01 -9.884236e-01 -1.232692e+00
## [1122,] 0.3747844048 0.7431400271 3.085853e-02 -2.635176e-01 9.800728e-03
## [1123,] -0.5376759314 -0.8687200947 4.937612e-01 8.477070e-01 1.550607e+00
## [1124,] 0.1402885854 -1.2266708354 3.361859e-01 6.752100e-01 8.162366e-01
## [1125,] -1.2997658910 -1.8952653328 -5.821906e-01 3.944484e-01 -9.961038e-01
## [1126,] 1.2850176819 0.3843757503 1.366081e+00 -7.649543e-01 9.333206e-01
## [1127,] 0.7039637871 0.7146563024 1.861612e+00 8.972871e-01 6.899055e-01
## [1128,] -0.5252191229 0.1004542515 -1.977936e+00 -5.461169e-01 6.482320e-01
## [1129,] 0.7703529202 -0.0297784807 2.339625e-01 9.542985e-01 3.089207e-01
## [1130,] 0.3202298039 1.1759570657 5.649462e-01 3.504615e-01 1.380602e+00
## [1131,] -0.7351895177 -0.6306642671 9.381207e-01 -9.263246e-02 -1.660651e+00
## [1132,] 0.7230158739 -0.1514886390 -1.136885e+00 -1.072845e+00 2.284158e-01
## [1133,] 0.3567961899 1.7736286907 -1.255276e+00 2.333402e-01 -2.014588e-01
## [1134,] 0.4157061156 -0.2042969720 6.320676e-01 6.482805e-01 2.741507e-01
## [1135,] -0.8803535620 -0.0928291532 -2.396945e+00 -2.135925e-01 -6.364231e-02
## [1136,] 0.1571676767 -0.8151757542 -1.052766e+00 -7.901808e-01 2.280165e-01
## [1137,] 0.0401070981 -1.0386574355 7.808523e-01 2.692053e-01 9.007621e-01
## [1138,] 0.0652567497 -0.4546678995 8.822957e-01 -9.659998e-01 -6.556440e-01
## [1139,] -0.4393238968 -1.0521195660 2.012943e-01 1.707487e-01 -1.973332e+00
## [1140,] 0.2422937484 -0.2869315095 -8.961784e-01 -1.380005e-01 -1.831491e+00
## [1141,] 0.1512935978 0.5242476955 -8.402759e-01 -3.108882e-01 -1.652586e-02
## [1142,] 0.6676553408 -0.2226728218 1.406709e+00 -2.829428e-01 1.074914e+00
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## [1144,] -0.2589018890 -1.4593530578 -7.787990e-01 4.869099e-01 4.402532e-01
## [1145,] -0.7338859466 -0.7785243807 6.205403e-01 1.977484e-01 -7.152282e-01
## [1146,] 0.8300509132 0.2251677623 -6.813100e-01 -2.472310e+00 -3.394047e-01
## [1147,] -0.0585130620 -0.3617582924 1.036315e+00 5.068354e-01 -7.346713e-01
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## [1150,] -1.2546321105 0.3704019094 -1.577036e-01 2.466962e+00 6.844370e-01
## [1151,] 2.0544178511 0.5682440675 -1.628176e-01 9.800292e-01 -2.122492e+00
## [1152,] -0.6747988022 -0.0268263133 2.005168e+00 -1.254136e+00 4.351904e-01
## [1153,] 0.4447933063 -1.8027862898 1.596233e+00 6.894126e-01 3.469296e-01
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## [1155,] -0.4591645163 1.0995285421 -3.541012e-01 -5.408158e-01 -9.110589e-01
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## [1161,] 0.4771055505 -0.2276484425 7.611703e-01 7.649698e-02 1.010621e+00
## [1162,] -1.7743624129 1.1886543012 -5.681212e-01 -1.443391e+00 -1.818057e+00
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## [1164,] 1.0175725293 0.0727051087 -5.241410e-01 4.101139e-01 -9.652428e-02
## [1165,] 0.2717419455 -0.5779031442 -1.401393e+00 -6.782985e-01 -1.193688e+00
## [1166,] -2.8850890221 -0.7439870533 -5.144826e-01 2.379178e+00 -7.657511e-01
## [1167,] 0.2583924869 -0.5675800666 1.061821e-01 4.856012e-01 -9.068096e-01
## [1168,] -1.3307114313 0.7200289269 -8.306432e-01 -8.019458e-01 -4.187735e-01
## [1169,] 0.0509650439 -1.1042382564 -5.102443e-01 -9.233636e-01 -1.518525e+00
## [1170,] -0.7218631944 -1.8227491702 -1.247110e+00 -1.503054e-01 1.419983e+00
## [1171,] 0.1387780604 -0.6983038185 3.780322e-01 5.845485e-01 -6.657063e-02
## [1172,] -0.0379068748 -0.5051594618 3.380559e-01 1.230101e+00 1.758333e+00
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## [1175,] -1.3587571675 0.2679893719 -4.013391e-01 3.967566e-01 5.012625e-01
## [1176,] -0.8286137982 0.0460698902 -7.231499e-01 -3.591180e-01 -2.347000e+00
## [1177,] -0.4405778223 -0.3761381787 3.419281e-01 -2.019525e+00 -4.670801e-01
## [1178,] 1.1044542500 1.8629473477 -1.547921e-01 -1.199315e+00 -4.329930e-01
## [1179,] -0.7914062243 -1.0722109204 -1.146853e+00 -4.563286e-01 1.132572e+00
## [1180,] 0.5995239207 -1.2983239439 6.641435e-01 -1.406734e-01 1.435303e+00
## [1181,] -1.0778841444 0.4759780178 7.166962e-01 -1.427066e-01 1.355063e-01
## [1182,] 0.4021071754 0.6367110606 1.959186e-01 7.921352e-01 1.910096e+00
## [1183,] -0.0946731221 -0.0258711676 -5.246005e-02 5.819756e-01 4.395122e-01
## [1184,] 0.7608425111 -0.9236433044 -7.773455e-01 -7.409422e-01 3.100672e-01
## [1185,] -0.4278520889 0.5214917540 3.303743e-01 5.600228e-02 -1.271183e+00
## [1186,] 0.9747750877 0.6662720221 9.323545e-01 -1.376450e-01 8.969292e-01
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## [1188,] -0.3354369027 0.1225822627 2.233833e+00 1.859663e-02 -1.289221e+00
## [1189,] 0.1042174298 -0.2381951889 1.735521e+00 3.490196e-01 -1.820104e-01
## [1190,] -0.2760420281 -0.3525901512 -6.991770e-01 -1.174950e+00 -3.696013e-01
## [1191,] -0.5476075978 -0.3778988681 -2.233152e-01 3.020151e-01 -2.182599e-01
## [1192,] 1.3466806615 0.5145089233 4.831097e-01 -1.641387e+00 -5.084227e-01
## [1193,] 1.8736739677 0.1594031722 -5.920995e-01 4.527368e-01 1.363720e+00
## [1194,] 1.9047413834 0.4878847557 -1.633493e-01 -1.505221e+00 4.863708e-01
## [1195,] -1.1219446744 0.8745179390 5.367599e-01 -4.140612e-01 1.145483e+00
## [1196,] -0.9693872628 -0.3596415930 -1.126367e-01 -9.895390e-01 1.361645e+00
## [1197,] -0.9674628965 0.3297517530 8.589467e-01 9.735408e-01 8.490756e-02
## [1198,] -0.9071092821 -0.2198565620 4.171125e-01 1.983712e-01 -1.998496e+00
## [1199,] 1.6211123064 -1.6131878116 -8.975185e-01 3.576085e-01 -4.174536e-01
## [1200,] 0.0669646724 -0.5066538202 5.264973e-01 6.352726e-01 -1.022716e+00
## [1201,] -0.3909077954 -0.3067987796 -1.536162e+00 3.881483e-01 6.428069e-01
## [1202,] 1.9489951521 -1.1424005890 1.325485e+00 -1.921040e-01 -6.413768e-01
## [1203,] -2.0194428765 0.8584861172 -1.185936e+00 -1.806682e+00 3.389437e-01
## [1204,] -0.4143957450 -0.9273062935 -3.506979e-01 -6.351538e-01 -1.250211e+00
## [1205,] -0.9687717834 -0.6411375030 3.901822e-01 -2.098604e-01 2.400005e+00
## [1206,] -1.0925829581 0.6143633746 -1.163598e+00 -8.295860e-01 3.588908e-01
## [1207,] 0.7603677684 1.0521487747 1.093218e+00 -4.926573e-01 1.339683e+00
## [1208,] -0.0083517640 1.3690556527 -1.625026e+00 -4.824849e-03 1.878075e-01
## [1209,] 0.0376332034 -1.7265593982 1.420310e+00 1.353885e+00 6.311503e-01
## [1210,] -0.4142335296 -0.5288523455 4.995515e-01 4.363161e-01 4.511877e-01
## [1211,] -0.4850567840 0.5404103269 1.569144e+00 -9.319976e-01 -1.011171e+00
## [1212,] -1.2240674769 -0.2420466060 -7.278307e-02 -1.327456e+00 5.333616e-01
## [1213,] -1.1260036850 -0.3109296393 -2.022740e+00 -7.619162e-01 -2.209143e-01
## [1214,] -0.2138092456 0.1346903509 -2.236520e-02 -2.814615e-01 -4.949620e-02

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## [1215,] 1.3510738624 -0.8477971766 4.882515e-01 -2.019561e+00 -3.854168e-01
## [1216,] -0.9944016432 -0.3227547985 3.767109e-01 -5.068979e-01 -3.463160e-01
## [1217,] -1.1905282335 0.3883405927 -5.805069e-01 1.615243e+00 -2.031735e+00
## [1218,] 0.5814359703 -0.0175228164 -1.690862e-01 -5.634495e-01 -6.875505e-01
## [1219,] -0.6648860017 0.8649284016 3.704965e-01 1.022622e+00 4.383156e-01
## [1220,] 0.5114812725 -0.4883555289 -4.114882e-01 3.501809e-01 2.389419e-01
## [1221,] -0.3860723147 0.3714469979 8.212377e-01 -5.021048e-01 -1.562095e-01
## [1222,] -1.9574121206 0.1463588771 1.683469e+00 -9.388213e-01 -4.000438e-01
## [1223,] -0.3631909669 -2.4025367316 1.496224e+00 2.638038e-01 -2.016005e+00
## [1224,] 0.3034048788 -0.4122152908 -1.481897e+00 -1.715250e+00 4.641708e-01
## [1225,] 0.6549667110 0.2250484408 3.917991e-01 4.906624e-01 5.121278e-01
## [1226,] 0.7492254874 -3.1534299418 2.019936e-01 -1.560221e+00 -1.071548e+00
## [1227,] 0.2352584778 -0.3129573383 -7.754830e-01 5.955061e-01 8.565137e-01
## [1228,] -1.3568022230 0.3771271933 -1.333424e+00 1.380026e+00 -7.764482e-01
## [1229,] 0.5732116166 0.7969111372 -9.322836e-01 2.200151e-01 -7.582858e-01
## [1230,] 1.5415986147 0.3722283327 -2.251650e+00 6.931421e-01 1.055792e+00
## [1231,] -0.8334003716 0.9883132510 1.262672e+00 -7.205314e-01 6.129799e-01
## [1232,] 1.5987398581 0.9817591795 -2.847331e-01 8.337049e-01 -1.001009e+00
## [1233,] 0.8754067771 1.0602066515 -4.188641e-01 -4.786127e-01 1.170881e+00
## [1234,] 0.8823784516 -0.1343868114 -9.531396e-02 -2.580932e-01 2.536530e-01
## [1235,] 0.9498976723 0.7935200650 2.900776e-01 4.807547e-01 1.518478e-01
## [1236,] -1.1260411106 -0.7289451931 1.345930e+00 1.154755e+00 2.440143e+00
## [1237,] -0.9168133892 1.6814725246 1.732456e-02 1.229067e+00 1.142931e-01
## [1238,] 0.3871092511 -1.4837204573 -1.964030e-01 8.019124e-01 3.044469e-01
## [1239,] -0.0228618110 -0.2167464280 -3.773141e-01 7.559362e-01 5.629494e-01
## [1240,] -0.2308266361 -1.1966728735 1.833300e+00 -1.304031e+00 -7.002874e-01
## [1241,] -1.7840407332 0.7004713336 -2.296217e+00 9.935050e-01 3.766905e-01
## [1242,] -0.1113423658 1.7931324624 -4.478107e-01 -5.921612e-01 -2.321859e+00
## [1243,] -0.1113701620 -0.5188825339 -1.160879e+00 1.097921e-02 -3.489865e-01
## [1244,] -1.6126127897 2.1300429740 -1.093333e+00 1.312823e+00 1.345290e-01
## [1245,] 0.3196158497 1.3199681895 -1.446364e-01 -1.264571e+00 -8.903596e-03
## [1246,] 0.5903328567 0.0918071072 -3.081836e-01 -4.423688e-01 8.630893e-01
## [1247,] 0.1276222003 -0.1886792331 -1.445392e-02 2.685263e-01 1.787489e+00
## [1248,] -0.1619402662 -1.2971770905 -5.467466e-03 1.401121e+00 8.359002e-01
## [1249,] 1.0320533078 0.5022890780 -5.249339e-01 -5.522070e-01 8.375665e-01
## [1250,] 0.1670679284 -0.6211427640 -3.886430e-01 -8.810797e-01 1.166989e+00
## [1251,] 0.9395486525 -0.6048079501 -5.314620e-01 -6.293615e-02 3.203857e-01
## [1252,] -1.0740156467 0.4100334447 -7.036724e-01 1.998581e+00 -4.340678e-01
## [1253,] -0.0228109629 0.2255662323 3.992888e-01 -1.836877e-01 6.480669e-01
## [1254,] 0.45691114228 1.8340915035 9.689743e-01 6.486906e-01 8.131204e-01
## [1255,] -0.2631118450 -2.5041331647 -2.208237e+00 1.643907e+00 1.732440e-01
## [1256,] 0.4755862695 -0.1139652453 5.556405e-01 -8.982548e-01 3.012623e-01
## [1257,] 0.6605177589 -0.1710976411 -1.132521e+00 -4.458084e-01 1.137685e-01
## [1258,] -0.4234909961 -0.7703995502 1.183430e+00 4.595198e-01 -7.413878e-01
## [1259,] 1.7603134118 1.2137756379 6.957393e-01 2.999985e-01 -1.246862e+00
## [1260,] 0.7115624943 0.6249840413 -9.417587e-01 -2.692136e-01 -6.170756e-01
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## [1262,] -1.5798039120 -0.1058601740 3.235267e-01 -3.817456e-01 3.860423e-01
## [1263,] 0.1013960013 -1.2049959065 -1.281761e+00 -1.264613e+00 -6.802153e-01
## [1264,] -0.4474181322 1.4416879058 -5.194847e-01 -3.381573e-01 3.535358e-01
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## [1269,] -0.1786524197 -0.0944380361 -3.595435e-01 2.427067e-01 2.217503e+00
## [1270,] 0.1927591097 -2.7134245623 2.813780e-01 -3.622218e-01 -1.793737e-01
## [1271,] -0.0283470378 0.5762127834 2.179552e-01 3.462071e-01 -2.206452e+00
## [1272,] 0.0733721013 -2.1130781668 1.323021e+00 6.626922e-01 -2.403815e-01
## [1273,] -1.2809763142 -0.6869019274 1.177503e+00 1.518545e+00 1.710061e+00
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## [1275,] 0.0906684651 -0.6772353318 -9.450630e-02 -1.264376e+00 -1.458506e+00
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## [1277,] 0.1388992962 -0.8159233594 -8.296020e-01 1.175834e+00 -7.961856e-01
## [1278,] -0.8707468927 2.2321591359 -1.184336e+00 -1.272692e+00 -1.706894e+00
## [1279,] -1.6040481805 0.0529506160 3.166320e-01 -9.323556e-01 -7.295732e-01
## [1280,] -1.7121947209 0.9408242052 -9.207172e-02 -3.673218e-01 2.024192e+00
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## [1282,] 0.8826420462 0.0748370284 1.079082e+00 3.809567e-01 1.320223e-01
## [1283,] 0.3871143598 1.0289494358 -4.641618e-01 -1.769326e-02 1.639340e+00
## [1284,] -2.2425523229 0.4415772063 -1.315331e+00 -1.074719e+00 9.523073e-01
## [1285,] 0.3154667203 0.7392381968 7.122678e-01 1.001878e+00 -5.076694e-02
## [1286,] 1.3216729604 -0.0683115816 -4.533216e-01 -1.591743e+00 -7.194350e-01
## [1287,] -0.5290121491 -1.1363752062 3.898574e-01 -1.179192e+00 -1.220576e+00
## [1288,] -0.1652588978 0.6818711835 2.063147e-01 1.027595e+00 1.574942e+00
## [1289,] -1.0847608482 -0.3692989882 -1.255046e+00 -6.133096e-02 7.148247e-01
## [1290,] -0.7961915335 -0.2225107783 1.065474e+00 -1.292044e+00 4.398418e-01
## [1291,] 2.2881406428 -0.6368527551 -1.099155e+00 -3.964474e-01 6.742646e-01
## [1292,] 1.6751569640 -1.7846171053 1.419361e+00 -1.034382e-01 -7.094060e-01
## [1293,] -1.8962724189 0.2702124243 8.452697e-01 6.296341e-01 1.572322e+00
## [1294,] 1.0180428793 -1.1533800057 -2.761023e+00 -2.083557e+00 3.542875e-01
## [1295,] 0.2930325403 -2.4513494089 1.523353e+00 3.689277e-02 5.686408e-01
## [1296,] 0.2219687317 0.7919575552 1.414798e+00 -2.662058e+00 1.246613e-01
## [1297,] 0.5552057476 -0.2739003808 -1.320989e+00 -1.941004e-01 4.847749e-01
## [1298,] -0.1555755574 -1.0791848714 1.632356e-02 -1.180496e-01 3.643753e-01
## [1299,] -0.1628318536 -0.6826595587 -1.166386e-01 1.446447e+00 -2.845397e-01
## [1300,] 0.1850888725 -1.2259296235 -6.619296e-01 1.136880e+00 1.440982e+00
## [1301,] -0.5431409630 -2.4776743884 4.033759e-01 1.087590e+00 2.778844e-02
## [1302,] 0.5016705653 -0.9888513080 -5.022497e-01 -4.592361e-02 4.119979e-01
## [1303,] -0.6679213107 -0.9070518955 -1.643032e-01 -2.496258e-01 2.220753e-01
## [1304,] 0.1898038580 -0.7085818044 1.001712e-01 2.171972e-01 2.684053e-01
## [1305,] -0.1296081611 0.0076290384 1.956930e+00 -4.729640e-01 1.541491e+00
## [1306,] 1.2524520664 -1.1770114418 8.216115e-01 4.637517e-01 -5.949364e-01
## [1307,] 1.7219145171 1.5058687655 -8.007083e-01 1.135935e+00 1.310728e+00
## [1308,] -0.1933998425 1.0622962457 -1.746195e+00 -1.843962e-01 9.441781e-01
## [1309,] 0.5304817306 -0.4722430226 3.326615e-01 -5.033948e-01 7.397111e-01
## [1310,] -0.0551187346 -0.7115171822 -1.349558e+00 -9.853699e-01 -9.970262e-01
## [1311,] -0.5816077972 -0.2921076987 5.709886e-01 -9.162401e-01 -1.329969e-02
## [1312,] 2.3494396271 0.1571764700 5.046541e-01 1.438423e+00 -3.672545e-01
## [1313,] 0.2673364476 0.6423443065 9.838089e-01 3.659042e-01 7.693142e-01
## [1314,] -0.1065394035 0.3289166404 5.621375e-01 -6.981392e-01 3.433480e-01
## [1315,] -0.7850279323 0.5730410005 -9.535844e-01 -8.519535e-02 2.101079e-01
## [1316,] -0.4364949582 -0.8319804324 6.570711e-01 -2.083041e+00 2.445518e-02
## [1317,] 1.1423412197 -0.1905134582 -4.934187e-01 3.167914e-01 4.694604e-01
## [1318,] 2.2432735110 -0.2268874847 4.351518e-01 5.844710e-01 -2.984878e-01
## [1319,] 0.3233863474 0.4601926560 7.972690e-01 -9.312731e-01 -2.265087e+00
## [1320,] -0.9444057912 -0.0296081530 -5.128491e-01 -2.035521e+00 9.742922e-01
## [1321,] 0.9861298075 -1.3600098830 -5.246021e-01 -4.064283e-01 4.965882e-01
## [1322,] -1.1029346807 -1.5123062033 7.878933e-01 -4.844837e-01 -8.330616e-01

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## [1323,] 2.0620965359 0.9448596310 6.857583e-01 -5.580416e-01 2.438326e+00
## [1324,] -1.9003762591 0.0795256659 -1.067754e+00 1.604217e-01 1.152912e+00
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## [1328,] -0.4532108827 -0.5554760839 5.529086e-01 8.875020e-01 5.540741e-01
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## [1332,] -1.3017999826 -0.1438585027 -4.312564e-01 1.288136e+00 -1.992684e+00
## [1333,] 1.1473155812 -0.7856005435 2.253084e-01 4.888083e-01 1.967720e+00
## [1334,] 0.6069681799 0.6687803298 2.533927e-01 1.036482e-01 7.363793e-01
## [1335,] 1.9277756859 3.3769221568 -1.344309e+00 -1.795779e+00 -2.976400e-02
## [1336,] -1.6986480382 -0.4628903713 1.518530e+00 -1.260233e+00 1.065789e+00
## [1337,] 0.3361278068 -1.3406905050 -7.309129e-01 -4.729142e-01 9.176665e-02
## [1338,] 1.3248264907 0.2122346810 1.881813e+00 -3.860102e-02 1.415792e-01
## [1339,] -0.3925043530 1.1146116223 1.555552e-01 1.082383e+00 3.690449e-01
## [1340,] -0.1389648750 -0.1831502380 2.005998e+00 -1.030819e+00 -4.813849e-01
## [1341,] -1.6167529972 0.0963635604 -4.987900e-01 2.134723e+00 1.333473e+00
## [1342,] 0.0932334138 -1.9480056900 -1.512315e+00 -5.858653e-01 -1.114008e+00
## [1343,] -0.8310562683 -0.0420613959 9.729617e-01 -1.819714e+00 1.597108e+00
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## [1345,] -1.2986739748 -1.1144988884 -2.326081e+00 -1.110501e-01 -3.761440e-02
## [1346,] -0.6389666293 -0.1814988939 2.461400e+00 7.866200e-01 -5.530533e-01
## [1347,] -1.5630506875 -1.2693263379 1.911843e+00 -2.594691e-01 2.107937e+00
## [1348,] 1.1382081735 0.2168879799 3.676876e-01 1.435697e+00 4.625355e-01
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## [1350,] 1.0339209937 -0.2464161072 7.497735e-01 -9.237603e-01 -2.487012e-01
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## [1355,] -1.6535030911 -0.2018181695 4.225398e-01 -5.200641e-02 1.976106e+00
## [1356,] 0.7634511209 -1.1197465619 -8.282350e-03 -9.011654e-01 5.655740e-01
## [1357,] 0.1436190432 -0.5001261125 -7.329599e-01 1.914046e-01 -2.951227e-01
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## [1360,] -0.2076393910 -0.1785630455 4.350509e-01 1.598607e+00 -5.924428e-01
## [1361,] -0.7102177021 0.1685601045 6.079596e-01 -5.990944e-01 -1.894392e+00
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## [1363,] -1.1094753041 0.4068853697 -5.802032e-01 2.008233e+00 -5.859954e-01
## [1364,] -1.0307393210 1.7614119183 -2.300757e-01 -8.584916e-01 -9.098681e-01
## [1365,] 0.9906859827 -0.5710735312 5.944367e-01 -1.377762e-01 6.325944e-01
## [1366,] -0.4521586383 -1.8295599270 -1.253175e+00 -1.209378e+00 -4.148837e-01
## [1367,] -1.3592313731 -1.3282046238 -2.206282e+00 -1.730671e+00 -5.287757e-01
## [1368,] -0.0657974552 0.4003432889 -1.123455e+00 5.532035e-01 -1.532912e+00
## [1369,] -0.4232423865 0.5885521558 -3.134255e-01 5.240357e-01 -1.609860e+00
## [1370,] 0.1705286198 -1.9968539431 -1.217261e+00 -4.305018e-01 -1.279181e-01
## [1371,] -0.2519322613 0.2404011554 5.834592e-01 -5.143558e-01 -4.726696e-01
## [1372,] -1.7831322707 0.2965061324 -8.471058e-01 -1.321549e+00 4.096747e-01
## [1373,] 1.0641122865 1.9919346545 1.521318e-01 2.077556e+00 1.407797e+00
## [1374,] 1.3198568601 -0.6993031848 -6.306616e-01 1.714736e+00 -1.304228e+00
## [1375,] 2.4538712228 0.2130312620 4.172643e-01 7.292080e-01 -4.668490e-01
## [1376,] 1.6867330199 -0.8794279164 -2.821490e-01 -8.018303e-01 -5.739769e-01

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## [1377,] -1.5723395137 0.9153755225 7.339349e-01 -7.212754e-01 -9.244834e-01
## [1378,] -1.1653453731 0.0233166424 -1.699683e+00 -1.967120e+00 -2.691412e-01
## [1379,] -1.2463687066 -0.4699473522 3.703120e-01 2.109224e-01 -1.753076e+00
## [1380,] -1.1029176287 -0.3680606261 2.130111e+00 2.014906e+00 4.115047e-01
## [1381,] 0.7672389178 -1.6784304524 -1.562898e+00 4.032611e-01 -1.156928e+00
## [1382,] -0.4208530163 -0.1305010532 -4.838808e-01 -3.065352e-01 -3.376094e-02
## [1383,] 3.4190889871 0.3928146577 2.663918e-02 -1.360470e+00 1.173401e+00
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## [1385,] -0.1824052642 0.3403285505 -5.325876e-02 -9.259501e-01 -1.919109e+00
## [1386,] 2.0423994574 0.7184087928 1.363167e+00 -9.640698e-01 -5.458397e-01
## [1387,] 0.3557928704 -0.2645022593 -8.915689e-01 -1.066258e+00 -9.657044e-01
## [1388,] 0.9749511881 -0.8771138410 -2.346213e-01 1.342516e-01 -7.463571e-01
## [1389,] 1.1016242840 0.7384353332 -3.979637e-01 5.550173e-01 -1.131592e+00
## [1390,] -0.7508702461 1.5632754371 -1.299274e-01 -2.647190e-01 -4.789707e-01
## [1391,] -0.4127464771 -0.9640394917 -4.753776e-01 1.223557e+00 4.235033e-01
## [1392,] -0.5879956977 0.3981324328 -2.305013e-01 2.972499e-01 1.561612e+00
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## [1394,] 0.8753165183 -0.6117447013 5.691931e-01 2.639190e-01 1.593646e+00
## [1395,] -0.1078826050 0.6442643389 -5.860834e-01 6.946074e-01 -9.887607e-03
## [1396,] 1.5087370664 0.4496765584 -6.748017e-01 -3.971459e-02 6.048436e-01
## [1397,] 0.3774748568 -0.3587197110 1.480584e+00 -1.510110e+00 2.867119e-02
## [1398,] 0.2064722416 -0.7001798294 7.734341e-01 -2.037597e+00 -6.882935e-01
## [1399,] -0.5772286566 -1.0211071152 1.937842e-01 1.350306e-01 -3.130004e-01
## [1400,] 0.4891795686 -0.7173357344 -7.428133e-01 1.104423e+00 -7.110398e-01
## [1401,] -0.3238941753 -1.4132994911 -5.736874e-02 1.698155e-02 -1.943889e+00
## [1402,] -1.1215593465 1.1355517263 -3.380449e-01 1.525170e+00 -5.017789e-01
## [1403,] 0.6274677773 0.4224359961 -1.502508e+00 5.843183e-01 -9.901192e-01
## [1404,] -0.1735723624 -1.7253998849 7.825565e-01 -2.120902e-01 -5.007654e-01
## [1405,] 1.6274383240 0.5492909953 -4.286665e-02 -8.038038e-01 -2.619802e+00
## [1406,] -0.2590366627 -1.8076254982 8.158037e-01 1.141451e+00 -8.261314e-01
## [1407,] 0.9390907342 0.5777064752 5.245604e-01 1.083821e+00 1.034596e+00
## [1408,] -0.9186196048 0.5194807762 -9.970806e-02 1.894943e+00 -1.379346e+00
## [1409,] 0.4618788503 -0.1892299363 4.327646e-01 -1.205614e+00 4.497631e-01
## [1410,] 0.3535305969 -0.5993044737 -8.148925e-01 4.684380e-01 -8.260401e-01
## [1411,] 0.3287716906 0.5318039254 4.511401e-02 7.730621e-01 -8.133457e-01
## [1412,] 0.8119829054 2.2388819298 -7.715605e-01 2.814279e-01 9.370995e-01
## [1413,] 0.7057868182 -0.9554335312 -4.097977e-02 1.303714e+00 1.217977e+00
## [1414,] 0.0898554343 -0.1526202976 1.551971e+00 9.313716e-01 6.278437e-01
## [1415,] -0.0162804279 -0.4271470346 -1.286970e-01 -1.469538e+00 -4.116535e-01
## [1416,] 1.5050917923 1.1054846971 -1.461134e+00 -6.950317e-01 -2.332944e+00
## [1417,] 1.5738434983 0.6421416043 -8.852583e-01 1.615409e-01 -2.086676e+00
## [1418,] 1.1442133476 0.1098881815 1.558478e+00 -9.976407e-01 1.194257e+00
## [1419,] 1.3792975630 0.7378623119 -1.183532e+00 4.633773e-01 -8.406335e-02
## [1420,] -0.6070584188 0.8704806034 9.941442e-01 -1.296197e+00 -4.578938e-01
## [1421,] -0.4548090201 0.7995563392 2.847923e-01 -1.422795e-02 -1.420713e+00
## [1422,] -0.6879431071 0.3736658002 -4.327103e-01 6.087243e-02 9.818320e-01
## [1423,] -1.2367654949 1.3403801907 1.617407e+00 -9.034480e-01 1.363326e+00
## [1424,] -0.8516251838 0.4276666764 1.425058e+00 2.287059e-01 -1.576989e+00
## [1425,] 1.6761422156 2.0421467877 1.392638e+00 -1.440103e+00 1.519754e+00
## [1426,] 1.1942238980 -0.1661572598 6.881075e-02 4.091173e-01 7.751382e-01
## [1427,] 1.1165554392 0.3407262509 6.761508e-01 -1.156388e-01 -9.403646e-01
## [1428,] 0.4292078292 0.6116125245 6.439193e-01 -5.227287e-01 -7.312426e-01
## [1429,] -1.5722102697 0.9195309227 -1.671979e+00 2.417982e-01 -4.337213e-01
## [1430,] 0.2084372749 -0.4960975753 -6.441130e-01 5.954215e-01 -1.079759e+00

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## [1431,] -0.0697209675 -0.1728376549  3.037043e-01  1.052903e+00  3.828200e-01
## [1432,] -1.3581132138 -0.1081823008 -9.608261e-01 -1.778203e+00  5.480580e-01
## [1433,] -0.8657940437  1.1272478356  7.509161e-01 -1.573537e-01 -6.357249e-01
## [1434,] -0.8259235753  0.6687689826 -2.669578e-01 -5.061608e-01  1.517626e-01
## [1435,] -0.5937258541 -0.2746062428 -1.477423e+00 -2.259713e-01  1.815167e-01
## [1436,]  0.2054782788  1.1286512883 -4.639585e-01  4.944585e-01 -6.810060e-01
## [1437,] -0.0867333529  0.4198691196  1.088361e+00  1.098982e+00 -3.703275e-01
## [1438,] -0.8024843478 -0.1085276862 -4.886562e-01  5.836489e-01  2.047791e-01
## [1439,]  1.1705334147  0.7922309254 -3.712978e-01 -1.313893e-01  1.463978e+00
## [1440,] -0.2402493294  1.1030729946  4.634134e-02 -1.258157e+00  5.432861e-01
## [1441,] -0.8146367591  0.5203492851  5.463577e-01 -2.749684e-01 -4.148115e-01
## [1442,] -0.1783945058 -0.9234396521  9.968269e-01 -1.450752e+00 -7.710069e-01
## [1443,]  0.2881355625  0.4591940359 -2.958630e-01  2.351848e-01  1.790714e+00
## [1444,] -0.6431523151 -0.4081597100 -1.229778e+00 -1.574873e+00 -2.114699e-01
## [1445,] -0.1046031131  1.1983078886  9.452535e-01 -4.490373e-01  1.315381e+00
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## [1449,]  0.9768903654 -0.0461347066  8.743396e-02  2.141469e-01  4.259174e-01
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## [1457,] -0.44448858776  0.4258162966  2.594928e-01 -1.933501e-01 -1.812918e+00
## [1458,] -0.0618485476 -3.1930617057 -8.024249e-01  4.925495e-01 -1.300086e+00
## [1459,]  0.0599537663 -0.7438289577 -1.247126e+00 -1.367350e+00 -1.124976e+00
## [1460,] -0.8047423037  1.4336171257  1.408989e-01  6.651500e-01  1.054281e+00
## [1461,] -0.6515439289  1.2672499405 -9.085240e-01  1.829643e+00 -8.109517e-02
## [1462,]  0.9293984467  0.7984972348  3.357288e-01  1.942265e-01 -2.256878e-01
## [1463,]  2.0892693373  0.9302727202 -4.534141e-01 -2.742670e-01 -1.153420e+00
## [1464,]  0.0428060267 -0.4149203383 -8.266985e-01  6.446179e-02  4.248738e-01
## [1465,]  0.8674026900  0.5800965109 -8.020139e-01  3.391303e-01 -3.998491e-01
## [1466,] -0.4131971793 -0.6582711687 -8.271187e-01 -1.093806e-01 -9.315725e-01
## [1467,] -0.2657040729 -0.6342131079  2.300025e-01  1.706640e-01  2.837995e-01
## [1468,]  0.4048806570 -0.9739742949 -1.641356e+00 -5.053954e-01  6.433815e-01
## [1469,]  1.1750042208  0.4034104394 -1.207363e+00  1.372229e+00  5.360979e-01
## [1470,]  0.5991738312  0.7944107053 -3.421827e-01  3.641001e-01 -3.627279e-01
## [1471,]  0.3817024481  0.3621686613 -1.025467e+00 -1.642051e+00  3.853683e-01
## [1472,]  0.5409377979  0.9438466103 -1.031744e+00  1.546802e-01 -5.433470e-01
## [1473,] -0.6436045062  0.0852275043 -1.175155e+00 -1.321421e+00  5.068186e-01
## [1474,] -0.4646673101 -0.3187766654 -1.510512e-01 -4.695154e-02  8.558002e-01
## [1475,] -0.2478261358 -2.7545918111 -1.516001e+00 -2.090955e+00 -7.767239e-01
## [1476,]  0.6997642397 -0.6080449914  9.863759e-01  6.383212e-01 -8.428172e-01
## [1477,]  0.6660293821 -0.4396627708  1.843570e+00 -2.675543e-02  3.309355e-01
## [1478,]  1.0558132731  0.2012620341  2.547873e-02  5.823556e-01 -3.176896e-01
## [1479,]  0.5114903388  0.9296935940  1.294229e+00 -1.017706e+00  1.053344e-01
## [1480,]  0.3863760966 -0.1698749789  3.080313e-01  6.850810e-01 -4.787604e-01
## [1481,]  0.7069938553 -0.4970489136  4.625270e-01  2.904390e-01 -1.424245e-01
## [1482,]  0.2113113113  0.0107293888  1.233996e-01  2.413980e-01  1.722829e+00
## [1483,]  1.0558079459 -0.5279530718 -1.238310e+00 -3.663917e-01 -3.751082e-01
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## [1485,] 0.9736540775 -0.3413364374 -2.624154e-01 -8.992535e-01 -4.725982e-01
## [1486,] -1.7001355080 0.2772500118 -7.807466e-01 -4.738257e-01 1.964102e+00
## [1487,] 1.3209293217 0.8720489804 -1.945178e+00 2.187038e-01 5.031716e-02
## [1488,] -0.8858552340 1.2395465140 9.262786e-01 -4.101221e-01 -6.551260e-01
## [1489,] 0.0865328544 0.5138345068 -4.913396e-01 -6.340988e-01 -4.950829e-01
## [1490,] 0.3303192182 -0.6126647345 -1.132741e-01 -1.060401e+00 4.184368e-01
## [1491,] -0.0656644439 -1.0799264919 2.068062e-01 -2.991363e-01 2.781867e-01
## [1492,] 0.5786167776 -0.0687331814 5.907683e-03 -5.670607e-01 1.163664e+00
## [1493,] -1.2535953508 -0.3302327751 -1.051884e+00 -8.158078e-01 -4.444867e-01
## [1494,] 0.2959929820 0.8223863042 -1.687415e+00 -2.258293e+00 5.282932e-02
## [1495,] -0.0676074523 -0.8998571720 -5.707609e-01 1.527137e+00 -7.570405e-01
## [1496,] 0.0469588825 0.5867068858 1.218297e-02 3.051574e-02 -1.114929e+00
## [1497,] 0.0890352297 0.0205598727 -6.675296e-02 8.279781e-01 1.124880e+00
## [1498,] -1.1284095810 -0.7239948426 -1.350967e+00 -1.541595e-01 -3.002852e-01
## [1499,] 0.9596487507 2.2442802082 6.482583e-01 -1.313748e+00 -2.205632e+00
## [1500,] -0.7628850778 -1.4620835814 -1.397645e+00 3.378241e-01 -1.818820e+00
## [1501,] -1.6657675955 -1.3908758267 -2.100384e+00 3.936380e-01 -6.550006e-01
## [1502,] -0.3802423429 -0.6860531075 -1.600667e+00 1.803746e-01 7.682901e-01
## [1503,] -1.2420395775 -0.1964211895 -4.738998e-01 -5.250916e-01 -7.654631e-01
## [1504,] 0.3399487658 0.4776581210 1.974422e+00 -6.632942e-01 -8.000107e-01
## [1505,] -0.0096288865 -0.4559464931 1.395976e+00 1.833705e+00 -3.780618e-01
## [1506,] 0.3150772905 -1.3082433408 1.840143e+00 2.614395e-01 1.227362e+00
## [1507,] 0.4001099952 -1.2924445005 2.105554e+00 -4.144992e-01 -2.839452e-02
## [1508,] -0.2691886246 1.0775769352 1.693447e-01 -1.034953e+00 -1.766189e+00
## [1509,] -0.4690157227 -1.3642230343 1.057574e+00 -9.850977e-01 5.665034e-01
## [1510,] -0.9731136111 1.4185386613 -5.524029e-01 1.495544e+00 -9.950480e-01
## [1511,] -0.8481850709 -0.7071448871 -3.369714e-01 7.993195e-03 -3.583870e-01
## [1512,] 0.0981968990 0.2072015959 2.739376e-02 -6.732044e-01 1.316610e-01
## [1513,] 0.5721396293 1.4691032473 7.289854e-01 7.176527e-01 3.969350e-02
## [1514,] -0.8798063824 1.6456593074 -6.910128e-01 -6.868970e-01 2.236962e-01
## [1515,] -0.4158249465 1.7143875800 -7.405944e-01 1.491387e+00 1.583815e-01
## [1516,] -0.1085058567 0.6024000084 2.206835e-01 1.032458e+00 -3.550178e-01
## [1517,] -0.7849697860 0.3229542092 -3.623153e-01 -5.780605e-01 -2.497188e+00
## [1518,] -0.0789503678 -0.5418685589 1.545615e+00 1.677978e-01 2.291956e+00
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## [1522,] -0.0013863293 -0.3387706961 -3.024629e-01 -4.608529e-01 -2.724750e-01
## [1523,] 1.7394584951 -0.8240896638 -4.584225e-01 5.339309e-01 4.413981e-01
## [1524,] 0.5785652774 1.3749724693 1.819498e+00 -1.241009e-01 -9.087189e-01
## [1525,] -0.0352221887 -0.9921945101 1.802201e-01 2.138551e-01 -6.742948e-01
## [1526,] -0.5866930850 -0.1021425055 7.981556e-01 9.606063e-01 -4.748597e-01
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## [1528,] 0.7198979074 -0.4902502689 1.199249e+00 5.590113e-01 -8.801931e-01
## [1529,] -1.2760125153 -0.4603221011 -3.718166e-01 -2.320783e+00 -8.745339e-01
## [1530,] 1.7012284849 -0.4439885626 5.841786e-01 -9.691652e-01 -6.149263e-01
## [1531,] -0.8446241968 -1.4658459546 -2.345487e-01 2.433779e-01 -9.119183e-01
## [1532,] -0.1989467433 -0.9217914315 9.261119e-01 -1.806825e+00 -1.466498e+00
## [1533,] 0.1296106899 0.8141414582 6.385805e-01 -1.322778e+00 1.260963e+00
## [1534,] -0.0289301991 -1.5274277321 1.532380e+00 -1.639989e+00 -9.792366e-01
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## [1536,] -1.8130485586 0.2746408987 1.556521e+00 5.268081e-01 -5.482472e-01
## [1537,] 1.2227336574 -0.7539594015 7.194923e-01 -1.839042e-01 9.887149e-03
## [1538,] -0.2438708063 -0.7231546811 -6.825675e-01 6.070384e-02 3.478856e-01

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## [1539,] 0.7065580358 1.8305353986 6.656232e-01 -8.782666e-02 4.666517e-01
## [1540,] -0.5980634102 -0.2701205898 -1.379471e-01 9.791523e-01 -4.218384e-01
## [1541,] -0.0965604437 -0.7317931028 -1.024103e+00 -1.043256e+00 -1.589157e+00
## [1542,] -0.8683098096 -2.4972749025 -1.290030e+00 1.333092e+00 -3.146385e-01
## [1543,] 0.0837731526 0.0504289939 -8.776443e-01 -5.097221e-01 -6.180299e-01
## [1544,] -0.1155846680 -0.9010309620 -7.029177e-02 -8.971862e-01 -9.079014e-01
## [1545,] -0.5894513485 -0.5366922455 1.081569e+00 -6.216858e-01 2.694390e-01
## [1546,] -0.5105150664 1.3855535886 5.262557e-02 6.289839e-02 -1.144082e+00
## [1547,] 1.2601152697 -0.4889305873 1.183328e-01 3.940242e-01 8.978413e-01
## [1548,] -0.4223206586 -1.0131879216 -9.518177e-02 -6.487133e-02 -7.952475e-01
## [1549,] -0.9311627990 -0.2090864217 9.829336e-01 3.174019e-01 3.401610e-01
## [1550,] -1.0453175896 0.0196683957 -3.626276e-01 1.081029e-01 3.417261e-01
## [1551,] 0.8052503663 -0.5230475394 -1.350605e+00 8.227100e-01 -1.266083e+00
## [1552,] 0.3375344333 0.2891303117 -3.835570e-01 1.471624e+00 -1.062845e+00
## [1553,] -1.4954055315 1.6112902615 -2.603860e+00 -6.883504e-02 -1.792430e-01
## [1554,] 0.2304468391 -0.0099790507 6.922523e-01 -3.029435e-01 -1.476692e+00
## [1555,] -1.4396903326 -1.4953549534 2.932386e-01 -3.886885e-01 -1.696889e-01
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## [1557,] -0.1807479140 3.1384750173 -1.859160e+00 -7.464899e-01 -6.809333e-01
## [1558,] -0.6206726476 1.1114156620 -2.144987e-01 8.969819e-01 -5.646896e-01
## [1559,] -1.0196302361 0.3761525976 2.704267e-01 5.301530e-02 1.728508e-02
## [1560,] 1.2677397285 -0.5867620997 -1.510144e+00 -1.451283e+00 -1.245266e-01
## [1561,] 0.3627133744 0.1160770811 -3.478214e-01 5.420098e-01 -8.336922e-01
## [1562,] 1.9701963287 0.3354269556 -8.607136e-01 -9.213647e-01 1.536147e+00
## PC46          PC47          PC48          PC49          PC50
## [1,] -1.051940e+00 1.085778e+00 -0.1462752018 -0.8882034754 -1.4398478995
## [2,] -4.174426e-01 1.141099e+00 1.0315644213 -2.4986733855 -0.8021382733
## [3,] -8.261033e-01 1.826321e+00 0.2347208485 0.7162601611 -0.0800728626
## [4,] -1.005686e+00 -9.214470e-01 0.2192544946 -0.6900646430 -0.6715128614
## [5,] 9.230931e-01 1.044073e+00 0.5173197907 1.3286614083 0.4501437317
## [6,] -1.439903e+00 5.912705e-01 -0.6024607965 1.4835232036 -0.3614263321
## [7,] 6.708890e-01 -1.027291e-01 -1.0847123587 -0.7951909607 0.6482148558
## [8,] 4.823066e-01 -7.016406e-01 -0.7617003390 -0.5625234279 -1.4702150276
## [9,] -1.758506e+00 4.029914e-01 -0.0985141665 0.1613015409 0.2175541143
## [10,] -2.480678e+00 1.008255e+00 -2.4893304921 0.5090759658 -0.9645457478
## [11,] -1.101732e+00 1.072923e+00 -0.1115391408 -1.5247803849 -0.8607969701
## [12,] -4.357921e-01 -1.562525e+00 -0.0882812700 -0.7753425300 -0.5803672611
## [13,] 3.740032e-01 -2.758829e-01 -0.0480584676 0.8200170983 0.6119839377
## [14,] -5.483436e-01 -3.438050e-01 0.2188190042 0.2394552745 -0.6098619075
## [15,] -1.353740e+00 2.507838e+00 0.6818870005 -1.3553081648 -0.3616645007
## [16,] -7.021847e-01 -1.414920e+00 0.5012405491 2.0535724824 0.0125253230
## [17,] 1.445288e+00 -5.175665e-01 -0.6607922203 -0.9211930295 -0.5527859071
## [18,] 9.665798e-01 -9.797340e-01 -0.1658168655 -1.9193294294 0.2615899362
## [19,] -2.198175e-01 3.625232e-04 -0.3239194030 -0.8720306211 -1.5170241674
## [20,] 1.141979e+00 -6.599370e-01 0.9261438067 0.2052726113 0.1135850051
## [21,] 1.249613e+00 -2.031944e-02 0.9326684355 0.6700753666 0.4035406110
## [22,] -1.017453e+00 8.279575e-01 -0.5529804409 -0.7918212985 0.1185110428
## [23,] 8.513160e-01 -1.378574e+00 0.9308595039 -1.1813806696 -0.1784871032
## [24,] -1.403001e+00 9.378913e-01 -0.4748130018 1.8380228695 1.0650385879
## [25,] -9.489022e-01 -2.531372e-01 0.2941133800 -0.4493776240 0.8911027236
## [26,] -8.786715e-01 9.752124e-02 -1.0006126748 -1.3057043591 -0.7440518399
## [27,] -6.316882e-01 1.505107e-01 0.3044734731 -1.7006281477 -0.5580465365
## [28,] 4.957163e-01 1.512001e+00 -2.3393062294 -0.6532435315 0.4677336036
## [29,] -9.606142e-01 1.261280e-01 0.5284301975 1.0649965376 -1.0517677089

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## [30,] -1.768667e+00 7.035775e-03 0.0766749803 0.1366062184 -0.9315635530
## [31,] 7.008853e-01 -8.437353e-01 -0.8637511633 -1.3413126110 0.4515876835
## [32,] -1.161538e+00 4.220722e-01 0.5238931303 -0.9824267056 0.1570254546
## [33,] -1.277544e+00 5.191927e-01 -0.6765121145 -0.5035138274 -2.5138178181
## [34,] 1.036750e+00 8.153207e-01 -0.7812986589 -1.5410943669 0.4196734903
## [35,] 9.066309e-02 -5.746307e-01 0.5975041739 -0.4432491047 1.9075467845
## [36,] 1.229122e+00 -5.127195e-01 1.4306255891 0.1129433240 -0.3367225727
## [37,] -1.514249e+00 -5.776103e-01 0.1039515101 -0.0412416028 -1.3381650890
## [38,] -7.210837e-01 -1.797410e-01 -0.1994577511 -0.6886465270 1.5866276831
## [39,] 1.099446e+00 -9.790507e-02 -0.2603067219 -1.1120040768 -0.2801224070
## [40,] 1.255083e-01 -6.746362e-01 -0.9942325972 0.0916648158 0.4665739589
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## [42,] -1.302687e+00 1.878750e+00 0.9331084826 -1.8747798364 -0.5637298159
## [43,] -2.109991e-01 -1.706910e-01 0.5556092648 1.2164482682 0.1017749491
## [44,] -1.544265e-02 -4.566364e-01 0.1935020957 -0.6099040219 1.0152156440
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## [46,] 5.209221e-01 -2.104964e-01 -0.4662715826 -1.1224990465 -2.0920891956
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## [49,] 2.067818e+00 2.269722e-01 0.8775185672 -0.4394735495 1.7427932390
## [50,] 7.508961e-01 -2.763500e+00 2.0916871329 0.8439070424 -0.3484477950
## [51,] 1.762486e+00 9.126413e-01 0.4672797715 -0.1348611569 0.0725236363
## [52,] -5.331868e-01 -5.462962e-01 1.4597810578 1.7474136104 -0.6090727626
## [53,] -2.007470e+00 -2.517862e-01 -0.6798028052 -1.0904813006 0.1523385198
## [54,] -1.065280e+00 1.437152e-01 -0.6494206216 -0.3243959331 0.0259202760
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## [57,] 1.211771e+00 -6.500628e-01 -0.0849413924 -0.3911641401 -0.3859869352
## [58,] -1.323100e+00 -7.704351e-01 1.2098452702 -0.9478391056 0.5874988909
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## [62,] 1.063331e+00 2.133000e+00 -0.7940308371 0.1323294464 0.0027953600
## [63,] -1.697378e+00 2.982006e-01 0.1759821588 2.9007603725 -1.4354670611
## [64,] -8.627136e-01 -9.711817e-02 0.6274462365 0.7613652463 -0.0369612556
## [65,] -1.569066e+00 -1.162763e+00 1.8269931301 0.5165400344 -0.1595801344
## [66,] 3.172164e-01 -1.758700e-01 -0.0365088628 -1.6046643858 0.2901717592
## [67,] -5.584475e-01 4.251752e-01 0.2534887716 0.6676657782 -1.2975052338
## [68,] 5.935739e-01 8.708357e-02 1.5511636388 -0.8186697600 1.2252949322
## [69,] -4.855355e-01 -1.399160e+00 0.3134336802 0.4055538815 0.3943564094
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## [71,] -1.901677e-01 -8.617456e-01 1.0795352010 0.7631040063 0.2626535251
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## [99,] 3.717182e-01 -8.867782e-01 0.5499026279 -0.9704035198 0.3658253602
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## [995,] -1.814505e-01 6.133910e-01 -1.9273010523 0.6458985523 1.5221677420
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## [1000,] 1.227828e+00 -9.640063e-01 -2.4024391999 -1.2005143379 -0.3027444829
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## [1524,] -8.770461e-02 -4.102036e-01 -0.3661423044 0.2618019226 -0.5466766908
## [1525,] 1.333381e-01 -4.045808e-01 -0.7516875890 0.9823325995 -1.2931708468
## [1526,] 9.975964e-01 -2.382574e+00 1.0011272955 0.0952344702 -1.2436141313
## [1527,] -9.326786e-01 6.965448e-01 0.2206581087 0.4648675449 -0.9468901256
## [1528,] -8.687156e-01 -9.047190e-01 -0.8722868137 1.5952366239 -1.6648909726
## [1529,] -6.259055e-01 -1.958267e-01 0.8971501367 0.1799570764 0.4842000949
## [1530,] 5.377480e-01 3.088558e-01 0.3657867494 -0.0457625958 -0.7447207689
## [1531,] -1.934547e+00 3.663015e-01 1.0473380727 0.7954691302 -0.7918064467
## [1532,] -2.650659e-02 -1.665038e+00 0.5544646793 -0.5495812456 -0.1302905653
## [1533,] -8.261130e-01 -1.757894e+00 -0.3922712479 -0.4928132113 -1.7485805671
## [1534,] 1.871596e+00 -6.521156e-01 1.5994345433 -0.4290540275 0.8633401576
## [1535,] 1.612773e+00 -5.666350e-01 -0.0370969847 -0.3946726050 0.5364027531
## [1536,] -2.095962e-01 9.914157e-01 -0.6980818879 -0.2983784939 0.2577009380
## [1537,] -5.372182e-01 7.153031e-01 -1.7937649844 -0.8681435185 -1.0895519988
## [1538,] 1.574311e+00 3.786702e-01 1.1803016341 -0.1090016315 -0.1136364567
## [1539,] -6.553146e-01 -3.214143e-01 -0.6665039781 1.0383491157 2.3522125915
## [1540,] -1.024614e+00 3.177773e-02 0.7667835071 0.4436159041 0.6311301447
## [1541,] -4.406360e-01 -1.216182e+00 2.1726705247 0.7703270779 0.9732093218

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```

## [1542,] -3.454647e-01 -3.404377e-01 -1.0718401975 0.9090998974 0.1921208258
## [1543,] -8.941351e-02 -7.316929e-01 0.0458883840 -0.5197643056 0.4476236959
## [1544,] 6.7778753e-03 2.587304e-01 -0.0681738458 -0.8146854002 -0.5917835458
## [1545,] -3.575674e-01 -1.039338e+00 0.0888120569 -0.6638867397 0.4670209399
## [1546,] 2.622871e-01 -9.680105e-01 -0.3684681414 -0.1222224928 1.6042221169
## [1547,] -1.916872e-01 -1.415716e-01 0.2007200060 -0.2306181338 0.8578879725
## [1548,] 2.208237e+00 1.043140e+00 0.1658003054 0.0140310052 1.9548880710
## [1549,] -7.126337e-02 1.444717e-01 2.0448748937 -0.2966228418 -1.8432219724
## [1550,] -4.699934e-01 -1.537778e-01 0.4550717935 -0.1277037931 -0.6979305989
## [1551,] -1.044940e+00 1.141499e-02 -0.9970787742 0.4330347075 -0.1493874835
## [1552,] 8.348407e-01 8.779639e-01 0.6235113095 -1.1957010672 -0.2182944186
## [1553,] 9.602730e-01 2.986480e+00 -0.2262569560 -1.2242930113 -0.8423237084
## [1554,] -1.190723e-02 5.848117e-01 -0.6034262228 -0.7889536619 0.0344856509
## [1555,] -3.554070e-01 -1.353914e+00 0.3832382544 0.7435726324 -0.0503751598
## [1556,] 5.393501e-01 1.098772e+00 -0.3242074300 -0.4167125816 0.5068464504
## [1557,] 1.127383e+00 2.866886e+00 -1.6737958059 0.1894296656 -0.7391614138
## [1558,] 8.329665e-01 -1.023502e-01 1.0851295842 -0.9170198531 -1.1029355237
## [1559,] 8.250712e-02 -1.454050e+00 -1.6914164070 0.4155893494 1.5607665614
## [1560,] -2.552433e-01 3.475204e-02 -0.9267160225 -0.1307669806 0.1187802692
## [1561,] 4.420500e-01 -1.825873e+00 -1.1055662464 -0.2011103446 0.0680139571
## [1562,] 1.689678e+00 -1.322549e+00 1.1930869899 -0.0693133293 0.9945261629
##          PC51        PC52        PC53        PC54        PC55
## [1,] -1.4546625734 -2.692515e-01 -2.776181e-01 -0.1166131982 -5.511371e-01
## [2,] -1.7043091592 1.749788e+00 2.644084e+00 0.5369133705 8.929615e-01
## [3,] 0.1832389313 1.523427e-01 8.932265e-01 -0.0180509575 5.536540e-01
## [4,] 0.8816726747 1.678539e+00 4.769510e-01 0.2566436356 -7.501070e-01
## [5,] -0.6865842267 1.684243e+00 9.311167e-01 1.1213041692 -1.713203e+00
## [6,] 0.7445606782 1.169355e+00 -7.082823e-01 -0.0905657695 2.330167e+00
## [7,] -0.7607131639 2.005515e-01 -2.311038e-01 0.3561960176 -4.770468e-01
## [8,] 1.6284319846 -1.769192e+00 -8.978221e-01 1.6836668574 7.876391e-01
## [9,] 0.1286552999 5.398731e-01 -1.299015e+00 -3.1178275428 7.437731e-01
## [10,] -1.0947001165 1.136001e-01 -1.132048e+00 -3.1010371316 -3.844045e-01
## [11,] 2.0605637373 1.563818e-01 -1.212859e+00 -1.1527948545 1.171540e-01
## [12,] -0.0879742542 -1.355470e+00 -1.333175e+00 -0.0544471511 -9.814092e-01
## [13,] 1.1034635543 2.714523e+00 3.169270e-01 -0.5702987895 -4.819349e-01
## [14,] -0.3560434017 1.326332e-02 2.810932e+00 -0.0978542097 3.517972e-01
## [15,] 1.5847062440 1.477646e+00 1.687907e-01 1.1097697762 8.203305e-01
## [16,] 1.2296744276 -7.752841e-01 1.191424e+00 0.4527631116 8.403525e-01
## [17,] -0.4993554061 7.180610e-01 -1.325398e+00 0.2627072297 -1.121738e-01
## [18,] -1.2377651433 -5.330762e-01 1.112690e+00 0.7291420913 -1.956407e-01
## [19,] -0.3161405597 -3.788255e-01 8.680760e-01 -0.5103923457 -8.836120e-01
## [20,] 0.0929526980 -4.425115e-01 1.095862e+00 -0.8116168304 2.991493e-01
## [21,] -1.5688691895 9.033444e-02 3.279859e-01 0.5900627414 1.506761e+00
## [22,] -0.7385417215 6.625269e-01 2.608408e-01 1.8200367256 -1.831124e+00
## [23,] -0.2826637444 8.481682e-01 9.279481e-01 -1.5030378753 -2.515076e-01
## [24,] -0.0930129993 -2.935740e+00 4.620293e-01 0.1847946830 -1.084270e+00
## [25,] 0.6768245424 1.008017e+00 -4.889448e-01 1.3207831880 -1.685786e+00
## [26,] 0.4050517355 1.660313e+00 8.948311e-01 -1.3818523250 -8.965150e-01
## [27,] -1.2930351311 -1.580454e+00 8.503933e-01 -1.1297617453 -4.317101e-01
## [28,] 0.8045670361 -4.345983e-02 -9.731638e-01 0.4525297684 -4.076996e-01
## [29,] -0.9319123562 2.116136e-01 -3.795157e-01 -0.9589610333 1.233032e+00
## [30,] 0.0980659439 2.100057e+00 -9.861359e-01 -0.6423405223 8.023584e-01
## [31,] -1.1968783859 3.395140e-02 1.775079e-01 0.0720277401 -8.510129e-01
## [32,] -1.6271732704 -8.408403e-01 -3.014042e-01 1.6429049920 1.348172e+00

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## [33,] -1.1989401963 1.388952e-01 -3.863721e-01 -0.4914721790 2.395376e-02
## [34,] -0.3018620518 7.385569e-01 -7.873863e-01 -0.8436070150 3.941441e-01
## [35,] 1.0148022226 -2.263347e-01 6.707328e-01 0.6812199289 -1.598815e+00
## [36,] -0.5530646508 -1.218919e+00 7.784062e-01 -0.3613034123 4.348427e-01
## [37,] -1.0858248493 -7.001607e-01 4.385061e-02 -0.5875435401 5.864486e-01
## [38,] 0.2657770398 -5.661163e-01 -2.765613e-01 -1.3173743321 2.626385e-03
## [39,] 0.3469048090 -1.127075e+00 -2.157094e+00 0.1884192318 -5.827013e-01
## [40,] 1.3131939919 -1.015767e+00 2.557709e-01 -0.1106680629 -5.525624e-01
## [41,] -0.4224112319 -4.008282e-01 -6.030906e-01 1.1788461232 -4.221464e-01
## [42,] 1.0071438806 2.350618e-01 2.586655e+00 0.4352344477 8.095405e-01
## [43,] -0.1556581235 1.260854e+00 2.469581e-01 1.0047203593 -6.329878e-02
## [44,] -0.7890511883 -2.545806e-02 2.040089e-01 0.8525203420 -8.556609e-01
## [45,] 1.5061250015 -1.349594e+00 8.044723e-01 0.6042409714 -2.480330e-01
## [46,] -0.5211748425 -1.747669e-01 1.497387e-01 1.3817818494 -2.453562e-01
## [47,] -1.0998050060 -9.570603e-01 3.706476e-01 0.5844808796 1.135363e+00
## [48,] 0.1725742362 1.108775e+00 -1.597644e-01 0.9679877885 -1.351050e-01
## [49,] -0.2961777535 -2.042994e+00 -3.423009e-01 0.4495567776 -3.689882e-01
## [50,] 3.1668427980 2.047798e+00 2.106421e-01 -0.1063677028 5.848480e-01
## [51,] -0.0073628984 1.316709e+00 1.436796e+00 -0.2519823183 -2.182982e+00
## [52,] 0.0218881007 8.937071e-01 -4.188829e-01 -0.0615961786 -1.046459e+00
## [53,] -0.5089857181 -5.624668e-01 -5.991782e-01 -0.0440736230 -1.351819e-01
## [54,] -0.7895126671 1.210445e+00 -1.870055e+00 1.4956100179 -5.400077e-01
## [55,] -0.7562237263 4.294783e-01 4.382786e-01 -0.4320946568 2.942098e-01
## [56,] -0.9633752203 7.204218e-01 -5.679824e-01 -1.2447399686 -6.925581e-02
## [57,] -1.2316030170 1.358639e-02 2.365996e-01 -0.5096523090 4.573397e-01
## [58,] 2.4541456770 1.612552e-01 -4.420905e-02 0.0600006041 -2.129491e+00
## [59,] 0.5275334833 -5.690726e-01 1.516941e-01 0.5118499967 -1.005402e+00
## [60,] -1.4215303856 -4.091846e-01 1.142654e+00 -1.0792667135 -1.231696e+00
## [61,] -1.9627982073 1.514518e+00 -2.528225e+00 -1.3073469585 -1.034347e+00
## [62,] 1.2290613134 5.577427e-01 -2.097132e-01 0.1688263911 7.930202e-02
## [63,] 1.3086391134 -1.482200e+00 -1.977923e+00 0.7364437835 -1.568833e+00
## [64,] -1.5762348228 4.294242e-01 8.287202e-01 0.4622016290 -6.133737e-01
## [65,] -0.6256876169 7.216215e-01 1.379083e-01 1.0025090586 -1.572492e+00
## [66,] 0.0039218061 -6.100482e-01 3.027922e-01 1.5667109532 -1.614033e-01
## [67,] 0.1767364308 3.075191e-02 1.315472e+00 -1.1483051625 -1.854514e+00
## [68,] -1.3325148647 -1.767586e+00 3.446963e-02 -0.3820606385 2.605395e-01
## [69,] 0.8675162916 3.883763e-01 -1.834210e+00 1.1476077079 7.405458e-01
## [70,] 0.3974349320 1.418099e+00 2.733591e-01 -0.9779255368 9.304129e-01
## [71,] -0.3470606948 -5.820396e-01 -6.222488e-01 0.8946631115 1.479961e+00
## [72,] -1.9838330655 5.717230e-03 2.561822e+00 0.6757215768 -1.449466e+00
## [73,] -0.9249800763 1.592609e+00 -3.452729e-01 0.6864454372 -4.285479e-01
## [74,] 0.0523632275 7.955767e-01 -1.662517e+00 -0.2282042362 -1.066457e+00
## [75,] 1.3369432246 -2.973831e-01 1.131407e+00 1.3305851751 -1.016113e+00
## [76,] -0.4735568706 2.540611e-01 3.962449e-01 -1.1163757055 5.063749e-02
## [77,] -0.5650699311 1.177816e-01 7.676042e-01 1.2360769485 -1.431786e-02
## [78,] 0.7939235888 -7.121325e-01 4.937210e-02 -0.3766368702 -5.420197e-01
## [79,] -0.6680365362 1.471097e+00 -3.279612e-01 1.2475860978 -6.444098e-01
## [80,] 0.4432145971 -7.796612e-01 2.882104e-01 -1.4009656517 -7.127892e-01
## [81,] 0.9337407767 1.491094e+00 -3.322154e-02 0.3237949766 -2.563799e-01
## [82,] 1.6537801668 -6.971227e-01 5.588496e-01 0.2881108559 -7.749260e-01
## [83,] -2.6490864411 6.285727e-01 -1.717564e+00 -1.2490544717 1.125369e+00
## [84,] 0.7721058657 -9.359831e-01 1.150870e-02 -0.4987998367 -5.119034e-01
## [85,] 0.4008592104 1.117115e+00 -1.074125e+00 1.3432858842 -6.881009e-01
## [86,] 0.1552132237 2.690296e-01 -6.014511e-02 0.6585313838 1.627683e+00

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## [87,] -0.1408138879 -1.414271e+00 1.195685e-01 1.1196118003 -7.768854e-01
## [88,] 1.4730899655 7.668462e-01 -3.381453e-01 -1.6049363224 4.423363e-01
## [89,] 0.5395224617 -8.626379e-01 -1.182593e+00 0.6791557338 1.296204e-02
## [90,] -0.6447805795 1.613347e+00 4.506850e-01 0.1392322012 -3.170497e-01
## [91,] 1.2275899723 1.010482e+00 4.741606e-01 0.0167012345 -5.015432e-01
## [92,] -1.3079548030 1.149479e+00 3.657264e-01 -0.4896925080 -1.186944e+00
## [93,] -0.0017969934 -5.899962e-02 5.287899e-01 -0.0717071743 3.989017e-01
## [94,] -0.7759243365 1.797796e+00 8.326283e-02 -0.6593212741 2.071337e-01
## [95,] -0.6816074307 -5.429154e-01 5.952278e-01 -0.7465207538 -1.747703e-02
## [96,] 0.3266568930 9.363194e-01 1.095513e-01 -0.0719056256 1.426292e+00
## [97,] 0.3354919810 3.290595e-01 1.228265e+00 -1.2590471917 -1.173151e+00
## [98,] 0.5479931387 1.505198e+00 -9.113863e-01 -0.4977661661 -5.069080e-01
## [99,] -0.9975047212 -1.585580e+00 -4.522301e-01 0.1218915392 7.272112e-01
## [100,] -1.0817870842 1.737066e+00 1.460894e-01 1.6892286007 -8.208369e-01
## [101,] -1.7111515313 1.982315e-01 -2.338277e-01 1.5092942461 -1.877444e-01
## [102,] 0.3277301681 1.198993e-01 6.533474e-01 -0.2778108450 4.806704e-01
## [103,] -0.4595399418 1.196700e+00 -1.371070e+00 0.3221756751 8.548081e-02
## [104,] -0.0503276340 1.106702e-01 1.494460e+00 0.3172587819 9.837878e-01
## [105,] 0.8903344021 1.786363e+00 -1.715678e-01 0.4881857058 -7.857934e-01
## [106,] 0.1122262746 1.157845e-01 1.268302e+00 -1.7030188599 -1.620219e-01
## [107,] 0.6369902348 7.286926e-01 1.224692e+00 0.4703131552 -8.497969e-01
## [108,] 2.4157501535 -1.098529e+00 1.517512e+00 -0.5688296840 -4.572017e-01
## [109,] 0.0293867427 -6.491181e-01 -4.653706e-01 0.3735219133 -1.163919e+00
## [110,] 0.7453251914 -2.877946e-02 -1.285192e+00 -0.8332402005 -1.261046e+00
## [111,] 0.7140098630 4.088070e-01 -1.009087e+00 0.2802585955 2.464731e-01
## [112,] 0.3516659658 -1.257457e+00 -1.050158e+00 0.5987007973 1.006101e+00
## [113,] 0.1121082595 6.796623e-01 4.538938e-01 -0.2538005434 -8.982823e-01
## [114,] -1.3934245762 -5.385750e-01 9.792641e-01 -1.0887677674 2.469659e-01
## [115,] 0.9645038767 -2.205309e+00 1.557611e+00 -2.6201818234 -1.463743e+00
## [116,] -2.3028841479 -2.387916e-01 -9.201220e-02 -0.8016107532 1.625124e+00
## [117,] 0.1112561027 5.329115e-01 -3.716395e-02 -0.7156660569 -2.116829e-01
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## [119,] 0.6992077496 -3.954689e-01 5.439936e-01 -1.4918765243 7.357224e-01
## [120,] 0.0975542159 -1.937273e-01 -6.953156e-01 -0.7866615509 7.478443e-01
## [121,] -1.4365363639 6.152335e-01 -1.275231e+00 -0.3097699409 1.471923e+00
## [122,] -1.4319776161 9.622887e-01 5.148678e-01 -1.3606102291 -6.565451e-01
## [123,] 1.6616379101 -1.663484e-04 6.277180e-01 0.1143831749 -1.431217e+00
## [124,] 0.1199304814 -9.483178e-01 5.887384e-01 1.5465680975 -9.402504e-01
## [125,] -1.0724743521 -2.233699e+00 -6.076520e-01 1.6844010643 1.905718e-01
## [126,] -0.1405625544 6.036178e-01 -9.959553e-01 -0.8633881606 6.004775e-01
## [127,] -0.8560637441 1.761092e-02 2.731538e-03 -0.9905646457 1.104769e+00
## [128,] 0.0086035493 -6.415190e-01 -8.874254e-01 0.1106307167 -1.403751e+00
## [129,] 0.1947814051 -1.437321e+00 -1.238729e+00 -0.1827167208 -2.096898e+00
## [130,] 0.9618975556 1.446627e-01 -1.412121e+00 -0.7128639280 -8.154536e-02
## [131,] -0.9128977458 -1.253271e+00 6.067986e-01 -0.5412793064 -1.440533e+00
## [132,] -0.7471180040 -9.132662e-03 1.820501e-01 1.7427626487 3.219985e-01
## [133,] -0.7645710923 4.548337e-01 1.245451e+00 0.5260879461 -3.449008e-01
## [134,] 2.4509756692 -1.255055e+00 1.145481e+00 0.2593151584 -9.803440e-01
## [135,] -0.6643936314 4.045760e-01 -1.390116e+00 -0.5403144497 -8.852916e-01
## [136,] -0.3607335822 4.219673e-01 -1.758833e+00 1.7845951119 -3.257259e-01
## [137,] -0.4892179079 -5.061632e-02 1.088653e+00 -1.7195322572 -1.244488e+00
## [138,] -0.8061529179 6.556077e-01 -1.876119e+00 1.3247280364 6.764462e-01
## [139,] -0.3579066207 1.443984e+00 -1.713264e+00 1.3647451613 -5.330979e-01
## [140,] -2.3741569274 -1.283649e+00 -1.305168e+00 0.2930259154 -2.385533e+00

```

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## [141,] -0.1443591721 1.439112e+00 -1.273735e+00 0.9577318648 -8.185242e-01
## [142,] 0.8231559805 -5.941524e-01 -6.998021e-01 1.0471421158 5.226520e-01
## [143,] -0.1651405909 2.014360e+00 1.598983e-02 1.2337875642 -1.673499e+00
## [144,] -1.0441365419 -4.940549e-01 -5.299822e-02 0.0767328613 -8.030250e-01
## [145,] -0.6939737477 -1.342151e+00 7.236068e-01 1.5929262612 -5.788216e-01
## [146,] -1.2584639074 -1.102308e+00 1.304500e+00 -1.7672543394 1.920612e-01
## [147,] 0.8640563619 3.497170e-01 2.099812e-01 0.4472447839 -3.588449e-01
## [148,] -0.4891052467 3.294787e-01 9.132200e-01 -0.0123505658 -8.151627e-01
## [149,] -1.2738707154 1.158653e+00 -1.978576e+00 0.2931730410 -9.627314e-02
## [150,] 0.0403857256 1.300961e+00 -2.944527e-01 1.1294853495 -6.958380e-04
## [151,] 0.2154486013 -4.628123e-02 -4.103356e-01 1.7254468140 -3.884350e-01
## [152,] 0.1239700161 -3.105732e-01 9.740208e-01 -1.2011688902 -4.711338e-01
## [153,] 0.1901087159 -7.088980e-01 -4.775597e-01 2.2181915675 -8.311622e-01
## [154,] -0.5988658380 -1.742459e+00 7.549784e-01 -1.5231091645 -6.043271e-01
## [155,] 1.0062802785 3.198971e+00 4.722679e-01 0.2873441352 -8.152522e-01
## [156,] -0.0491916108 -6.246846e-01 -9.816942e-01 1.7091823019 1.209025e+00
## [157,] 0.4601467675 1.757112e+00 1.151292e+00 0.7506516627 5.282685e-03
## [158,] -0.3738529696 7.197960e-01 1.125480e-01 -1.0510520469 -8.589519e-01
## [159,] 1.4739442775 -2.642099e-01 -9.744078e-01 -0.1389934040 -2.775552e-01
## [160,] 1.4058336092 2.779602e-02 2.641544e-01 1.4254686358 1.645503e+00
## [161,] 0.2324564507 -7.312451e-01 3.084125e+00 0.2690329870 -7.380221e-01
## [162,] -1.0595985103 3.395883e-01 1.675806e-01 2.4551275634 -5.240458e-03
## [163,] -0.7391815482 -1.033185e+00 -1.109102e+00 -0.8870955816 7.952046e-01
## [164,] -1.3543174546 3.672662e-01 2.889093e-02 0.1647210750 -1.124575e+00
## [165,] -0.1173369817 -1.031255e+00 5.279822e-01 0.8973010116 1.329277e-01
## [166,] 1.4812471635 -9.312888e-01 3.086589e-01 0.2574462691 -3.230381e-01
## [167,] 2.0127563371 -2.034844e+00 1.937913e+00 0.1830996291 -1.871574e-01
## [168,] 0.2543440966 7.174060e-01 9.465418e-02 -0.1131800168 1.439867e+00
## [169,] 0.5431748420 -8.773935e-01 -1.251331e+00 0.1591826650 -1.201860e+00
## [170,] -0.9128624169 1.112187e+00 -1.207863e+00 0.2884982956 -1.444986e-01
## [171,] -0.8808933310 -1.395915e+00 1.191529e+00 -0.1628681497 -1.003772e+00
## [172,] -0.8758386724 -6.403747e-02 -1.326005e-01 -0.9459602328 1.637538e+00
## [173,] 0.0964058947 1.243943e+00 -3.337278e-01 1.2536262289 -4.887084e-01
## [174,] 0.0575627234 8.740157e-01 -6.961292e-01 -0.3787580673 -4.465193e-02
## [175,] -2.0812861739 1.816134e+00 -3.911575e-01 0.6848883221 6.629970e-01
## [176,] -0.8602604828 -4.941243e-01 1.037759e+00 -0.4466175124 2.984043e-01
## [177,] -0.7768811799 1.390429e+00 4.820933e-02 -0.0798425234 -4.903860e-01
## [178,] 1.5328780565 -1.154206e+00 -2.348632e-01 1.0168734298 4.282314e-01
## [179,] 1.1155716108 8.583860e-01 2.789051e-01 -0.5803737657 1.189349e+00
## [180,] -0.4255686783 -3.789931e-01 9.042745e-01 -0.6790773544 -9.375076e-01
## [181,] -0.0598941972 4.817953e-02 4.169683e-01 -0.6408096082 4.111022e-01
## [182,] -0.7580637246 1.655537e+00 -7.711872e-01 -0.7687547621 1.573047e-01
## [183,] -0.0769393345 1.278416e+00 6.124772e-02 2.5398512218 1.522449e+00
## [184,] 0.6822461587 -6.386232e-01 -1.963236e-01 -0.0025631773 6.576498e-01
## [185,] 0.0865524667 1.274676e+00 1.737009e+00 0.6916341765 1.614735e+00
## [186,] 0.7741463450 9.283226e-01 -1.360478e+00 0.0782089029 1.318411e+00
## [187,] -0.1983469196 -2.268123e-01 -4.829384e-01 -1.7576734934 4.805199e-01
## [188,] -0.5608377823 1.346261e+00 -6.964912e-01 1.2678260379 -8.543702e-01
## [189,] 0.1949013400 -1.484303e+00 7.996069e-01 0.4161213037 -5.729691e-01
## [190,] 0.3708266482 9.216803e-02 -7.961985e-01 -0.5140141573 -8.542288e-01
## [191,] -0.0154176625 -5.261544e-01 -4.750840e-01 -0.3418693769 1.384599e+00
## [192,] -1.5881552090 1.169236e-01 -2.530760e-01 -0.1287788227 5.793008e-01
## [193,] 0.2097826201 1.123859e+00 -2.751918e+00 -1.0335233205 1.082329e-01
## [194,] -0.4512018780 1.696671e-01 8.430841e-01 1.6145714397 7.193803e-01

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## [195,] -1.2493869364 2.547553e+00 -1.613216e+00 -0.6854822700 3.243589e-02
## [196,] -1.3091311782 8.874857e-01 -2.238724e+00 0.8624616666 7.566488e-01
## [197,] -1.9838405190 -1.651120e+00 -1.496262e-02 2.0512497660 -2.033360e+00
## [198,] 0.2692239316 -3.818299e-01 -4.898506e-01 1.0629909106 -4.304767e-01
## [199,] -0.2748267574 -1.661586e-01 1.930229e+00 1.7585139020 9.272396e-01
## [200,] 0.9926207367 2.170763e+00 -6.108577e-01 -2.1849078065 8.919023e-01
## [201,] -0.5133198548 2.794778e-01 -3.446401e-01 -0.3089726033 8.467383e-02
## [202,] -0.4459492866 1.194779e+00 -2.479251e+00 0.2673064496 2.378068e-01
## [203,] -0.3399127629 1.029442e+00 1.782226e+00 0.0239900858 5.970686e-01
## [204,] 0.4900110514 -6.193582e-02 1.997702e-02 0.0743410887 1.630953e-01
## [205,] 0.0961572585 5.746186e-01 6.508195e-01 0.6027829975 -6.035842e-01
## [206,] -1.3271515786 7.594564e-01 -1.276712e-02 -1.2400415778 8.787735e-01
## [207,] 0.4149764739 -2.544466e+00 -2.549290e-01 0.5828052952 -9.496427e-01
## [208,] -0.9601030888 1.208556e+00 1.079878e-01 -0.6057491763 2.776943e-01
## [209,] -0.1351382732 -1.594752e+00 1.656442e+00 -0.9189143428 -2.051911e-01
## [210,] -1.4773755266 -9.033233e-01 1.445721e+00 -0.8450082718 6.181234e-01
## [211,] -0.7451569840 2.973565e-01 -1.277148e+00 1.1763535701 -6.669498e-01
## [212,] -0.1407241819 3.173780e-01 -9.162226e-01 -0.4781648451 1.150783e+00
## [213,] -0.0095745313 -4.012975e-01 -4.408625e-01 -0.2522591006 -2.908429e-01
## [214,] 1.1736913466 1.076754e-01 -1.250480e+00 0.2926150590 4.579727e-02
## [215,] 0.7985833197 2.302963e+00 2.437654e+00 0.0150967556 -2.440718e+00
## [216,] -1.2360451424 1.263475e+00 1.176387e-01 1.2428565399 1.905318e+00
## [217,] -0.1007285808 -1.205198e+00 1.079146e+00 1.3583102218 1.331023e+00
## [218,] -1.1297337357 8.154922e-01 -2.541194e-01 -0.4864730191 1.528360e+00
## [219,] -2.2303909427 2.761414e-01 -1.068215e+00 -1.2038589408 2.891482e-01
## [220,] 0.1722814568 4.604098e-01 -1.304492e+00 0.1399927671 -5.440167e-01
## [221,] -0.7635471654 1.467133e+00 -5.180791e-01 0.8110784826 -1.288342e+00
## [222,] -0.6876409382 -3.034414e-01 -1.145236e+00 0.1817498382 -9.923783e-01
## [223,] -0.9338154899 2.557656e-01 6.235471e-01 -1.1295348759 -5.287784e-01
## [224,] 0.9053053376 7.538822e-01 -1.577555e+00 -0.1952285794 -2.813371e-01
## [225,] 0.3901923489 3.757193e-01 7.799055e-01 0.5548924939 2.971186e-01
## [226,] 1.6714144400 -1.393887e+00 1.433542e+00 -0.0761970312 -2.611274e-01
## [227,] 1.2080081021 -1.658520e+00 -2.741065e-01 -0.7705133700 -1.067800e+00
## [228,] -0.9040786617 6.048332e-01 -5.191535e-02 -0.3905007588 -6.778213e-01
## [229,] 0.3172227528 -1.359355e+00 -1.181771e-01 -1.3752731389 -3.828406e-01
## [230,] -0.4154403054 1.780076e-01 -9.676244e-01 -0.6384942551 1.013469e+00
## [231,] 0.2518938097 1.549824e+00 8.003371e-01 -0.6325323554 -1.409537e+00
## [232,] -0.0467935503 9.304971e-01 7.443646e-01 -0.8187335046 3.442795e-02
## [233,] 0.0510888398 -1.145149e-01 -1.353172e+00 0.9595767499 -8.089625e-02
## [234,] -0.5725159173 -9.881195e-01 1.497692e+00 -0.2615029389 -5.451289e-01
## [235,] 1.8056442116 4.362651e-01 1.184487e+00 0.5175857597 1.934085e-01
## [236,] 1.4693679064 -1.414650e-01 5.665210e-01 0.0683278998 -2.039317e+00
## [237,] 1.1248247434 2.456147e-01 -1.637760e-02 -0.5558179876 -3.092042e-01
## [238,] 0.9076116623 1.506082e+00 6.985677e-01 0.6461898528 2.524987e-02
## [239,] 0.2944724889 -5.028568e-01 1.028123e+00 -2.8502539958 -1.080396e+00
## [240,] -0.7958592376 4.921999e-01 1.455190e+00 1.5693935760 -2.481407e+00
## [241,] 1.9796355057 6.398747e-01 -1.228388e+00 -0.0532591224 9.173914e-01
## [242,] -0.5895440069 -1.267722e+00 3.315383e-01 0.3123579072 -1.189021e-01
## [243,] -0.1633248934 1.690942e+00 -7.920111e-01 0.1357174184 -4.793942e-01
## [244,] 2.0825897641 -9.925888e-01 2.224402e-01 0.0917685882 -1.129443e+00
## [245,] -0.7132619663 -1.204357e+00 9.097442e-01 1.1212528303 2.110726e-01
## [246,] -1.2471833876 4.216259e-01 -2.474100e-01 0.5090311664 -8.186660e-01
## [247,] -0.5153476583 -5.583341e-01 -1.463872e+00 1.0492322474 1.044819e+00
## [248,] 1.3010347364 1.895276e+00 3.026639e-01 -2.2276145601 7.427545e-02

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## [249,] -1.0823026418 5.122890e-01 5.552282e-01 0.4282590472 1.337449e-01
## [250,] -0.2039368246 -6.174890e-01 -1.958843e+00 -1.1613537722 -4.613346e-01
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## [253,] 0.2503490910 3.484728e-01 -2.051546e+00 -0.3600893216 6.824668e-01
## [254,] -0.2927785025 -1.441357e+00 -1.266789e-01 -1.5336394308 1.093812e+00
## [255,] 1.2236033642 -2.739165e-01 1.334562e+00 0.2647708217 4.317964e-01
## [256,] 0.7661841579 7.260371e-01 2.567621e+00 0.2820473943 -2.348497e-01
## [257,] -0.3378818125 -1.920049e+00 -1.213778e+00 -0.0015409202 -7.503187e-02
## [258,] -1.2341641168 -5.331947e-01 1.104697e-01 -1.0196913415 4.754616e-01
## [259,] 0.0613437313 2.256010e+00 1.291348e+00 1.5261737777 1.390527e+00
## [260,] -0.2459142769 -9.416419e-01 -1.336285e+00 -1.0678067987 6.877750e-01
## [261,] 0.5524444597 2.276100e+00 1.961196e-01 0.7641375625 -9.332519e-01
## [262,] 0.2840447136 -1.398943e+00 -1.367025e-01 0.9431740007 1.059713e+00
## [263,] -0.4280093888 6.787267e-01 -2.061874e+00 0.0362220234 -1.635362e-02
## [264,] -3.0644505396 1.389998e+00 -1.292754e+00 -0.5880424736 3.446600e-01
## [265,] 0.7620749463 1.209540e+00 1.982357e+00 -0.2032503694 -1.047094e+00
## [266,] 0.0097468666 -1.117185e+00 -3.834473e-01 0.0668331952 -1.436991e+00
## [267,] -0.9134763592 2.327410e+00 5.476746e-01 0.4699265779 -1.156853e+00
## [268,] 0.1330566138 -3.573279e-01 -4.615556e-01 -0.6637088661 4.755371e-01
## [269,] 1.4556233700 4.052124e-01 -1.547601e+00 -1.1308084561 -1.021619e+00
## [270,] 0.1847750630 1.325097e+00 -1.848023e+00 1.5160121659 7.893373e-02
## [271,] -0.8053877704 1.519679e+00 -6.605370e-01 0.1556887848 -1.630474e+00
## [272,] -1.0822519586 3.150258e-01 1.474429e+00 0.7888056706 -4.414260e-01
## [273,] -2.1479163510 -7.748322e-01 -5.035435e-01 -1.4097952260 5.224808e-01
## [274,] -0.8247142710 -7.570224e-01 4.347219e-01 1.1660465096 -1.352721e+00
## [275,] 0.7015318553 2.297228e-01 4.638152e-01 1.8266193592 4.979827e-01
## [276,] -0.6677597623 -2.902031e-01 4.967500e-01 -0.9946506725 2.271135e+00
## [277,] -1.2574807379 -9.312557e-01 7.627978e-01 -0.0806274074 -2.732120e-01
## [278,] -0.2698249627 -9.611042e-01 4.771529e-01 -0.3530883504 -3.240353e-01
## [279,] 1.2950914938 6.682909e-01 -2.774919e-01 -0.4629183568 -1.050458e+00
## [280,] -0.7858406522 1.111023e+00 -7.063392e-01 0.9229505074 -6.876315e-01
## [281,] -0.4340858269 1.161073e-01 -2.243587e-01 0.8765345738 -8.810922e-01
## [282,] -0.3727902772 -1.868316e+00 -9.573439e-01 -0.8487807036 -6.598321e-01
## [283,] -0.9955696607 1.412637e-01 -2.023048e-01 0.0242952658 -2.667224e-01
## [284,] 0.2181955199 8.499102e-02 1.746245e+00 -0.6054103955 -1.978847e-01
## [285,] 0.5631554681 -2.528418e-01 -1.740276e+00 -0.4208518883 1.305330e+00
## [286,] 0.8471056662 1.698100e-01 -3.027477e-01 -0.8633075148 9.764287e-01
## [287,] -1.3717172993 5.299541e-02 2.046784e-03 0.8514477747 1.702017e+00
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## [289,] -0.8596081362 -8.971706e-01 -4.246094e-01 0.0491387073 6.001853e-01
## [290,] 1.2084305179 -7.305953e-01 -2.416266e-01 0.1589357504 1.458175e-01
## [291,] -0.9002210297 4.633600e-02 1.328110e+00 0.5829123859 7.938576e-01
## [292,] -0.2274323049 1.563927e+00 -8.752212e-01 -0.0618903008 4.227165e-01
## [293,] -0.3078096294 -6.577477e-01 1.031640e+00 0.5561802622 -1.698510e-01
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## [295,] 0.3029943218 1.429844e+00 -3.666149e-01 1.3587269333 1.743801e-01
## [296,] -0.4202563566 -4.688026e-01 -9.231988e-01 -0.6975635678 6.087721e-01
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## [298,] -1.1727351515 -1.883955e+00 -1.196452e+00 -1.3874919101 -1.208504e+00
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## [300,] 0.3034326514 8.089105e-01 -7.673019e-01 -1.3295444018 -1.316332e+00
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## [302,] 0.8665993787 -1.020759e+00 -1.832161e+00 1.0820480774 -6.273630e-01

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## [303,] -0.6254385124 7.589943e-01 -2.256843e-01 -0.0564495663 5.021771e-01
## [304,] -0.0403521146 -2.982321e-02 -2.851865e-01 -0.5151990064 2.335698e-01
## [305,] 0.5118900412 1.425634e+00 5.300294e-03 -2.3847067798 1.104308e+00
## [306,] 0.2978478882 -2.012725e+00 1.387102e+00 -1.4625541215 -7.372851e-01
## [307,] -0.3775183783 3.745125e-01 1.949382e+00 -1.5556163886 -3.087682e-01
## [308,] 0.7739440612 -6.523600e-01 -3.884794e-01 0.7417726636 -8.502823e-01
## [309,] -0.5327517056 -2.356198e-01 -1.517027e+00 1.9360775394 -8.489421e-01
## [310,] -0.1969327216 -3.573458e-01 2.303866e-01 -0.5671764672 -2.854096e-01
## [311,] -0.6162690165 -1.119736e+00 -4.513357e-01 0.2502950666 -2.175110e+00
## [312,] -1.0824520266 8.331228e-01 9.388103e-01 -0.8254458201 -2.066157e-01
## [313,] -0.2046927117 1.984220e+00 -4.626356e-01 -0.1666830320 -1.220350e-01
## [314,] -0.3421899110 -2.158523e-01 1.917528e+00 -1.5404812786 -1.185610e+00
## [315,] -1.7938178489 3.222682e-01 1.457740e-04 -0.3091752164 -3.104901e-01
## [316,] 1.0133847067 -6.876891e-01 1.381241e-01 0.6465917498 -2.492609e-01
## [317,] -0.8249927898 1.641636e+00 3.235631e-01 -0.6384509117 4.369901e-01
## [318,] -1.4772836490 9.314726e-01 -9.787186e-01 -0.8282131708 3.769948e-01
## [319,] -0.2072511283 1.419003e+00 -8.139845e-02 0.8438276900 -1.226766e+00
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## [322,] -0.2277556824 1.823990e+00 1.693599e+00 0.9863795179 -1.466671e+00
## [323,] 0.0497915742 -1.057802e+00 -1.588658e+00 -0.6898793716 -6.110424e-01
## [324,] -0.5731984872 5.134796e-02 -5.066798e-01 -0.4736192897 -1.017765e+00
## [325,] 0.6354168785 1.449738e-01 7.422261e-01 0.1414065630 -7.803643e-02
## [326,] 0.3796560100 6.531144e-01 -1.086112e+00 0.1903234680 -1.024035e+00
## [327,] 0.6434056724 -1.590698e+00 -9.314452e-01 -0.5958324206 -4.539894e-01
## [328,] -0.0678072262 -4.437077e-01 -4.682488e-01 0.6942739894 -1.118447e-01
## [329,] 0.6009957540 4.618188e-01 5.586713e-01 1.3058125124 -2.786692e-01
## [330,] -0.2216136166 1.214683e+00 -3.498290e-01 1.4414388955 -3.570675e-01
## [331,] -1.1373715845 4.477364e-01 1.482806e+00 0.2865614440 1.268617e+00
## [332,] -1.3253297201 -1.353640e+00 -6.863082e-01 -0.2962664849 -1.606001e+00
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## [335,] 1.3949264860 1.187987e-01 -1.802387e+00 0.5486517352 7.654321e-01
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## [340,] 0.4427215091 -1.068762e-01 9.345902e-01 1.3519784227 -2.817853e+00
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## [367,] 0.0520538246 -1.628462e+00 -4.406015e-01 -0.9625439215 -7.683393e-01
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## [375,] 0.9953445745 4.245154e-03 -4.056521e-01 0.4755084410 -2.066442e+00
## [376,] -0.7989845034 2.432057e-01 -6.545730e-01 1.6738220909 2.724089e-01
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## [380,] 0.2345965847 -1.096186e+00 -9.938630e-01 0.4268096494 1.185350e+00
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## [423,] -1.9798158594  5.240610e-01 -3.578140e-01 -0.7314131903  1.472102e+00
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## [425,] -0.8645227183 -2.434020e+00  1.236982e+00  0.4561747064 -1.718955e+00
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## [427,] -0.5396905633  9.479491e-01 -4.678051e-01  0.8899453491 -5.298376e-01
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## [429,]  0.0849235315 -1.387519e+00 -3.050213e-01 -0.4894106766 -5.233450e-01
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## [440,] -1.9355884342 -9.218525e-03 -2.134163e-01  0.8712942002  2.566091e-01
## [441,] -1.3718224481  5.550659e-01  9.428400e-01  1.8286910338  1.514900e-01
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## [452,]  2.8239448517 -5.108322e-01  2.827048e-01  0.3140077601  3.153590e-01
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## [454,] -1.1453841763  4.746832e-02  5.439950e-01 -0.9137678053  6.989024e-01
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## [465,] -0.6760898846 5.167090e-01 -6.667612e-01 -1.3315810465 1.014282e+00
## [466,] -0.0012869933 -5.276403e-01 -5.145390e-01 0.1250441397 7.030893e-02
## [467,] -1.7393565811 1.099091e+00 7.064756e-01 1.0613041645 2.765263e-01
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## [474,] -0.3190940887 1.728177e+00 8.541797e-01 1.2909577421 -1.737426e+00
## [475,] -0.1402125737 3.986933e-01 -2.889329e-01 -1.4131833139 -7.725347e-01
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## [479,] 0.8716820828 -6.606487e-01 3.827723e-01 0.5922102777 7.436639e-01
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## [499,] -1.0392361952 -6.474720e-01 -7.235680e-01 1.9548996990 1.500875e-01
## [500,] -0.2943309978 1.150293e-01 2.793382e-02 -1.1471545404 1.127622e+00
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## [515,] 0.7763992769 1.121290e+00 -3.333372e-01 -0.9794882794 1.422251e-01
## [516,] -0.8475392300 7.614443e-01 -4.827446e-01 0.9454231126 -7.219918e-01
## [517,] 0.1000959648 -5.129923e-01 -2.019477e+00 1.1402556234 5.989841e-01
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## [573,] 0.3307140992 1.232448e+00 1.958841e-01 0.4305403616 1.506543e-01
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## [584,] -1.3513954855 1.280589e+00 -1.283424e-01 -0.4334827971 -5.541991e-01
## [585,] 0.2360745193 4.157528e-01 -8.211723e-01 -0.2024683111 3.069962e-02
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## [673,] 2.5713976643 -2.559048e-01 -1.600532e+00 0.2736680240 -1.863936e-02
## [674,] 0.5326407812 -1.146869e+00 -1.305909e+00 0.2326419350 -9.179553e-01
## [675,] 0.5553834041 -2.571337e+00 3.576293e-01 -0.0963099164 -8.369167e-01
## [676,] -1.1542626974 -1.874244e+00 -2.028227e-01 0.2069288506 1.136275e-01
## [677,] -0.2843961685 2.058349e-01 2.022561e-01 0.8783135959 -5.091773e-01
## [678,] 0.1182389026 -1.327354e+00 -9.610706e-01 1.9084843965 9.507661e-02
## [679,] 0.4219226036 -4.357302e-01 -9.640184e-01 -1.8682692689 3.739697e-01
## [680,] -0.0648137633 -4.717235e-01 -2.189401e+00 -0.7327382953 1.172670e+00

```

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## [681,] 0.9534666760 1.655338e+00 1.003115e+00 -0.4809591595 -2.842140e-01
## [682,] -1.0988311390 1.166777e+00 7.109532e-01 1.0932598004 5.468297e-01
## [683,] 0.6341320173 2.565271e-01 -1.109277e+00 0.5152762310 1.058770e+00
## [684,] 0.4737798207 2.779092e-01 -1.549431e+00 0.1134118798 -6.734063e-01
## [685,] -0.8034837250 4.419177e-01 1.343337e+00 -1.3671976164 3.663043e-01
## [686,] -0.4592618177 1.807413e-01 1.049086e+00 0.1308414210 5.376781e-01
## [687,] 1.9773462600 2.921824e+00 2.070859e-01 1.9134400078 -1.433818e+00
## [688,] -0.3316807889 -2.918939e-01 -7.222861e-01 -0.6571584258 -8.534587e-01
## [689,] -0.8987758646 -2.291346e-01 -6.259213e-02 -0.7412369216 -8.392523e-01
## [690,] 0.8411913346 -1.213390e+00 -1.384052e-01 0.1900996852 1.274896e+00
## [691,] -1.0847832177 -2.039664e-01 1.086083e+00 -0.5075868182 -8.495039e-01
## [692,] -0.8948211895 -7.044412e-01 5.276319e-01 -0.1346987646 -2.086619e+00
## [693,] -1.1516761820 3.867524e-01 1.197720e-01 0.2595305962 -1.736956e-01
## [694,] 0.9120918651 -1.315507e+00 1.727403e+00 0.1517023241 -5.030750e-01
## [695,] 0.3977455979 7.012276e-01 -1.571524e-01 0.0532916811 -5.108742e-01
## [696,] -0.0544909778 -2.746797e-01 2.338456e+00 -1.0680376036 3.189130e-01
## [697,] -0.0777847022 1.050141e+00 1.759903e-01 0.6210560043 1.683246e+00
## [698,] 0.4633284804 -1.217703e+00 -4.782283e-01 -0.5936257117 -1.255504e+00
## [699,] 0.7370225998 -7.444791e-01 -1.642708e+00 -1.2414494497 1.518275e+00
## [700,] -1.2122801924 -3.471963e-01 -5.083837e-01 -0.8726602440 5.451614e-01
## [701,] -0.1516506489 -1.555199e-01 9.295489e-01 -0.8038806020 2.424736e-01
## [702,] -0.0296817230 -1.032057e+00 7.662633e-01 0.2720187431 5.608451e-01
## [703,] 0.8339038718 -1.395739e+00 -1.107199e+00 -1.1128819955 -5.869297e-02
## [704,] 1.5206280985 -1.078437e+00 -3.615533e-01 0.2421475084 -4.959947e-01
## [705,] -0.1362216987 1.272180e-02 -1.258530e+00 1.1884544940 7.671489e-01
## [706,] -0.7584650039 8.849087e-01 -1.847113e+00 1.7985173429 -2.904534e-01
## [707,] 0.9113623876 -1.000995e+00 1.331661e+00 0.6975802282 7.339346e-01
## [708,] -1.6131995775 -1.295242e-01 -1.050462e-01 0.9905611801 4.381517e-01
## [709,] -0.3711375110 2.577920e-01 -1.255778e+00 1.7569983625 -1.269781e+00
## [710,] -0.3391508748 -1.376871e+00 -7.766040e-01 0.5022136219 -1.118289e-01
## [711,] -0.7353142234 1.165564e+00 -2.307345e-01 0.8131142428 -2.432828e+00
## [712,] 0.7962962270 1.370737e+00 4.926908e-01 0.3968797654 -1.001719e-03
## [713,] 0.3711420871 -1.175014e+00 3.770860e-01 -0.7192985917 -8.853182e-01
## [714,] 0.4372154549 -1.178224e+00 -9.840787e-01 0.9777067397 -2.902266e-01
## [715,] 0.1971968099 3.176153e-01 1.299037e+00 -0.6399648435 -2.855314e-01
## [716,] -0.0280038538 4.914968e-01 -1.579855e+00 -0.3331084641 -1.350172e-01
## [717,] -0.3972269717 3.440739e-01 1.152578e+00 0.2899232519 2.569032e+00
## [718,] -0.0786008966 -1.581210e+00 1.784835e+00 0.0078483663 1.318137e+00
## [719,] 0.6098833127 3.099101e-01 -2.405833e-01 -0.9356347917 7.585367e-01
## [720,] 0.1221801538 -1.419005e+00 2.953900e-01 0.5795884321 7.449693e-01
## [721,] -0.2622497665 8.702228e-01 -4.030919e-01 1.4157237943 1.871525e+00
## [722,] 0.1182688671 -7.145614e-01 6.780451e-01 -0.1299874691 2.621348e-01
## [723,] -0.5905872417 -1.692349e+00 2.701125e-01 -0.8094261642 -9.158633e-01
## [724,] 1.1964092744 5.281054e-01 1.005611e+00 1.1269442310 -4.051073e-01
## [725,] 0.7275157858 -1.536632e+00 -6.589720e-01 -0.6130832205 9.421955e-01
## [726,] 0.4041133204 1.226890e+00 -2.944132e-01 1.2047262091 -8.504541e-01
## [727,] 0.8631438353 -9.981787e-01 -1.111417e+00 0.3324201885 1.354201e-01
## [728,] -1.4760391425 1.280547e-01 8.035475e-01 -0.5971339476 1.923160e+00
## [729,] -0.5194902219 1.704269e+00 -1.538067e-02 0.0352264897 -3.963753e-01
## [730,] -2.0208098070 1.678349e-02 1.432969e-01 0.2821540173 -1.575665e-01
## [731,] -0.5846271501 -2.042894e+00 2.404280e-01 1.5212942058 -1.739596e-01
## [732,] 0.2934804113 7.548887e-01 -1.255026e+00 1.5117467516 -5.919277e-01
## [733,] 1.2884798566 1.189538e+00 1.922375e+00 -0.1446391842 8.792449e-01
## [734,] 0.0583876383 1.475312e+00 -1.316734e+00 -1.5763539799 4.423331e-01

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## [735,] -0.4811025270 -9.595356e-01  3.345579e-01 -0.5220986264 -8.300371e-01
## [736,] -0.0623071902 -4.188304e-01  1.680454e-01 -1.1164073475  1.289129e+00
## [737,]  1.2417353166  4.740513e-01  9.542396e-01  0.9733933571 -1.633828e+00
## [738,]  0.1833715592  3.446160e-01 -1.643554e+00 -0.2695468541 -8.834378e-01
## [739,] -0.1625680283 -2.037205e+00 -1.686113e-01 -0.6736997126 -4.324562e-01
## [740,] -1.4536812872 -3.956834e-01  1.093126e+00 -1.0411760958  1.220695e+00
## [741,] -1.1782066007  8.538910e-01 -1.176253e+00 -0.9008018687  3.362573e-02
## [742,]  0.3352940790  3.416006e-02 -9.098110e-02 -0.3934897488  1.594476e+00
## [743,]  1.2793279799 -1.187323e+00 -1.540358e+00  0.7260283561 -6.076436e-01
## [744,] -0.7791149768  1.194460e+00  2.302131e-01  0.6691596533 -3.369683e-01
## [745,]  1.9476379760 -4.747948e-01  7.701351e-01 -1.5709226255  4.646927e-01
## [746,]  1.5099753611 -1.510075e-01 -8.424018e-01  0.2750059747  4.094660e-01
## [747,]  0.4323274845 -2.340922e-01 -1.287284e-02  0.6627766307  9.652837e-01
## [748,]  0.4449507358 -6.499933e-01 -1.914215e+00 -0.5069995756 -1.238367e+00
## [749,] -0.3491677791 -2.928190e-01  9.569064e-01 -0.8001526389  3.151744e+00
## [750,]  0.9811565981 -2.402376e-01  1.622388e+00  0.3226525879  1.663865e+00
## [751,]  1.3664465197 -9.314217e-01  1.275685e+00 -0.3587610732 -4.869554e-01
## [752,]  0.8123979372 -3.083116e-01 -3.640805e-01 -0.2691809698 -5.623017e-01
## [753,]  0.6699800635 -1.894791e+00  1.437654e+00 -0.8083081325 -2.864744e-01
## [754,] -0.1439223956  1.259643e+00  1.165972e+00  0.6406057088  1.555028e+00
## [755,] -0.3728247784  5.557258e-01  1.018780e+00  0.0797127683 -1.442529e+00
## [756,]  0.2783299446 -2.922050e-01 -2.109077e+00  0.2082205990 -2.376280e-01
## [757,]  0.7944142038 -1.384819e+00 -9.220886e-02 -0.8691304277  1.482330e+00
## [758,] -0.2012393307  1.010777e+00 -9.189430e-01  0.9205999013 -3.249854e-01
## [759,]  1.2498746304 -2.017941e-01  1.658396e-01 -0.5511227233 -1.905905e+00
## [760,]  0.6123600147  8.811870e-01  9.928602e-01 -0.5841711471  1.090098e+00
## [761,]  0.6219049137  2.176336e+00  2.089644e+00  0.5427745996 -2.220065e+00
## [762,]  0.0574807711  7.657049e-01 -1.281783e+00  1.0277535456  1.708698e+00
## [763,]  1.6742813985 -9.039127e-01  5.157333e-01 -0.7731010817 -8.740115e-01
## [764,] -0.1793425812 -6.860910e-01  5.855387e-01 -0.9250659963 -8.394033e-01
## [765,] -0.0732175753 -5.699850e-01 -9.107797e-01 -0.6041811533  1.478423e+00
## [766,] -0.4174514550  2.907734e-01  9.563300e-01 -0.3024268953 -3.422874e-01
## [767,]  0.7477551737  5.992607e-01  7.014052e-01 -0.2438024617 -7.429165e-01
## [768,] -1.0213786508  1.037090e+00 -1.196232e+00  1.3681539782 -1.084976e+00
## [769,]  0.5155184369  1.668138e+00 -7.850353e-01  0.0826325862 -9.526363e-01
## [770,]  0.4104782872  8.734301e-02  1.179482e-01  1.0036003483 -3.020061e-02
## [771,] -1.3392073356  1.033065e+00 -1.045961e+00  0.6130061666 -9.448796e-01
## [772,]  0.0907738289  4.356634e-01  6.578868e-01 -0.4946370903 -4.632408e-01
## [773,]  0.8522094990  1.489666e-01  8.569523e-01 -2.6975431253  2.627460e-01
## [774,]  1.4588897984 -7.383864e-01 -1.089088e-01 -1.0265395421  6.578664e-01
## [775,]  0.6781871702  1.177515e-01  5.989334e-01  0.4923329730  6.928036e-01
## [776,]  1.1087826302  1.274683e+00  1.537684e+00 -1.4884654023 -1.115577e-01
## [777,] -0.8539329410 -1.180584e+00  1.876131e+00 -0.1787500627 -4.617940e-01
## [778,]  0.8433790098 -1.483866e+00  1.206978e+00 -0.5865949243  8.267983e-01
## [779,] -2.0663982563  7.927690e-01 -1.718629e-01  0.0867145871  2.649977e-01
## [780,] -0.3678019590  1.054382e+00 -4.969863e-01  1.0875492928 -1.279707e-01
## [781,]  0.2877641996 -3.896154e-02 -7.869362e-01 -0.8622037727 -4.416188e-01
## [782,] -0.8866953218 -1.579118e-01 -2.617425e-01 -1.1510553120  9.387782e-01
## [783,]  0.3720388705 -2.093674e+00  3.953315e-01 -0.1733996056 -3.918275e-01
## [784,]  1.4321393807  9.521246e-03  6.934781e-01  0.4476574069  2.210173e-01
## [785,]  0.3831869867  5.735387e-01 -7.789237e-01  1.2480566455 -1.095376e+00
## [786,] -0.1191622334  3.046785e-01 -5.877598e-01 -0.2874781267  1.994317e-01
## [787,]  1.2019459911  7.290057e-01  4.901156e-01  0.5203216388  4.999067e-01
## [788,] -0.1724105373 -6.795178e-01 -1.611913e+00  0.7186578553 -1.966116e+00

```

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## [789,] 1.1464038019 -1.221637e+00 -3.471914e-01 0.3379857735 2.296759e+00
## [790,] -0.9685338798 -8.891254e-01 -2.220633e+00 0.1756789945 -1.320166e-01
## [791,] 0.0844792952 -6.404302e-01 3.910904e-01 0.8852298421 5.066959e-01
## [792,] -1.7078862523 7.138691e-01 3.802762e-01 -1.2288594185 -5.332889e-01
## [793,] -0.6730681659 5.698105e-01 -1.732996e-01 0.7390710827 -6.798448e-01
## [794,] -0.6808745828 7.597681e-01 1.184837e+00 3.4198085419 -2.827327e-02
## [795,] -0.4770534030 1.260177e+00 -8.730155e-01 0.9736213891 -7.620658e-01
## [796,] -0.6454691290 -7.887255e-01 -1.518468e+00 0.0283433961 1.404377e+00
## [797,] 1.7371179706 3.713447e-02 1.319862e+00 -0.9468803948 -1.139394e+00
## [798,] 0.2108502783 1.046696e+00 6.312054e-01 -0.8369293068 1.059374e-02
## [799,] -0.0816367050 4.142010e-01 2.757150e-01 -0.0618862340 -3.304638e-01
## [800,] 1.0320582317 -4.518997e-01 1.545688e+00 0.7269884567 1.696467e-01
## [801,] 0.3268505082 7.657994e-03 -1.890320e+00 -0.3268107019 6.428643e-01
## [802,] -0.2421984586 9.527100e-01 -4.469211e-02 -0.5125837347 -2.530928e-01
## [803,] -0.2100691199 -3.919845e-01 5.055242e-01 0.3045590978 1.274615e+00
## [804,] -0.4933226827 -5.368148e-01 7.447261e-01 0.7611367845 -1.337077e-01
## [805,] -0.1669574381 5.552875e-01 8.432265e-01 -0.4528544606 3.304960e-01
## [806,] -0.3698647781 3.435874e-01 8.587455e-01 0.8550792409 -5.432552e-01
## [807,] 0.5482774693 -1.478611e+00 1.130565e+00 -0.1355872250 2.531133e-01
## [808,] 1.2443745430 7.355718e-01 -5.487475e-01 0.4929776502 -4.291366e-01
## [809,] -0.9622573384 7.789047e-02 1.734515e+00 -0.7657953774 3.088016e-02
## [810,] -1.5910948226 1.005035e+00 -3.028071e-01 -0.9959607627 4.811118e-01
## [811,] 0.8127613497 -3.746131e-01 3.916151e-01 0.0483658752 -2.859121e-01
## [812,] 1.0473164252 1.720231e-01 4.164046e-01 0.2810920864 -1.278435e-01
## [813,] 1.1477584320 1.752890e+00 -3.199594e-01 1.3812356290 4.416428e-01
## [814,] 0.9506346834 5.628093e-01 1.558301e-01 0.6849485140 4.860619e-01
## [815,] 0.2825040083 -8.756071e-01 -9.290013e-01 0.2402832124 1.014691e+00
## [816,] 1.1250524223 5.663689e-01 1.016367e-01 -0.6960523234 -2.714140e-01
## [817,] -0.4079362731 -8.935318e-01 3.889847e-01 0.8585909189 -5.726753e-01
## [818,] 0.76559938192 6.628664e-01 8.301049e-01 0.9571450561 -1.652499e+00
## [819,] -0.1654694966 -1.280991e+00 -1.198111e-01 1.1625314101 5.138474e-01
## [820,] -1.2954316784 3.392730e-01 1.240527e+00 1.2133506022 6.687938e-01
## [821,] 0.6104967503 9.217062e-01 7.112422e-01 0.2168310048 1.143827e+00
## [822,] 0.8615532873 1.020459e+00 3.080019e-01 -0.9545436274 -2.999802e-01
## [823,] 0.1710135619 -1.208313e+00 -1.248501e-01 0.2562385281 8.131249e-01
## [824,] -0.9711613102 2.343735e-01 8.694180e-01 -0.1133756818 9.522328e-01
## [825,] -0.4539754793 5.9555884e-01 7.786176e-01 0.3942234950 -1.740999e+00
## [826,] 0.11116907365 9.200296e-01 -1.431592e+00 -1.4943671059 -5.144851e-01
## [827,] -0.2463800673 1.741886e+00 -1.396538e-01 1.5435905612 9.736910e-02
## [828,] 1.1070183565 -1.769829e+00 -2.214797e-01 -0.6466130142 -6.765537e-01
## [829,] 0.9816746837 -4.306568e-02 5.723986e-01 0.5116306124 8.108981e-01
## [830,] 0.0721585266 4.789518e-01 6.655271e-01 0.7125464802 -2.592525e-01
## [831,] 1.0153094073 -8.634424e-01 -2.104827e+00 0.3790083703 1.412982e-01
## [832,] 0.1339609234 -1.711999e-01 2.561155e-01 0.3715594351 -8.268069e-01
## [833,] 0.0634739453 -3.912146e-01 -1.409191e+00 -0.1544476269 9.455548e-02
## [834,] 0.3764082743 1.201820e+00 6.468157e-02 1.1672494944 3.440095e-01
## [835,] -1.4761265452 -8.781021e-01 9.866155e-01 0.5526946142 -1.693791e+00
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## [837,] 1.3956215246 1.440774e-01 -3.565350e-01 -0.5930464191 1.417150e-01
## [838,] -0.4329863599 -1.070831e+00 -1.747188e+00 0.0430155830 3.874808e-01
## [839,] 0.6541305706 -6.155794e-02 -8.392018e-01 0.0360919958 -1.273130e+00
## [840,] 0.4359225668 3.455392e-01 1.403494e+00 -1.2373392697 -9.131645e-01
## [841,] 2.2026047545 -1.047938e+00 5.664016e-02 0.5215258657 -8.201698e-01
## [842,] 0.1307761863 9.962003e-01 8.604508e-02 -0.1414242554 4.631439e-02

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## [843,] -0.1949758807 3.605212e-01 6.373162e-01 0.3946828787 4.736874e-01
## [844,] -0.0572930160 8.346439e-01 -3.747495e-01 0.8198521143 -1.562667e+00
## [845,] -1.8810701615 4.331331e-01 -4.895163e-01 -0.0385225329 -1.045110e+00
## [846,] 0.0599672850 -1.381758e+00 9.698379e-02 -0.4281401656 -1.997931e-01
## [847,] 1.8994971318 4.014991e-01 6.374634e-01 0.9629768868 3.157937e-01
## [848,] 0.7289218817 8.117043e-01 6.881286e-01 -1.3204279344 -9.447506e-01
## [849,] 0.9630271920 -3.980720e-01 3.489926e-01 -0.6433671045 3.197097e-01
## [850,] 0.9878986722 -1.038341e+00 -1.353197e+00 -1.1827670360 -1.595319e+00
## [851,] 0.8501465318 1.842957e-01 1.659198e+00 0.9375196868 -6.291109e-01
## [852,] 0.0102414295 -1.412954e+00 -7.658143e-01 -0.9056413419 -2.551305e-02
## [853,] -2.0580070378 7.507822e-01 -4.615194e-01 1.0448307198 8.343997e-01
## [854,] -0.1264733983 -2.688086e-01 3.665290e-01 -2.0619649527 1.059262e+00
## [855,] -0.3591067034 4.158629e-01 4.499303e-01 0.9999157603 -1.207220e+00
## [856,] 0.2035077513 -1.024961e+00 3.417124e-01 0.0911697220 5.231386e-01
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## [858,] -0.0663858552 3.061190e-01 -1.197987e+00 -0.8611080222 1.391821e+00
## [859,] 1.3276266007 1.522868e+00 -7.278943e-01 -1.2196343231 7.417727e-01
## [860,] 0.1068741287 -1.269089e-01 1.411208e-01 -1.6222067410 -1.945023e+00
## [861,] -0.8696866775 -4.174158e-01 8.203900e-01 -0.0254278269 1.453687e+00
## [862,] 0.3629909343 -9.379171e-01 -1.137077e-01 -0.3272591628 7.844731e-01
## [863,] -0.5638946884 2.430938e-01 -6.216380e-01 0.3759879667 -4.390260e-01
## [864,] -0.2345772637 -8.400221e-01 8.100180e-01 0.2665316590 2.728932e+00
## [865,] -0.5883230164 6.287610e-01 2.207243e-02 0.6925024402 2.931778e-01
## [866,] 1.4020024692 -1.182920e+00 9.541843e-02 -0.2134109084 -1.262055e+00
## [867,] 0.0155698305 -4.548313e-01 3.184906e-02 1.2042140761 9.980889e-01
## [868,] 0.0232665339 -2.815006e-01 -8.547537e-01 3.0595384336 1.682885e+00
## [869,] 0.3304848449 2.710147e-01 7.961741e-02 0.3991299978 -7.701458e-01
## [870,] -1.2973416475 6.909938e-01 -1.142602e-01 -0.1446605450 1.886252e+00
## [871,] 0.6792282408 1.588724e-01 1.143422e+00 -0.7042102141 5.541954e-02
## [872,] -0.2539538989 -8.078638e-01 1.137595e+00 -0.1312175837 -4.419187e-01
## [873,] -2.2540522555 8.320883e-02 2.963722e-01 -1.4468073226 -5.721700e-01
## [874,] 0.1437277313 1.215324e-01 -6.539960e-02 -0.5177238579 -7.349792e-01
## [875,] 0.5142369002 1.068113e+00 9.372472e-01 -0.4134134105 1.407212e+00
## [876,] 0.4559168544 -1.688252e-01 1.312679e+00 0.6436151823 -8.544224e-01
## [877,] 1.8908179727 -3.227458e-01 -6.707989e-01 0.9008475910 -1.500628e+00
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## [879,] 0.9565304680 -8.951612e-01 1.161463e+00 0.9889452029 1.871678e+00
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## [881,] 0.1238795163 1.606158e+00 -2.096355e+00 -1.2623832910 1.019516e+00
## [882,] -0.5674106241 7.707897e-01 6.823078e-01 -0.0696754553 -1.601250e+00
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## [884,] -0.2440166174 -2.103395e-01 7.764584e-01 1.1910472115 -5.421678e-01
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## [887,] -0.7428871633 1.184898e-01 4.020560e-01 0.0372127388 2.359411e+00
## [888,] 1.3665919427 -1.509203e+00 -5.647895e-01 1.1138164840 6.913295e-01
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## [892,] -0.9249872279 5.714723e-01 -1.424353e-01 -0.8132938328 1.003576e+00
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## [895,] -0.3759088947 -3.530870e-01 -3.716620e-01 -2.3927563819 -1.226197e+00
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## [897,] -0.1165515067 2.673389e-01 -4.537261e-01 -2.1126428476 1.819338e+00
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## [905,] -0.6791468276 -5.170950e-01 -6.673507e-01 -1.1111275315 -1.544090e+00
## [906,] 0.4785299407 1.268786e+00 7.593700e-01 0.6030768342 2.378352e-01
## [907,] -1.7326640261 -6.231810e-01 2.747931e-01 -1.1738405579 7.423461e-01
## [908,] -0.1020127287 8.925615e-01 -7.014240e-02 0.4596136083 -6.445276e-01
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## [910,] -0.3529893897 9.567997e-01 -7.748883e-03 0.4116252500 -7.364587e-01
## [911,] -0.5952284809 5.825738e-02 -2.226472e+00 -1.1827255494 8.825805e-01
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## [913,] 1.0737179302 -1.566688e+00 -1.385005e-01 -0.0139220984 1.529804e+00
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## [917,] -0.3702578316 2.511853e-01 -8.344367e-01 1.1225816399 -1.388289e+00
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## [928,] 0.5427729293 9.027121e-01 4.140085e-01 -0.9496303031 -2.698882e-01
## [929,] 0.2226087607 -5.772314e-01 -3.537570e-01 -0.8377299262 7.988188e-01
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## [951,] 1.1363955085 -8.076441e-01 -9.312771e-01 0.0262158664 4.868373e-01
## [952,] -1.6780430607 1.686875e+00 -1.569546e+00 -0.9335642665 -2.400861e-01
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## [963,] -1.0829094868 3.652513e-01 6.808877e-02 -1.4612144854 3.787807e-01
## [964,] -0.7837855645 2.098096e-02 -8.135919e-02 -1.1229894765 4.923097e-01
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## [979,] -0.6886665080 1.546494e+00 -1.531778e+00 1.4517362111 -1.102555e+00
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## [981,] 0.7536416829 3.595049e-02 -1.095945e+00 0.6185353374 5.377305e-01
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## [983,] -1.1089414286 6.650423e-02 6.210278e-01 0.5774955288 1.819017e+00
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## [993,] -0.4277365263 -8.628166e-01 3.818036e-02 0.5466452173 4.037014e-01
## [994,] -0.8031947497 -3.410486e-01 -2.905242e-01 2.5213186129 7.735484e-01
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## [1005,] -1.2725502976 -4.266969e-02 5.651730e-01 0.1974992950 -1.917303e-01
## [1006,] 1.4611273368 4.061036e-01 1.214148e-01 0.4132339287 1.366251e+00
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## [1015,] -1.1259012493 1.498278e+00 -1.208962e-01 -0.1598424420 -5.057862e-01
## [1016,] -0.4632915251 -5.734410e-01 6.389599e-01 0.1541456211 -9.198319e-01
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## [1018,] 0.2641639465 -9.995754e-02 1.534143e+00 1.8741718559 -5.270179e-01
## [1019,] 1.9487949559 5.353794e-01 1.310552e-01 -1.6249480394 4.305372e-01
## [1020,] 0.6070613996 -1.507113e+00 -8.166710e-01 2.7886915878 1.549515e+00
## [1021,] 0.7790142144 -3.513278e-01 1.284660e+00 0.9044142191 1.433036e+00
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## [1027,] -0.3128315243 1.677071e+00 -1.579065e+00 1.0311038981 1.991171e-01
## [1028,] 1.1809767298 9.116350e-01 1.340826e+00 -0.5094727324 -4.613178e-01
## [1029,] 1.0076695672 2.185605e-01 4.633521e-01 0.2324162329 9.472439e-01
## [1030,] 0.1681489836 3.855372e-01 1.677405e+00 -0.0460233417 1.203539e-01
## [1031,] -0.0348762264 1.194559e+00 -1.192534e+00 0.2551862509 -1.223021e-01
## [1032,] -1.4986677982 2.008443e+00 -1.827843e+00 0.0385224508 -4.129397e-02
## [1033,] 0.7632828562 -2.952765e-01 -8.140292e-01 0.5841707973 1.456435e+00
## [1034,] 0.3533874489 -4.489786e-01 3.832323e-01 0.0500334058 -1.263967e+00
## [1035,] 1.2930281001 -1.526078e+00 -1.425436e-01 1.4345380911 1.344655e+00
## [1036,] -0.3680195735 -4.537404e-01 -3.967950e-01 -0.8660788510 1.316907e+00
## [1037,] 0.0371128840 4.172012e-02 2.284264e-01 0.0572670079 -7.944322e-01
## [1038,] -0.0038094048 1.809846e+00 -5.486038e-01 -0.6057000449 9.798851e-01
## [1039,] 1.0959976511 -7.346754e-01 5.477524e-01 1.7344120992 8.484602e-01
## [1040,] 0.9842563217 -1.037850e+00 6.662313e-01 0.1775152162 -5.309673e-01
## [1041,] 0.3444654839 -9.724335e-02 1.177996e+00 -0.5129870392 4.681079e-01
## [1042,] 0.1653142098 1.029824e-01 -1.206533e+00 0.5227141507 -1.179774e-01
## [1043,] -1.0060562200 -1.290443e+00 7.739861e-02 0.4689825855 -2.119072e-01
## [1044,] -0.7079561070 1.764081e+00 -3.604553e-01 0.3306091476 1.835068e+00
## [1045,] 0.9703980136 -5.566444e-01 -1.061469e+00 -0.1984797202 -9.277822e-02
## [1046,] 1.3468348424 -9.007794e-01 -4.595674e-01 0.8322200290 -5.315631e-01
## [1047,] 0.6504839203 7.365041e-01 2.799492e-01 0.7191981325 8.035073e-01
## [1048,] -1.4019741859 2.547129e-01 1.758045e+00 0.7998710660 7.032294e-01
## [1049,] -1.2018952350 -1.758588e+00 1.675321e+00 0.3309194801 -7.007531e-01
## [1050,] -0.3147478606 -9.252717e-01 -1.481015e+00 2.3330730928 6.756174e-01
## [1051,] 0.7109423181 5.873232e-01 1.350869e-01 -0.2211560894 -1.743942e-01
## [1052,] -0.9213923986 -1.533427e-01 1.461296e+00 0.4447458143 5.994301e-01
## [1053,] -1.3964220705 -7.900122e-01 -4.562943e-01 0.3820617611 -5.692027e-01
## [1054,] 0.0104041636 -7.401376e-01 -6.443675e-01 -2.8436111290 -1.070541e+00
## [1055,] 1.3406608829 -2.156166e+00 2.155316e-02 1.2969172224 -9.406043e-01
## [1056,] -1.4384219323 -4.876988e-03 -3.556468e-02 -1.1967002842 1.585370e+00
## [1057,] -1.2259752499 -1.793329e-01 7.074151e-01 1.2851963857 2.731078e-01
## [1058,] -0.9059744162 4.533478e-01 6.991181e-01 -0.4352671038 -1.593527e+00

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## [1059,] -1.0925949024 -1.396674e+00 6.242360e-01 0.0710252198 1.768003e+00
## [1060,] -1.0958223515 -1.650940e+00 -7.768345e-02 0.4889091958 -1.249893e+00
## [1061,] 1.2331668488 2.395750e+00 -3.125829e-01 0.9480049608 -1.052379e+00
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## [1064,] 0.2387210000 -3.619672e-01 1.720671e+00 -0.3884730376 7.456285e-01
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## [1067,] -0.9150779528 1.128902e+00 -4.649545e-01 0.4149913164 -8.824850e-01
## [1068,] 1.2224410583 -3.123557e-01 1.277498e-01 0.7797487900 9.673833e-01
## [1069,] -2.0249383024 8.481408e-01 -3.407295e-01 -0.6932088776 1.296823e+00
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## [1072,] 1.0523458351 2.903050e-01 -8.864051e-01 -0.6864679919 -1.338434e+00
## [1073,] -0.7922106992 -1.001501e-01 5.020951e-01 1.0061086757 7.289184e-01
## [1074,] -1.3043631956 -1.236034e+00 1.525459e+00 -0.9873807190 -1.067804e+00
## [1075,] 0.1508771914 -5.409152e-02 -2.771391e-01 2.1591110862 -2.391688e+00
## [1076,] -0.8742611829 -4.190464e-01 1.816827e+00 1.7794811674 -1.070562e+00
## [1077,] -1.2794191056 2.699502e-01 -8.808563e-01 -0.9011483284 -9.864025e-01
## [1078,] -1.1864083859 -5.964502e-01 -2.333911e-01 -0.2438691776 1.269039e+00
## [1079,] 0.5643980725 8.960525e-01 -9.771119e-01 0.3326478109 9.858387e-03
## [1080,] 0.5629683196 -1.393368e+00 -2.526931e+00 1.4617330227 -6.325611e-01
## [1081,] -0.3065439767 -6.367642e-01 1.104380e-02 -0.2442517952 -9.537417e-01
## [1082,] 0.7757274059 -1.800382e-01 -5.542892e-01 -1.2155182398 -4.544012e-01
## [1083,] 0.5182091942 -4.827275e-02 1.566077e-01 -0.2527259738 1.795837e-01
## [1084,] -0.0144895037 -7.118220e-01 9.984830e-01 -0.0094558458 -9.406999e-01
## [1085,] -0.4602121733 5.097711e-01 -3.932889e-01 -0.9205420664 2.685469e-01
## [1086,] 0.3324934743 -2.694903e-01 6.709627e-01 -0.5635761773 3.089098e-01
## [1087,] 1.1840301319 7.560165e-01 -2.145335e-01 -0.8220819549 -7.426666e-01
## [1088,] -2.6924945699 -6.441603e-01 -7.269072e-01 0.6672677910 -8.181556e-01
## [1089,] -0.0347624773 1.452782e-01 9.251984e-02 0.7838110391 -6.755862e-01
## [1090,] 0.4920539995 -4.863654e-01 -2.457412e+00 -0.1921956538 -9.737469e-01
## [1091,] -1.7235936542 5.750296e-01 -3.558530e-01 -1.0774882962 1.114515e+00
## [1092,] 0.2623366118 -1.040201e+00 -4.190920e-01 -0.1226793564 1.054727e+00
## [1093,] -0.2125129457 -9.274580e-01 -1.353727e+00 -1.0770693092 -7.047687e-01
## [1094,] 0.9113379472 4.911134e-01 9.725049e-01 -0.8733215223 -6.417137e-01
## [1095,] 0.5114062605 4.295431e-01 1.392374e+00 -0.3822497255 -4.239033e-01
## [1096,] -0.6106891146 1.376815e+00 -1.128186e+00 0.3404525633 -6.004729e-02
## [1097,] 0.0857485062 -1.127523e+00 9.525214e-01 -0.9978283174 -1.385923e-01
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## [1099,] 1.3424582260 4.719736e-01 -1.191641e+00 1.1731325653 3.535165e-01
## [1100,] 1.5595650043 1.011847e+00 7.632989e-01 -1.2470033943 -1.487591e+00
## [1101,] -0.9359458113 8.726722e-01 -2.031600e-01 0.1016707546 -2.774304e-01
## [1102,] 2.0366500349 6.359135e-01 -1.059742e+00 -1.1224342946 -9.570222e-01
## [1103,] 0.0716754232 -1.578322e+00 2.219802e-01 -0.5439752668 1.715513e-02
## [1104,] 2.0096899236 -1.656440e+00 -2.790381e-01 -0.0416959045 -7.896210e-02
## [1105,] -0.3698804832 6.803470e-01 -2.843718e-01 1.3692758439 -4.545678e-01
## [1106,] 0.2205230791 6.825523e-01 4.319860e-01 -1.1244604619 1.964715e-01
## [1107,] -0.7033050681 8.086137e-01 -6.149779e-01 0.8704915002 2.970995e-01
## [1108,] -0.9737130765 1.374328e+00 -1.251114e-01 1.5368656367 -1.149020e+00
## [1109,] 0.5303166899 2.021670e-01 -1.309645e-01 0.1960326696 4.027195e-02
## [1110,] 0.3708566444 -3.306995e-01 9.629096e-01 -0.8119195831 8.597447e-02
## [1111,] 1.2574301419 5.130767e-01 7.237134e-01 -1.5945228649 5.800029e-01
## [1112,] -0.1894046557 3.265267e-01 -4.128512e-01 -1.6235690554 6.740580e-01

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## [1113,] -0.0359942369  1.037056e+00  7.352466e-02 -0.9400880706  9.718148e-01
## [1114,] -0.6181719853 -2.506128e-01  8.044188e-01 -0.0244154062 -6.413015e-01
## [1115,]  1.7051660471  5.847424e-01 -1.560716e+00 -0.3405913096 -9.964204e-02
## [1116,] -0.8578036013 -3.433307e-01 -6.199272e-01 -1.9287607199 -1.372965e+00
## [1117,]  0.4385985338 -5.687975e-01 -1.050000e+00 -0.1752388169  4.079710e-01
## [1118,] -0.7018122481 -1.446997e+00  3.836798e-01  0.0188022502 -2.085847e+00
## [1119,]  0.1156279638  1.845110e+00  8.713266e-02  1.8409345818 -3.738352e-02
## [1120,]  1.5202963561  4.905568e-01  4.150102e-01  0.0813542510  5.021730e-01
## [1121,]  0.0073360402  1.540620e+00  3.609500e-01 -1.1593661152  4.901374e-02
## [1122,]  0.7116806282 -4.250451e-01  5.449441e-02 -0.3008475483  2.766501e-01
## [1123,]  0.8819702084  7.470332e-01  2.156525e+00 -0.3939013036  3.883193e-01
## [1124,] -2.3145659972  2.960770e-01 -9.129562e-02 -0.7004219286  1.229779e+00
## [1125,] -0.5729494946  7.746625e-01 -8.431014e-01  0.1434166746  5.559512e-01
## [1126,]  0.3168854269  5.571097e-01 -6.271432e-01  0.1824311408  7.482761e-02
## [1127,]  0.5050071809 -2.154055e-01  2.268282e-01 -0.0582755683  3.208335e-01
## [1128,] -0.3932711418  7.204188e-01  3.845613e-01 -0.7220014216 -1.949087e+00
## [1129,] -0.6809133464 -3.153621e-01 -1.529193e+00  0.0733630967  1.516475e+00
## [1130,] -0.9891099131 -7.373648e-01 -6.262257e-01 -0.2971441248 -3.444258e-02
## [1131,]  0.4537479500 -1.589086e+00 -5.963649e-01 -0.6987076849 -2.078248e-01
## [1132,] -1.9204569636 -8.669675e-01  9.031128e-01 -0.7054930496  1.451840e-01
## [1133,]  0.8040048824  1.420623e+00  8.600120e-01  0.1316848067 -1.559476e-01
## [1134,]  0.5918720779 -5.580830e-01  6.442520e-02  0.4012464695 -5.516715e-03
## [1135,]  0.1653177907  6.869916e-01  1.360657e+00 -0.3595820482 -2.300465e+00
## [1136,]  0.8866800518 -1.350952e+00 -4.020317e-01  0.7032449165 -8.056963e-02
## [1137,]  0.8762940891 -8.201609e-01  8.687615e-02  0.4458910879 -2.091337e-01
## [1138,]  0.8954758663  4.129436e-01 -4.698893e-01  0.9954632982  1.086757e-02
## [1139,]  0.6310915722 -1.430044e+00 -1.286509e-03  0.6691406341  2.631986e-01
## [1140,] -0.1134091774 -3.733620e-01 -1.340805e-01 -1.0543049288 -1.130506e-01
## [1141,]  1.3922306830  1.203308e+00  6.894708e-01 -0.0758130975 -4.492585e-01
## [1142,] -0.5110944863 -6.077734e-01  2.085159e+00  0.0252331823  6.963204e-01
## [1143,] -1.1465270713 -5.777855e-01 -1.413036e+00  0.5824360779 -1.300205e+00
## [1144,] -0.0709527307 -9.874994e-01  2.715682e-01 -1.7983317914  1.156658e-01
## [1145,] -0.0436649357 -6.863897e-02  9.719214e-02  1.3827576208 -1.092136e+00
## [1146,]  0.5653470877  1.397535e+00  2.635294e-01 -0.9961471172 -5.113383e-01
## [1147,] -0.0368040915 -1.089677e+00 -7.443800e-01  0.5295928752  1.154962e-01
## [1148,]  0.8321094307  9.708670e-01  5.869868e-01  1.2283823990 -3.627789e-01
## [1149,]  0.0984213219  1.630939e+00  1.044381e+00 -0.4788121258 -7.700714e-02
## [1150,] -1.8976081530 -8.045418e-01 -3.802685e-01 -1.7411481567 -6.692974e-01
## [1151,] -1.6624729125  1.222831e+00  3.936236e-01  2.2103584108 -9.618100e-01
## [1152,]  1.8649389485 -2.964972e-01 -1.165812e+00  0.2498679052 -1.469590e+00
## [1153,] -0.0380433362 -2.493615e-01 -1.086643e+00  1.3077557452  6.004440e-01
## [1154,]  0.2967988803  8.628930e-02 -2.999740e-01 -0.7282413497 -1.399774e+00
## [1155,] -2.0499722556  1.607858e+00  2.168729e+00 -1.0937098088 -6.580540e-01
## [1156,]  0.2329398330  3.917049e-01  2.788605e-01 -0.4609645205 -1.862072e+00
## [1157,]  0.0796108259 -1.207075e+00  5.822372e-01 -0.9690361596  4.974828e-01
## [1158,]  2.1424375025 -3.864627e-01  1.546505e-01  2.0656988849  4.261920e-01
## [1159,] -1.4570475348  9.891530e-01  2.134306e-01 -0.3016161691 -1.385027e+00
## [1160,] -1.0394509933  4.540392e-01 -4.990164e-01  0.2568582545  1.414730e+00
## [1161,] -1.3935396734 -4.293086e-02  2.319947e-01 -1.3104318824  7.603488e-01
## [1162,]  0.2547928759  1.243447e+00  1.448578e+00 -0.1715481513  7.165474e-02
## [1163,] -0.2342445838 -4.209464e-02 -1.942672e-01 -1.1253552542  5.084844e-01
## [1164,]  0.9635391217  3.041119e-02 -1.253048e+00 -1.2176411083  1.240943e+00
## [1165,] -0.2072633245  6.964212e-01  1.568739e+00  0.2311495674 -1.460394e+00
## [1166,] -1.0102921609 -2.050626e-01 -1.727947e+00 -0.8698407603 -4.457988e-01

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## [1167,] 0.4052289070 -2.117306e-01 -1.938189e-01 0.4157891868 2.798764e+00
## [1168,] 0.8649501836 -6.467108e-01 1.703896e+00 0.7956201850 -1.159770e+00
## [1169,] 0.5581029195 1.886619e+00 2.600785e-02 -0.2542727457 -1.899971e-01
## [1170,] 0.6714367509 -3.104713e-01 -1.089974e+00 0.1320529039 -1.440063e+00
## [1171,] -0.1160163434 7.860477e-01 -1.802649e+00 -0.5431094859 8.353079e-01
## [1172,] 1.3158397344 1.060382e+00 1.454557e+00 -1.0359940217 1.782195e-01
## [1173,] 0.6336001632 -8.803375e-02 7.909835e-01 -1.2723446260 -3.356616e-02
## [1174,] -0.1562608330 5.058368e-01 1.744574e+00 -0.0319392223 2.608357e-02
## [1175,] 0.2973867056 9.456363e-01 1.470999e-01 -0.9500199179 -3.174763e-01
## [1176,] 1.7512579299 4.448282e-01 3.179155e-01 -1.1738610733 4.032068e-02
## [1177,] -0.4692701711 -8.228395e-01 1.527467e+00 -0.4687024572 3.688212e-01
## [1178,] -0.8237369494 7.509057e-01 -1.414972e+00 -1.8240929323 -8.754993e-01
## [1179,] -0.4329522842 3.737860e-01 1.484439e+00 0.7227375408 -1.228498e+00
## [1180,] 0.1980147001 -1.871893e-01 6.551165e-01 -0.5566748380 6.580710e-01
## [1181,] -0.2312871222 -1.253877e+00 2.704862e-01 -1.7134878299 4.927331e-01
## [1182,] 1.5182280980 1.691087e+00 1.131671e+00 -0.3536491282 -6.696949e-02
## [1183,] -0.0185690433 -5.552882e-01 -5.914001e-01 0.9542862485 -7.751337e-01
## [1184,] 1.6039236084 3.390710e-01 -6.352982e-01 -0.2818668091 3.315572e-01
## [1185,] -0.3656787950 -7.577682e-01 1.742055e+00 1.8841947831 -6.368686e-01
## [1186,] 0.6425115725 -1.799314e+00 5.401028e-01 -0.2599534219 -1.719270e-01
## [1187,] 1.4811396128 -2.837259e-01 -2.607642e-01 0.4244083498 3.231817e+00
## [1188,] -0.7973584718 1.211789e+00 5.271011e-01 0.2883074525 -8.288269e-01
## [1189,] 0.6141754827 2.591047e-01 1.217494e+00 0.0417741263 1.372079e+00
## [1190,] 0.8160907670 -1.335433e+00 5.121901e-01 -1.7846370884 6.704802e-01
## [1191,] -0.1543673061 -1.201659e-01 8.030057e-01 -0.5803963038 7.606765e-01
## [1192,] 0.9093393059 -2.401427e-01 1.263171e-01 0.6818543428 -9.457428e-01
## [1193,] 0.0158974307 1.752742e-01 -9.198143e-01 0.1644373472 -7.043841e-01
## [1194,] 0.0499518942 5.600692e-01 3.904268e-02 1.6325381024 -2.366784e-01
## [1195,] -1.2901925622 9.967855e-01 -1.003845e+00 0.4796487719 -4.443576e-01
## [1196,] 0.3237384472 -1.087732e-01 -1.201401e+00 -2.6283712547 9.653803e-01
## [1197,] 0.1030819386 -8.780375e-03 1.103632e+00 -0.6346554958 -1.016276e+00
## [1198,] -0.4392497540 -3.348146e-01 -3.939575e-01 1.0011055827 1.019231e+00
## [1199,] 0.2755573561 7.605117e-01 -9.766287e-01 0.4097561466 -7.376489e-01
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## [1202,] 1.1827312154 -2.610048e-01 -4.469471e-01 -0.3417491410 4.886373e-02
## [1203,] -0.6067570908 -1.355286e-01 -2.224630e+00 -0.6320600384 -1.453611e+00
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## [1205,] 1.1881803325 1.317003e+00 7.474262e-01 -0.6960722314 8.280657e-01
## [1206,] -1.3050919319 9.032096e-01 -3.018629e-01 -0.5101716869 -4.768865e-01
## [1207,] 0.9871790127 -4.015331e-01 7.485163e-01 0.7918809296 1.973460e-02
## [1208,] -1.0127371816 1.368649e+00 1.737365e-01 -0.4029169414 -7.530771e-01
## [1209,] 0.4634673200 -1.001387e+00 -4.468544e-01 -0.3871016473 3.827076e-01
## [1210,] -0.0792873782 1.483057e+00 7.783217e-01 -1.4977507629 -4.668078e-01
## [1211,] 1.1228548677 6.452305e-01 -9.376614e-01 -0.7804461772 1.458669e+00
## [1212,] 0.6220084888 -1.315160e+00 3.087270e-01 1.2923777341 5.640022e-01
## [1213,] 1.3258532727 7.185347e-01 -2.548525e-01 -0.0715310166 1.224163e+00
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## [1216,] 1.7674814219 -6.566423e-01 1.430182e+00 0.0959778449 2.061626e+00
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## [1339,] 0.0286920462 1.862576e+00 -1.681125e+00 1.0902422391 -1.663101e-01
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## [1376,] 0.8291693390 3.155274e-02 -4.265902e-01 0.2288373552 1.455288e+00
## [1377,] -0.4875119191 -2.463982e-01 6.999171e-02 0.7404920287 1.053569e+00
## [1378,] -0.5464914937 -6.633067e-01 -6.955297e-02 1.6906144879 7.842742e-01
## [1379,] 0.6146956893 -8.082387e-01 -4.014288e-01 -0.7047167496 -4.763693e-01
## [1380,] 2.3902985257 -7.556418e-01 1.189864e+00 -1.1874383415 -9.732180e-03
## [1381,] 0.3965451570 -3.679483e-01 9.677759e-01 -0.1981988972 -1.185843e+00
## [1382,] 0.1324633737 -1.789364e-01 7.449440e-01 0.9114283417 2.482745e-01

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## [1383,] 0.7484811288 6.693102e-01 -5.150651e-01 1.2423558891 -1.115125e+00
## [1384,] -0.0785997635 -5.984122e-01 -2.397624e+00 0.8090490441 -1.876001e-01
## [1385,] -0.7372278765 -1.155213e+00 2.940917e-01 0.0406199379 -1.078811e+00
## [1386,] 0.1765819344 2.401323e-01 8.974135e-01 1.0108518595 9.592907e-01
## [1387,] 0.1618547028 9.845642e-02 -7.869311e-01 0.1745579350 9.070183e-01
## [1388,] -0.0354891737 -2.785401e-01 2.101324e-01 -0.2234412458 -4.003998e-01
## [1389,] -1.1991380730 1.416560e+00 -4.338860e-01 0.6533628891 4.010132e-01
## [1390,] -0.8617243784 -6.268838e-01 1.685651e+00 0.0845196952 -4.030420e-01
## [1391,] -0.2353794058 -4.832748e-01 4.430111e-02 -0.1268245455 6.745137e-01
## [1392,] 0.3484730525 1.662840e-01 -1.013856e+00 1.3943982310 3.648682e-01
## [1393,] 0.3773401734 -8.191548e-01 -9.524907e-01 -0.9230382003 2.600070e+00
## [1394,] -1.5963486399 5.619181e-01 -5.933715e-01 -0.9104084944 1.298157e+00
## [1395,] -0.7438970734 8.557515e-02 7.685555e-01 0.4193627858 8.017946e-01
## [1396,] 1.4496427471 2.337057e+00 -4.517855e-01 -1.6457082557 -2.119935e-01
## [1397,] 1.1621890540 1.118415e+00 -3.030093e-01 2.2100898774 -2.275788e+00
## [1398,] -0.3004321737 1.651222e-01 1.134950e+00 -0.5626472451 5.160947e-01
## [1399,] -0.8462261190 2.883745e-01 1.601075e+00 0.0384351826 -1.904087e-01
## [1400,] 0.3799219387 -2.110743e-01 1.397379e+00 -0.2628300153 3.736436e-01
## [1401,] 2.5120779529 1.559676e+00 7.141595e-01 -0.9680143663 6.417751e-01
## [1402,] -0.7401277297 1.127124e+00 8.602199e-02 0.8005175197 -8.172635e-01
## [1403,] 0.8279939754 3.305892e-01 -1.494635e-01 -1.7364685492 5.430772e-01
## [1404,] 0.8590911387 5.364240e-01 -6.721120e-01 -0.9215349007 2.632820e-01
## [1405,] 0.4426487029 1.200488e+00 7.885244e-01 0.3623673060 1.164310e+00
## [1406,] 0.3658130535 4.938045e-01 1.711153e-01 0.3146564123 8.664878e-01
## [1407,] 0.3680532422 -8.814406e-01 7.049751e-02 -1.2408848987 -2.430203e-01
## [1408,] -1.7662454451 1.660363e+00 1.071093e+00 -0.9543464423 -6.676889e-01
## [1409,] 1.3334555132 1.634890e+00 -3.360030e-01 1.2847900936 7.205312e-01
## [1410,] 0.1876725463 -9.217459e-01 8.886984e-01 -1.3137392970 1.324146e-01
## [1411,] -1.5900592812 -3.375010e-01 4.378747e-01 -0.1340899490 -4.263090e-01
## [1412,] 0.7008257376 1.503466e+00 9.752710e-01 -0.0755013446 -6.407161e-01
## [1413,] 1.3188384941 -6.370234e-01 3.979945e-01 0.3478284713 3.162313e-01
## [1414,] 1.1669498868 -3.636733e-01 -3.729798e-01 -0.0680352859 -5.075754e-01
## [1415,] 0.2015230358 -1.055855e+00 1.359265e+00 -0.7474834163 -6.078631e-02
## [1416,] 0.0749388745 1.419274e+00 4.387554e-01 -0.0265690210 1.537562e+00
## [1417,] -0.7813530032 -6.115583e-02 -6.956715e-02 0.3832098994 -4.487281e-01
## [1418,] -0.6065611773 6.016305e-01 -1.199070e-01 -0.9012150423 1.696848e+00
## [1419,] 0.4546695347 -7.126348e-01 -3.729778e-01 0.2883689901 -1.804687e-01
## [1420,] -1.5864968928 -1.612306e+00 1.530813e+00 0.6327289111 1.200868e-02
## [1421,] 0.0346988801 -2.185100e+00 4.380168e-02 -0.8660423933 1.730069e-01
## [1422,] -1.3028111680 -1.071356e+00 -4.824196e-01 -0.6898005772 2.869955e-01
## [1423,] -0.1490084278 -1.222215e+00 -1.376583e+00 -0.6159510510 -1.967549e-01
## [1424,] 0.6286555361 1.016870e+00 -7.010662e-01 0.4156597812 -2.124918e+00
## [1425,] -0.9283896093 8.812465e-01 3.872213e-01 1.2436856594 -1.985489e-01
## [1426,] 0.7211658147 5.888718e-03 1.300073e+00 -1.4371293919 -4.052494e-01
## [1427,] -0.8063828780 -2.468410e-01 -4.777324e-01 0.1124938835 2.952720e-01
## [1428,] 0.4582871633 3.656520e-01 -2.248123e+00 -1.1194179964 1.304019e-01
## [1429,] -0.9395160528 2.221035e-01 -3.195871e-01 -1.0519102563 -1.890744e+00
## [1430,] -0.8927204475 2.575887e-01 -1.649706e-01 0.2778730122 1.017935e+00
## [1431,] -1.1576700976 -2.257334e-01 -4.044524e-01 -0.0657422017 1.644569e-01
## [1432,] -1.6753963792 -1.053690e+00 -1.363834e+00 1.0764866705 1.026872e-01
## [1433,] -0.4992010199 6.372412e-01 -2.385672e-01 -0.9534334147 1.792029e+00
## [1434,] 1.0746374625 -1.561595e-01 -7.111982e-01 2.2089327174 1.588884e+00
## [1435,] 0.6298941194 -2.135712e+00 -1.054603e-01 1.7600705025 6.536484e-01
## [1436,] 0.5295939307 -6.941646e-01 -1.705934e-01 -0.2281958104 -4.755330e-01

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## [1437,] 0.6965440899 1.207070e+00 3.430559e-01 -1.8593909724 -3.591131e-02
## [1438,] 0.2598823233 5.165727e-01 -1.301825e+00 0.1212322117 -6.223298e-01
## [1439,] 1.0695536956 -2.495819e+00 -8.547676e-02 -0.1347572202 6.275359e-01
## [1440,] 0.1392622832 1.493867e+00 -7.653986e-01 -0.4683632003 -9.575891e-01
## [1441,] -0.2488204191 7.458118e-01 2.524137e-01 -1.5557954034 -2.270923e-01
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## [1443,] -0.2261454190 9.820202e-01 9.210279e-01 0.6144376016 2.153567e-01
## [1444,] -1.4951932164 -3.234872e-01 -2.017334e+00 0.0554315531 -1.286146e-02
## [1445,] -1.5400293376 3.898946e-01 -7.741162e-01 0.5406836355 -2.615352e-01
## [1446,] 0.6922912181 8.076666e-01 6.057619e-01 -0.6899719777 8.638244e-01
## [1447,] -0.0175636598 5.486029e-01 5.095652e-01 1.7919042255 1.077073e+00
## [1448,] -1.5618813062 6.894921e-01 -2.030678e-01 -1.4771666654 1.107277e+00
## [1449,] 1.0294483029 -6.231053e-02 1.750690e+00 -0.3166857281 -4.144892e-01
## [1450,] -1.2099382011 -1.156625e+00 -8.038560e-02 0.4125451208 1.013534e+00
## [1451,] -0.2021587136 -6.584432e-01 -1.189377e+00 -1.0897502213 1.775947e+00
## [1452,] 0.1139951620 -1.603192e+00 -1.231278e+00 -0.6470921418 1.328323e+00
## [1453,] -1.1240497485 1.259129e+00 -6.512856e-01 -0.6928378513 5.188737e-01
## [1454,] 1.9120156551 3.890849e-02 2.565703e-01 -1.6628024852 -9.160168e-01
## [1455,] 0.9080869853 -1.492521e+00 -8.890068e-01 0.4243742535 2.482169e+00
## [1456,] -1.3217007671 7.097195e-01 -1.192723e-01 -1.2240592456 1.045634e+00
## [1457,] -0.3808336414 1.151899e+00 -5.280250e-03 -0.4328263837 1.586797e-01
## [1458,] 1.5230219524 5.792602e-01 -1.455922e+00 0.3873129854 1.203015e-01
## [1459,] 0.5590631420 -7.627323e-01 1.242355e-01 0.0755306310 -4.780195e-01
## [1460,] 0.9287122064 1.317134e+00 -1.558486e-01 0.7993701200 -4.770072e-01
## [1461,] 0.2450312941 1.415676e+00 -2.548788e-01 0.6124333485 1.225379e-01
## [1462,] -0.9832063778 -6.227364e-02 -1.016082e-01 -1.0325900875 1.522515e+00
## [1463,] 0.0413014887 7.423392e-02 9.886700e-01 0.9786258314 -4.660207e-01
## [1464,] -0.0610950320 1.835792e+00 7.860744e-01 -0.2416146054 -4.735462e-01
## [1465,] -0.2158988552 1.118834e+00 -1.372416e-01 -0.5230638426 2.685144e-01
## [1466,] 0.9186490935 -5.481076e-01 -8.812777e-01 -0.6716320613 -1.977738e-01
## [1467,] 0.6837238881 7.659800e-01 -7.313384e-01 1.7542597914 9.226109e-02
## [1468,] 0.1975973356 -4.114808e-01 -5.122423e-01 0.7765448211 -1.211669e+00
## [1469,] -0.2353908906 -3.284164e-01 -7.664919e-02 -0.4602554154 -1.095770e+00
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## [1471,] -0.7242302657 2.785531e-01 1.598065e+00 -0.4417472826 -1.084375e+00
## [1472,] 0.3612599927 -5.710034e-01 -1.047271e+00 -0.9647068096 -2.375569e-01
## [1473,] 0.2104327764 -3.911128e-01 -6.471241e-01 0.0348627475 -3.236298e-01
## [1474,] 1.5928811374 2.328988e-01 -1.043016e+00 0.5448016998 -4.835297e-01
## [1475,] 0.6169871815 -2.905134e-01 -3.624042e-02 0.6962604373 -1.193061e+00
## [1476,] -1.9280126315 5.098306e-01 -1.471478e-01 1.8140073950 -7.615977e-01
## [1477,] 0.1449573125 1.617206e+00 1.041922e+00 -1.0334832072 -9.401016e-01
## [1478,] -1.6979325855 -1.288997e+00 -2.417091e-01 0.8878671194 7.216286e-01
## [1479,] -2.5365786177 -1.424712e-01 9.557528e-01 -0.2984224300 4.871611e-01
## [1480,] 0.3856272644 9.590574e-02 -7.016770e-01 -0.8259801272 1.349355e+00
## [1481,] -1.6836862801 3.213539e-01 7.272204e-01 -1.9504314355 -1.727572e-01
## [1482,] -0.7887635513 3.503313e-01 8.159693e-01 -0.7339010225 6.701174e-01
## [1483,] 0.8687351876 -6.135031e-01 1.107927e+00 0.9739977221 1.448898e+00
## [1484,] 1.4055671581 -6.061556e-01 2.030121e+00 -0.4669616750 6.285954e-03
## [1485,] -0.0958298426 -5.606832e-01 -1.158598e+00 1.0679409099 -1.875206e-01
## [1486,] -1.2330349840 2.093785e-01 2.208865e-01 -0.0331940415 -3.234666e-01
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## [1489,] 0.4906101219 1.005363e+00 1.347342e+00 0.3316238126 -2.135443e-01
## [1490,] 0.0031909030 -2.735329e-01 -4.799553e-01 -0.0433229128 -8.112207e-01

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## [1491,] 0.8411251114 -9.405282e-01 -9.787152e-01 0.5149416989 5.373381e-01
## [1492,] 0.1378352420 -1.725830e-01 1.506599e+00 0.7716063155 1.173389e+00
## [1493,] 0.7068302885 -1.476831e-01 1.599354e+00 0.0646492899 3.726702e-01
## [1494,] -1.4213855615 1.385223e+00 -8.715748e-01 -0.0718269361 -7.867785e-01
## [1495,] -0.8054254879 -9.646644e-01 5.260085e-01 0.5524024528 7.581216e-01
## [1496,] 1.0004079083 2.726888e-01 1.162753e+00 2.0636843092 4.454510e-01
## [1497,] 0.3539611001 9.669308e-01 1.251940e+00 0.0247459150 3.566916e-02
## [1498,] 0.4560762166 5.409973e-01 -7.221574e-01 1.0292216616 7.465383e-01
## [1499,] 1.9832809261 2.690223e-01 -1.200553e+00 0.6899813430 2.632043e+00
## [1500,] 0.2199341325 -4.387079e-01 1.747485e+00 1.4664397531 7.717130e-02
## [1501,] 1.8600489127 2.825636e-01 -7.503549e-01 0.6723242930 6.309834e-01
## [1502,] 0.0464989259 -2.481236e-01 3.589468e-01 -0.6766620667 1.261387e+00
## [1503,] 0.1029279679 -2.942638e-01 7.441467e-01 1.0314193018 -5.281905e-01
## [1504,] 1.1107420937 -3.605569e-02 -1.748608e-01 1.9608288752 2.212756e+00
## [1505,] 1.8282079745 6.404859e-01 -6.993695e-01 0.6669807944 -2.067090e-01
## [1506,] 0.1518728674 -3.338757e-01 -5.011514e-01 0.6200300869 -4.781313e-01
## [1507,] -0.1943418273 5.634961e-01 5.685393e-01 0.1374601933 1.367823e+00
## [1508,] -0.0617423563 1.728558e+00 7.490664e-01 0.2274969820 1.088648e+00
## [1509,] -0.9094089359 -1.542381e+00 -1.169243e-01 -1.8340675845 -1.224902e+00
## [1510,] -0.1210825451 5.472892e-01 7.164948e-01 1.4426235963 1.238518e+00
## [1511,] 0.7485031600 5.758088e-01 -3.035476e-01 0.5951114561 3.614255e-01
## [1512,] 0.4214608724 1.020963e+00 4.535284e-01 -0.7125446559 -9.736713e-01
## [1513,] 1.0460532737 1.561330e+00 -1.363495e-01 0.8124855265 -1.892876e-01
## [1514,] -2.2915249434 7.519499e-01 -1.754585e+00 -0.9577941691 -6.505393e-01
## [1515,] -0.0043810501 1.522169e+00 -2.537509e-01 0.8916107378 -7.664387e-02
## [1516,] -0.7536510434 1.115617e+00 -8.257384e-01 -0.4970000442 -4.896397e-01
## [1517,] 1.5999556576 6.854483e-01 -1.009656e+00 0.2638425607 2.514691e-01
## [1518,] 0.7526224840 1.878848e-01 1.284401e+00 -1.0275039987 -1.806334e-01
## [1519,] -0.5087592302 -1.112996e+00 1.320057e+00 -0.0427176071 9.380656e-02
## [1520,] -0.0926050190 -1.118603e+00 4.878370e-01 0.8413560047 -7.757915e-01
## [1521,] 0.57776393022 -7.610031e-01 -7.229575e-01 -0.6058801230 -8.562415e-01
## [1522,] -0.5336482902 1.316390e+00 1.940803e-01 0.0512661758 3.197132e-01
## [1523,] -1.2993023828 1.539799e+00 -9.311652e-02 0.9787621623 -1.998095e-02
## [1524,] -0.6018101179 4.120292e-02 -6.416567e-01 0.2637578468 3.052973e-01
## [1525,] -1.3422132976 1.063789e+00 1.169325e+00 0.6235551554 -3.745615e-01
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## [1527,] 1.1031408159 -4.023696e-01 3.405787e-01 -0.2209406234 8.483361e-01
## [1528,] -0.1452610070 -1.118413e+00 -1.162796e-02 -1.3057320596 4.952360e-01
## [1529,] 1.4992941741 -5.059052e-01 -8.139598e-01 0.2151518082 1.799948e+00
## [1530,] 1.0145197004 5.296504e-01 -7.584650e-02 -0.2800196734 2.498155e-01
## [1531,] -0.3515844149 -8.343576e-01 -4.632876e-01 0.0757639443 -7.372529e-01
## [1532,] 0.3159023516 -6.864776e-01 -6.705271e-01 -0.2416624205 -5.543585e-01
## [1533,] 0.5078688831 -8.183108e-01 9.157343e-01 0.2141720245 -3.212184e-01
## [1534,] -0.7250771783 2.773886e-01 -1.436275e+00 -0.3271141738 -9.032171e-02
## [1535,] -1.1194646488 2.767622e-01 1.722881e+00 -1.1554754795 -1.103788e+00
## [1536,] -0.4302260813 -1.651856e+00 5.835083e-01 -0.1910847771 -8.673400e-02
## [1537,] -0.4429384645 -2.104984e-01 -1.722753e-02 0.0915313495 -3.131942e-01
## [1538,] -1.0208422922 1.712916e+00 -2.790639e-01 -0.5510792807 -5.580324e-01
## [1539,] 0.7265383823 -4.314708e-01 4.432682e-01 -0.4714896925 8.968199e-01
## [1540,] -0.9764062252 -7.872112e-01 -1.152489e-01 -0.0574203624 6.623366e-01
## [1541,] 0.0525539586 -2.819643e-01 -8.494835e-02 1.4362284612 -6.601291e-01
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## [1543,] 0.8464833992 -1.093723e+00 4.232944e-01 0.6040477398 1.319433e+00
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## [1545,] 0.0610860008 3.286101e-01 3.836315e-01 0.0380718571 6.546524e-01
## [1546,] 0.1470378026 -1.144612e+00 6.187226e-01 -0.4309346252 -1.301462e+00
## [1547,] -0.1208158441 1.959015e+00 -5.549726e-01 -0.4542623859 -1.544338e-01
## [1548,] 0.3771229877 5.549730e-02 -6.842854e-01 -0.9982466524 1.523105e+00
## [1549,] 0.0132452379 9.944125e-01 -2.644121e+00 0.6869876808 -7.134961e-01
## [1550,] -0.8868043052 -5.716886e-01 1.305328e+00 0.9567143748 -6.310363e-01
## [1551,] -0.2529217694 -8.441661e-03 -8.992489e-01 -0.3267434919 -7.828950e-01
## [1552,] 0.7772227066 2.679297e-01 -1.830402e-01 -1.6933268837 -1.497618e+00
## [1553,] -0.6560306671 7.043476e-01 1.191336e+00 -1.3089291173 -5.755433e-01
## [1554,] 1.0964659842 -2.054087e+00 -9.808532e-01 2.1488173940 -1.137486e+00
## [1555,] 0.4760851696 -1.644355e+00 -8.512908e-01 0.9263751882 1.003272e+00
## [1556,] 0.6759004342 2.379269e-03 8.884481e-01 0.3972496126 9.466032e-01
## [1557,] 0.6364332825 -3.752630e-01 -1.664745e+00 1.1897728963 6.489124e-01
## [1558,] 0.7346281270 -9.070462e-01 -2.045010e+00 -0.9547124208 1.290032e-02
## [1559,] 0.5751354160 -1.580853e+00 -2.648570e-01 0.0697745566 -3.394931e-01
## [1560,] 2.0806732495 -2.069675e-01 2.102538e-01 1.0728866185 -7.963715e-01
## [1561,] -0.5646712117 -7.476360e-01 -1.603912e+00 0.0479252554 -4.689945e-01
## [1562,] 0.0478520376 1.366085e+00 1.066780e+00 1.1837327573 -1.906090e+00
## PC56 PC57 PC58 PC59 PC60
## [1,] -1.673745e-01 3.321454e-01 0.7601043696 -1.014403e+00 0.4005436205
## [2,] -1.812698e-01 -1.474386e+00 -0.1717602676 2.013184e-01 1.3866487457
## [3,] -1.857475e+00 6.790487e-01 -1.7183517029 2.864405e-01 -0.6408036417
## [4,] 5.493265e-01 -8.178463e-01 -0.9757008193 -4.960392e-01 -0.0056110221
## [5,] -6.189325e-01 8.213371e-01 0.3422641940 -5.050807e-01 1.4937749018
## [6,] -1.098536e-01 -8.738705e-02 0.0781413909 -2.647565e-01 -1.1777833533
## [7,] -1.595724e-02 1.346800e+00 0.8576146994 -7.754031e-01 0.7236053799
## [8,] 1.020046e+00 1.490257e+00 0.6166033791 7.684440e-01 -0.3780558684
## [9,] 8.699868e-01 -9.392973e-01 -0.0507909862 6.714979e-01 -2.2899542742
## [10,] -2.920782e-01 3.729690e-01 2.1992678720 1.061947e+00 -1.4576718693
## [11,] 4.704435e-01 1.178611e+00 -0.8502629968 -9.245930e-01 -0.2294285027
## [12,] -1.516134e+00 -1.272283e+00 -0.2366536523 -1.510465e+00 -0.6187660725
## [13,] -4.079420e-01 5.001731e-01 -0.8627893777 4.041815e-01 -0.5723701656
## [14,] -2.773707e-01 -1.821291e+00 -0.0547379093 7.599327e-01 -0.4068898605
## [15,] -2.758554e-01 -1.384275e+00 1.3630408397 -9.615149e-01 -2.3039840034
## [16,] -6.575675e-01 1.333482e+00 0.7685608813 1.297040e+00 1.0936580966
## [17,] 4.562079e-01 2.851184e-01 0.0816408092 4.786923e-01 0.8113672041
## [18,] -7.120894e-01 -1.186709e+00 -0.5269188099 6.543826e-02 0.6444345984
## [19,] -1.804929e+00 -3.686465e-01 0.7128228839 6.682997e-01 1.2567121363
## [20,] 9.631091e-01 7.034102e-01 -0.7142040951 -2.633988e-01 -0.3985298336
## [21,] 1.318769e-01 2.480755e-01 0.9928229583 4.402449e-01 -0.6026360602
## [22,] 2.274821e-02 -1.020364e+00 -0.5502608791 3.812436e+00 -1.5249971444
## [23,] 1.571547e+00 -2.470761e-01 0.4945926466 -4.165354e-01 0.0572982839
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## [25,] -1.370392e+00 -2.399151e-01 -0.3079351739 5.113597e-01 -1.5852503805
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## [27,] 5.235067e-01 6.222606e-01 1.1854916189 8.864940e-01 1.3795643502
## [28,] 1.086029e+00 -1.597792e+00 0.1053193103 -1.440257e+00 1.1135167622
## [29,] -1.713592e-01 5.472238e-01 -0.9154460307 -2.161924e-01 0.1573384282
## [30,] -4.583675e-01 6.245894e-02 -0.5920253633 2.643530e-01 -0.6569561874
## [31,] 6.996542e-01 1.361901e+00 1.0439482793 -1.011962e+00 1.1002686747
## [32,] 4.791173e-01 -1.474431e+00 0.6018174990 2.227880e-01 -0.2833167950
## [33,] -5.541634e-01 9.079280e-01 0.3772116937 -9.574388e-03 0.1882064604
## [34,] 8.695161e-01 -1.637358e+00 -1.2725496905 -3.581518e-01 -2.2313872131
## [35,] 3.359637e-01 5.167283e-01 -0.1408835442 -1.164104e-01 0.5064415483

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## [36,] 5.642251e-02 -8.298574e-01 0.6646077141 -1.336002e+00 -1.2412210383
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## [45,] 8.694637e-01 3.551090e-01 1.2608001389 -2.797936e-01 0.9686675042
## [46,] -1.723662e+00 4.897775e-04 -0.8795677399 1.605599e+00 0.4165265236
## [47,] 3.475190e-01 1.566255e-01 0.2751701918 -1.016662e+00 -1.3476866139
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## [69,] -2.453322e-01 -8.949257e-01 0.2081137835 -2.080921e-01 0.7633793549
## [70,] 4.344518e-01 5.154659e-01 0.2437411333 4.316497e-01 -1.2318637534
## [71,] 1.042118e+00 1.236028e+00 -0.2333872498 4.342995e-01 0.1053304549
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## [73,] -1.253948e-01 1.231664e+00 0.9138228467 -1.682006e+00 0.8478885124
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## [89,] -1.442619e-01 -6.801607e-01 0.5527938845 -9.982269e-02 -0.8578273903

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## [90,] 6.175168e-01 -8.649623e-01 0.6157174975 2.592462e-01 -2.2350334593
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## [94,] -3.015626e+00 1.502259e+00 -1.0199079897 -5.134072e-01 0.8452943291
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## [97,] -8.261069e-01 -1.390055e+00 -0.0783614708 -5.517943e-01 -0.1010321838
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## [99,] 1.034662e+00 -8.929669e-01 -0.7966493720 7.427293e-01 -0.2602764737
## [100,] -9.541293e-01 2.001849e+00 0.9311340489 1.678386e+00 -0.4729519858
## [101,] -3.481664e-01 1.539006e+00 0.9034244433 -1.230559e+00 0.2938109588
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## [103,] -1.442238e+00 -6.800478e-01 0.5115489216 7.794068e-01 0.8553966728
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## [105,] 1.414103e+00 -4.654347e-01 0.0606882434 1.365380e+00 1.2375353774
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## [112,] 3.435239e-01 -4.834314e-01 0.1593075815 -1.117426e+00 0.4805970211
## [113,] 7.331245e-01 4.746227e-01 -0.5133841434 7.430795e-01 -0.1545191128
## [114,] 4.242907e-02 8.987141e-01 0.2904878185 -3.805301e-01 0.4795872605
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## [118,] 1.102877e-01 -7.750562e-01 0.3769995609 -1.209838e-01 -0.7291033269
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## [121,] -2.549755e-01 7.112481e-02 -0.3241417344 5.106448e-01 -0.7382561906
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## [124,] 5.034121e-01 7.018191e-01 2.6401598243 3.323261e-01 1.3369339873
## [125,] -1.086915e+00 -1.449184e-01 -1.1663332718 -4.476250e-01 -0.2589624776
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## [129,] 1.899631e+00 1.591717e-01 -1.8408554744 8.164980e-01 -0.7074357961
## [130,] -5.609791e-01 -1.177583e+00 1.4037612150 3.711702e-01 -0.6013075321
## [131,] -5.552808e-01 -7.952905e-01 -0.3781676342 -1.453624e-01 -1.3330264651
## [132,] -5.796419e-01 -1.918098e-01 -0.0301807248 9.694529e-01 -0.6071947724
## [133,] -2.482688e-01 6.384151e-01 -2.2651011089 -2.958932e-01 -0.4844026367
## [134,] 1.705999e+00 9.948130e-01 -0.5815193728 1.908559e+00 0.3560866921
## [135,] -2.284781e-01 -1.432177e+00 0.1471865771 5.247356e-01 -3.6883794766
## [136,] 1.311507e-01 1.341801e+00 0.4236292579 -7.709612e-01 0.3660019470
## [137,] 9.960822e-01 4.126197e-01 -0.2406925015 5.756540e-01 -2.8815714275
## [138,] -2.624418e-01 -6.510578e-01 1.2651732842 3.987415e-01 -0.0244033548
## [139,] -1.106619e+00 1.397798e+00 0.0397452171 -1.247893e+00 0.4696006376
## [140,] 1.263174e+00 7.664551e-01 1.4472360160 4.325485e-01 0.6653875294
## [141,] -2.423390e+00 1.138923e+00 -0.0602748764 -5.057147e-01 0.4299787442
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## [145,] -4.909349e-01 4.787376e-01 0.4062892843 1.033100e+00 -0.6341605296
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## [157,] -1.323427e+00 -1.555024e+00 1.0595536886 -4.851626e-01 0.8747801079
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## [163,] -1.833307e+00 2.884235e-01 0.9135904280 -1.418360e-01 1.2649321910
## [164,] 5.092717e-01 1.719333e+00 0.9363274544 -1.008855e+00 1.4528057949
## [165,] 1.026396e+00 9.643969e-01 -0.6314850025 -1.239290e-01 -0.4282819437
## [166,] -1.957174e-02 -1.804368e-01 1.0809268944 6.239430e-01 0.7909178466
## [167,] -2.870808e-02 -1.826817e-01 1.3123921734 2.992269e-01 0.6096645521
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## [699,]  6.403393e-01  1.280256e+00 -1.3751206913  8.508482e-01 -1.2626262092
## [700,] -2.101171e+00  5.853770e-01  0.6822469874  1.558792e-01  1.5651108869
## [701,]  5.721641e-02 -1.467254e-01  1.6562813599  8.036118e-01 -0.0969214182
## [702,]  1.874868e-01  1.310630e+00 -1.0285947379  4.585298e-01 -0.5192595255
## [703,] -4.147343e-01  1.120067e+00 -0.0812173167  1.397476e+00  1.1820326554
## [704,]  6.260826e-01  3.554512e-01 -1.9573222957 -1.914713e-01  1.0703557547
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## [706,] -5.082225e-01  1.012661e+00  0.2822029053 -1.087525e+00  0.5235372988
## [707,]  8.720333e-02 -3.652488e-01 -0.1706310537 -1.473800e+00  0.1649632462
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## [880,] 1.333743e+00 -1.464912e+00 -0.2340013140 -1.717289e-01 1.3317653425
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## [1050,]  2.866848e-01  1.058512e-01  1.4172987392  6.564028e-01  0.4276212681
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## [1053,]  1.382209e-01  3.496551e+00  0.3590721009 -7.484412e-01  0.4054425554
## [1054,]  7.531474e-01 -7.968271e-01 -0.7020297055  1.763359e+00  1.1309525525
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## [1060,] -3.489771e-01 -9.809098e-02 -0.6026142488  5.411180e-01 -0.2806089621
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## [1220,] -1.902605e+00 -1.168189e-01 0.5639068941 8.172159e-01 -1.8117581871
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## [1222,] 7.723785e-01 7.363919e-02 0.0810935897 -4.452922e-01 0.8171070607
## [1223,] -3.045608e+00 -4.629033e-01 0.6868496099 2.880419e-01 0.3164993063

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## [1224,] -8.391854e-02 3.067536e-01 -0.2646478956 7.336873e-01 -0.7474981269
## [1225,] -7.723677e-01 -2.083194e+00 -2.4277723676 -1.478881e+00 1.0057328674
## [1226,] 1.060317e+00 -1.432044e+00 0.1705682030 7.702655e-02 -0.2070220704
## [1227,] 2.076458e-01 1.800566e+00 0.4009962927 1.589670e-01 -0.2421252309
## [1228,] -1.717720e+00 4.404850e-01 -0.4659560624 4.663170e-01 -2.4475965512
## [1229,] -5.800625e-01 -5.503884e-01 0.9149152386 -5.797549e-01 1.4105842721
## [1230,] 6.143787e-02 -1.544495e-01 0.7426596302 -5.502177e-01 -0.5448664965
## [1231,] 6.889390e-02 -1.498410e+00 0.5401767314 -2.490635e-01 0.2049219009
## [1232,] 7.635875e-01 1.727391e+00 0.2867115742 5.019435e-01 -0.7509520462
## [1233,] -1.918407e-01 -9.304528e-01 0.9163331816 1.225463e-01 -1.4675909556
## [1234,] -8.997581e-01 -1.419861e-01 -0.2358627426 -6.367260e-01 -0.1540788671
## [1235,] 2.299609e-01 1.089770e+00 -1.3409278662 -3.038951e-01 0.6717340186
## [1236,] 4.155687e-01 -5.669143e-01 -0.0612096655 -7.921494e-01 -0.0371180460
## [1237,] -1.263715e+00 1.823202e+00 0.0804759810 -1.159542e+00 0.1627660195
## [1238,] -2.907930e-01 4.478970e-01 -2.9998132512 -1.966171e-02 -0.2766718937
## [1239,] 9.607803e-02 -6.447695e-01 -0.8345224582 -1.428457e-01 0.3842471734
## [1240,] 1.033293e+00 1.023489e+00 0.1784364342 1.156469e+00 0.6288318348
## [1241,] 6.845773e-01 -1.352278e+00 -1.3209635976 1.722554e-01 -3.3362469171
## [1242,] 2.088467e+00 -1.910103e+00 0.8475955976 1.326116e+00 -1.6629882720
## [1243,] 9.138491e-02 2.089168e-01 -0.8540993507 -9.385363e-02 -0.4816438286
## [1244,] 1.515748e+00 4.303775e-01 -0.8564157595 6.955881e-01 0.9331365113
## [1245,] -1.047882e+00 8.954511e-01 1.5865526695 -4.901407e-01 -0.9874160966
## [1246,] -4.079011e-01 -3.034849e-02 0.0380887297 8.049244e-01 -0.8537325247
## [1247,] 7.262089e-01 2.311529e-01 -0.7189054931 3.283541e-01 -0.0304436373
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## [1250,] 4.745682e-01 -2.601693e-01 1.1642203577 -2.958807e-01 -0.7404287143
## [1251,] 5.140040e-01 -4.049464e-03 1.3513550160 -6.843906e-01 -1.7406398419
## [1252,] 7.999807e-01 1.074330e+00 0.9174635183 -1.442276e+00 0.3189098008
## [1253,] -4.353515e-01 8.122060e-01 -0.5888718540 -1.807485e-01 -0.3867293432
## [1254,] 6.701568e-01 -5.132826e-01 0.0960959983 5.399455e-02 1.2970872025
## [1255,] -1.055712e+00 -2.730277e-01 -0.3031408106 -7.694485e-03 0.4972968458
## [1256,] -2.728281e-01 -3.333856e-01 0.6199530137 -3.564367e-01 0.7290183187
## [1257,] 1.177775e+00 -2.013463e-01 -0.4147630432 5.716384e-01 -0.0523394868
## [1258,] -7.607781e-01 4.821428e-01 -2.1782362192 3.789021e-01 -0.8301020240
## [1259,] -5.696301e-02 7.453879e-02 -0.8827383739 -8.927864e-01 0.5555922898
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## [1264,] -9.238401e-01 4.233674e-01 -0.3996031702 1.478157e+00 0.1575351205
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## [1274,] -1.299156e+00 -4.474004e-04 1.3624736447 5.453447e-01 0.0605792240
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## [1276,] -1.906134e-01 6.989665e-01 0.2181694023 1.090666e+00 -0.5118782676
## [1277,] 2.539277e+00 6.755796e-01 0.2777775982 1.038161e+00 -0.8945813024

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## [1278,] 1.444363e+00 -6.728799e-01 0.4795780554 1.877884e-01 -1.5885485306
## [1279,] 1.033692e+00 -4.833579e-01 -1.3532674775 -2.166027e-01 -0.3728507007
## [1280,] -2.840049e-01 -8.451501e-01 -0.1163965319 9.588696e-01 0.9372122164
## [1281,] -2.849415e-02 -1.290902e+00 -0.9179086768 -5.811305e-01 -0.8271514276
## [1282,] 3.651786e-01 7.367394e-01 -0.5051419352 1.123766e-01 0.1712510729
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## [1287,] -3.880704e-01 1.684300e-01 -0.2347316428 4.914930e-01 0.1235205085
## [1288,] 7.293896e-01 -4.743943e-01 0.7052701266 1.023276e+00 1.0405281369
## [1289,] -5.032355e-02 2.250515e+00 0.4305890715 -3.263162e-02 -1.2002826882
## [1290,] -7.692856e-01 -4.818987e-01 0.7989048427 -4.298387e-01 0.6716379684
## [1291,] 1.572513e+00 -1.047346e+00 -0.0360345903 -9.753051e-01 0.6679985998
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## [1293,] 7.262209e-01 -6.805384e-01 -1.6709133987 1.127233e+00 1.0526593247
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## [1297,] 4.626338e-01 1.208507e+00 0.6670506883 4.990744e-01 -0.4633581561
## [1298,] 3.813390e-01 -6.181458e-01 0.2925165860 -6.383859e-01 -0.6527735203
## [1299,] -1.211270e+00 -4.564158e-01 -1.2765524152 -4.298205e-01 0.4183341532
## [1300,] 9.472033e-01 -2.974838e-01 1.0589107990 1.157357e+00 -1.3832642989
## [1301,] -4.423969e-01 2.552139e-01 1.5205108002 7.710059e-01 0.7841362762
## [1302,] 1.597548e-01 -7.010687e-01 0.8474613469 4.195423e-01 1.1186338195
## [1303,] -2.323088e-01 4.638477e-01 0.3438030000 2.608700e-01 -0.5945068388
## [1304,] 2.269627e+00 8.421183e-02 1.1053253640 -1.437949e+00 -1.2060877895
## [1305,] 3.481499e-01 9.973760e-01 2.3470260914 2.660069e+00 -1.2140926220
## [1306,] -7.553902e-02 -4.974574e-01 -0.0097613380 -2.716188e-04 0.0270810850
## [1307,] -3.246071e-01 -8.744742e-01 0.5685203401 7.246139e-01 0.3906237682
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## [1309,] 5.708439e-01 -4.003818e-02 -1.4217315457 -1.206059e+00 -1.8039964945
## [1310,] -1.420512e-01 -4.064065e-01 0.3228045524 8.047639e-01 -0.9962895031
## [1311,] -4.066466e-01 3.498663e-01 0.4311044019 1.487529e+00 -1.9897431575
## [1312,] -3.496194e-02 5.605223e-01 0.5973367409 -8.611842e-02 1.0066655424
## [1313,] -6.370828e-01 -1.877517e+00 -0.2182758390 4.911275e-01 -0.2405365438
## [1314,] 5.738624e-01 -1.083380e+00 0.3534123045 -1.138087e+00 -0.7353011676
## [1315,] 7.055984e-01 -9.702996e-01 -1.6360049855 2.672459e-01 0.8066186897
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## [1317,] -9.219681e-01 -5.407583e-02 -0.4862574848 -6.837431e-01 -1.3970831416
## [1318,] 1.220365e+00 1.794940e-01 -0.9020814209 -1.977994e-01 -1.1343040846
## [1319,] -3.564247e-01 -1.876250e-01 0.1341087458 -1.577480e+00 -0.8343682317
## [1320,] -7.828962e-01 1.186804e+00 1.5342654213 2.540587e-02 1.9857852670
## [1321,] 3.713385e-01 -4.553458e-01 0.4704748716 2.130474e+00 -0.6219531585
## [1322,] 1.389973e+00 5.629527e-01 -0.2318293673 1.996994e-02 1.1235589301
## [1323,] -1.603928e-01 1.765673e+00 0.1930608321 1.649027e-01 0.0282677261
## [1324,] -6.545673e-01 1.562101e-01 0.1105413514 -1.717540e-01 -0.5829388644
## [1325,] 1.218429e+00 -3.728638e-03 0.4845618253 1.260949e+00 -0.9823264662
## [1326,] -1.250397e+00 4.976040e-01 -0.4434922892 7.103949e-01 0.7209803985
## [1327,] -7.809849e-01 -1.318346e+00 -0.6136397361 3.627201e-01 0.0651706261
## [1328,] 2.912829e-01 -2.584462e-01 -0.9036535712 -1.214299e+00 0.8354603172
## [1329,] -4.576269e-01 -1.105029e-02 1.4315582045 2.917053e-03 -0.2868813602
## [1330,] 6.376946e-01 1.039585e+00 1.3536390446 1.119882e+00 -0.7855358686
## [1331,] 3.798269e-01 3.031071e-02 -0.1593763277 -2.973388e-01 -0.7053235724

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## [1332,] -1.366907e+00 -1.430815e+00  0.4362126083  2.540194e+00  2.0775260808
## [1333,] -4.299820e-01  4.434313e-01 -0.3990351749  2.360920e-01  0.8754976069
## [1334,] -3.777460e-04 -2.735806e-01  0.3639251480  7.244642e-01  1.4140122174
## [1335,]  4.089802e-01 -6.817125e-01  0.7457406569 -8.464596e-01 -0.9012825801
## [1336,] -1.108779e+00  3.526367e-01  0.3825958670 -9.208900e-01  1.6051827369
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## [1338,]  2.887697e+00 -3.182120e-01 -0.9850601581  2.536926e-01 -1.1761568044
## [1339,] -1.745119e+00  1.215422e+00 -0.1427144021 -6.553200e-01  0.4378710004
## [1340,]  8.308159e-02 -1.251457e+00 -1.2314058362  3.615450e-02 -0.4997668376
## [1341,]  1.315037e+00 -6.378078e-01 -0.6171828628  2.773156e+00  0.4213788506
## [1342,]  1.258922e-01 -7.886861e-01 -1.1530922094  9.774224e-01  2.0283517630
## [1343,]  1.346958e+00 -1.581685e-01  0.4384339000  1.329832e+00  0.3810016140
## [1344,] -3.070934e-01 -1.526951e+00 -1.2531585001  2.916381e+00 -0.4440795234
## [1345,] -1.254525e-01 -3.164358e-01  1.6691020980 -4.952188e-01  0.2732203471
## [1346,] -1.125266e+00 -1.252867e+00 -0.5676451728  1.252547e+00 -2.0352183363
## [1347,]  3.907390e-01 -8.887826e-01  1.0398942224 -6.217201e-01 -1.0513383661
## [1348,]  5.390535e-01 -1.820024e-01  2.6649485656 -2.177220e-01 -0.9888113312
## [1349,] -6.036916e-01  9.051495e-02 -1.5517077679  1.149416e+00  0.2386939458
## [1350,]  1.894880e-01  1.671835e+00  0.4989905688 -2.241156e-01  0.4260879541
## [1351,]  3.291375e-01 -3.205355e-01 -1.3045236400  5.204099e-01  1.8537426580
## [1352,]  7.800640e-02 -5.509937e-01 -0.9777220430 -7.860164e-02  0.8087806242
## [1353,]  9.802912e-02  1.876467e+00  1.8206233433 -3.313179e-01  3.7444098125
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## [1357,]  2.498007e-01  6.540738e-01 -0.2204751067  1.313883e+00  0.8489487876
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## [1359,]  1.070341e+00  1.599405e+00  0.2432500208 -1.321072e+00  0.7598115549
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## [1362,] -1.709528e+00  1.340161e+00 -0.4318027147 -1.422003e+00  0.1183486906
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## [1367,]  4.981554e-01  7.967318e-01 -0.6249724797  1.233293e+00 -0.2980899784
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## [1370,] -1.389404e+00 -2.467608e-02  0.1185704744 -4.840372e-01 -1.0038779034
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## [1372,] -8.871514e-02 -1.103575e+00 -0.6797600031 -7.523854e-01  0.3167320415
## [1373,] -2.321911e-01 -7.645218e-01  0.5975452726  3.733672e-01 -0.1579301511
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## [1375,]  9.849495e-01 -7.271625e-01  0.3273838617 -1.993141e+00 -1.0539376576
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## [1381,]  7.150823e-01  1.131407e+00 -0.3526527651 -1.670363e-01 -0.6336180454
## [1382,]  8.260226e-02 -1.564544e+00  0.2650064588 -8.632902e-01 -0.3823147301
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## [1384,]  3.569830e-01 -9.356120e-01  0.2993637149  5.509899e-02 -0.7177685475
## [1385,] -1.701201e-01  1.568103e+00 -0.9156354531 -1.480104e+00 -0.3021868154

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## [1386,] 1.817905e-01 1.652213e-01 0.1073246792 5.016546e-01 -0.1724006680
## [1387,] 3.267560e-01 -5.316071e-01 0.0295869551 -2.509365e-01 -1.0065196168
## [1388,] -1.406427e+00 -4.827355e-01 -1.5925944440 -5.011792e-02 -0.5910767954
## [1389,] 6.377777e-02 8.744158e-01 -0.2801491676 9.932039e-01 1.0387052184
## [1390,] -8.270647e-01 -4.310774e-01 -0.8449646406 -1.011139e+00 -0.0461452939
## [1391,] 1.080295e+00 -2.328636e-01 0.0019630827 -6.184006e-01 1.0456769255
## [1392,] 4.316587e-01 -7.744415e-01 0.3133659236 -2.239409e-01 -0.5398319717
## [1393,] -6.354520e-01 1.167896e+00 0.0163159912 7.259986e-01 0.7458960466
## [1394,] -6.261160e-01 3.529729e-01 -0.8712496754 1.129996e-01 0.0330775045
## [1395,] -1.634755e+00 1.780306e-01 -0.5719934585 -3.392835e-01 -0.2272534106
## [1396,] 1.543765e+00 -9.945291e-01 -0.0869488293 -1.027718e+00 -0.2716798574
## [1397,] 1.253331e+00 -7.724810e-02 0.5725088132 5.885540e-01 1.4912549450
## [1398,] 2.694619e-02 3.891531e-01 1.1167246706 -2.280975e-01 0.9175569030
## [1399,] -8.404392e-02 2.769653e-01 -0.9583616815 1.516160e+00 -0.0584832196
## [1400,] -7.494619e-01 -6.324556e-01 -2.1438491618 -8.823042e-01 -0.0053041586
## [1401,] -2.177706e-01 -4.409423e-01 0.9271261363 -2.610163e+00 0.0456718939
## [1402,] 2.492616e-01 1.087721e+00 0.9388650959 -1.357536e+00 0.2971089066
## [1403,] -8.384564e-01 -6.943298e-01 0.0916307760 -5.270791e-01 -0.4333280261
## [1404,] -1.866431e+00 9.264391e-01 0.6948370089 -7.601495e-01 -0.6692790810
## [1405,] -1.305934e+00 -8.044062e-02 0.7514667690 2.991319e-01 -0.2573967048
## [1406,] -1.654321e+00 8.503470e-01 1.1991418423 -1.062468e+00 0.3763707723
## [1407,] 8.316314e-01 4.049300e-01 -0.2519726921 -3.410481e-01 0.3345592021
## [1408,] -6.568476e-01 4.791706e-01 0.2514241753 -1.948609e+00 -0.6300441256
## [1409,] 1.790983e+00 -1.399295e+00 -0.2000348361 2.942322e-01 0.3758555344
## [1410,] -3.629620e-01 -4.058376e-01 -0.8278629058 2.428863e-01 -0.7701846655
## [1411,] 6.382074e-01 1.265303e+00 -0.1905452458 -6.619057e-01 0.3214714003
## [1412,] 7.283406e-01 -8.169126e-01 0.7220222606 9.218257e-01 -0.6357283900
## [1413,] -1.172735e+00 1.218946e+00 1.0371816672 1.338868e+00 1.5334445686
## [1414,] 1.078849e+00 -1.044770e-01 -0.0045053906 5.611054e-01 1.2574747677
## [1415,] -4.749186e-01 -6.975117e-01 1.7113578061 2.819484e-01 -0.7282312193
## [1416,] 7.410658e-01 -7.453355e-01 1.0239420730 -1.561725e+00 -0.3991608473
## [1417,] -7.169219e-01 9.098446e-01 -0.7586827122 5.221263e-01 0.8439632852
## [1418,] 3.107524e-01 6.584439e-01 -0.0122923509 -1.012242e+00 -1.4361802393
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## [1433,] 1.769725e+00 -1.900352e+00 -1.6051520142 9.919987e-01 2.3351746726
## [1434,] 6.302154e-01 9.237089e-02 1.4464458339 6.504429e-01 0.4631854545
## [1435,] 2.082891e-01 2.436421e+00 -0.6133805488 2.492622e-01 1.0853747001
## [1436,] -1.437024e+00 1.270013e+00 0.9813720638 2.953268e-01 1.2614114205
## [1437,] -4.744194e-01 3.209832e-01 0.0868753998 1.113232e+00 0.9372414370
## [1438,] -9.207404e-01 5.884366e-01 1.2764195449 -2.320997e-01 -0.0958910944
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## [1440,] -1.532685e+00 5.677445e-02 -0.1093571458 8.400763e-01 1.2551146978
## [1441,] -7.860216e-01 -4.417450e-01 -0.5119505016 5.392737e-01 1.1529722554
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## [1457,] 5.756540e-01 -1.432805e+00 -0.1743816925 -6.381949e-01 -1.9097779206
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## [1475,] 7.204423e-01 -7.639219e-03 -0.9393827343 1.243415e+00 -0.8547527318
## [1476,] -2.105155e-01 3.713075e-01 1.3640724087 -1.755155e-01 -0.2721413274
## [1477,] 4.978152e-01 -3.503966e-01 1.3103488071 3.750208e-01 -1.2006764387
## [1478,] 1.583738e-01 -9.343010e-01 1.0132122591 3.816617e-01 -0.9740909390
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## [1481,] 5.773705e-02 1.427747e-01 -0.4407638468 -7.486652e-01 0.2405613341
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## [1493,] -9.597439e-01 1.133893e+00 -0.5332302278 -3.285195e-01 -0.1075490171

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## [1494,] 2.218202e-01 -1.933107e+00 -0.3124753783 2.473298e+00 0.4015091885
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## [1498,] -2.513126e-01 -1.067001e-01 -0.5909152008 8.198867e-02 -0.1258201114
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## [1501,] 5.056085e-01 5.197240e-01 -0.1231736017 8.755494e-01 -0.5973410156
## [1502,] -1.499082e+00 1.829021e-01 -0.6220181376 1.349860e+00 0.1908733939
## [1503,] 2.836652e-01 -1.557006e-01 1.5229235710 1.639027e+00 -1.3371021089
## [1504,] 1.448181e-01 2.405530e+00 -0.5824609642 4.828996e-01 1.4055745115
## [1505,] -8.158661e-01 6.590055e-02 1.9242639648 2.027696e+00 -0.6627258961
## [1506,] 4.770973e-01 2.330782e-01 -0.6124727740 1.263262e+00 0.9174849506
## [1507,] 5.121413e-01 6.040593e-01 -0.6449373166 1.315715e-02 -2.1666457515
## [1508,] 1.516638e+00 4.299745e-01 1.0327917749 -2.065238e+00 0.3888520010
## [1509,] -1.032855e+00 -4.451862e-01 0.3541415152 -2.492238e-01 0.1798974872
## [1510,] 6.329687e-01 -2.520602e+00 2.1721929231 -4.213756e-01 0.1729965200
## [1511,] 1.081959e-01 -3.594051e-02 -0.6286437052 -2.833469e-01 0.3980310631
## [1512,] -2.538126e+00 2.390964e-01 1.9372413520 -3.999431e-01 -0.9864339287
## [1513,] -3.186536e+00 1.410834e+00 -1.1663976767 -2.587293e-01 -0.4131904605
## [1514,] -5.822415e-01 -5.261421e-03 0.5978778381 1.641376e-01 -0.2789114933
## [1515,] -1.814840e+00 1.925383e+00 -0.3187857284 -1.044449e+00 0.2795952166
## [1516,] 1.604109e-02 3.922374e-01 -1.4580784961 1.265472e+00 -0.0836752041
## [1517,] 3.613475e-01 -1.010216e-01 -1.8492631800 1.809042e-02 0.1558657540
## [1518,] -4.514044e-01 6.558030e-01 1.3307715652 1.035521e+00 -1.1283133146
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## [1520,] -5.514524e-01 2.168826e-01 0.4097084145 -1.249353e-02 -0.7981513272
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## [1523,] 2.863856e-01 -3.575329e-01 -2.0394821188 4.767714e-01 -0.1849074802
## [1524,] -1.784108e-01 1.206781e+00 -1.8066761445 -6.996826e-02 0.8802146815
## [1525,] -1.244533e+00 4.562369e-01 -0.0945590288 9.553768e-01 0.7441527271
## [1526,] -1.354758e-01 -8.814633e-01 1.1470809015 6.508606e-01 -1.6631454913
## [1527,] -4.590980e-01 -9.343038e-01 2.7997770773 -1.805803e-01 -1.2031918743
## [1528,] 1.433312e-01 2.027357e+00 -0.0451540635 -2.359951e-01 -0.3532204526
## [1529,] -4.593614e-02 4.324026e-01 0.1263270227 2.418223e-01 1.2126778938
## [1530,] -2.799600e-01 1.016352e-01 -1.9816341297 1.663346e-01 -0.7643905501
## [1531,] 2.566429e-01 2.350299e-01 0.5883549790 1.137756e+00 -1.0738950158
## [1532,] 1.221600e+00 -4.326427e-01 -0.3030081912 -1.037086e+00 1.7073850194
## [1533,] 1.440938e+00 8.672695e-02 -1.4787911541 -1.391008e+00 0.9320383854
## [1534,] 4.511220e-01 -4.765313e-01 -0.3964434092 -8.948040e-01 1.1292838187
## [1535,] 1.090787e+00 1.057355e+00 -0.0905066152 -1.060935e+00 0.0949020522
## [1536,] 1.232890e+00 -1.157762e-01 1.3950513224 8.727802e-01 -0.6111086759
## [1537,] 9.585099e-02 5.188999e-01 -0.4852778829 9.463369e-02 1.5567390662
## [1538,] 9.927182e-01 1.905242e-01 0.1005150344 -3.069441e-01 1.2207411347
## [1539,] -4.627857e-01 1.073862e+00 0.1781854507 8.695908e-01 0.4280060834
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## [1542,] -1.895697e+00 -9.314241e-02 0.8236229212 -5.323177e-01 -0.6351641856
## [1543,] 5.429834e-01 1.391964e+00 0.7024135113 6.538042e-01 1.5650918673
## [1544,] 1.578756e+00 1.650071e+00 -0.3230915326 -9.837547e-02 1.1207496272
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## [1546,] -4.766306e-01 -5.251900e-01 -1.2219806230 7.806002e-01 0.0489021700
## [1547,] 1.021458e+00 -4.868414e-01 -0.2470668080 -8.070968e-02 -0.4640340861

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## [1548,] -1.247445e-01 4.733676e-01 0.4993709220 -9.182301e-01 0.7128233287
## [1549,] 1.884477e+00 -1.155183e+00 -0.4049706489 -4.866901e-01 0.2751534938
## [1550,] 3.209451e-02 -1.247858e+00 0.3145581588 4.837166e-01 -0.0840204745
## [1551,] -9.907533e-01 -6.581337e-01 -0.2160728667 7.772163e-02 0.5882600104
## [1552,] 4.399360e-01 3.069588e-01 -0.5266132582 7.169817e-01 1.3665369706
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## [1558,] -1.607307e+00 -3.719825e-01 0.6155885496 -4.000904e-01 -0.4206337475
## [1559,] -8.821887e-03 -2.728276e-01 -0.7578685900 1.461857e+00 -0.6108886517
## [1560,] 5.773969e-01 9.833282e-01 -0.5182448054 -1.917529e-01 -0.2934277485
## [1561,] -8.255801e-01 -1.265758e+00 -0.6081409262 -1.026164e+00 0.2369814095
## [1562,] 2.182937e-01 1.396581e+00 0.7554443978 -4.198525e-01 -0.9361465252
##          PC61        PC62        PC63        PC64
## [1,] 0.7215733762 -1.198171e+00 4.783683e-01 0.1278075207
## [2,] -0.9187534604 5.291611e-01 1.191354e-01 0.8389357624
## [3,] -0.1552828995 4.353147e-01 5.053902e-02 0.3944483753
## [4,] -0.1481383134 2.169326e-01 -2.016006e-01 -1.4028314223
## [5,] 0.2762410761 6.396156e-01 4.878298e-01 -0.5135161127
## [6,] 0.7458101426 8.548865e-02 -1.829112e+00 0.1075596532
## [7,] -1.0271898967 -4.872056e-01 -4.212517e-01 1.3328015415
## [8,] -0.6973034229 -2.924990e-01 -5.750861e-02 0.1605596841
## [9,] -3.5659190182 -1.915644e+00 -9.508979e-02 -0.5914898398
## [10,] 0.0987633115 1.778896e+00 -8.975726e-01 0.8365470523
## [11,] 0.7968960985 1.458019e+00 -5.391362e-01 1.2348577324
## [12,] 1.2105349251 4.258773e-01 1.356704e+00 -0.4293801839
## [13,] -0.7071809293 1.675546e-01 2.834932e-01 0.0838234376
## [14,] 0.6715159061 -7.524762e-02 -4.191371e-01 0.2253539748
## [15,] 0.8296925729 1.592545e+00 -4.308692e-01 -0.4860703984
## [16,] 1.1528593667 1.255103e-01 7.213609e-01 -1.1918322797
## [17,] 0.9095316116 -8.868742e-01 -6.116397e-01 0.6568653900
## [18,] 0.8788539357 1.474931e-01 -2.859513e-01 1.3104118426
## [19,] -1.7327179126 -4.664292e-01 3.686907e-01 0.3703969147
## [20,] -0.6322225953 5.278081e-01 -1.982582e-01 -0.6433445768
## [21,] -1.0604971347 2.894842e+00 7.042325e-01 2.8188408925
## [22,] -0.2989820580 7.866069e-01 3.959433e-02 0.4934450779
## [23,] 0.5366651745 1.076886e+00 1.193719e-01 -0.7048849311
## [24,] 0.1636630692 -3.792644e-01 9.828615e-02 0.4403212398
## [25,] -0.3388005787 -4.407809e-01 6.938709e-01 0.1745393233
## [26,] -1.3967426138 3.622594e-01 -1.158362e+00 -0.5311514739
## [27,] -0.1150695301 2.829573e-01 2.200231e-01 1.6305586355
## [28,] -1.0006807816 -1.919200e+00 -2.638754e-01 -0.0756546930
## [29,] -1.1623289483 5.788762e-01 -6.803334e-01 -0.3656600964
## [30,] 1.3519117305 9.618293e-01 1.121811e+00 -0.1131673424
## [31,] -0.8424948341 -5.741275e-01 -3.086534e-02 1.2929536860
## [32,] 0.2490150313 1.058577e+00 5.034870e-01 -0.7336135514
## [33,] -1.8408389287 -1.489837e+00 5.013657e-01 -0.8124905898
## [34,] -0.8842719284 -1.054061e+00 -1.640344e-01 -0.7095443052
## [35,] 0.6624325913 -9.226751e-01 -4.182757e-02 -1.0255409220
## [36,] 0.1364297184 6.862896e-02 6.652491e-01 -0.1145466236
## [37,] 0.3100023833 -1.930573e-01 -3.723488e-01 -1.0595543689
## [38,] 0.8326244444 -3.665252e-01 -1.038130e+00 0.2749861150

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## [39,] 0.2204410788 -2.191556e-01 2.459665e+00 -1.1121792745
## [40,] 0.5861476873 -1.140506e-01 1.311487e-02 -0.0870174106
## [41,] 0.9661413664 2.905672e-01 -5.029446e-03 0.3227436496
## [42,] -0.1614273006 -3.048410e-01 -1.263028e+00 -1.9939263960
## [43,] 0.0017904559 -1.356309e+00 -1.880886e+00 0.7190466349
## [44,] 0.2053664636 -2.328130e+00 -2.368562e+00 1.3291596685
## [45,] 0.0960232740 1.259245e+00 -1.799380e+00 0.7637650545
## [46,] -0.2867888950 8.009873e-02 5.897413e-01 0.4128786093
## [47,] -1.2806119665 1.562825e+00 8.607494e-01 0.6675889119
## [48,] 0.0333730352 -7.520114e-01 -9.259178e-01 -0.2613324757
## [49,] -1.9602712181 -1.873727e+00 -1.475620e-01 0.4965991348
## [50,] 2.2260489744 1.336889e-01 4.758907e-01 0.7575446184
## [51,] -0.3317303165 -7.904239e-02 8.910260e-01 -0.2563848881
## [52,] -0.1913183106 -5.348201e-01 -2.465446e+00 -0.4370322944
## [53,] 0.3620027605 -1.731507e+00 -2.284161e-01 -1.1300406108
## [54,] 0.1458632603 -2.303215e+00 -1.385986e+00 1.6693634882
## [55,] 1.8662002455 5.278079e-01 -5.068706e-01 0.8943563064
## [56,] -1.1559110697 -8.965534e-01 4.013466e-02 0.8662089372
## [57,] -0.6875972844 1.153652e+00 7.533277e-03 0.1694358592
## [58,] -0.2891102026 1.196521e+00 -1.843130e-01 0.4609176314
## [59,] 0.4922415904 2.225128e-01 -3.274720e-01 1.4755628631
## [60,] 0.6803940860 -4.462398e-01 -1.281326e-01 -0.6493211075
## [61,] 0.8690257464 7.603404e-01 1.893237e+00 0.2851586230
## [62,] -0.2884205224 -1.844013e-02 -7.643600e-01 -0.2941528842
## [63,] -0.8234915377 -1.115953e+00 -4.637205e-01 -2.4887813755
## [64,] -0.6607472342 -2.075662e-01 1.741237e-01 -0.8139335263
## [65,] -1.1405722873 -4.740496e-01 8.256304e-01 1.4160960265
## [66,] 0.0132035755 -1.025289e-01 -1.670224e+00 -1.4333420667
## [67,] -0.5311234332 7.758235e-01 1.159338e+00 0.5287103052
## [68,] 1.0512671306 1.828100e-01 -1.052474e+00 -0.4404178113
## [69,] -0.0787069227 4.630301e-01 2.782888e+00 -0.2250996653
## [70,] 0.8274270595 5.213144e-01 1.070697e+00 0.1664624894
## [71,] 0.9170518774 -1.392110e+00 1.214275e-01 0.5392142333
## [72,] -0.1497804662 -7.962779e-01 1.324013e-01 0.9876841105
## [73,] -0.0958615262 -7.166453e-01 -6.102255e-01 0.5048009690
## [74,] -0.5844042234 1.077293e+00 5.205129e-01 -0.4714562810
## [75,] -0.5489777644 -4.589079e-01 1.046616e+00 -0.1310777508
## [76,] -0.8433809050 -4.167784e-01 -4.762866e-01 0.1684837585
## [77,] 1.4759891708 6.693167e-01 2.867735e-01 -1.1366452369
## [78,] -0.5935511000 -1.512042e+00 9.895613e-01 0.7801757641
## [79,] -0.3296941179 -1.168370e+00 -1.504275e+00 0.5083943342
## [80,] -0.4320149338 1.749451e-01 -2.334115e-01 0.2588633005
## [81,] 0.3321791957 4.890230e-01 -1.634026e+00 0.1507437488
## [82,] 1.0575569304 -2.670381e-02 1.400439e+00 -1.0890881033
## [83,] -0.0864332827 -7.939163e-01 2.256291e+00 0.4170462068
## [84,] -0.9977543854 7.777453e-01 1.125811e+00 -0.8225236636
## [85,] 0.0885084217 2.770750e+00 5.033872e-01 1.4813325883
## [86,] 0.4782572761 -3.905474e-02 -5.724638e-01 1.4580097657
## [87,] -0.7648124781 -6.826589e-01 1.790593e+00 -0.5608416266
## [88,] -1.0991623090 5.822925e-02 -2.706820e-01 -0.6056545495
## [89,] -0.8054646801 -1.451804e-01 2.786221e+00 -0.2088584005
## [90,] 0.0550066519 1.825510e-01 -7.794297e-01 1.2134118630
## [91,] 1.1416873320 -3.404676e-01 -9.295305e-01 -0.0827716289
## [92,] 0.1530678429 -3.583044e-01 6.833477e-01 0.6446999142

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## [93,] -0.6322325104 1.088272e+00 7.125065e-01 0.6346420719
## [94,] 1.0999379057 2.454762e+00 4.269727e-01 -0.4462873586
## [95,] -0.4472515710 1.580933e-01 -6.562684e-01 0.2643191942
## [96,] -0.0681130343 1.210958e+00 -4.831665e-01 -0.6871927605
## [97,] -0.2851730049 -2.261643e-01 8.414016e-01 1.3660559594
## [98,] -2.8100333919 -2.307245e-01 5.004795e-01 -0.5432339475
## [99,] 1.5519102832 7.312018e-01 6.459360e-01 -0.7926851940
## [100,] 1.6656014945 9.736801e-01 9.137148e-01 -1.1617660494
## [101,] 0.2443882874 -1.289366e+00 -1.563554e+00 -0.3356764196
## [102,] -0.2614597339 -8.567661e-01 1.812710e+00 1.1520130418
## [103,] 1.4331432289 1.145587e-02 6.871810e-01 0.6427523268
## [104,] 0.7523339945 1.240327e+00 7.804628e-01 -1.0936457638
## [105,] -0.3049704227 -1.898720e-01 -1.922156e-01 -0.8179925857
## [106,] -0.0047251900 1.950284e-01 7.505127e-01 -0.1238170952
## [107,] -0.4342039935 4.691397e-01 -9.277118e-01 -0.6138028851
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## [110,] -0.4917722629 6.559747e-01 -1.371470e-01 1.5834370109
## [111,] -0.0673838080 -1.304448e-01 8.499988e-01 0.7869660542
## [112,] 0.6303729612 4.605669e-01 3.182368e-01 0.2654561030
## [113,] 1.4963116202 -1.247183e+00 -7.912718e-02 0.0894244255
## [114,] 0.8996822673 -4.476299e-01 -7.200023e-01 -0.2789564195
## [115,] 1.1866613968 -3.075883e-01 -3.135661e-01 -0.9734804118
## [116,] -0.8846386829 1.561070e+00 1.811192e-01 0.3442959166
## [117,] -0.0488958578 5.113018e-01 -5.470890e-02 0.0342279912
## [118,] 0.8731596706 3.353033e-01 -1.120071e+00 0.5144843149
## [119,] 0.2807428223 -5.785753e-01 -4.489236e-01 -0.2292566723
## [120,] 0.8234712326 -7.117405e-02 -9.255867e-01 -0.0412099476
## [121,] -0.6700891842 1.423044e+00 -2.397269e-01 0.3917074365
## [122,] 0.2480687813 -7.571027e-01 8.222033e-01 0.1475672610
## [123,] 0.9183817458 -6.982056e-03 4.910269e-01 1.1527947721
## [124,] -2.4190333813 -9.954775e-01 5.501817e-01 -1.0571862786
## [125,] -1.3741368354 -9.647607e-02 -7.097609e-01 -0.2972127780
## [126,] 1.3450404790 8.145111e-01 8.671265e-01 -1.6922349673
## [127,] -0.8239253486 5.136801e-01 -4.637068e-01 -0.5237271145
## [128,] -0.4446812757 -1.913281e+00 -1.454968e-01 -0.5457439059
## [129,] 0.6438482469 3.124887e-01 -4.808528e-01 -0.0411131116
## [130,] 1.0105699927 -1.461011e-02 2.456228e+00 0.5946929852
## [131,] -0.8637380379 -1.158762e+00 -1.754943e-01 0.0964831085
## [132,] -0.4608836303 -1.897733e-01 1.309779e+00 -0.9750991737
## [133,] -2.0323014779 4.003679e-01 -1.410536e-01 -1.7194283613
## [134,] -0.3663883684 -7.619380e-02 1.335837e+00 2.0412201050
## [135,] -0.2701351112 5.291745e-01 -2.402296e-01 0.4964842272
## [136,] -0.6929160861 -1.753946e+00 -1.303346e+00 1.5650890568
## [137,] 1.0230253878 9.688817e-01 -1.704364e+00 -0.2358920351
## [138,] 1.1756177150 -5.374513e-01 1.471719e+00 -0.3353642250
## [139,] 0.0153358440 -1.614193e+00 -7.390121e-01 1.2216047620
## [140,] -1.3583967019 -2.100528e+00 1.584118e-02 -1.8391853484
## [141,] 0.8470381575 -9.552990e-01 -4.839653e-04 0.5218422754
## [142,] 0.1427391879 -4.030206e-01 -1.510311e+00 -0.6652066002
## [143,] 0.6499184939 7.374345e-01 7.714833e-01 -0.6498076790
## [144,] -1.2432310343 -3.012908e-01 2.120805e-01 0.7896465947
## [145,] -0.5405402092 -9.541510e-01 -3.003984e-02 0.4314107539
## [146,] 0.7527933431 1.220364e+00 4.657253e-01 -1.8690986634

```

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## [147,] 0.1654318699 4.812343e-01 -1.285734e+00 -1.6434583661
## [148,] -1.3799863137 1.240900e+00 2.670353e-01 -0.1830413877
## [149,] 0.3108087198 2.551856e-01 1.713382e+00 -0.1633032529
## [150,] -0.5276109542 3.999094e-01 -4.793217e-01 -0.0721687650
## [151,] 0.2738936387 1.164031e+00 -2.405987e-01 1.5355153526
## [152,] -0.7977079902 4.411306e-01 2.089209e+00 0.0953155424
## [153,] -0.3339856057 -1.539159e+00 3.127013e-01 -0.5345316009
## [154,] 1.0019325752 -6.070454e-01 -9.301059e-01 -0.1589788260
## [155,] -0.6123797079 -3.523144e-02 -8.066893e-02 -1.0538075844
## [156,] 0.3975498891 -7.246702e-01 -5.460550e-02 -0.9646477515
## [157,] 0.7409007935 4.433966e-01 -1.649290e-01 0.4756206307
## [158,] -0.5328700003 1.067345e+00 -5.313013e-01 -2.7486901797
## [159,] 1.4338192416 5.462837e-01 1.055680e+00 -0.7943250682
## [160,] 0.8623902192 4.405042e-01 -5.128047e-01 0.2310754425
## [161,] -0.8783419903 -2.057937e-02 -2.177047e-01 0.9077962154
## [162,] -1.2897762247 8.699580e-01 -7.785727e-02 -1.1812237722
## [163,] 0.2891408191 -1.008460e+00 6.205285e-02 -0.4994730475
## [164,] -0.8864524667 -8.007811e-01 -4.662302e-01 1.4478373110
## [165,] 1.8297427566 6.555324e-01 -4.585741e-01 -0.6307062815
## [166,] 0.3388141360 7.368854e-01 -9.914024e-01 0.7817702512
## [167,] -1.2838016686 -3.942729e-01 4.738253e-01 1.7280888625
## [168,] 0.1140642711 1.720245e+00 1.171724e+00 0.4380120705
## [169,] -1.4150293336 -7.222296e-02 -8.016002e-01 -0.1619490068
## [170,] 0.7790186503 7.228861e-01 -4.251775e-01 -0.2796505592
## [171,] -0.5532972051 9.073680e-01 2.566522e-01 -0.5557667586
## [172,] 1.1510606667 1.530023e-01 -1.894154e+00 -0.2971312110
## [173,] -0.0874036247 -1.455175e+00 -1.940302e+00 1.1131379440
## [174,] 1.2657989399 -7.131365e-01 1.915002e-01 0.6570150294
## [175,] 0.1753794062 -9.709070e-01 -4.488580e-01 0.3852929020
## [176,] 0.4750850664 1.827739e-01 -1.480512e+00 -1.2416320229
## [177,] -0.0037483365 -5.688359e-01 -9.799680e-02 0.8537926088
## [178,] -0.9949493403 5.925058e-02 -4.369856e-02 -0.2582377406
## [179,] 0.3308693070 9.137428e-01 -2.147754e-01 1.4799370296
## [180,] -0.7232044743 -1.271088e-01 4.759139e-01 -0.0006454505
## [181,] -0.6262221012 -9.458708e-02 -7.551634e-02 -0.1423120143
## [182,] 0.4889371853 -1.448320e+00 8.912067e-01 -0.7680584356
## [183,] 0.5521720261 -1.088844e+00 -1.236256e-01 0.7796968547
## [184,] 0.8170286291 -1.574172e+00 -3.898055e-01 0.0317857356
## [185,] -0.4051935562 9.413765e-01 4.560291e-01 -0.5406980145
## [186,] -1.1075210974 -1.318977e-01 -2.408154e+00 -0.4373441503
## [187,] 0.1186455270 1.444690e-01 -2.928091e-01 -0.3276264565
## [188,] -0.1314783836 -1.245073e+00 -8.334345e-01 0.9970461202
## [189,] 0.0422509134 1.711810e-01 -1.668134e+00 -0.1250325118
## [190,] -0.3597542369 4.867159e-01 -3.235676e-01 -1.0930734071
## [191,] 0.7150324596 7.512975e-01 -1.997111e+00 -0.3075349575
## [192,] 0.5307307830 2.198458e-01 -9.552949e-01 0.7972079993
## [193,] 0.3773922415 2.206508e-01 1.379282e+00 -0.2636025077
## [194,] -0.5095664537 -8.952915e-01 2.166279e+00 -0.6811608264
## [195,] 1.2368379759 -3.981968e-01 2.431812e+00 1.00000027817
## [196,] -0.6497102526 -5.426633e-01 -9.925477e-02 -1.8920201269
## [197,] 0.1063079377 -1.483100e-01 1.167097e+00 -0.1097004206
## [198,] 0.4882714820 7.013941e-01 2.126469e-01 -0.1833757516
## [199,] 0.4257352666 -1.928093e+00 5.511741e-01 -0.4539170258
## [200,] -1.1221770123 -6.126329e-01 1.427281e+00 0.6650140636

```

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## [201,] -0.5227654148 -3.157419e-01  3.134217e-01 -0.4864468588
## [202,]  0.8281650224  5.225755e-01  2.104652e+00 -0.3266042177
## [203,] -1.2197385375  2.799898e-01 -5.321304e-01 -1.6044711573
## [204,] -0.4821274746 -2.238519e-01 -1.109051e+00  1.3453616563
## [205,] -0.4028140465 -5.305587e-01 -1.753353e+00  0.8240870171
## [206,] -1.4374941401  1.221398e-01 -2.383002e-01 -0.8329155168
## [207,] -2.2941033568 -7.413606e-01 -1.955628e+00  1.3634054414
## [208,] -1.7246869201  8.736711e-01 -2.867965e-01  0.0097386122
## [209,] -0.8097716385  1.073132e+00  2.218036e+00 -0.6710728006
## [210,]  0.3399024243 -9.328038e-01  3.071945e-01  2.5020523246
## [211,] -0.1921311032 -2.075314e+00 -1.636077e+00  1.5926384320
## [212,] -0.0844500552  1.227770e+00 -1.866863e-01  0.2347948073
## [213,] -0.1324890215 -7.265616e-01  2.571837e-01  0.4598383296
## [214,]  0.4487455857  6.981552e-01  7.382607e-01  0.2317205904
## [215,]  0.0439671804  1.230086e+00  4.190549e-01  0.1276483850
## [216,] -0.0698659291 -2.212802e+00 -4.597794e-02 -0.3117616026
## [217,]  0.9386088615 -2.001932e-01  1.375563e-01 -0.4947329361
## [218,] -0.1115039185  2.821173e-01 -1.247818e+00  0.8333143631
## [219,] -0.0804647517  8.509842e-01 -8.445274e-01 -1.5154428364
## [220,] -0.0544516541 -1.063080e-01 -2.056586e-01  0.1530114176
## [221,]  0.7630184212 -4.179056e-01 -1.054079e+00 -0.0170075382
## [222,] -0.1028006840 -5.946899e-01  1.113428e+00 -1.3275758926
## [223,] -0.4223357293 -7.012517e-01  4.971277e-01 -0.1030946414
## [224,]  0.2560488541  7.406717e-01  1.071992e+00  0.8114127305
## [225,]  0.1570746168 -1.360735e-01 -1.209339e+00 -1.4170127898
## [226,]  0.3411779103  3.983241e-02 -9.918232e-02 -0.4420993585
## [227,] -1.4319285743  4.420657e-01  4.575174e-01 -0.2982258933
## [228,]  0.1238809400 -1.477761e+00 -4.006681e-01 -0.3262056194
## [229,] -0.5305236657  9.521991e-01  6.357335e-01 -0.6322603486
## [230,] -0.4459336744  1.371444e+00 -3.463888e-01  0.0339318870
## [231,]  0.0013016295  3.331354e-01  3.380329e-01 -0.6574084754
## [232,] -0.7462412791 -9.452023e-01  5.768247e-01  0.5352195853
## [233,] -0.5852760854 -7.962034e-01  4.676818e-01  0.4763613569
## [234,]  0.8295009353 -4.022333e-01 -1.167731e+00 -0.1929071986
## [235,]  0.1086810639 -6.041517e-01 -7.814238e-01 -0.9035437071
## [236,] -1.8007181887 -1.557362e-01  2.052069e-01 -0.3762806747
## [237,] -0.3890803056 -9.867085e-01  1.921864e+00  0.5275495683
## [238,]  0.4099763945  1.199761e-01 -7.636303e-01  0.3262808003
## [239,]  0.0952102765 -7.164332e-02  9.649671e-01 -0.2197989788
## [240,]  0.4283887718  2.490971e-01 -6.146066e-01  0.2929093926
## [241,] -0.5505270069 -3.910886e-01 -5.024488e-02 -0.2769654193
## [242,]  0.6662042399  1.274725e+00 -2.628877e+00 -1.4323797074
## [243,] -0.1613680767 -3.265705e-01 -2.816863e-01 -1.1600338426
## [244,] -0.7362874047  4.960922e-01  1.336334e+00 -1.1566034600
## [245,] -1.2010455681  1.539290e-01  7.382537e-01  0.2715793742
## [246,]  0.4134482614  1.011965e+00  4.641467e-01 -0.2866297671
## [247,] -0.3037258504 -1.879736e+00  1.055261e+00 -0.3367945246
## [248,] -1.5799914301  4.885559e-02  6.340504e-01 -1.6115055554
## [249,] -1.1328060997 -1.055436e-01 -1.839585e+00 -0.3827078518
## [250,]  1.6384043441  7.165893e-01  1.304310e+00 -1.2254948292
## [251,]  1.6548470622 -2.586734e+00  7.667248e-02 -0.1842175312
## [252,] -0.4489826712 -4.672375e-01 -5.658110e-01 -0.4818272058
## [253,] -0.0070407843 -5.968886e-01  8.998721e-01 -0.4338122476
## [254,] -0.1061511870 -6.768346e-01  1.553655e+00  0.6519421093

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## [255,] -0.4767616805 -5.037752e-01 7.479561e-01 -0.5662747500
## [256,] -0.0502086689 -1.139561e+00 -2.046360e+00 0.6723936025
## [257,] -0.6305765033 -3.598190e-01 -1.796828e-01 0.0615341458
## [258,] -0.4741036918 -1.838596e-01 -2.272201e-01 -0.4406685816
## [259,] 0.1418773098 -2.857052e-01 -5.472358e-01 0.9672404634
## [260,] -1.4495853154 -3.701387e-01 -1.910816e+00 -1.5470076955
## [261,] -0.1227008868 -2.486435e-01 1.162530e-01 0.0918632124
## [262,] -0.3206741009 9.860087e-03 9.563914e-01 1.7526078162
## [263,] 0.4446276199 1.598162e-01 2.817863e+00 0.3230777762
## [264,] 1.4657160354 -7.911709e-02 1.660338e+00 -0.6417607691
## [265,] -0.2211446061 1.028443e+00 1.029113e-01 -0.8996566416
## [266,] 0.4799305280 -1.405471e-01 1.733603e+00 -0.6248055455
## [267,] 1.1846472403 6.908291e-01 5.630332e-01 -0.4809861198
## [268,] -0.1590431143 -3.827597e-01 4.031552e-01 0.1892301911
## [269,] -1.9225506971 1.319921e+00 -1.474715e+00 -1.1976600630
## [270,] 0.4492210341 2.070239e-01 2.511352e-01 0.1945471211
## [271,] 0.3586903525 -4.252006e-01 4.567569e-01 -0.2947596195
## [272,] -1.1347500407 8.746835e-01 -1.201677e+00 0.2131500844
## [273,] 0.9719747804 -8.437094e-01 -1.008468e+00 -0.5038671321
## [274,] -1.1925149490 -5.981015e-01 3.962810e-01 -0.9375990252
## [275,] 0.7681877627 9.487335e-01 -3.152493e-01 -0.3536352756
## [276,] 0.7710123103 -1.054695e+00 -1.124508e+00 -0.3822658984
## [277,] -0.0785678542 -8.201714e-01 -1.121788e-01 -0.9467570016
## [278,] -0.1481210785 3.896640e-01 2.836095e-01 -0.2098549687
## [279,] 1.5072490807 -2.041887e-01 -5.660826e-01 1.2408658433
## [280,] -0.4451723178 -1.189559e+00 -8.619571e-01 1.1509115612
## [281,] 0.5263722042 6.055839e-01 5.286770e-01 1.1828808121
## [282,] 0.8847465053 8.746789e-01 -1.917090e+00 -0.5858017285
## [283,] 0.4572164109 -7.717034e-01 8.066044e-02 -0.3604630209
## [284,] 1.1250202977 1.763478e-01 -2.183239e-01 0.3380259057
## [285,] 1.1537035061 -9.650498e-01 -2.121272e+00 0.0544917676
## [286,] -0.6230691297 -1.496514e+00 7.044768e-02 0.3588239153
## [287,] 0.9877425272 -7.084001e-01 1.422494e+00 0.8430636257
## [288,] 0.6767003254 6.872586e-01 -2.985867e-01 0.6181601065
## [289,] -1.6446535206 1.219384e+00 -4.574188e-01 0.6326149843
## [290,] 1.3995909800 -8.314975e-01 9.513953e-01 -0.0959203490
## [291,] 1.5365356105 2.195222e-01 -5.160003e-01 -0.8560074275
## [292,] 0.5658759278 1.640126e-01 -1.128658e+00 0.1237470649
## [293,] -0.3826320185 1.634355e-01 -1.150861e-01 0.2994841813
## [294,] 0.1327594715 -3.272112e-01 1.012511e+00 1.7076779498
## [295,] 0.0013153802 -1.882342e+00 -2.192667e+00 0.7076444336
## [296,] 0.0015076495 -2.766425e-01 2.886781e-01 1.2535121389
## [297,] 0.4941558085 3.402542e-01 4.739566e-01 -0.0799269143
## [298,] 1.6041726000 -1.311098e+00 -2.328331e+00 0.3151127579
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## [304,] -0.3833226113 2.127001e-01 1.324379e-02 -0.6190358810
## [305,] 0.4861874721 1.272980e+00 -5.060318e-01 1.2509389104
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## [309,] -0.8220994079 -2.720535e+00 -2.081960e+00  1.7856092029
## [310,] -2.6508615884  8.710126e-01  4.632021e-01 -0.4002088923
## [311,] -0.3287459751 -4.907216e-01 -3.174460e-02  0.6673253069
## [312,] -1.6818438171  4.861998e-01  6.824353e-02 -0.1716285120
## [313,] -0.1678310475 -4.863385e-01 -1.149764e+00 -0.4039960173
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## [319,]  0.6742822846 -4.968792e-01  6.974633e-02 -0.5713032329
## [320,]  0.2112137416 -3.122731e-01 -7.967038e-02 -0.4194591073
## [321,] -0.4285966333 -1.064830e+00 -8.128395e-01 -0.2196137778
## [322,]  1.6657282446  4.054435e-01  1.366283e-01 -0.6009359411
## [323,]  0.8099747022  4.460229e-01  1.122654e+00  0.2483270346
## [324,]  1.0684359682  6.663099e-01  1.146193e+00 -0.0394332930
## [325,]  1.4478185204  1.308390e-01 -1.689827e-01 -0.7007871870
## [326,] -0.1255990647  8.102388e-01 -1.729774e-01  0.2149263884
## [327,] -0.1957686059  4.515398e-01  6.797780e-01 -0.0401256628
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## [332,] -0.4967237607  3.852195e-01 -1.335371e+00  0.3839623074
## [333,]  0.0841698636 -4.402473e-01  1.405742e+00 -0.5633741608
## [334,] -0.1376428131 -2.925842e-01 -1.027268e+00  0.7990576377
## [335,]  0.5676624899  1.201468e+00  7.529614e-01 -0.5757524367
## [336,] -0.4162591088 -1.127250e-01  2.452153e-01 -0.9169021490
## [337,] -0.8705274116  9.824592e-01 -1.728271e-01 -0.9165451819
## [338,]  0.1064850589 -1.417040e+00 -1.032207e+00  1.6274631057
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## [340,]  0.6061291086  3.259241e-01  5.631097e-02 -0.8958985636
## [341,] -1.5223880498 -5.074022e-01 -1.081258e+00  0.3582104720
## [342,]  1.0484553924  1.303183e+00 -1.435807e+00  1.0296570164
## [343,]  0.5405617202  8.395255e-01  1.472315e+00  1.5290046478
## [344,] -1.0187413861 -2.318319e-01  1.604776e-01 -0.6439400881
## [345,] -0.3457458457 -7.777743e-01 -1.239287e+00  0.6268684729
## [346,]  0.4138079941  8.396815e-01  5.140497e-01  1.1637584034
## [347,] -0.5665889336 -1.125652e+00 -5.704084e-01 -1.4262004987
## [348,] -0.6298066863  7.177435e-02  5.915094e-01 -0.0248252542
## [349,] -1.6399311370  1.970240e-01  3.716750e-01  1.0187134419
## [350,] -0.9539610104 -6.692389e-01 -3.997691e-02 -0.8326319660
## [351,]  1.1969524594 -8.435771e-02 -1.324054e+00 -0.6136155688
## [352,]  0.4718435956  1.479197e+00  3.850612e-01  0.7110136648
## [353,]  0.8102851939 -3.560794e-01  9.820193e-01 -0.7461459751
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## [357,] -0.4656618128  1.169859e-01  2.223609e-01 -0.0443499513
## [358,]  1.0518223919 -2.713906e-02 -8.288363e-01 -0.6831138136
## [359,] -1.3211972737  6.160025e-01  4.431400e-01  1.0151858142
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## [361,] -1.8986316334 -3.200316e-01 -5.522344e-01 -1.4052543906
## [362,] -0.5568237771 -6.436358e-01  2.041610e+00  0.8341802180

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## [363,] -1.4608613914 8.403027e-01 6.737163e-01 -0.9144758705
## [364,] 0.0424657402 8.048365e-01 -5.965964e-01 -0.0085495576
## [365,] -0.5404508902 -9.980029e-02 -2.763955e-01 -0.8729814133
## [366,] -0.7997262709 2.410403e-02 1.384984e-01 -1.0380348272
## [367,] 2.1414173839 1.025053e+00 8.043469e-01 -0.1676294875
## [368,] 1.2804234561 1.741055e+00 1.675179e+00 -1.1093624874
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## [370,] 0.5539525124 3.192479e-01 1.945930e-01 -0.7523136336
## [371,] 0.0367609178 4.306970e-02 -2.685786e-01 -0.0968852456
## [372,] 0.0771112122 1.019594e-01 -1.112017e+00 -0.3748525913
## [373,] 0.5267560652 3.590937e-01 -1.260902e+00 -0.0429828283
## [374,] 1.4093137504 -5.734914e-02 1.303997e-01 0.6374364905
## [375,] -0.2758371163 1.916811e+00 -3.875599e-01 0.7860586183
## [376,] 0.6859629949 -1.957885e+00 -8.228310e-01 -0.3715214423
## [377,] 0.4830816111 2.922000e+00 8.741176e-01 -0.7482977764
## [378,] -0.1460917636 -3.807032e-01 -2.111261e-01 0.5678418134
## [379,] -0.0667654776 6.736644e-01 -5.341607e-01 -1.2982314396
## [380,] -0.4595723284 5.822618e-01 -9.875398e-01 -1.8590785661
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## [383,] 0.5007500772 -6.790617e-01 7.117074e-01 -0.7621768931
## [384,] -1.3607383650 1.355222e-01 -1.123834e+00 -2.0184031876
## [385,] 0.2584668428 -8.704700e-01 -6.960518e-01 -0.7408113825
## [386,] 1.4033635392 1.970570e-01 -4.816312e-01 -1.0550945675
## [387,] 0.7397739815 -9.880005e-01 -1.730558e-01 -1.4995249031
## [388,] -0.5906152005 7.483034e-01 3.228499e-01 -0.8441129086
## [389,] -0.4894125457 8.534800e-01 5.456508e-01 0.5162777192
## [390,] 0.6564415691 7.007549e-01 -5.226865e-01 -0.9074992623
## [391,] -0.3498183089 -9.460612e-01 -9.334670e-01 -0.6058194191
## [392,] -0.3490770844 -6.423673e-01 5.463709e-01 -0.7654096487
## [393,] 0.0322236943 -2.845024e-01 2.136968e-01 -0.1930173317
## [394,] 1.2005110370 1.984496e-01 2.026110e+00 -1.3359159131
## [395,] 1.4217725753 4.857086e-01 -5.660164e-01 0.1319928879
## [396,] -0.0860170158 4.492459e-01 -1.171075e+00 -2.0515610187
## [397,] 0.2334297667 -6.324851e-01 3.204486e-01 0.2993867139
## [398,] -1.1885492464 1.629147e-01 -1.583599e+00 -0.0943901144
## [399,] 0.7353987158 -5.780387e-01 9.560518e-01 0.0552288629
## [400,] -0.9268578462 8.259989e-01 1.262183e+00 -1.6622862331
## [401,] 0.6469785684 2.934447e-02 1.798844e+00 -0.1987425350
## [402,] -0.4654437810 -2.459768e-01 1.240485e+00 0.7635958362
## [403,] 2.4560035951 6.460053e-02 -2.312456e-01 -1.2816275518
## [404,] 0.0912588113 1.893687e+00 -5.587811e-01 -0.7944299455
## [405,] 0.4643027004 -4.187158e-01 1.217197e+00 0.4686060622
## [406,] 0.7553511973 2.528321e-01 1.621705e+00 0.6531209355
## [407,] -0.0139433624 -1.228946e-01 3.586869e-01 0.0466424807
## [408,] 0.0297554889 2.429667e-01 -3.042035e-01 0.9656315653
## [409,] -0.7659430367 -9.031907e-01 1.088269e+00 0.1259027394
## [410,] -0.7646223672 1.045098e+00 -2.125677e+00 -1.2320870503
## [411,] 1.1220534402 2.269724e-01 6.494136e-01 0.3824090608
## [412,] 0.2224212426 -2.890563e-01 4.656896e-01 -1.2568589599
## [413,] 1.5062576312 1.094782e+00 -5.975113e-01 0.3333211848
## [414,] 0.3141154745 -4.195760e-01 -4.967441e-01 -0.7795967609
## [415,] -0.5751042490 9.656095e-01 1.771364e-01 -0.3760368708
## [416,] 0.4938007048 3.905932e-01 -7.372675e-02 -0.2215865592

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## [417,]  0.7817659656  6.199818e-01 -1.129988e+00  0.6379861137
## [418,] -0.0381887909 -3.813109e-01  4.465046e-01 -0.5524853759
## [419,]  0.8832572230 -1.728188e-01 -1.127422e+00  1.5866561999
## [420,]  0.1847086197 -2.514932e-01 -1.485907e-01 -1.1693324924
## [421,] -0.2045807922 -1.127919e+00 -1.080269e+00 -0.9850741457
## [422,]  0.3822547817  5.494097e-01  9.195268e-01  0.3366480549
## [423,] -1.4314869430  1.616361e+00 -3.563881e-01  0.7858565669
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## [425,]  1.1501407016  4.114116e-01 -1.661075e+00  0.2348570444
## [426,] -0.6652506752  8.242047e-01  6.155220e-02 -1.6704389850
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## [439,]  0.1253169095 -8.825529e-02 -3.256446e-01  0.0615115944
## [440,]  0.0247887085 -1.291277e+00  5.044189e-01  0.9507953097
## [441,] -0.7337507322  9.041570e-01  4.540194e-01 -0.3162551548
## [442,] -0.0045706482  5.057800e-01 -1.015963e-01  0.5764298937
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## [444,]  0.7407333502 -6.246540e-02  2.713853e-01 -0.8849679099
## [445,] -0.2725769536 -4.609731e-01  2.704794e-01 -0.3669408745
## [446,] -0.8117137946 -5.052586e-01  1.905283e+00 -0.6303051783
## [447,]  0.7773095909  2.339494e+00  5.533340e-01  0.7142839195
## [448,]  0.8907228637  4.770754e-01 -5.546809e-01  0.4482985945
## [449,] -0.6654396397  4.736362e-01  9.358575e-01  1.1886022911
## [450,] -0.8709641276 -7.207886e-02 -8.904578e-02 -0.7813849411
## [451,]  0.1967341058 -3.166229e-03 -1.899389e+00  0.1489529546
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## [453,]  2.1011818310 -8.377621e-01 -3.304493e-01  0.0289065744
## [454,]  0.1473327424 -3.456329e-01  7.634832e-02 -1.0052779899
## [455,]  0.1616831316  1.481152e+00  3.023093e-02 -0.3016047621
## [456,] -0.1846182284  1.848707e-01  1.069196e+00 -1.2785646753
## [457,]  1.1388515276  5.028225e-01  2.770438e-01 -0.3117920207
## [458,]  0.9177187260  4.626592e-01  3.277766e-01 -0.3048274923
## [459,] -0.5816171467  3.817469e-01 -9.840331e-01 -0.9654404421
## [460,] -0.7224901244  3.012835e-02  1.045382e-02 -0.4685705703
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## [468,]  1.1690325111 -7.457998e-01 -5.348471e-01 -0.9551569283
## [469,]  0.9223433238 -1.433588e+00 -1.138489e+00 -0.9835591497
## [470,] -0.1406598343  7.857117e-02 -3.862594e-01 -0.1197324718

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## [471,] -1.7006421492 -5.014490e-01 -6.024117e-01 -1.0476291831
## [472,] -0.2566495082  3.901981e-02  6.887396e-01 -0.6699430411
## [473,] -1.7209080254  3.914473e-02 -7.593220e-01 -1.2855233616
## [474,]  1.9509054061  6.359446e-01  1.096655e+00 -0.7654327199
## [475,]  0.3287587203 -1.463350e+00  2.163849e+00  0.1316658715
## [476,] -0.5755102893 -4.794604e-01  4.535675e-01 -0.0973720776
## [477,]  1.3709213849  5.504779e-01 -7.979852e-03 -0.0654607487
## [478,]  1.4158821031 -4.513540e-01 -1.254840e+00  0.8521056635
## [479,]  0.2595618783  1.056938e+00 -1.361953e+00  0.9574852718
## [480,] -0.5512202653 -2.630389e-02 -2.404681e-01 -1.0917785668
## [481,]  0.2253248715  3.166385e-01  1.195912e+00  0.0534511314
## [482,]  0.5188293132 -1.825149e+00  1.084949e+00 -0.6577598557
## [483,] -0.84242399987 4.911345e-01 -3.471365e-01 -0.0571321725
## [484,]  0.3822345752  2.986362e-01 -2.150322e+00  0.4875980723
## [485,]  2.1007148197 -1.063932e+00 -1.277431e+00  0.9779990489
## [486,]  1.3273856188  1.885093e-01  1.978615e-01  1.4147765691
## [487,] -0.8364207449  2.592646e-01 -7.560062e-01 -0.9783642368
## [488,]  1.2434689172  4.710111e-02  3.480027e-02  0.3565914028
## [489,]  0.6655973929 -9.167465e-01 -7.449999e-01 -0.4930643452
## [490,] -0.2162302034 -3.051574e-01 -2.581786e-01 -0.2912843029
## [491,]  0.7223995087  1.605852e+00 -2.626210e-01 -0.2012333534
## [492,] -0.0566699253  3.371540e+00  4.182903e-01  2.9314801236
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## [495,]  0.2444649318 -1.106067e+00  2.110580e-01  0.0102069586
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## [497,] -0.7329145718 -1.587506e-01 -9.929502e-01  0.2217045681
## [498,]  0.6937484541 -1.062151e-01  3.714716e-01  0.2190124254
## [499,] -0.0757256738 -4.398107e-01  4.549061e-01 -0.6024302459
## [500,] -0.3481576487 -3.196349e-01 -6.336974e-01 -0.5309068834
## [501,]  0.5908219907 -1.806202e+00  6.327535e-01  0.6559678633
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## [503,] -0.3599794349  1.234620e+00 -5.193607e-01  0.9455620046
## [504,]  0.4638818049 -3.750664e-01 -5.328723e-01  0.1273631579
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## [506,] -0.2850547203 -1.612041e-01  1.062280e+00  0.6005159061
## [507,]  1.5689669900  1.944722e+00 -4.442722e-01 -0.4711190115
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## [525,] -0.4859495141 -4.038343e-01  3.617077e-01  0.8731857660
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## [527,]  0.3774151819  1.713461e+00  9.924612e-02  1.8854515383
## [528,] -1.5027806412  4.749794e-01 -5.989598e-01 -0.5662004644
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## [534,] -0.7718443796 -1.090329e+00 -1.633253e+00 -0.6852212021
## [535,]  0.3220911062  8.335390e-01  4.330066e-01 -1.8124148751
## [536,]  0.1320448828  1.050908e+00  1.038392e+00  0.7112397831
## [537,]  0.8306278650  5.213225e-02 -1.180119e+00 -1.0614240549
## [538,] -1.8001705153  1.369200e-01  6.446716e-02 -0.6003640350
## [539,] -0.7912950954  1.973465e-01  6.975095e-01  0.2955182440
## [540,] -0.5974411338  2.240796e+00  2.884607e-01 -0.7795397013
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## [542,]  0.1175658708  1.091495e+00 -2.450054e-01 -0.2831525606
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## [550,]  0.0539150154 -1.807469e+00 -1.324694e+00  0.9907039983
## [551,] -0.9591733004  2.564746e-01  8.443902e-01  0.9747427135
## [552,]  0.2653049911  4.187811e-01  3.290768e-03 -0.8544948098
## [553,] -1.9420776887 -7.217090e-01 -1.415445e-01 -0.7217226397
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## [557,] -0.4909623887 -7.271510e-01 -3.563193e-01 -1.3922938266
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## [559,]  0.6389466552 -4.694600e-01  5.639078e-01 -0.1146584512
## [560,] -0.8351778901 -1.434994e-01 -1.490195e+00  1.0634835256
## [561,]  0.2336539758 -2.243357e-01 -2.017279e-01 -0.4275341650
## [562,]  0.2596862511  1.355705e-01 -6.508419e-01  0.5507300667
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## [564,] -0.3297173593  7.991098e-01  1.085950e+00  0.2041938304
## [565,] -0.8585846612 -2.915793e-01 -9.311768e-01 -1.2337219111
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## [567,] -0.2739753016 -1.656627e+00 -1.917784e+00  0.6709956053
## [568,]  0.4860046624 -5.084337e-02  4.167888e-01  1.1847237086
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## [570,] -0.9037434154  6.349022e-01  9.866170e-01 -1.1934349684
## [571,] -0.4322084187  5.484137e-01 -1.493855e-01 -0.0326473336
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## [578,] -0.6109353645 -1.481151e+00 -9.278054e-01 -0.6789233134

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## [579,] 0.9941533025 1.093500e+00 -1.451664e-01 -0.8127303365
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## [583,] 0.7759028984 -2.572036e-01 5.697077e-01 -0.9805710105
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## [585,] -0.7868237317 1.576999e-01 -1.643363e-01 -0.6656376178
## [586,] 1.8749855019 1.433754e+00 5.816989e-01 -0.9582911974
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## [592,] 0.4952648227 -4.220127e-01 5.246277e-01 -0.2083832298
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## [618,] 1.2600008794 3.112886e-01 -2.651531e-01 0.8439457327
## [619,] 0.0719978066 2.320697e+00 -1.532147e+00 0.1914013315
## [620,] 0.4937055058 -5.732397e-01 2.681375e-01 -0.0597431174
## [621,] -1.4389748525 9.598396e-01 -7.324539e-01 -0.2648643731
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## [627,] 0.4315337351 -1.804787e+00 -1.850499e+00 1.0859381389
## [628,] -0.8427301812 5.990556e-01 -1.061303e+00 0.2723394785
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## [633,] 0.9413436086 1.056796e+00 -4.919907e-01 -0.1771671175
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## [640,] 1.2048719412 -4.610240e-01 1.693453e-01 -0.3941098058
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## [646,] -1.1574073000 -1.523793e-01 7.670611e-01 0.9473991490
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## [649,] -1.0815988238 6.994689e-02 -2.602412e-01 0.4240422111
## [650,] 1.3685748544 1.170008e+00 1.810637e+00 -0.5414807677
## [651,] 0.4151461819 1.237171e+00 -7.531378e-01 -0.8310469073
## [652,] -0.1154945258 -4.527368e-01 -1.309140e-01 -0.1039167050
## [653,] -0.4164837299 -9.552789e-02 1.185421e+00 0.7326871134
## [654,] 1.0741715508 -7.632753e-01 -4.707833e-01 0.2939393472
## [655,] -0.0127592386 2.347772e-01 -1.115575e+00 -2.4588680805
## [656,] -1.0154212433 -3.648470e-01 -1.001670e-01 -0.9425765312
## [657,] -2.0664707255 1.297175e-01 -6.739444e-01 1.1973548901
## [658,] 1.5784942644 -2.922455e-01 -6.318783e-01 0.2398329690
## [659,] 0.3226759307 -1.165736e+00 -1.009605e+00 0.6357424518
## [660,] -0.5776615016 -5.430562e-01 4.215496e-01 0.1617972389
## [661,] 0.8346232338 -2.510646e-01 5.465831e-01 0.0751431036
## [662,] -0.2073455498 2.489880e-01 -8.097930e-01 0.6273103373
## [663,] 0.3514837818 2.153454e-01 8.080673e-01 1.3138046445
## [664,] -0.0487475372 -8.019543e-01 2.588029e-01 -0.6199293356
## [665,] -1.0612121403 8.248214e-01 -1.067876e+00 0.1037620751
## [666,] -0.1313737790 -1.396313e-01 -1.255560e+00 0.0965175796
## [667,] -0.8645120082 -6.666650e-01 -3.277344e-01 0.1679009240
## [668,] -0.1559625263 3.554428e-01 -2.578882e-01 -0.6800412712
## [669,] -0.8906471659 -5.032180e-01 4.562650e-01 -0.2325622274
## [670,] -1.0423707785 2.323365e+00 -1.233982e+00 1.3086203281
## [671,] 1.2574762322 -6.826494e-01 5.188112e-01 -1.6986758428
## [672,] 2.4155088810 3.846262e-01 2.269288e-02 0.7665025477
## [673,] 0.4148689450 -5.780858e-01 3.321567e+00 -0.3311743413
## [674,] -0.1271626669 -3.182921e-01 1.503524e+00 -0.1962744045
## [675,] -0.1103060179 -6.972739e-01 6.891860e-01 -0.6031102154
## [676,] -0.0822991150 9.456034e-01 8.075301e-01 -0.9572417852
## [677,] 0.7275823669 -1.313950e+00 -4.163263e-01 0.3324377806
## [678,] 0.3398487269 -1.025728e-01 6.085883e-01 -0.9751344448
## [679,] 1.0218478881 2.634949e-02 -9.857972e-01 -1.2414518836
## [680,] -0.4179919868 -6.948186e-01 -1.459184e+00 -0.1345369695
## [681,] 0.2086996578 9.672869e-01 -1.155632e+00 -0.7172284590
## [682,] -0.9098341718 2.123401e+00 1.249839e-01 -0.7004574220
## [683,] 0.4100046161 3.500024e-01 1.149849e+00 1.2820520981
## [684,] -0.3404657128 -3.179718e-01 -1.567251e+00 0.4104873711
## [685,] -1.0574369399 1.723226e-01 -7.420724e-01 -1.2151961842
## [686,] -0.7919165671 3.170472e-01 -3.479924e-02 0.0383983752

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## [687,] -0.8336343747 -8.825368e-02 1.388198e+00 0.8091791330
## [688,] 0.4677127090 6.584642e-01 2.217139e+00 0.4238455603
## [689,] 0.8905437853 -5.034462e-02 7.063586e-01 0.4565765694
## [690,] 1.4462680488 3.349682e-01 -5.417573e-01 -0.8603400152
## [691,] -0.8465719436 -1.916486e-01 1.864716e-01 0.3649980161
## [692,] -0.4138437867 -1.156370e+00 -4.778377e-01 -0.2666846212
## [693,] -0.9770831011 -3.929261e-01 -3.995406e-02 -0.0806278314
## [694,] 0.1302779209 4.419487e-01 -9.769979e-01 0.1693709231
## [695,] -0.7912821340 9.902361e-01 8.449690e-01 -0.2673717994
## [696,] 0.1653464984 -7.626859e-01 2.662990e-02 0.5180279232
## [697,] 1.1860844642 2.245308e-01 -1.121074e+00 -1.2366751153
## [698,] -0.2231148362 4.463661e-01 1.939115e-01 1.2536776723
## [699,] -0.2432076077 2.319516e-01 -3.638705e-01 -0.4055341579
## [700,] -0.3574487813 -4.208586e-01 -5.497964e-01 -0.0287368728
## [701,] 2.4762356336 1.164014e+00 -8.636334e-01 -0.8775825897
## [702,] 0.3617376342 5.116699e-01 -1.905310e-01 -0.9053403760
## [703,] 0.7740510053 -5.158786e-01 -6.145487e-01 -2.9704836056
## [704,] 1.0786715473 9.194038e-01 -1.275919e+00 0.2124677089
## [705,] 0.5286924560 -1.193645e+00 -4.431073e-01 0.5103404562
## [706,] -0.3407129016 -2.227332e+00 -1.464508e+00 1.5792574706
## [707,] -0.6527471415 -4.827741e-01 5.471912e-01 1.3934350069
## [708,] -1.0401605848 1.030484e+00 4.927572e-01 -0.6235782625
## [709,] 1.0546085212 -9.337814e-01 6.193956e-01 -0.6790044690
## [710,] -0.1815215521 -1.118322e-01 4.974041e-01 0.4715049882
## [711,] 0.4850700842 -4.993683e-01 6.522546e-01 -1.9254013273
## [712,] -0.0001361743 -1.172716e-01 5.576798e-01 -0.1429479860
## [713,] -0.4249600688 2.330059e-01 -2.488964e-01 0.7666310335
## [714,] -0.2214584649 -1.969477e-02 7.828145e-01 0.8764915742
## [715,] 0.8407999955 -7.031292e-01 -4.781072e-01 2.0190084401
## [716,] 0.8206415471 5.626992e-01 6.087909e-01 0.2451296336
## [717,] 0.5787108567 2.461267e+00 2.550528e-01 1.3188185556
## [718,] -0.6137523124 -8.702576e-01 1.584311e-02 1.2601945928
## [719,] 1.8051205642 1.307218e+00 -5.781473e-01 -1.2431084826
## [720,] -1.7554566239 -1.836443e-01 -9.389729e-01 -0.2546398605
## [721,] 1.3560082355 -1.775614e-01 2.388677e+00 0.9259560009
## [722,] 0.2608643715 -7.833108e-01 1.993723e+00 1.7728404975
## [723,] 1.2490423889 1.284966e+00 -1.332826e+00 0.4478203123
## [724,] 2.9833222560 2.554725e-01 1.939111e-01 0.3409812010
## [725,] -0.0296703453 -1.220947e+00 4.430834e-01 -0.0960893865
## [726,] 1.5802135818 1.409475e+00 1.811152e-01 -1.5360947960
## [727,] 0.8251455049 5.658858e-02 9.517192e-01 0.2342378420
## [728,] -1.7238189788 2.160451e+00 -8.984387e-01 0.5031074256
## [729,] 0.2509071788 -1.199879e-01 -2.935794e-01 0.5020024255
## [730,] 0.3027724282 4.422381e-01 6.369924e-01 -0.7918377403
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## [732,] 0.3882133964 6.411901e-01 8.781059e-01 -1.1649040975
## [733,] -1.2671102691 -1.566680e+00 5.110177e-01 -2.3745240036
## [734,] -2.6881505081 -9.529164e-01 -2.126124e-01 -0.4520562848
## [735,] -0.0485559292 7.754189e-01 -2.739365e-01 0.2058048246
## [736,] 2.7619814663 -1.257326e+00 2.190083e+00 0.3108161360
## [737,] -0.1122046490 5.024354e-01 1.360848e+00 0.3467735829
## [738,] -1.3304943363 -5.478817e-01 4.677458e-02 -0.5218001165
## [739,] 0.1547504688 -7.165358e-01 1.181692e+00 -0.5577939830
## [740,] -1.7605678134 1.391543e+00 -5.047744e-01 -0.5319406580

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## [741,] 0.7015780892 3.171757e-01 1.285202e+00 -0.7720775550
## [742,] 1.1437237830 -8.988897e-01 1.157296e+00 -0.4401815417
## [743,] -1.0378695583 -7.206341e-01 1.301996e+00 -0.6946238805
## [744,] 0.1823892949 -6.148034e-01 -1.274135e+00 -0.2620242904
## [745,] 1.9186281615 -3.634450e-01 -1.512189e-01 0.3792241667
## [746,] 1.4635995887 -2.498143e-01 7.810669e-01 1.0388468416
## [747,] -0.5992985158 -1.154586e+00 2.551899e-01 1.6214796214
## [748,] -1.5236694286 1.048799e+00 -1.064345e+00 -1.0369468788
## [749,] -0.4597454535 4.134087e-02 -7.983408e-02 0.4382546911
## [750,] 1.2711901366 1.360868e+00 -1.075691e-01 -1.3034571148
## [751,] 1.1740626971 7.344204e-01 1.123490e+00 0.4301580091
## [752,] -1.7662951549 1.089478e+00 -1.968479e+00 -1.2708533195
## [753,] 0.2676170639 -1.108369e+00 -4.859397e-02 -0.3015753782
## [754,] 0.9275870379 -1.493749e-01 -7.387127e-01 0.3306494403
## [755,] -0.9112730530 -8.011892e-01 1.761566e+00 -1.5348988236
## [756,] 0.8741756755 1.256253e+00 1.876725e+00 -0.5161206800
## [757,] -0.9070000603 -4.798172e-01 4.884656e-01 0.1245032170
## [758,] -0.4458224794 -1.639948e+00 -1.094888e+00 1.5891777821
## [759,] -0.6426816013 -5.994217e-01 5.553885e-01 1.9329800075
## [760,] -0.4488897255 -1.713955e-01 2.285924e-01 -2.3706754124
## [761,] 2.1649696594 8.288834e-01 2.076670e-01 -0.6848823025
## [762,] -0.4389753552 -6.015104e-01 6.879019e-01 -0.4294835969
## [763,] -0.8222156157 -1.258065e+00 1.973059e-02 1.2980269601
## [764,] 0.6172676387 5.837834e-02 8.038418e-01 -1.1686482274
## [765,] -0.5361410234 2.285636e+00 -1.073936e-01 1.2899958245
## [766,] 1.0038069437 -2.397439e+00 1.019388e+00 0.5557212232
## [767,] 1.5403734847 -7.267098e-02 -1.303160e+00 -0.0907431994
## [768,] -0.7367245380 -1.543097e+00 -1.240249e+00 1.2179444977
## [769,] 0.8105011461 -9.155336e-02 -2.611407e-02 1.0339399795
## [770,] 0.2740207884 -1.878286e-01 3.732823e-01 1.1665627370
## [771,] 0.1647644875 -1.352726e+00 7.126737e-02 0.8241854328
## [772,] 0.9089950722 -1.952290e+00 -3.577920e-01 -1.0591602059
## [773,] -0.11111788021 2.105686e-01 -9.591342e-01 0.7958982144
## [774,] -0.1345617821 -1.856154e+00 5.172567e-01 -0.5993796483
## [775,] 0.2720904953 -1.050812e+00 2.162278e-01 0.2355978623
## [776,] -0.7438753001 -4.944588e-01 4.926612e-02 -0.9189620383
## [777,] -0.3665797817 -8.995723e-02 3.215285e-01 0.4378031495
## [778,] -0.6751735354 -1.301883e+00 1.327204e+00 -1.0328526790
## [779,] 0.3650990517 7.296665e-01 2.379011e-03 -2.3926649229
## [780,] -0.5346874612 -1.593401e+00 -1.971277e+00 1.2605521675
## [781,] 0.1123493838 -4.214187e-01 -8.889493e-01 0.7944402590
## [782,] -0.9838470277 4.824380e-01 -5.415780e-01 -0.1932526240
## [783,] 0.8818411109 1.703604e-01 1.978937e+00 0.6771340276
## [784,] 0.9659917133 -6.260595e-02 -6.316883e-01 -0.1898137169
## [785,] -0.3182602755 6.986064e-01 3.798270e-01 -0.3675880346
## [786,] -2.8218202828 -1.097014e+00 -6.385891e-01 0.1483607374
## [787,] -0.8958040275 -2.957369e+00 -2.951494e-01 1.3541424822
## [788,] -0.8282186914 -1.067265e+00 4.345123e-01 2.2134242256
## [789,] 1.3092741914 8.357918e-01 8.964556e-01 -1.6235891068
## [790,] 1.8039580190 -1.219464e-01 6.898847e-01 -0.6222983639
## [791,] -0.9909694584 2.109131e-01 -4.809255e-01 0.2685979401
## [792,] -0.0538582993 -4.088533e-01 8.077458e-01 0.2477423004
## [793,] 0.6507099070 2.042195e-01 1.080862e+00 0.3544099813
## [794,] 0.1346809644 2.294689e-01 3.567783e-01 -0.0065948572

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## [795,] -0.2222530631 -1.390187e+00 -1.296166e+00  1.1721014609
## [796,] -0.4736087278 -2.272027e+00 -2.505246e-01 -0.9757695554
## [797,] -0.7565921318 -4.130463e-01  5.922302e-01  0.8996892523
## [798,] -0.1958289294  1.282707e+00 -7.697322e-01 -0.7655719967
## [799,] -0.4830311042  1.939286e+00 -1.980729e-02  0.3926359529
## [800,]  0.4267008643  3.940179e-01  9.806888e-01  0.2707572080
## [801,]  0.9442111918  6.475339e-01  1.786802e-02 -1.4798280235
## [802,]  0.8344603446 -4.756244e-01  6.062712e-01 -0.0664183430
## [803,]  0.5037876746 -1.189356e-01  1.958560e+00  1.4073193193
## [804,] -0.8698065251 -4.497664e-01  5.295450e-01 -0.6307819039
## [805,]  0.0736002432  8.358673e-01  8.298983e-02 -0.1021898287
## [806,] -0.0523250920 -3.017776e-01 -8.380134e-01  0.0201570287
## [807,]  0.4094367537  6.206289e-01  6.101283e-01 -0.0076900688
## [808,] -0.4835306836 -3.060095e-01 -7.553096e-02  0.0196180448
## [809,]  1.0692150187 -4.128304e-02 -1.089877e-01 -1.1752291908
## [810,] -0.9512785451 -3.333114e-01  1.366460e-01  0.0632906684
## [811,]  0.4985095113 -1.829008e-01  9.340704e-01 -0.8049260521
## [812,] -0.3232392054  3.865127e-01 -8.793455e-01 -1.0063405641
## [813,]  1.3368730673  5.014218e-01 -1.557440e-01  0.7429974955
## [814,] -1.2438484528  1.307977e-01 -1.049119e-01  0.2352539348
## [815,] -1.5765503812 -7.541615e-01 -1.141874e+00  0.3658185513
## [816,]  1.0094375689  3.330822e-01  6.283899e-01  0.5149626216
## [817,]  0.2135505601  2.891237e-01  4.025841e-02  0.3085016408
## [818,]  0.0133247571  1.241137e+00 -2.258437e-01 -0.0546529199
## [819,]  0.8432562211 -5.518067e-01  4.711009e-01 -1.0876525869
## [820,]  0.2894399152 -4.417747e-01 -1.984698e-01 -0.4162554664
## [821,]  0.2873613073 -1.019155e+00  2.146692e+00 -1.9421683725
## [822,]  0.4229603125  2.168056e-01  5.562446e-01  0.1401385711
## [823,]  1.2307916978  2.458353e-01  1.622637e-01 -2.3782621681
## [824,] -0.1370294584 -5.740260e-02  1.237115e+00  0.9321147546
## [825,]  0.3005924664 -2.169162e-01 -3.654297e-01  0.3201841985
## [826,] -1.9096774160  7.263418e-01 -2.995826e-01 -0.8315119080
## [827,]  0.1658668887 -2.101876e-01  1.201043e+00  0.8248186605
## [828,] -0.1388320045 -4.303939e-01  1.080076e+00 -0.1729602285
## [829,] -1.5031981144  7.652411e-01  2.624217e-01 -0.3989824073
## [830,]  1.8742156737 -1.149069e+00 -7.563271e-01 -0.2881585783
## [831,]  0.4332871300 -1.792547e+00 -3.037975e-01  1.2985021110
## [832,] -1.0897587170  8.519281e-01 -1.363445e+00 -0.4870050482
## [833,]  0.6443130816  8.794812e-01  2.700616e-01 -0.9914905000
## [834,]  1.4314766946 -1.633297e+00 -2.188312e+00  0.4489091712
## [835,] -1.2575242381  2.700683e-01  8.462713e-01 -0.1830660403
## [836,] -0.0444058847  7.236910e-01  9.483897e-01 -0.3689448691
## [837,]  0.9092927079  6.674827e-01  1.377378e+00  0.8406785268
## [838,] -0.1107312698 -1.170634e-01 -6.514583e-02  0.5020441288
## [839,]  0.6158669612  5.409979e-02  1.804188e-01 -0.3252642069
## [840,]  1.8245208926 -1.161780e-01 -5.129885e-01  0.0109235775
## [841,] -1.9719580693  6.956001e-01  1.925186e-01 -1.1471795278
## [842,] -0.1563065358 -1.266863e+00 -1.578600e-01  0.5714919323
## [843,]  0.6085385597 -2.875887e-01 -1.663985e-01  0.7582373993
## [844,] -0.4114389451 -9.248507e-01 -3.361452e-01  0.2478361961
## [845,]  0.4138656157 -3.358716e-01  1.081492e+00 -0.1604095694
## [846,] -0.2126919321 -2.334463e-01 -2.285020e-01  0.8425162185
## [847,]  0.5164160871  8.747652e-01  5.764838e-01  1.5603782630
## [848,] -2.9022940851 -5.236635e-01 -1.541477e-01  0.9946411568

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## [849,] 1.5937695204 -1.859388e-01 -7.920124e-01 -0.1051927317
## [850,] -0.1295067542 1.364718e+00 1.447432e+00 -0.9559930146
## [851,] -1.1552429905 9.945534e-02 -7.722484e-01 -2.1434427853
## [852,] 0.2525883554 -1.692531e+00 -8.324163e-01 0.1977166708
## [853,] -1.5267368162 7.171201e-01 -3.531945e-01 -1.0410731359
## [854,] -0.5483313946 -7.532528e-01 1.792772e+00 1.9569911487
## [855,] -0.1306874390 2.378567e+00 1.932466e-01 2.4106151556
## [856,] -1.7434062843 6.418452e-01 -7.067350e-01 -0.1851543828
## [857,] -1.7174682013 -4.930786e-01 2.178714e-01 1.4826361175
## [858,] 0.9255654753 7.226915e-01 1.044625e+00 1.1776249958
## [859,] 0.7777252344 -4.300579e-01 6.397395e-01 1.2415023670
## [860,] 0.1263613583 -8.155654e-01 6.708377e-01 0.3527186497
## [861,] -1.9391264881 -1.125209e+00 8.826273e-01 -1.0340364780
## [862,] -0.2629825752 1.362542e+00 7.997405e-01 0.0473124143
## [863,] -1.2591239937 2.060837e+00 1.604377e+00 -0.9427921758
## [864,] 0.8568957538 -1.774964e+00 -1.614821e-01 0.2941869421
## [865,] -0.1774576708 5.280594e-01 1.914747e-01 0.2692601737
## [866,] -1.9131214320 2.576825e-02 -2.203842e-01 0.6012136220
## [867,] 0.1028620536 -5.309554e-01 1.271127e+00 -0.0056422798
## [868,] 1.0835622746 -3.631142e-01 4.084238e-01 -0.7988888566
## [869,] -1.3485984518 3.872165e-01 -3.657565e-01 1.0298905191
## [870,] -2.0644059418 2.012157e+00 -6.779700e-01 0.7206524899
## [871,] -0.6362148895 -4.410370e-02 -1.846419e+00 -1.4392630308
## [872,] 0.5025409752 -8.955156e-01 -1.117481e+00 0.0474444461
## [873,] -0.7801523744 7.358963e-01 -4.379992e-01 -1.4067606130
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## [875,] -0.4222020013 -8.107724e-01 3.329614e-01 -0.2465350450
## [876,] 0.5270106453 1.560080e+00 -1.568747e-03 -0.1079401029
## [877,] -0.0755973938 6.644533e-01 -4.222485e-01 0.1437968275
## [878,] 0.7395404981 -3.939189e-01 1.304628e+00 1.2663567533
## [879,] -0.3422645235 -2.818353e+00 3.781193e+00 -0.5276143197
## [880,] 0.4329949404 -7.152072e-01 7.290877e-01 0.2267779635
## [881,] 1.6400206780 -4.289778e-01 -1.484933e+00 -0.0727420349
## [882,] 0.4276309260 -4.920413e-01 2.983756e-03 0.8456765773
## [883,] 0.3631766801 -2.108020e-01 -2.058465e+00 -0.1902825380
## [884,] 0.6942755811 4.951233e-01 6.194960e-01 -1.1931920735
## [885,] 0.4968140785 3.354869e-01 -9.928397e-02 -1.6990041577
## [886,] 0.2319896129 -5.121478e-01 -4.901352e-01 0.2522057807
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## [888,] -1.4156697599 -4.514016e-01 3.721917e-01 0.2734414410
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## [890,] 0.9798687668 1.321429e+00 -1.442963e+00 -0.6175221830
## [891,] -0.2023420428 -2.475833e+00 -2.233740e+00 1.0983349917
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## [896,] 0.4165572173 -1.265416e-01 1.999073e-01 0.5080906086
## [897,] -1.3096226674 1.335854e-01 4.319013e-01 1.3574838353
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## [900,] 0.0886410927 2.652240e-01 1.332419e+00 -1.0467246304
## [901,] -0.1259501038 -6.267431e-01 -9.034154e-02 0.9312687361
## [902,] 1.0245393702 -4.402046e-01 -3.589998e-01 -0.4043050567

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## [903,] 0.1565215968 -8.618087e-01 1.887322e-01 1.0216382736
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## [912,] 0.9036160320 5.496305e-01 -8.527856e-01 0.5670949517
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## [914,] -0.5398303108 1.932107e+00 -8.524881e-01 -0.2544033919
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## [921,] -1.7163787473 7.923541e-01 5.694072e-01 0.7955537498
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## [923,] -0.5269328496 3.113654e+00 5.135112e-01 2.0044194429
## [924,] 0.8325230088 5.950253e-02 2.379779e-01 -0.5843973583
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## [931,] 0.3684861562 1.033606e-01 2.921103e-01 -0.6680765925
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## [957,] 0.0764532817 3.597092e+00 1.026515e+00 3.1837966846
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## [964,] -0.1437549075 4.881846e-01 -1.573908e-01 -0.5638946145
## [965,] 0.3102600280 -1.991336e+00 -1.370636e+00 1.5229615721
## [966,] 1.4285392157 -2.680315e+00 1.327127e+00 -0.3541324893
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## [970,] 0.9549505833 -1.841261e+00 -6.453647e-02 1.9325332272
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## [975,] -0.0497159240 -1.334233e+00 7.135601e-03 -0.1275874823
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## [981,] 0.9206127392 1.950569e+00 7.034843e-01 0.1577419075
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## [983,] -0.8153973291 2.924383e+00 5.823517e-01 2.3461028218
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## [990,] -0.1861272131 -1.162165e+00 1.494204e+00 -0.6823612605
## [991,] 0.5186217163 2.434814e-01 -3.427770e-01 -0.6747001911
## [992,] 0.7491345449 -2.945026e+00 -2.275143e+00 1.3914481104
## [993,] 1.7837617848 -1.045728e+00 -1.417138e+00 -0.3830624747
## [994,] -0.8649768375 -1.619607e-01 -4.885389e-01 -0.0472522312
## [995,] 0.2914133811 3.533446e-01 1.483837e+00 0.5660938666
## [996,] -0.2031216276 5.640093e-01 5.642829e-01 -0.4493734524
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## [998,] -0.5321670671 1.987354e-01 9.635627e-01 0.7403598339
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## [1002,] -0.1758986613 -4.999668e-01 5.004797e-01 0.2198657330
## [1003,] 1.7759407166 -6.657843e-01 -4.172976e-03 -0.3392839161
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## [1011,]  0.9812756546 -4.478476e-01 -6.947047e-01 -2.0522583122
## [1012,] -1.2999104563  1.385623e+00 -9.150154e-01 -1.7818716538
## [1013,] -0.8321562521  2.859282e+00  1.310652e-01  2.2207452153
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## [1075,] 0.0005682626 8.204507e-01 1.064199e-01 -0.7358902525
## [1076,] 1.1285768802 -7.995366e-01 -4.817579e-01 0.0625832885
## [1077,] -0.4097658359 1.901684e+00 7.809066e-01 0.6747407470
## [1078,] -0.7047886223 1.873454e+00 4.285319e-02 0.3984836596
## [1079,] -0.1740543948 -5.915442e-01 -2.291395e-02 -0.0261951012
## [1080,] -1.7419078183 3.254566e-01 8.991672e-01 -1.7028259945
## [1081,] -1.0142271265 -9.796303e-01 -4.006270e-01 0.4341760496
## [1082,] 0.4824119503 -4.125353e-02 -1.481548e+00 0.6359012570
## [1083,] -0.9985071508 -1.174330e+00 1.338387e+00 -0.1798208539
## [1084,] -0.4329992253 1.425383e+00 1.796657e+00 -0.0286776619
## [1085,] -1.2657683306 7.911467e-01 -8.911220e-01 0.8955635523
## [1086,] -0.6282337670 -4.105687e-02 -1.479151e+00 0.4093727640
## [1087,] -0.7395153228 1.349607e+00 5.551401e-02 0.1099370365
## [1088,] 0.1094837006 8.159632e-01 4.781314e-01 -0.4799291126
## [1089,] -0.7372167004 -1.750054e-01 2.387794e-01 -0.4115089051
## [1090,] -0.1450647152 -5.299786e-01 1.274955e+00 -0.3276196265
## [1091,] -1.4610166810 1.042919e+00 2.312131e-01 -0.3034966010
## [1092,] -0.8040777438 -1.337577e+00 -1.396538e+00 0.6350019594
## [1093,] -0.9793632279 6.185116e-01 -7.575485e-01 -0.8752704604
## [1094,] -0.0188864343 -7.493533e-01 -5.976806e-01 -0.1845762510
## [1095,] -0.7903260636 4.420819e-01 1.014416e+00 0.3484365197
## [1096,] 0.5458145601 -5.243095e-01 2.742000e-01 -1.7151499525
## [1097,] 0.1617078166 -5.937190e-01 3.648459e-01 -1.5825721347
## [1098,] 0.5011165710 -3.147680e-02 9.829814e-01 0.3985306208
## [1099,] -1.2303384110 1.166304e+00 -4.565717e-01 0.3499672672
## [1100,] 0.5781656121 -1.218232e+00 -1.747532e-01 0.6944205411
## [1101,] 1.1629565573 -7.766448e-01 -4.090776e-02 0.4227675389
## [1102,] 0.4956545674 7.771017e-01 -2.766171e-01 1.5019033141
## [1103,] 0.1772107054 -8.957031e-01 -1.808048e-01 0.2668041188
## [1104,] -0.9087749837 -4.839509e-01 8.806925e-02 -0.2744863459
## [1105,] 0.9697547831 -2.844270e+00 -2.786065e-01 1.1645813417
## [1106,] 0.1885800692 1.104759e+00 -5.487833e-01 -2.8139328939
## [1107,] 1.3449976238 5.359487e-01 -1.233853e+00 -1.0468358740
## [1108,] 0.3103131510 -1.233923e+00 -1.688125e+00 0.4995568524
## [1109,] -0.1564719118 8.805427e-04 6.178058e-01 0.7009853092
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## [1113,] -1.3880740515 -1.315495e+00 -1.336697e+00 0.3427672272
## [1114,] -0.0944962337 2.535148e-01 -9.543770e-02 -1.0672157408
## [1115,] -0.1853155327 1.195111e+00 -3.849395e-02 0.6004947302
## [1116,] -0.0382786025 4.861236e-02 3.633206e-01 -1.0017414522
## [1117,] 0.3221061177 -1.121594e+00 8.759446e-01 0.9394233275
## [1118,] -1.0718792919 -1.040194e+00 2.851366e-01 -0.2838787399

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## [1119,] -0.1565213902 1.938901e+00 -1.641600e+00 0.1281397406
## [1120,] 0.2520586840 1.488887e-01 3.495966e-04 -0.5793658006
## [1121,] 1.0616133443 3.727120e-01 -1.429250e+00 0.8712581866
## [1122,] 0.2519434748 3.759177e-01 1.503020e+00 0.4008449278
## [1123,] -0.2605523391 -3.238172e-02 2.826999e-01 -1.5995617136
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## [1128,] 0.7033529238 -5.267186e-01 -5.010280e-01 1.0197591012
## [1129,] -1.2625667668 3.393593e+00 -1.566328e-01 2.6568139406
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## [1131,] 1.0054536128 6.942156e-01 5.643621e-01 -0.3799444153
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## [1135,] 0.3897570433 -5.221749e-02 -3.063444e-01 -0.1197496159
## [1136,] 0.7869519788 -4.692781e-01 -3.956143e-01 -0.4526277081
## [1137,] 0.3418359085 -2.214813e-01 -6.297591e-01 0.6183864771
## [1138,] -0.7059238895 -4.260054e-02 2.114537e-01 0.2861732525
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## [1140,] -0.4535008388 7.276733e-01 4.056234e-01 1.4560070010
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## [1142,] 0.5780615736 -1.203693e+00 1.110765e+00 -0.6627560988
## [1143,] 0.8224877673 3.759351e-01 2.553283e-01 0.9399024005
## [1144,] 0.1930540187 5.779175e-01 -7.618591e-01 1.0550254719
## [1145,] 0.1750040549 5.618379e-01 -1.721260e-01 -0.1623999658
## [1146,] 0.7602145947 3.204535e-01 7.165147e-01 0.7466132112
## [1147,] 0.1908706726 2.653467e-01 9.453540e-01 0.6601722042
## [1148,] -0.2188147739 9.589587e-01 -4.440836e-01 -1.4980183926
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## [1150,] 0.8051969327 -1.856360e+00 5.621275e-01 0.0916875055
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## [1168,] -0.5216523270 -3.186111e-03 -5.151057e-01 0.3936966188
## [1169,] -0.1541352961 -1.375044e-01 -1.992256e-01 -0.1539115215
## [1170,] -2.0814466371 7.838920e-01 4.295011e-01 1.2375946848
## [1171,] -0.6392676426 -5.777908e-02 9.222901e-01 -0.7729781426
## [1172,] -0.2026632326 6.551175e-01 -1.508794e+00 -0.3712826044

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## [1173,] 0.3780490698 -9.532593e-01 1.899492e-01 1.4109110926
## [1174,] 0.5156068921 3.299661e-02 -9.032782e-01 -0.4459854184
## [1175,] 2.3478047298 2.071712e-01 -9.958005e-01 1.4840918999
## [1176,] 0.8438483652 3.621175e-01 8.069487e-01 0.5151753706
## [1177,] 0.9694349112 -6.332354e-01 3.957328e-01 -0.6067795943
## [1178,] -0.8876770641 -1.078741e+00 -3.320618e-01 -0.1122005821
## [1179,] 0.0740857091 9.910658e-01 3.520704e-01 -0.3198775125
## [1180,] -0.7745369223 -1.526269e+00 -1.151908e+00 -0.1215047597
## [1181,] 0.4888068253 -2.602565e-01 -1.042235e+00 0.1834883447
## [1182,] 1.0110316803 -3.353484e-01 4.243187e-01 -0.7155307689
## [1183,] 0.0462968155 -1.777199e+00 -8.716760e-01 0.7478653858
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## [1186,] -2.4705555760 4.727987e-01 -2.766174e-01 0.1855228795
## [1187,] 2.0947214471 3.075142e-01 -1.957103e+00 -0.0966594204
## [1188,] 0.2152314677 1.114632e+00 1.187130e-02 0.7225649304
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## [1190,] -0.0888300267 9.863958e-01 6.060639e-01 1.0454846898
## [1191,] -1.5782329449 -7.145130e-01 -7.394995e-01 -0.3725181790
## [1192,] -0.7122581292 7.417419e-01 1.640893e+00 1.7191344990
## [1193,] 1.1347441432 -1.135994e+00 -1.014727e+00 0.0149060529
## [1194,] 0.3085233455 4.506856e-01 -1.608181e-01 -0.6363743668
## [1195,] -0.2410262271 1.467795e-01 1.956066e+00 0.7322343014
## [1196,] 0.0697606338 1.225926e+00 -1.941076e+00 1.2258711131
## [1197,] -0.5630129509 -8.571964e-01 5.203935e-01 0.3938168750
## [1198,] 0.1016666628 -9.903820e-01 -1.705402e-01 0.8428730746
## [1199,] -0.7076166410 1.802006e+00 -8.359355e-02 1.7072225605
## [1200,] 0.6437037959 -4.864412e-01 1.029774e+00 -0.0774692116
## [1201,] -1.6270217580 9.509535e-01 -1.752807e-01 1.3742188233
## [1202,] -1.4846415218 -7.167776e-01 -1.839922e+00 -1.6591933720
## [1203,] -1.5028461737 3.554916e-01 -8.793837e-01 -0.8759543868
## [1204,] -0.7604523436 -3.865697e-01 -1.462679e-01 -1.8299090307
## [1205,] -1.0078353895 3.744161e-01 -2.928312e-01 -3.2098206728
## [1206,] 0.0218959873 -3.792783e-01 8.081575e-01 1.2712446522
## [1207,] -1.8893942729 -4.372236e-01 -1.435263e+00 0.6140015908
## [1208,] -0.7979557072 -1.302875e+00 -3.235699e-01 1.1252844152
## [1209,] -0.6385270888 -1.225795e+00 4.640539e-01 -0.0244244296
## [1210,] 2.1319420593 4.350901e-01 4.488725e-01 -0.3736247920
## [1211,] 1.1566450401 6.710965e-01 -2.038692e+00 -0.8277473433
## [1212,] -0.7188408225 9.364071e-01 -9.963941e-01 0.0585890560
## [1213,] -1.0246153192 8.920114e-01 -3.101054e-01 0.8181421586
## [1214,] 1.0130807740 3.209597e-02 7.608463e-01 -0.6180444133
## [1215,] -1.9633742112 -3.673536e-01 -4.163032e-01 0.9395768624
## [1216,] 2.0536779698 -7.991720e-01 1.842623e-01 -0.6102217299
## [1217,] 0.8788926207 5.726892e-01 -9.836900e-01 -1.2766803878
## [1218,] 0.1618892245 5.636270e-01 -1.388072e+00 0.3040077644
## [1219,] -0.0841189674 -2.443222e+00 -1.591150e+00 1.3252396404
## [1220,] 0.1608712097 -9.917728e-01 -8.845580e-01 1.0405550786
## [1221,] 0.9231183905 -2.205964e-01 -1.393627e+00 -0.0041630772
## [1222,] -1.0190816416 8.243604e-01 -8.664988e-02 -0.1558546849
## [1223,] 0.2940558994 1.354081e-01 4.737176e-01 0.6525805951
## [1224,] -1.3423027116 -5.431235e-01 -7.308597e-01 -0.3330949022
## [1225,] -0.2903143979 -4.827423e-01 2.649366e-01 -1.3273633676
## [1226,] 1.7363469113 3.454896e-01 -9.460228e-02 0.1934502244

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## [1227,] 0.7203447608 -1.834855e+00 -5.573938e-01 -0.5074052190
## [1228,] -1.6168805326 -4.817215e-01 1.616320e+00 -0.8982425175
## [1229,] 1.5692556991 1.000288e+00 1.199861e-01 -0.0303188908
## [1230,] 0.6854513119 -5.156900e-01 1.114560e+00 -0.6745032706
## [1231,] 0.9319432764 -1.828280e+00 -2.303595e-01 -0.8435403843
## [1232,] -0.6669282954 -7.764604e-01 -4.655885e-01 0.9796618346
## [1233,] 0.0305991894 -7.904626e-01 1.323706e+00 0.1265008934
## [1234,] 0.6095990239 -1.245863e-01 4.983464e-01 0.5732110241
## [1235,] -0.9605575960 -1.785591e-01 -5.263007e-01 -0.6255092741
## [1236,] 0.7232289984 2.034132e-01 -4.619767e-01 -1.2306999180
## [1237,] -0.1780365490 -1.705380e+00 -1.593777e+00 1.1502830723
## [1238,] -1.8722815559 -1.231228e-02 -8.088890e-01 -1.3864494438
## [1239,] 0.4028806939 -1.275057e+00 5.071895e-01 -0.1766862341
## [1240,] 1.3069887873 4.013015e-01 -2.082170e+00 0.2920208900
## [1241,] -0.8688912247 -8.071475e-01 1.927538e-01 0.3078116644
## [1242,] 0.1855591613 -5.514005e-01 -8.319987e-01 -0.7832733718
## [1243,] -0.9731479347 -4.577932e-01 -7.898075e-02 -0.2791059061
## [1244,] 0.7601781307 2.863414e-02 1.844955e-01 0.5467042023
## [1245,] -0.2815694011 8.014239e-01 -3.248197e-01 0.4464764064
## [1246,] -0.3361529038 -3.610236e-01 -1.067212e+00 -0.8458617972
## [1247,] -0.4756674248 9.878657e-01 -9.071218e-01 -0.8173102125
## [1248,] -0.8019358931 1.180652e+00 -5.730138e-01 -1.0691136397
## [1249,] 0.3127309649 4.085824e-01 -9.114297e-01 -0.2304473126
## [1250,] -0.5760246954 -3.001521e-01 -2.550530e-01 0.3232772675
## [1251,] -0.5939828368 -7.801325e-01 7.306575e-01 -0.9507528527
## [1252,] -0.3494081632 -5.964597e-01 -4.179875e-01 1.0579951627
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## [1254,] -0.4287567355 -2.550899e-02 -1.395837e+00 -0.9409327289
## [1255,] -1.4183739199 -3.288141e-01 1.021917e+00 -0.0726287790
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## [1257,] 0.2302272389 4.392461e-01 8.848245e-02 0.3279615149
## [1258,] 0.3716277413 1.327615e+00 -1.937286e+00 -0.5862898278
## [1259,] -2.0004084816 -1.333113e+00 1.267706e+00 -0.9251790462
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## [1262,] -0.0919978606 9.262200e-01 1.401719e+00 -1.0361682939
## [1263,] 0.1432989817 -1.413738e-02 9.768762e-01 0.1236537324
## [1264,] -1.6315619621 -6.233984e-02 1.499971e-01 0.6682712383
## [1265,] 0.0464742174 -9.960533e-01 -1.270154e+00 -0.0921237402
## [1266,] -0.7865377122 5.840632e-01 6.036030e-01 0.8604577914
## [1267,] -0.1026136023 5.236487e-01 1.608295e+00 -0.9253186686
## [1268,] 0.0492663954 1.107676e+00 -8.909292e-01 0.6844067368
## [1269,] 0.1074963187 1.281590e-01 -6.745339e-01 0.5169960459
## [1270,] 1.0044867925 -2.775309e+00 -3.745092e-01 -0.0217213343
## [1271,] -0.1640638512 7.947408e-01 1.055391e+00 -1.7692331024
## [1272,] 0.5251675286 8.244838e-01 4.037697e-01 0.8465192836
## [1273,] 1.1668597707 5.347143e-01 -7.204280e-01 -1.4377450867
## [1274,] 0.1292292090 -1.011625e-01 -1.217084e+00 -0.4554562585
## [1275,] 1.3535256799 -3.903753e-01 -1.668567e+00 2.4700010568
## [1276,] -0.6538241956 3.460754e-01 1.335683e+00 1.3460045567
## [1277,] 2.1576099093 -1.699437e+00 7.527053e-02 0.4604201982
## [1278,] -1.6923258884 7.209688e-01 5.520313e-01 -0.0187766218
## [1279,] 1.1385480017 -1.362106e+00 1.746416e+00 0.5561897795
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## [1281,] 0.3518807271 7.922225e-01 -1.319409e+00 -0.1803722755
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## [1285,] -0.4354867214 3.251411e+00 -1.407344e-01 3.6931058775
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## [1289,] -0.1350392889 -4.878612e-01 9.786914e-01 0.0631922104
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## [1291,] 1.4431673005 -2.490383e-01 -8.164779e-01 -0.2195187928
## [1292,] 0.5964183231 -4.996244e-01 8.546441e-01 0.5200084678
## [1293,] 0.6383101734 -9.217997e-01 1.449668e+00 1.0315194329
## [1294,] 1.6166074205 3.459555e-01 -8.927263e-01 -2.0565873941
## [1295,] -0.1802457473 -5.790775e-01 6.533542e-02 -1.0414636191
## [1296,] -0.6269747909 -6.830471e-01 4.522777e-01 -2.2864565346
## [1297,] -0.5224897761 -1.239256e+00 4.431518e-01 -0.0268433192
## [1298,] -0.5092597779 2.436080e-01 1.456168e+00 0.2574158104
## [1299,] 0.4407966150 5.125203e-01 5.568381e-01 -2.0756527388
## [1300,] 0.4320415935 -1.389654e-02 -7.814050e-01 -0.5927346841
## [1301,] 0.3186887688 -5.371815e-01 -1.229076e+00 -1.9558793071
## [1302,] -0.0778530147 -1.763253e-01 1.152058e+00 0.5046671757
## [1303,] 0.2284224602 -4.125677e-01 4.658759e-01 0.4521201176
## [1304,] -0.0933372964 1.365398e+00 -2.719428e-01 -0.7683828749
## [1305,] 0.4262927553 -1.465663e+00 1.651857e-01 -0.3117458687
## [1306,] -0.8361301007 -5.125566e-01 -2.260081e-01 -0.4241651126
## [1307,] -0.0417393831 1.988684e-02 -3.608014e-02 0.3504504417
## [1308,] -0.2378452456 -2.055890e-02 -5.723766e-01 0.0205185301
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## [1310,] 0.2835445639 8.306528e-01 6.459510e-01 -0.0033655475
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## [1312,] -0.3660664353 8.138851e-02 1.270945e-01 0.7635032466
## [1313,] 1.6296289302 3.552986e-01 -1.785538e+00 0.4306234222
## [1314,] -0.3824993520 -1.533608e+00 1.931714e+00 -0.7151727897
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## [1316,] -0.3736147725 -3.252669e-01 -5.218537e-01 -0.0761646865
## [1317,] 0.9302013867 5.928993e-01 3.296596e-01 -0.0213028553
## [1318,] 0.3072108783 6.270353e-03 -9.009728e-01 0.0658486453
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## [1329,] 0.0022069143 5.162500e-01 6.955174e-01 -0.7814651086
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## [1331,] -1.1426693421 1.894402e-01 6.892408e-02 0.2727049000
## [1332,] 0.4282202362 -1.623532e-03 -1.829799e+00 -0.0143798869
## [1333,] -0.8301208654 1.431926e+00 -3.121792e-02 -0.0372169727
## [1334,] 0.1323127927 -3.914723e-01 9.714222e-01 -0.0967656485

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## [1335,] -1.7211157944 2.195528e-01 -3.844457e-01 -1.2505829161
## [1336,] -0.7248353043 4.003071e-01 -6.487729e-01 -2.0317523542
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## [1338,] -0.44114145115 4.923812e-01 -7.057661e-01 0.6112909705
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## [1340,] -1.3727821333 5.128215e-01 -5.318909e-01 2.5490818358
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## [1347,] -0.3663754048 4.481625e-01 -2.582002e-01 -0.0693412037
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## [1350,] 0.4455434921 2.503794e+00 -1.065467e-02 -0.2671970681
## [1351,] 0.3427238629 -1.418707e-01 8.417161e-01 0.1511714920
## [1352,] -0.6484090778 1.551931e-01 -1.324436e+00 -1.0885994646
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## [1355,] -0.5632011194 -3.454280e-01 1.832666e-01 -1.2975159424
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## [1359,] 0.2483903119 3.796951e-01 -7.883003e-02 1.7679217001
## [1360,] -0.8688150572 -5.260845e-01 -6.777321e-01 0.8785821988
## [1361,] -1.0487089199 -2.382297e-01 -4.288839e-01 1.3261790963
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## [1363,] -0.2199713911 -9.904406e-01 -6.284889e-01 1.2433465615
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## [1385,] 0.3796904506 3.956349e-01 -1.142840e+00 -0.0764263222
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## [1389,] -0.7821301559 -3.027022e-01 5.845081e-02 0.5575842163
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## [1393,] 0.4591088698 1.032549e+00 -3.453852e-01 1.3332706434
## [1394,] -1.6558395236 9.680858e-01 -6.041157e-01 -0.0949586441
## [1395,] -0.2221321423 1.351404e-01 2.828717e-01 0.3549852488
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## [1399,] -0.9753229792 5.732213e-02 -2.202426e-01 0.6620581102
## [1400,] -0.2712200267 4.462810e-01 5.206092e-01 -0.7162366581
## [1401,] -0.8938582775 -2.262864e-01 -1.384043e+00 -1.1268821631
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## [1403,] 0.6569820722 -7.519397e-01 -5.038342e-01 -0.2019802426
## [1404,] -1.0894941566 4.056090e-01 2.925378e-01 0.6743588092
## [1405,] 0.3766423123 -1.645296e-01 4.911626e-01 -1.4488646161
## [1406,] -0.2386741745 7.151969e-01 1.032942e+00 0.6080997191
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## [1411,] -0.8202115809 6.660274e-02 1.138384e-01 -0.2192149548
## [1412,] -0.7969663616 5.769299e-01 -8.993876e-01 -0.9432188982
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## [1414,] -0.8021225527 -3.487865e-02 -1.506884e+00 -1.5636703797
## [1415,] 0.1479231191 7.971456e-01 -1.433379e+00 1.7388129313
## [1416,] -2.7013741823 -1.095691e+00 2.731929e-01 -1.6248159005
## [1417,] -0.2681651221 9.814065e-01 1.022703e+00 -1.1503129775
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## [1422,] -1.1328771696 -6.699367e-01 -5.881884e-01 0.8933669448
## [1423,] -0.1631409592 4.800148e-01 4.544718e-01 -0.6662715458
## [1424,] 0.1011584119 5.864346e-01 -8.008072e-01 -1.1535951540
## [1425,] 0.6416520784 -3.005172e-01 -7.176608e-01 -2.2229055813
## [1426,] -0.7055647536 9.685446e-01 7.236663e-01 -1.6705736552
## [1427,] -0.3096356001 -8.270701e-01 -4.701553e-02 0.0709500515
## [1428,] 0.1883554245 2.506490e-01 -3.577988e-01 0.1398734084
## [1429,] 1.6061415709 1.061799e+00 -7.132596e-01 -0.0723490182
## [1430,] -1.0244201542 2.024041e+00 7.769394e-01 2.9893064394
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## [1432,] 1.1828740968 3.101551e-01 7.473358e-01 0.1222747322
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## [1438,] -1.3763055310 5.682216e-01 -1.627360e-01 -0.6223930830
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## [1443,] -0.4324983481 -1.107209e-01 -1.731341e-01 0.1761993805
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## [1445,] 0.3883590487 5.146822e-01 -7.945023e-01 -0.1371818187
## [1446,] 0.1618354206 6.761305e-01 -4.632182e-01 -2.3954455972
## [1447,] 1.1265367219 -1.226271e+00 -2.254461e+00 1.3233394579
## [1448,] -1.0507713908 5.655557e-01 4.634259e-02 -0.3577199514
## [1449,] 0.5463186681 -4.987573e-01 -4.728580e-01 0.1363798127
## [1450,] 0.4546496778 -8.421332e-01 2.979253e+00 0.2223963840
## [1451,] -0.6857029443 -7.031776e-01 -1.553373e+00 -0.5284469922
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## [1453,] -1.7365017280 1.488936e+00 1.028153e+00 0.5110858179
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## [1469,] -0.4428425522 1.629908e-01 8.213401e-01 -0.3870259364
## [1470,] 0.1053636534 -6.121224e-01 -1.692441e-01 0.7939533212
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## [1473,] -1.2970396822 -9.937042e-01 4.857795e-01 0.5964196079
## [1474,] 1.7178998431 6.118866e-01 -4.167844e-01 0.4498202320
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## [1476,] 0.7485752335 1.558822e-01 4.331380e-01 -1.1834938419
## [1477,] 0.6793086073 1.371683e+00 -1.046871e+00 0.4914217892
## [1478,] -0.3091215902 1.432917e+00 1.528088e-01 -0.5972975636
## [1479,] -0.5175406629 -1.318489e+00 7.721490e-01 0.3143410022
## [1480,] 1.0527989000 -1.323022e+00 -1.988122e-01 0.4804720606
## [1481,] -0.5792403553 -3.341808e-01 3.070999e-01 -0.8536445883
## [1482,] -0.6925986333 9.842695e-01 -9.882367e-01 -1.0795394787
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## [1485,] 0.9514139331 -4.916380e-01 -2.184733e-01 -0.4530036497
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## [1488,] 0.5257779496 9.419639e-01 4.945498e-01 1.4098706159
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## [1490,] -1.5695870702 2.720048e-01 -8.665673e-01 0.1346914388
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## [1493,] -1.3601111335 4.304745e-02 9.033011e-01 0.0041060537
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## [1497,] -0.2364625718 1.495392e-01 -5.215357e-02 -1.6337459795
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## [1501,] 0.4130128899 -7.366585e-01 -3.206713e-01 0.1762210242
## [1502,] -2.0190344582 -3.191444e-01 -4.374749e-01 1.0831934965
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## [1504,] -2.1909077926 -3.252468e+00 2.824939e+00 -0.8280636172
## [1505,] 1.2867380681 5.229697e-01 -1.131582e+00 -1.2760769003
## [1506,] 0.6388793034 -4.761770e-01 -8.841840e-01 0.2994718628
## [1507,] -0.7807183808 -1.017593e-01 -6.038236e-01 1.1671265105
## [1508,] -1.7266762093 -5.860637e-01 8.302803e-01 -1.1211326286
## [1509,] 0.0602423944 -6.151720e-01 4.236721e-01 0.9295080351
## [1510,] 1.9522660529 3.024330e-01 -1.068463e+00 -1.2662340051
## [1511,] -0.5219332090 1.014308e+00 -4.576627e-01 0.1612377141
## [1512,] -1.3877669689 3.142633e-01 9.296664e-01 -0.3248683086
## [1513,] 0.5466639207 -1.546788e+00 -1.944424e+00 1.0036906287
## [1514,] -1.9317622746 6.114862e-01 5.256986e-01 -0.3527421708
## [1515,] -0.3708115587 -1.468067e+00 -1.983430e+00 0.7257587426
## [1516,] 0.2985198657 1.242935e+00 1.710050e-01 0.0833508649
## [1517,] -1.1593577842 6.169418e-01 -7.849886e-02 -0.3430229384
## [1518,] 1.8067333994 -1.221065e+00 -5.988385e-01 -0.1766538942
## [1519,] 0.3526739609 6.031874e-01 1.188021e+00 2.0232307831
## [1520,] -1.8290672720 1.681790e-01 -3.818158e-01 -0.2758832389
## [1521,] 0.7826985517 -6.256825e-01 9.827547e-01 -0.1387195531
## [1522,] -0.3771413192 -1.085154e+00 -1.662869e-01 -1.5556408759
## [1523,] -0.3925078907 -4.931891e-01 3.124066e-01 -2.1774170486
## [1524,] 0.3491866664 8.112283e-01 1.282973e+00 1.0794080425
## [1525,] -1.1270725729 4.557255e-01 1.546450e+00 1.2506934524
## [1526,] -0.6143591500 1.709511e-01 2.024603e+00 1.3361990948
## [1527,] 2.0776450219 -1.135496e+00 1.509641e+00 0.9872462136
## [1528,] 0.1369619945 -6.021368e-01 -3.586400e-01 -0.6171053221
## [1529,] -1.2421658434 6.740031e-01 5.388807e-01 0.8971323826
## [1530,] -0.6684473499 1.073691e-01 1.335923e+00 -0.7810631846
## [1531,] -0.4842671450 -4.302056e-01 -1.239288e+00 0.6606462024
## [1532,] -1.5445922036 -6.077027e-02 -1.349871e-01 -0.7272152446
## [1533,] -0.7734242733 -2.296705e-01 1.097104e+00 0.7065609658
## [1534,] -0.2059247417 3.521814e-01 -9.150894e-02 0.3701150298
## [1535,] -1.0118081676 3.033080e-02 2.841842e-01 -0.1145111596
## [1536,] -0.3777611287 4.653890e-01 6.286510e-01 -0.9590055855
## [1537,] 1.0122181273 -1.041580e+00 -7.056680e-01 1.0737350091
## [1538,] 0.0645966536 -5.969997e-01 7.723556e-01 -0.4752103021
## [1539,] -0.1196587644 -1.064841e+00 7.652935e-02 -0.7064388236
## [1540,] 0.1108126018 2.281605e-02 -2.382499e-01 0.0303511941
## [1541,] -1.3042636202 1.986185e-01 -1.517375e+00 0.7188963772
## [1542,] -0.5739730984 1.310677e+00 1.703071e+00 1.1127986473
## [1543,] 0.1797035885 3.802406e-01 -7.930708e-01 0.3142508251
## [1544,] 1.5335840547 1.409152e+00 -3.798153e-01 -1.0360756788
## [1545,] 0.2396306657 8.778909e-01 -1.234169e+00 -0.0062472864
## [1546,] -1.4405810575 1.434738e+00 -1.208573e-01 0.3292565872
## [1547,] 1.0082674434 -7.785375e-03 5.193699e-01 0.5064705389
## [1548,] -0.9764974554 -1.252396e+00 7.805982e-01 0.3517351799
## [1549,] 1.9370038515 6.544992e-01 9.211021e-01 0.0661446202
## [1550,] -0.1030743232 -4.897273e-01 1.477133e-02 -0.7822374000

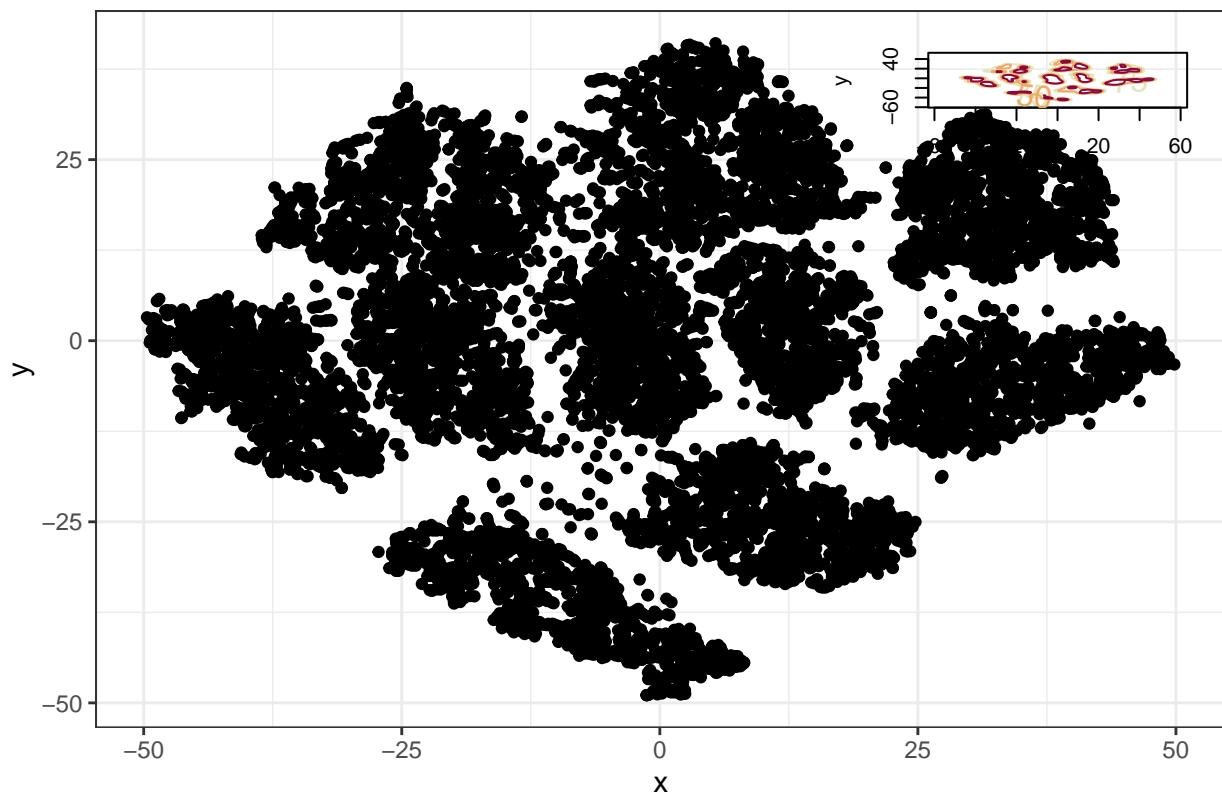
```

```

## [1551,] -0.1815418116 1.794929e+00 -1.464284e+00 -0.1755065642
## [1552,] -0.3893056570 -1.350030e-01 8.130620e-01 -0.4512716870
## [1553,] -0.1112949466 1.012268e+00 6.890591e-01 -0.4065358610
## [1554,] -0.6539393781 -7.657945e-01 -3.203122e-01 0.4400076155
## [1555,] 0.4776165883 -1.809119e+00 5.295518e-01 -1.2017237248
## [1556,] 0.7892519985 -9.269984e-01 -7.565391e-03 -0.5937911588
## [1557,] -1.2087779433 5.703776e-01 6.042244e-02 -0.9500002295
## [1558,] 1.4313348048 1.613456e+00 9.390985e-01 -0.7067050593
## [1559,] -0.4063974783 -2.559918e-01 -8.749484e-01 0.9341978797
## [1560,] -0.0551212841 5.928521e-01 9.157325e-01 -0.7028531013
## [1561,] 1.2554140093 8.731238e-01 1.787134e+00 -0.6948223042
## [1562,] -0.0658802336 1.534088e-01 4.971578e-01 -0.4138469131
## [ reached getOption("max.print") -- omitted 10437 rows ]

```

## 2D Visualization of Data with t-SNE



## 2 Method Description

### 2.1 Mean Shift Clustering

### 2.2 Hierarchical Clustering

## 3 Clustering Strategy and Parameter Choices.

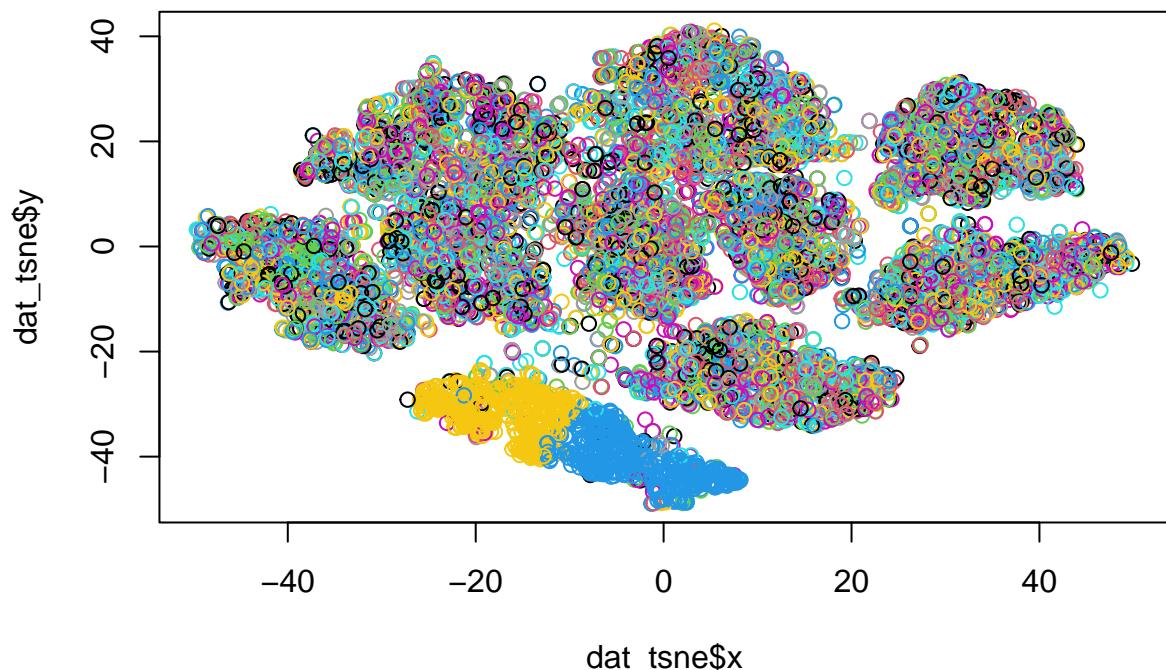
### 3.1 Mean Shift Clustering

bandwidth: chosen using the `Hpi.diag()` function in package `ks`. It is the multivariate plug-in selector of Wand & Jones (1994), which is more stable and reliable than some previously proposed multivariate bandwidth selection procedures like

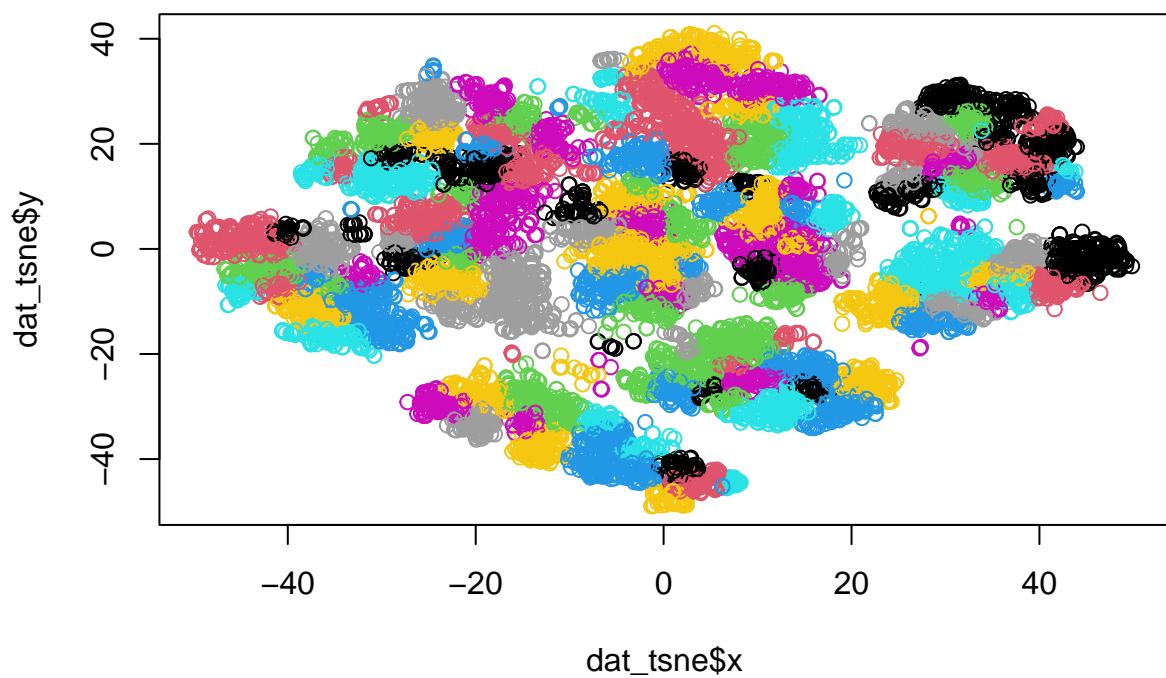
```
## [1] 10505

## Warning in bw.ucv(dat[, i], ): minimum occurred at one end of the range
## Warning in bw.ucv(dat[, i], ): minimum occurred at one end of the range
## Warning in bw.ucv(dat[, i], ): minimum occurred at one end of the range
## Warning in bw.ucv(dat[, i], ): minimum occurred at one end of the range

## [1] 0.11855460 0.19218606 0.30201206 0.18355055 0.26024260 0.23817286
## [7] 0.21508295 0.13770915 0.08641093 0.13032956 0.03287170 0.17501979
## [13] 0.16070211 0.13375763 0.12537059 0.14525711 0.10159162 0.11719410
## [19] 0.11953873 0.03909183 0.08113968 0.11160297 0.12346249 0.04581596
## [25] 0.06292812 0.11164900 0.11327009 0.02329314 0.06721098 0.09549301
## [31] 0.08892944 0.09070415 0.04163664 0.07832526 0.02924388 0.08168595
## [37] 0.08549318 0.05431743 0.04077354 0.08731517 0.08506845 0.07373583
## [43] 0.06375214 0.06423093 0.06861708 0.06223095 0.06565034 0.05555235
## [49] 0.05654157 0.05597751 0.04142002 0.06005197 0.05812877 0.03224328
## [55] 0.05572879 0.05227699 0.06007868 0.05300906 0.05991952 0.05484277
## [61] 0.05388329 0.03988913 0.05705214 0.05711566
```

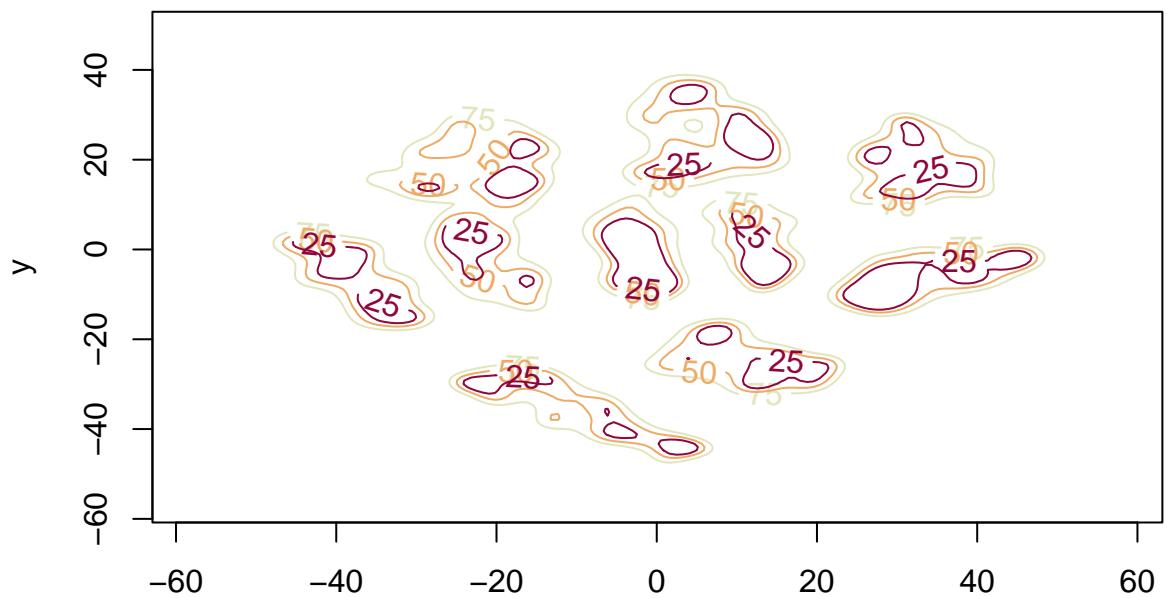


```
## [1] 10505
```

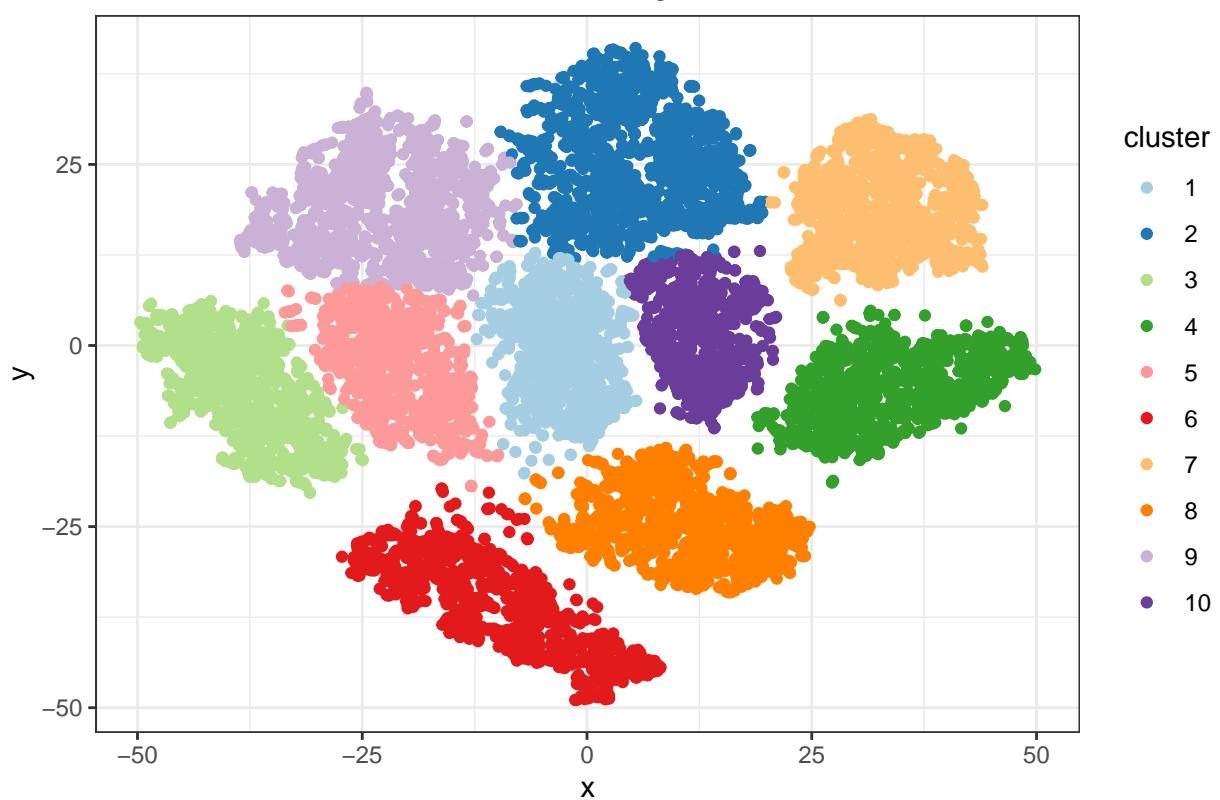


```
## [1] 205
```

```
##      [,1]      [,2]
## [1,] 5.396161 0.000000
## [2,] 0.000000 4.287058
```



Visualization of Mean Shift Clustering Results

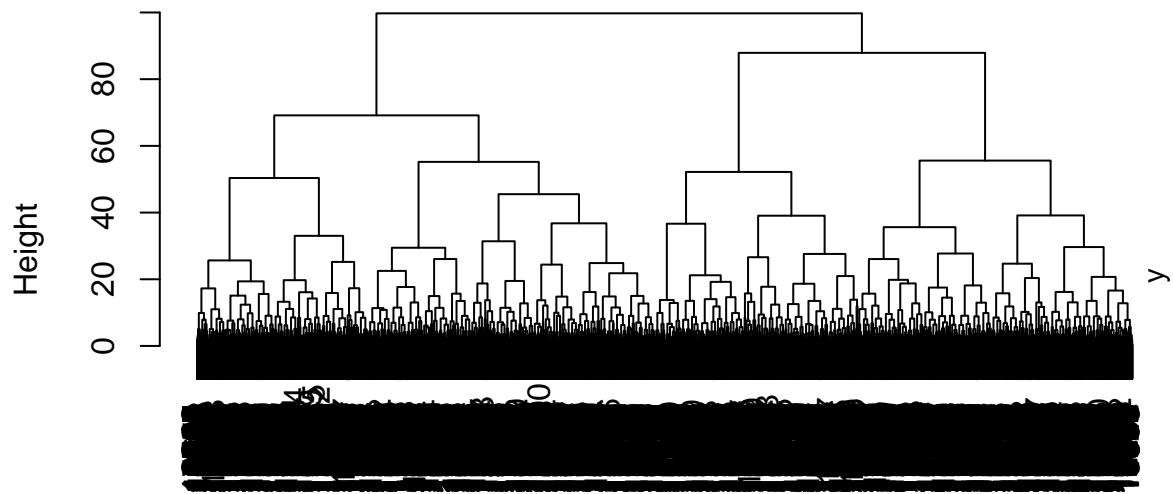


```
## [1] 10
```

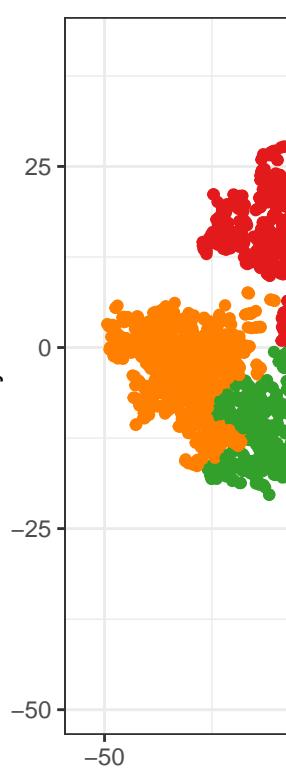
### 3.2 Hierarchical Clustering

With least squares linkage

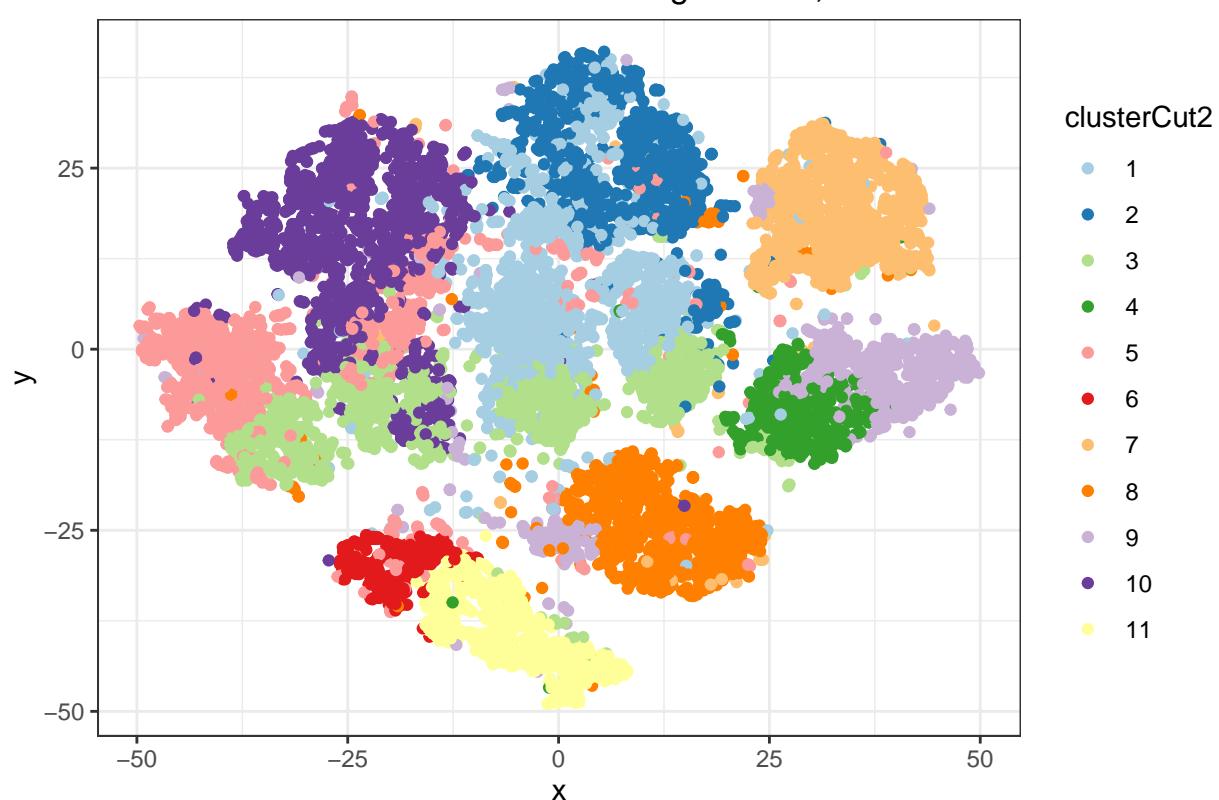
### Cluster Dendrogram



Visualization o



Visualization of Hierarchical Clustering Results; without dimension reduction



## **4 Evaluation**

### **References**

1. Wand, M.P. & Jones, M.C. (1994) Multivariate plug-in bandwidth selection. *Computational Statistics*, 9, 97-116.

## Code Appendix

```
### -----
### Setups
knitr:::opts_chunk$set(echo = FALSE)
# load packages
library(meanShiftR)
library(ks)
library(tidyverse)
library(Rtsne)
library(caret)
library(plot.matrix)
library(randomForest)
library(RColorBrewer)
# load dataset
dat <- read.csv("project-data.csv")
### -----
### Data processing
# check for missings
sum(is.na(dat))
# check data distributions
par(mfrow = c(3,3))
for (i in 1:ncol(dat)) {
  hist(dat[, i])
}
## try dimension reduction with PCA
PCs <- prcomp(dat, scale. = TRUE)
PCs$x
# Visualize the Results with a Biplot
biplot(PCs)
# Find Variance Explained by Each Principal Component
var_explained <- PCs$sdev^2 / sum(PCs$sdev^2)
# create scree plot
ggplot(mapping = aes(x = 1:64, y = var_explained)) +
  geom_line() +
  xlab("Principal Component") +
  ylab("Variance explained") +
  ggtitle("Scree Plot")
## try dimension reduction with t-SNE
# convert data into matrix
dat_matrix <- as.matrix(dat)
tsne_out <- Rtsne(dat_matrix)
dat_tsne <- data.frame(x = tsne_out$Y[,1],
                       y = tsne_out$Y[,2])
# Plotting the 2D visualization of data created by t-SNE
ggplot2::ggplot(dat_tsne, mapping = aes(x = x, y = y)) +
  geom_point() +
  ggtitle("2D Visualization of Data with t-SNE") +
  theme_bw()
# check kde estimate
tsne_kde <- kde(dat_tsne)
plot(tsne_kde)
# split data into training and testing sets
```

```

# set.seed(527)
# index <- dat_tsne$y %>% createDataPartition(p = 0.8, list = FALSE)
# dat_train <- dat_tsne[index, ]
# dat_test <- dat_tsne[-index, ]
#####
#### Mean Shift Clustering
## mean shift with original data with default h; too slow & too many clusters
ms1 <- meanShift(as.matrix(dat), iterations = 200)
plot(dat_tsne$x, dat_tsne$y, col = ms1$assignment)
length(unique(ms1$assignment))

## mean shift with original data with (optimal) h by CV; too many clusters
## choose optimal bandwidth
H <- numeric(64)
for (i in 1:64) {
  H[i] <- bw.ucv(dat[, i], )
}
H
ms2 <- meanShift(as.matrix(dat), iterations = 200)
plot(dat_tsne$x, dat_tsne$y, col = ms2$assignment)
length(unique(ms2$assignment))

# mean shift with dimension-reduced data with default h;
ms3 <- meanShift(as.matrix(dat_tsne), iterations = 200)
plot(dat_tsne$x, dat_tsne$y, col = ms3$assignment)
length(unique(ms3$assignment))

## mean shift with dimension-reduced data with optimal H chosen by Hpi.diag; optimal
# choose optimal bandwidth
H <- Hpi.diag(dat_tsne)
H
plot(kde(dat_tsne, H = H))
ms4 <- meanShift(as.matrix(dat_tsne), bandwidth = c(H[1, 1], H[2, 2]), iterations = 300)
cluster <- as.factor(ms4$assignment)
# plot(dat_tsne$x, dat_tsne$y, col = ms3$assignment, xlab = "x", ylab = "y")
my_colors <- c(RColorBrewer::brewer.pal(12, "Paired"), "#000000")
ggplot(mapping = aes(x = dat_tsne$x, y = dat_tsne$y, color = cluster)) +
  geom_point() +
  scale_color_manual(values = my_colors) +
  theme_bw() +
  xlab("x") +
  ylab("y") +
  ggtitle("Visualization of Mean Shift Clustering Results")
length(unique(ms4$assignment))
#####
#### Hierarchical Clustering
clusters <- hclust(dist(dat_tsne))
plot(clusters)
clusterCut <- cutree(clusters, 13) %>% as.factor()
ggplot(mapping = aes(x = dat_tsne$x, y = dat_tsne$y, color = clusterCut)) +
  geom_point() +
  scale_color_manual(values = my_colors) +
  theme_bw()

```

```

xlab("x") +
ylab("y") +
ggtitle("Visualization of Hierarchical Clustering Results")

# without dimension reduction
clusters2 <- hclust(dist(dat), method = "ward.D")
# plot(clusters2)
clusterCut2 <- cutree(clusters2, 11) %>% as.factor()
ggplot(mapping = aes(x = dat_tsne$x, y = dat_tsne$y, color = clusterCut2)) +
  geom_point() +
  scale_color_manual(values = my_colors) +
  theme_bw() +
  xlab("x") +
  ylab("y") +
  ggtitle("Visualization of Hierarchical Clustering Results; without dimension reduction")
t1 <- table(cluster, clusterCut2)
M <- matrix(nrow = 11, ncol = 11)
for (i in 1:ncol(t1)) {
  maxi <- which.max(t1[, i])
  M[, maxi] <- t1[, i]
}

```