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SEC:01

CourseCode:20cs3026RA

```
In [1]: import numpy as np
import pandas as pd
```

```
In [2]: drug = pd.read_csv("drug200.csv")
```

```
In [3]: drug.isnull().any()
```

```
Out[3]: Age                False
Sex                  False
BP                   False
Cholesterol          False
Na_to_K              False
Drug                 False
dtype: bool
```

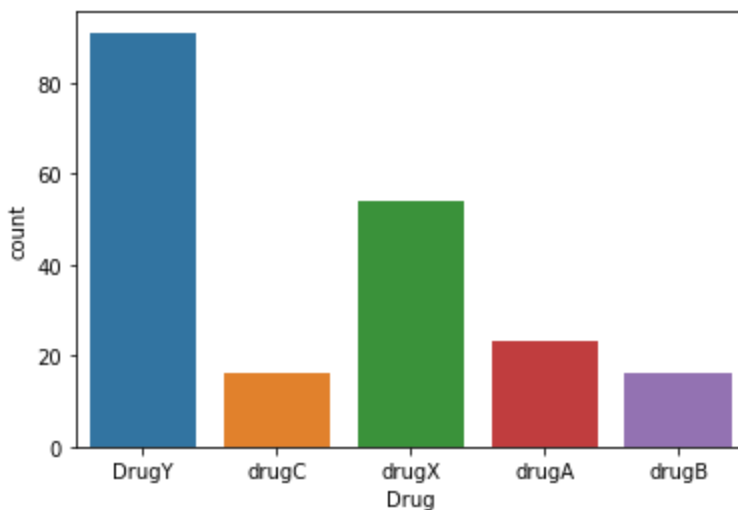
```
In [4]: X=drug[["Age", "Sex", "BP", "Cholesterol", "Na_to_K"]]
Y=drug["Drug"]
```

```
In [5]: import seaborn as sns
sns.countplot('Drug', data=drug)
```

C:\Users\DELL\anaconda3\lib\site-packages\seaborn_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

warnings.warn(

```
Out[5]: <AxesSubplot:xlabel='Drug', ylabel='count'>
```



```
In [6]: # Importing Libraries
```

```

import numpy as np
import matplotlib.pyplot as plt

def mean_squared_error(y_true, y_predicted):
    # Calculating the loss or cost
    cost = np.sum((y_true - y_predicted) ** 2) / len(y_true)
    return cost

def gradient_descent(x, y, iterations=1000, learning_rate=0.0001,
                    stopping_threshold=1e-6):
    current_weight = 0.1
    current_bias = 0.01
    iterations = iterations
    learning_rate = learning_rate
    n = float(len(x))

    costs = []
    weights = []
    previous_cost = None

    # Estimation of optimal parameters
    for i in range(iterations):

        # Making predictions
        y_predicted = (current_weight * x) + current_bias

        # Calculating the current cost
        current_cost = mean_squared_error(y, y_predicted)
        if previous_cost and abs(previous_cost - current_cost) <= stopping_threshold:
            break
        previous_cost = current_cost

        costs.append(current_cost)
        weights.append(current_weight)

        # Calculating the gradients
        weight_derivative = -(2 / n) * sum(x * (y - y_predicted))
        bias_derivative = -(2 / n) * sum(y - y_predicted)

        # Updating weights and bias
        current_weight = current_weight - (learning_rate * weight_derivative)
        current_bias = current_bias - (learning_rate * bias_derivative)

        # Printing the parameters for each 1000th iteration
        print(f"Iteration {i + 1}: Cost {current_cost}, Weight \
{current_weight}, Bias {current_bias}")

    # Visualizing the weights and cost at for all iterations
    plt.figure(figsize=(8, 6))
    plt.plot(weights, costs)
    plt.scatter(weights, costs, marker='o', color='red')
    plt.title("Cost vs Weights")
    plt.ylabel("Cost")
    plt.xlabel("Weight")
    plt.show()

    return current_weight, current_bias

```

```

In [11]: def main():
    # Data
    X = np.array([32.50234527, 53.42680403, 61.53035803, 47.47563963])
    Y = np.array([31.70700585, 68.77759598, 62.5623823, 71.54663223])

    # Estimating weight and bias using gradient descent
    estimated_weight, estimated_bias = gradient_descent(X, Y, iterations=2000)

```

```

print(f"Estimated Weight: {estimated_weight}\nEstimated Bias: {eaitimated_bias}")

# Making predictions using estimated parameters
Y_pred = estimated_weight * X + eatimated_bias

# Plotting the regression line
plt.figure(figsize=(8, 6))
plt.scatter(X, Y, marker='o', color='red')
plt.plot([min(X), max(X)], [min(Y_pred), max(Y_pred)], color='blue', markerfacecolor
          markersize=10, linestyle='dashed')
plt.xlabel("X")
plt.ylabel("Y")
plt.show()

if __name__ == "__main__":
    main()

```

Iteration 1: Cost 3118.4011599788214, Weight 2	0.6477151518697276, Bias 0.020753005083
Iteration 2: Cost 864.1860274345804, Weight 86157	0.9228167473612667, Bias 0.0261654128842
Iteration 3: Cost 295.4997070777258, Weight 8415	1.060992268500674, Bias 0.02889538970650
Iteration 4: Cost 152.0333036291859, Weight 8698	1.1303936975285374, Bias 0.0302780572573
Iteration 5: Cost 115.84004581199022, Weight 416343	1.1652518464104689, Bias 0.030984009386
Iteration 6: Cost 106.70932038352963, Weight 26726	1.1827598832584196, Bias 0.031350066406
Iteration 7: Cost 104.40584566154146, Weight 917384	1.1915534498451517, Bias 0.031545403627
Iteration 8: Cost 103.82472831324432, Weight 7882	1.195969984642847, Bias 0.0316549930223
Iteration 9: Cost 103.6781218757978, Weight 69226	1.1981880602457635, Bias 0.0317215136059
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Iteration 13: Cost 103.62883869591663, Weight 873018	1.2002825480538961, Bias 0.03185481403
Iteration 14: Cost 103.62868357285319, Weight 00196	1.200353014645301, Bias 0.031879261149
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Iteration 23: Cost 103.62858516581584, Weight 4123794	1.2004203695015225, Bias 0.03208817105
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Iteration 169: Cost 103.62780979017944, Weight 4040184	1.200354614629572, Bias 0.03545209764
Iteration 170: Cost 103.62780448645682, Weight 216489	1.200354163556922, Bias 0.03547512288
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Iteration 175: Cost 103.62777796928482, Weight 44546815	1.2003519082549545, Bias 0.0355902459
Iteration 176: Cost 103.62777266613865, Weight 3138811	1.2003514572068175, Bias 0.0356132699
Iteration 177: Cost 103.62776736308851, Weight 0968877	1.2003510061627658, Bias 0.0356362937
Iteration 178: Cost 103.62776206013442, Weight 794507	1.2003505551227995, Bias 0.0356593172
Iteration 179: Cost 103.62775675727644, Weight 4067578	1.2003501040869184, Bias 0.0356823406
Iteration 180: Cost 103.62775145451455, Weight 9336591	1.2003496530551228, Bias 0.0357053637
Iteration 181: Cost 103.62774615184867, Weight 3752297	1.2003492020274122, Bias 0.0357283867
Iteration 182: Cost 103.62774084927878, Weight 3148844	1.200348751003787, Bias 0.03575140947
Iteration 183: Cost 103.62773554680501, Weight 0024543	1.2003482999842467, Bias 0.0357744320
Iteration 184: Cost 103.62773024442728, Weight 1881461	1.2003478489687918, Bias 0.0357974543
Iteration 185: Cost 103.6277249421456, Weight 858286	1.200347397957422, Bias 0.035820476428
Iteration 186: Cost 103.62771963996002, Weight 037833	1.200346946950137, Bias 0.03584349833
Iteration 187: Cost 103.62771433787047, Weight 2337664	1.2003464959469372, Bias 0.0358665200
Iteration 188: Cost 103.6277090358769, Weight 78551	1.2003460449478223, Bias 0.03588954150
Iteration 189: Cost 103.6277037339795, Weight 3815605	1.2003455939527923, Bias 0.03591256278

Iteration 190:	Cost 103.6276984321781,	Weight 1.2003451429618472,	Bias 0.03593558385
126004			
Iteration 191:	Cost 103.62769313047274,	Weight 1.2003446919749872,	Bias 0.0359586047
10190294			
Iteration 192:	Cost 103.6276878288633,	Weight 1.2003442409922118,	Bias 0.03598162536
0608255			
Iteration 193:	Cost 103.62768252735,	Weight 1.2003437900135214,	Bias 0.0360046458025
1581			
Iteration 194:	Cost 103.62767722593287,	Weight 1.2003433390389155,	Bias 0.0360276660
3591485			
Iteration 195:	Cost 103.6276719246116,	Weight 1.2003428880683946,	Bias 0.03605068606
080726			
Iteration 196:	Cost 103.62766662338635,	Weight 1.2003424371019582,	Bias 0.0360737058
7719493			
Iteration 197:	Cost 103.62766132225724,	Weight 1.2003419861396065,	Bias 0.0360967254
8507975			
Iteration 198:	Cost 103.62765602122397,	Weight 1.2003415351813393,	Bias 0.0361197448
8446361			
Iteration 199:	Cost 103.62765072028688,	Weight 1.200341084227157,	Bias 0.03614276407
5348395			
Iteration 200:	Cost 103.62764541944587,	Weight 1.200340633277059,	Bias 0.03616578305
7735996			
Iteration 201:	Cost 103.62764011870078,	Weight 1.2003401823310453,	Bias 0.0361888018
316283			
Iteration 202:	Cost 103.62763481805183,	Weight 1.2003397313891162,	Bias 0.0362118203
970272			
Iteration 203:	Cost 103.62762951749872,	Weight 1.2003392804512716,	Bias 0.0362348387
5393458			
Iteration 204:	Cost 103.6276242170418,	Weight 1.2003388295175115,	Bias 0.03625785690
235233			
Iteration 205:	Cost 103.62761891668083,	Weight 1.2003383785878357,	Bias 0.0362808748
4228233			
Iteration 206:	Cost 103.62761361641579,	Weight 1.2003379276622441,	Bias 0.0363038925
7372648			
Iteration 207:	Cost 103.62760831624689,	Weight 1.2003374767407367,	Bias 0.0363269100
9668666			
Iteration 208:	Cost 103.62760301617402,	Weight 1.2003370258233137,	Bias 0.0363499274
1116477			
Iteration 209:	Cost 103.62759771619702,	Weight 1.2003365749099748,	Bias 0.0363729445
1716269			
Iteration 210:	Cost 103.62759241631613,	Weight 1.20033612400072,	Bias 0.036395961414
68231			
Iteration 211:	Cost 103.6275871165312,	Weight 1.2003356730955494,	Bias 0.03641897810
372551			
Iteration 212:	Cost 103.62758181684231,	Weight 1.200335222194463,	Bias 0.03644199458
4294195			
Iteration 213:	Cost 103.62757651724951,	Weight 1.2003347712974606,	Bias 0.0364650108
5639024			
Iteration 214:	Cost 103.62757121775255,	Weight 1.2003343204045422,	Bias 0.0364880269
2001554			
Iteration 215:	Cost 103.62756591835166,	Weight 1.2003338695157078,	Bias 0.0365110427
7517198			
Iteration 216:	Cost 103.62756061904672,	Weight 1.2003334186309573,	Bias 0.0365340584
2186145			
Iteration 217:	Cost 103.62755531983785,	Weight 1.2003329677502907,	Bias 0.0365570738
6008583			
Iteration 218:	Cost 103.62755002072495,	Weight 1.200332516873708,	Bias 0.03658008908
984702			
Iteration 219:	Cost 103.62754472170809,	Weight 1.2003320660012091,	Bias 0.0366031041
111469			
Iteration 220:	Cost 103.6275394227871,	Weight 1.200331615132794,	Bias 0.036626118923
987365			
Iteration 221:	Cost 103.62753412396219,	Weight 1.2003311642684626,	Bias 0.0366491335
283703			
Iteration 222:	Cost 103.62752882523321,	Weight 1.200330713408215,	Bias 0.03667214792
429759			

Iteration 223:	Cost 103.6275235266003,	Weight 77113	1.200330262552051,	Bias 0.036695162111
Iteration 224:	Cost 103.62751822806337,	Weight 907928	1.2003298116999708,	Bias 0.0367181760
Iteration 225:	Cost 103.62751292962233,	Weight 1364494	1.200329360851974,	Bias 0.03674118986
Iteration 226:	Cost 103.62750763127733,	Weight 34881	1.200328910008061,	Bias 0.03676420342
Iteration 227:	Cost 103.6275023330283,	Weight 71655	1.2003284591682315,	Bias 0.03678721677
Iteration 228:	Cost 103.62749703487532,	Weight 2239859	1.2003280083324854,	Bias 0.0368102299
Iteration 229:	Cost 103.62749173681811,	Weight 918925	1.200327557500823,	Bias 0.03683324285
Iteration 230:	Cost 103.6274864388571,	Weight 7539376	1.2003271066732437,	Bias 0.03685625558
Iteration 231:	Cost 103.62748114099196,	Weight 7450854	1.200326655849748,	Bias 0.03687926810
Iteration 232:	Cost 103.62747584322287,	Weight 18925563	1.2003262050303356,	Bias 0.0369022804
Iteration 233:	Cost 103.62747054554964,	Weight 219654	1.2003257542150063,	Bias 0.0369252925
Iteration 234:	Cost 103.62746524797245,	Weight 1657225	1.2003253034037604,	Bias 0.0369483044
Iteration 235:	Cost 103.62745995049127,	Weight 274801	1.200324852596598,	Bias 0.03697131610
Iteration 236:	Cost 103.62745465310591,	Weight 8049455	1.2003244017935184,	Bias 0.0369943275
Iteration 237:	Cost 103.6274493558166,	Weight 981377	1.2003239509945223,	Bias 0.03701733884
Iteration 238:	Cost 103.6274440586232,	Weight 070756	1.2003235001996093,	Bias 0.03704034991
Iteration 239:	Cost 103.62743876152581,	Weight 63177795	1.2003230494087793,	Bias 0.0370633607
Iteration 240:	Cost 103.62743346452436,	Weight 0722637	1.2003225986220323,	Bias 0.0370863714
Iteration 241:	Cost 103.62742816761887,	Weight 4285518	1.2003221478393684,	Bias 0.0371093818
Iteration 242:	Cost 103.62742287080937,	Weight 700661	1.2003216970607873,	Bias 0.0371323920
Iteration 243:	Cost 103.62741757409577,	Weight 8886103	1.2003212462862893,	Bias 0.0371554020
Iteration 244:	Cost 103.62741227747809,	Weight 9924185	1.2003207955158741,	Bias 0.0371784118
Iteration 245:	Cost 103.62740698095648,	Weight 0121045	1.2003203447495419,	Bias 0.0372014215
Iteration 246:	Cost 103.62740168453067,	Weight 9476871	1.2003198939872926,	Bias 0.0372244308
Iteration 247:	Cost 103.6273963882009,	Weight 91854	1.200319443229126,	Bias 0.037247440079
Iteration 248:	Cost 103.62739109196707,	Weight 566618	1.2003189924750421,	Bias 0.0372704490
Iteration 249:	Cost 103.6273857958291,	Weight 00039	1.200318541725041,	Bias 0.037293457825
Iteration 250:	Cost 103.62738049978712,	Weight 849362	1.2003180909791225,	Bias 0.0373164663
Iteration 251:	Cost 103.6273752038411,	Weight 647112	1.2003176402372866,	Bias 0.03733947473
Iteration 252:	Cost 103.62736990799098,	Weight 7960703	1.2003171894995335,	Bias 0.0373624828
Iteration 253:	Cost 103.62736461223685,	Weight 1434582	1.2003167387658629,	Bias 0.0373854908
Iteration 254:	Cost 103.62735931657863,	Weight 4068938	1.2003162880362748,	Bias 0.0374084985
Iteration 255:	Cost 103.62735402101623,	Weight 58639596	1.2003158373107692,	Bias 0.0374315060

Iteration 256: Cost 103.62734872554994, Weight 68198356	1.2003153865893461, Bias 0.0374545133
Iteration 257: Cost 103.62734343017941, Weight 69367545	1.2003149358720053, Bias 0.0374775204
Iteration 258: Cost 103.62733813490497, Weight 214905	1.200314485158747, Bias 0.03750052736
Iteration 259: Cost 103.62733283972639, Weight 6544765	1.200314034449571, Bias 0.03752353404
Iteration 260: Cost 103.62732754464368, Weight 2255658	1.2003135837444776, Bias 0.0375465405
Iteration 261: Cost 103.62732224965694, Weight 9018636	1.2003131330434662, Bias 0.0375695467
Iteration 262: Cost 103.627316954766, Weight 3602	1.200312682346537, Bias 0.0375925528494
Iteration 263: Cost 103.62731165997108, Weight 0030744	1.2003122316536903, Bias 0.0376155587
Iteration 264: Cost 103.62730636527215, Weight 42802494	1.2003117809649255, Bias 0.0376385643
Iteration 265: Cost 103.62730107066899, Weight 7692308	1.2003113302802428, Bias 0.0376615697
Iteration 266: Cost 103.62729577616193, Weight 02671084	1.2003108795996422, Bias 0.0376845750
Iteration 267: Cost 103.62729048175058, Weight 004839	1.200310428923124, Bias 0.03770758002
Iteration 268: Cost 103.62728518743523, Weight 2905689	1.2003099782506874, Bias 0.0377305848
Iteration 269: Cost 103.62727989321581, Weight 969847	1.200309527582333, Bias 0.03775358942
Iteration 270: Cost 103.6272745990922, Weight 197501	1.2003090769180604, Bias 0.03777659382
Iteration 271: Cost 103.6272693050646, Weight 8842	1.20030862625787, Bias 0.0377995980058
Iteration 272: Cost 103.62726401113278, Weight 144056	1.200308175601761, Bias 0.03782260198
Iteration 273: Cost 103.627258717297, Weight 63333	1.2003077249497343, Bias 0.037845605748
Iteration 274: Cost 103.62725342355701, Weight 7468624	1.200307274301789, Bias 0.03786860930
Iteration 275: Cost 103.62724812991297, Weight 5794832	1.2003068236579257, Bias 0.0378916126
Iteration 276: Cost 103.62724283636479, Weight 00074304	1.2003063730181442, Bias 0.0379146158
Iteration 277: Cost 103.62723754291255, Weight 3384846	1.2003059223824442, Bias 0.0379376187
Iteration 278: Cost 103.62723224955616, Weight 927268	1.200305471750826, Bias 0.03796062145
Iteration 279: Cost 103.62722695629574, Weight 7634886	1.2003050211232893, Bias 0.0379836239
Iteration 280: Cost 103.62722166313108, Weight 8507887	1.2003045704998343, Bias 0.0380066262
Iteration 281: Cost 103.62721637006241, Weight 85464614	1.2003041198804607, Bias 0.0380296283
Iteration 282: Cost 103.62721107708954, Weight 7750797	1.2003036692651687, Bias 0.0380526302
Iteration 283: Cost 103.62720578421266, Weight 61210825	1.2003032186539582, Bias 0.0380756319
Iteration 284: Cost 103.6272004914315, Weight 57507	1.200302768046829, Bias 0.038098633436
Iteration 285: Cost 103.62719519874634, Weight 0360258	1.2003023174437812, Bias 0.0381216347
Iteration 286: Cost 103.62718990615704, Weight 6229526	1.2003018668448149, Bias 0.0381446357
Iteration 287: Cost 103.62718461366367, Weight 1265498	1.2003014162499297, Bias 0.0381676366
Iteration 288: Cost 103.62717932126608, Weight 468364	1.200300965659126, Bias 0.03819063725

Iteration 289:	Cost 103.62717402896433, Weight 8838312	1.2003005150724033, Bias 0.0382136376
Iteration 290:	Cost 103.62716873675855, Weight 375531	1.200300064489762, Bias 0.03823663791
Iteration 291:	Cost 103.62716344464855, Weight 308021	1.2002996139112017, Bias 0.0382596379
Iteration 292:	Cost 103.62715815263454, Weight 3952537	1.2002991633367226, Bias 0.0382826377
Iteration 293:	Cost 103.62715286071625, Weight 39927014	1.2002987127663247, Bias 0.0383056373
Iteration 294:	Cost 103.62714756889397, Weight 3200891	1.2002982622000078, Bias 0.0383286367
Iteration 295:	Cost 103.62714227716745, Weight 1577295	1.2002978116377718, Bias 0.0383516359
Iteration 296:	Cost 103.62713698553681, Weight 91221025	1.2002973610796168, Bias 0.0383746348
Iteration 297:	Cost 103.62713169400202, Weight 5835502	1.2002969105255428, Bias 0.0383976336
Iteration 298:	Cost 103.62712640256308, Weight 176814	1.20029645997555, Bias 0.038420632217
Iteration 299:	Cost 103.62712111122006, Weight 676883	1.2002960094296378, Bias 0.0384436305
Iteration 300:	Cost 103.6271158199728, Weight 9891364	1.2002955588878064, Bias 0.03846662870
Iteration 301:	Cost 103.62711052882142, Weight 4378789	1.2002951083500557, Bias 0.0384896266
Iteration 302:	Cost 103.62710523776599, Weight 937977	1.200294657816386, Bias 0.03851262436
Iteration 303:	Cost 103.6270999468062, Weight 66889	1.200294207286797, Bias 0.038535621886
Iteration 304:	Cost 103.62709465594241, Weight 9565713	1.2002937567612886, Bias 0.0385586191
Iteration 305:	Cost 103.6270893651745, Weight 6346384	1.2002933062398609, Bias 0.03858161629
Iteration 306:	Cost 103.62708407450228, Weight 88738535	1.2002928557225139, Bias 0.0386046131
Iteration 307:	Cost 103.62707878392601, Weight 7283547	1.2002924052092474, Bias 0.0386276098
Iteration 308:	Cost 103.62707349344558, Weight 4863908	1.2002919547000614, Bias 0.0386506063
Iteration 309:	Cost 103.62706820306097, Weight 615124	1.200291504194956, Bias 0.03867360261
Iteration 310:	Cost 103.62706291277212, Weight 7537385	1.2002910536939309, Bias 0.0386965986
Iteration 311:	Cost 103.6270576225792, Weight 63088	1.2002906031969862, Bias 0.03871959452
Iteration 312:	Cost 103.62705233248211, Weight 895796	1.200290152704122, Bias 0.03874259016
Iteration 313:	Cost 103.62704704248074, Weight 0332322	1.2002897022153383, Bias 0.0387655856
Iteration 314:	Cost 103.62704175257538, Weight 2940648	1.2002892517306347, Bias 0.0387885808
Iteration 315:	Cost 103.62703646276569, Weight 4720961	1.2002888012500115, Bias 0.0388115758
Iteration 316:	Cost 103.62703117305182, Weight 56734506	1.2002883507734685, Bias 0.0388345706
Iteration 317:	Cost 103.6270258834339, Weight 7983055	1.2002879003010059, Bias 0.03885756525
Iteration 318:	Cost 103.62702059391171, Weight 5095714	1.2002874498326233, Bias 0.0388805596
Iteration 319:	Cost 103.62701530448538, Weight 3565865	1.2002869993683207, Bias 0.0389035538
Iteration 320:	Cost 103.62701001515484, Weight 12089464	1.2002865489080985, Bias 0.0389265478
Iteration 321:	Cost 103.62700472592023, Weight 0251476	1.200286098451956, Bias 0.03894954158

Iteration 322:	Cost 103.62699943678126,	Weight 4014657	1.2002856479998938,	Bias 0.0389725351
Iteration 323:	Cost 103.62699414773815,	Weight 91776635	1.2002851975519115,	Bias 0.0389955284
Iteration 324:	Cost 103.62698885879092,	Weight 35143556	1.2002847471080091,	Bias 0.0390185216
Iteration 325:	Cost 103.62698356993945,	Weight 70249215	1.2002842966681866,	Bias 0.0390415145
Iteration 326:	Cost 103.62697828118372,	Weight 7095506	1.200283846232444,	Bias 0.03906450729
Iteration 327:	Cost 103.62697299252395,	Weight 1568431	1.2002833958007815,	Bias 0.0390874998
Iteration 328:	Cost 103.62696770395983,	Weight 2601751	1.2002829453731985,	Bias 0.0391104921
Iteration 329:	Cost 103.62696241549162,	Weight 28097	1.2002824949496953,	Bias 0.0391334842
Iteration 330:	Cost 103.62695712711928,	Weight 2192467	1.2002820445302718,	Bias 0.0391564761
Iteration 331:	Cost 103.62695183884257,	Weight 7502394	1.200281594114928,	Bias 0.03917946780
Iteration 332:	Cost 103.62694655066173,	Weight 483206	1.200281143703664,	Bias 0.03920245928
Iteration 333:	Cost 103.62694126257665,	Weight 5391557	1.2002806932964796,	Bias 0.0392254505
Iteration 334:	Cost 103.62693597458741,	Weight 1475479	1.2002802428933748,	Bias 0.0392484416
Iteration 335:	Cost 103.62693068669401,	Weight 6735161	1.2002797924943494,	Bias 0.0392714324
Iteration 336:	Cost 103.62692539889623,	Weight 1170793	1.2002793420994036,	Bias 0.0392944231
Iteration 337:	Cost 103.6269201111944,	Weight 782562	1.2002788917085372,	Bias 0.03931741354
Iteration 338:	Cost 103.6269148235883,	Weight 570657	1.2002784413217502,	Bias 0.03934040377
Iteration 339:	Cost 103.62690953607793,	Weight 95352676	1.2002779909390426,	Bias 0.0393633937
Iteration 340:	Cost 103.62690424866338,	Weight 06765815	1.2002775405604145,	Bias 0.0393863836
Iteration 341:	Cost 103.6268989613447,	Weight 9947876	1.2002770901858657,	Bias 0.03940937320
Iteration 342:	Cost 103.62689367412167,	Weight 0490074	1.2002766398153961,	Bias 0.0394323626
Iteration 343:	Cost 103.62688838699447,	Weight 916263	1.2002761894490057,	Bias 0.0394553517
Iteration 344:	Cost 103.62688309996304,	Weight 70126435	1.2002757390866947,	Bias 0.0394783407
Iteration 345:	Cost 103.6268778130275,	Weight 0403037	1.2002752887284627,	Bias 0.03950132954
Iteration 346:	Cost 103.62687252618757,	Weight 45799	1.20027483837431,	Bias 0.039524318102
Iteration 347:	Cost 103.62686723944341,	Weight 5629318	1.2002743880242364,	Bias 0.0395473064
Iteration 348:	Cost 103.62686195279517,	Weight 0191049	1.2002739376782416,	Bias 0.0395702946
Iteration 349:	Cost 103.62685666624265,	Weight 3931182	1.2002734873363259,	Bias 0.0395932825
Iteration 350:	Cost 103.62685137978576,	Weight 6849904	1.2002730369984893,	Bias 0.0396162702
Iteration 351:	Cost 103.62684609342477,	Weight 8947404	1.2002725866647317,	Bias 0.0396392577
Iteration 352:	Cost 103.62684080715948,	Weight 022387	1.2002721363350528,	Bias 0.0396622451
Iteration 353:	Cost 103.62683552098997,	Weight 0679492	1.2002716860094529,	Bias 0.0396852322
Iteration 354:	Cost 103.62683023491618,	Weight 314458	1.200271235687932,	Bias 0.03970821910

Iteration 355: Cost 103.62682494893824, Weight 9128956	1.2002707853704897, Bias 0.0397312057
Iteration 356: Cost 103.62681966305595, Weight 7123175	1.2002703350571262, Bias 0.0397541922
Iteration 357: Cost 103.62681437726948, Weight 4297304	1.2002698847478415, Bias 0.0397771785
Iteration 358: Cost 103.62680909157874, Weight 0651531	1.2002694344426355, Bias 0.0398001646
Iteration 359: Cost 103.62680380598381, Weight 186044	1.200268984141508, Bias 0.03982315046
Iteration 360: Cost 103.6267985204845, Weight 901033	1.20026853384444592, Bias 0.03984613610
Iteration 361: Cost 103.62679323508108, Weight 796686	1.200268083551489, Bias 0.03986912154
Iteration 362: Cost 103.62678794977327, Weight 78731916	1.2002676332625974, Bias 0.0398921067
Iteration 363: Cost 103.62678266456132, Weight 0130738	1.2002671829777842, Bias 0.0399150918
Iteration 364: Cost 103.62677737944509, Weight 15695144	1.2002667326970495, Bias 0.0399380766
Iteration 365: Cost 103.62677209442452, Weight 2189708	1.2002662824203933, Bias 0.0399610612
Iteration 366: Cost 103.62676680949986, Weight 19915094	1.2002658321478155, Bias 0.0399840456
Iteration 367: Cost 103.62676152467074, Weight 0975106	1.2002653818793159, Bias 0.0400070298
Iteration 368: Cost 103.62675623993746, Weight 9140686	1.2002649316148948, Bias 0.0400300137
Iteration 369: Cost 103.62675095529985, Weight 488438	1.200264481354552, Bias 0.04005299756
Iteration 370: Cost 103.62674567075805, Weight 3018552	1.2002640310982873, Bias 0.0400759811
Iteration 371: Cost 103.62674038631194, Weight 8731215	1.2002635808461009, Bias 0.0400989644
Iteration 372: Cost 103.62673510196154, Weight 3626616	1.2002631305979927, Bias 0.0401219476
Iteration 373: Cost 103.62672981770677, Weight 7704944	1.2002626803539627, Bias 0.0401449305
Iteration 374: Cost 103.62672453354789, Weight 0966387	1.2002622301140107, Bias 0.0401679133
Iteration 375: Cost 103.6267192494847, Weight 411134	1.2002617798781368, Bias 0.04019089583
Iteration 376: Cost 103.62671396551718, Weight 039373	1.200261329646341, Bias 0.04021387815
Iteration 377: Cost 103.62670868164547, Weight 8512926	1.200260879418623, Bias 0.04023686025
Iteration 378: Cost 103.62670339786938, Weight 847082	1.200260429194983, Bias 0.04025984215
Iteration 379: Cost 103.62669811418904, Weight 026929	1.200259978975421, Bias 0.04028282385
Iteration 380: Cost 103.62669283060441, Weight 3910226	1.200259528759937, Bias 0.04030580533
Iteration 381: Cost 103.6266875471155, Weight 939551	1.2002590785485305, Bias 0.04032878660
Iteration 382: Cost 103.62668226372224, Weight 672703	1.200258628341202, Bias 0.04035176767
Iteration 383: Cost 103.6266769804248, Weight 5906675	1.2002581781379513, Bias 0.04037474853
Iteration 384: Cost 103.62667169722306, Weight 8693632	1.2002577279387783, Bias 0.0403977291
Iteration 385: Cost 103.6266664141169, Weight 817864	1.200257277743683, Bias 0.040420709629
Iteration 386: Cost 103.62666113110654, Weight 6455318	1.2002568275526655, Bias 0.0404436898
Iteration 387: Cost 103.62665584819183, Weight 91144155	1.2002563773657255, Bias 0.0404666698

Iteration 388: Cost 103.62665056537286, Weight 959268	1.200255927182863, Bias 0.04048964970
Iteration 389: Cost 103.62664528264958, Weight 9900635	1.200255477004078, Bias 0.04051262931
Iteration 390: Cost 103.62664000002201, Weight 2206991	1.2002550268293708, Bias 0.0405356087
Iteration 391: Cost 103.62663471749013, Weight 610239	1.200254576658741, Bias 0.04055858791
Iteration 392: Cost 103.62662943505397, Weight 0199995	1.2002541264921884, Bias 0.0405815669
Iteration 393: Cost 103.62662415271342, Weight 79764494	1.2002536763297134, Bias 0.0406045456
Iteration 394: Cost 103.62661887046866, Weight 4939789	1.2002532261713157, Bias 0.0406275242
Iteration 395: Cost 103.62661358831956, Weight 10902035	1.2002527760169952, Bias 0.0406505026
Iteration 396: Cost 103.62660830626604, Weight 6427881	1.2002523258667521, Bias 0.0406734807
Iteration 397: Cost 103.62660302430828, Weight 095301	1.2002518757205862, Bias 0.0406964587
Iteration 398: Cost 103.62659774244617, Weight 46657785	1.2002514255784977, Bias 0.0407194364
Iteration 399: Cost 103.62659246067983, Weight 75663756	1.2002509754404862, Bias 0.0407424139
Iteration 400: Cost 103.62658717900908, Weight 6549894	1.200250525306552, Bias 0.04076539129
Iteration 401: Cost 103.62658189743402, Weight 9318085	1.200250075176695, Bias 0.04078836840
Iteration 402: Cost 103.62657661595472, Weight 1397022	1.2002496250509147, Bias 0.0408113453
Iteration 403: Cost 103.62657133457105, Weight 1050818	1.2002491749292117, Bias 0.0408343220
Iteration 404: Cost 103.626566053283, Weight 933846	1.2002487248115854, Bias 0.040857298498
Iteration 405: Cost 103.62656077209061, Weight 7924911	1.2002482746980363, Bias 0.0408802747
Iteration 406: Cost 103.62655549099398, Weight 5145585	1.2002478245885642, Bias 0.0409032508
Iteration 407: Cost 103.62655020999298, Weight 1555596	1.2002473744831688, Bias 0.0409262267
Iteration 408: Cost 103.62654492908767, Weight 71551315	1.2002469243818503, Bias 0.0409492023
Iteration 409: Cost 103.62653964827788, Weight 194438	1.2002464742846086, Bias 0.0409721778
Iteration 410: Cost 103.62653436756386, Weight 5923531	1.2002460241914437, Bias 0.0409951530
Iteration 411: Cost 103.62652908694558, Weight 90927725	1.2002455741023554, Bias 0.0410181280
Iteration 412: Cost 103.62652380642287, Weight 4522926	1.200245124017344, Bias 0.04104110291
Iteration 413: Cost 103.62651852599578, Weight 300228	1.2002446739364092, Bias 0.0410640775
Iteration 414: Cost 103.62651324566436, Weight 742924	1.200244223859551, Bias 0.04108705193
Iteration 415: Cost 103.62650796542864, Weight 3674412	1.2002437737867695, Bias 0.0411100261
Iteration 416: Cost 103.62650268528856, Weight 27969326	1.2002433237180645, Bias 0.0411330001
Iteration 417: Cost 103.62649740524415, Weight 11106744	1.2002428736534358, Bias 0.0411559739
Iteration 418: Cost 103.62649212529533, Weight 615826	1.200242423592884, Bias 0.04117894748
Iteration 419: Cost 103.62648684544222, Weight 5312576	1.2002419735364083, Bias 0.0412019208
Iteration 420: Cost 103.6264815656848, Weight 2011126	1.2002415234840091, Bias 0.04122489401

Iteration 421:	Cost 103.62647628602295,	Weight 62816244	1.2002410734356863,	Bias 0.0412478669
Iteration 422:	Cost 103.62647100645665,	Weight 05542996	1.2002406233914398,	Bias 0.0412708397
Iteration 423:	Cost 103.62646572698613,	Weight 40193274	1.2002401733512695,	Bias 0.0412938122
Iteration 424:	Cost 103.62646044761115,	Weight 6676895	1.2002397233151756,	Bias 0.0413167845
Iteration 425:	Cost 103.62645516833189,	Weight 8527192	1.2002392732831577,	Bias 0.0413397566
Iteration 426:	Cost 103.62644988914823,	Weight 9570407	1.2002388232552161,	Bias 0.0413627285
Iteration 427:	Cost 103.62644461006013,	Weight 9806728	1.2002383732313509,	Bias 0.0413857002
Iteration 428:	Cost 103.6264393310677,	Weight 2363426	1.2002379232115616,	Bias 0.04140867179
Iteration 429:	Cost 103.62643405217099,	Weight 78594406	1.2002374731958483,	Bias 0.0414316430
Iteration 430:	Cost 103.62642877336985,	Weight 67621	1.200237023184211,	Bias 0.04145461415
Iteration 431:	Cost 103.62642349466432,	Weight 2686839	1.2002365731766498,	Bias 0.0414775850
Iteration 432:	Cost 103.62641821605442,	Weight 8891516	1.2002361231731646,	Bias 0.0415005556
Iteration 433:	Cost 103.62641293754017,	Weight 42904305	1.2002356731737553,	Bias 0.0415235261
Iteration 434:	Cost 103.62640765912158,	Weight 883769	1.200235223178422,	Bias 0.04154649638
Iteration 435:	Cost 103.6264023807984,	Weight 671722	1.2002347731871643,	Bias 0.04156946642
Iteration 436:	Cost 103.6263971025711,	Weight 6544775	1.2002343231999826,	Bias 0.04159243625
Iteration 437:	Cost 103.62639182443928,	Weight 7832223	1.2002338732168765,	Bias 0.0416154058
Iteration 438:	Cost 103.62638654640305,	Weight 9205147	1.2002334232378462,	Bias 0.0416383752
Iteration 439:	Cost 103.62638126846244,	Weight 9773439	1.2002329732628918,	Bias 0.0416613444
Iteration 440:	Cost 103.62637599061753,	Weight 9537287	1.2002325232920128,	Bias 0.0416843134
Iteration 441:	Cost 103.62637071286814,	Weight 8496879	1.2002320733252096,	Bias 0.0417072822
Iteration 442:	Cost 103.62636543521438,	Weight 652404	1.200231623362482,	Bias 0.04173025086
Iteration 443:	Cost 103.62636015765624,	Weight 40040496	1.2002311734038298,	Bias 0.0417532192
Iteration 444:	Cost 103.62635488019367,	Weight 552005	1.200230723449253,	Bias 0.04177618740
Iteration 445:	Cost 103.62634960282674,	Weight 296458	1.200230273498752,	Bias 0.04179915536
Iteration 446:	Cost 103.62634432555537,	Weight 1237597	1.2002298235523263,	Bias 0.0418221231
Iteration 447:	Cost 103.62633904837969,	Weight 375611	1.200229373609976,	Bias 0.04184509065
Iteration 448:	Cost 103.6263337712995,	Weight 710689	1.2002289236717012,	Bias 0.04186805798
Iteration 449:	Cost 103.62632849431495,	Weight 1243018	1.2002284737375017,	Bias 0.0418910251
Iteration 450:	Cost 103.62632321742595,	Weight 2972788	1.2002280238073775,	Bias 0.0419139920
Iteration 451:	Cost 103.62631794063262,	Weight 39001856	1.2002275738813284,	Bias 0.0419369587
Iteration 452:	Cost 103.62631266393483,	Weight 40254006	1.2002271239593545,	Bias 0.0419599252
Iteration 453:	Cost 103.62630738733257,	Weight 348621	1.200226674041456,	Bias 0.04198289153

Iteration 454: Cost 103.62630211082603, Weight 1870035	1.2002262241276325, Bias 0.0420058576
Iteration 455: Cost 103.62629683441497, Weight 9589831	1.2002257742178841, Bias 0.0420288234
Iteration 456: Cost 103.62629155809952, Weight 65081975	1.2002253243122107, Bias 0.0420517891
Iteration 457: Cost 103.62628628187969, Weight 26253236	1.2002248744106125, Bias 0.0420747546
Iteration 458: Cost 103.62628100575535, Weight 7941397	1.2002244245130893, Bias 0.0420977198
Iteration 459: Cost 103.62627572972664, Weight 456606	1.200223974619641, Bias 0.04212068492
Iteration 460: Cost 103.62627045379352, Weight 61711394	1.2002235247302677, Bias 0.0421436497
Iteration 461: Cost 103.62626517795599, Weight 90851856	1.2002230748449694, Bias 0.0421666143
Iteration 462: Cost 103.62625990221395, Weight 1198933	1.2002226249637458, Bias 0.0421895788
Iteration 463: Cost 103.62625462656752, Weight 512569	1.200222175086597, Bias 0.04221254302
Iteration 464: Cost 103.6262493510167, Weight 26283	1.200221725213523, Bias 0.042235507030
Iteration 465: Cost 103.6262440755614, Weight 740264	1.2002212753445238, Bias 0.04225847082
Iteration 466: Cost 103.6262388002017, Weight 654699	1.2002208254795992, Bias 0.04228143441
Iteration 467: Cost 103.62623352493753, Weight 9769777	1.2002203756187493, Bias 0.0423043977
Iteration 468: Cost 103.6262282497689, Weight 085687	1.2002199257619741, Bias 0.04232736097
Iteration 469: Cost 103.62622297469588, Weight 3602616	1.2002194759092735, Bias 0.0423503239
Iteration 470: Cost 103.62621769971841, Weight 93207536	1.2002190260606473, Bias 0.0423732866
Iteration 471: Cost 103.62621242483654, Weight 4240288	1.2002185762160957, Bias 0.0423962492
Iteration 472: Cost 103.62620715005013, Weight 8361407	1.2002181263756186, Bias 0.0424192115
Iteration 473: Cost 103.62620187535933, Weight 16842994	1.2002176765392158, Bias 0.0424421737
Iteration 474: Cost 103.62619660076405, Weight 42091534	1.2002172267068876, Bias 0.0424651356
Iteration 475: Cost 103.62619132626438, Weight 5936158	1.2002167768786338, Bias 0.0424880973
Iteration 476: Cost 103.62618605186022, Weight 68655006	1.2002163270544541, Bias 0.0425110588
Iteration 477: Cost 103.62618077755154, Weight 99737	1.200215877234349, Bias 0.04253402016
Iteration 478: Cost 103.62617550333846, Weight 331955	1.200215427418318, Bias 0.04255698126
Iteration 479: Cost 103.62617022922096, Weight 48694434	1.2002149776063613, Bias 0.0425799421
Iteration 480: Cost 103.6261649551989, Weight 610024	1.2002145277984788, Bias 0.04260290282
Iteration 481: Cost 103.62615968127254, Weight 9553885	1.2002140779946704, Bias 0.0426258632
Iteration 482: Cost 103.62615440744156, Weight 701215	1.200213628194936, Bias 0.04264882355
Iteration 483: Cost 103.6261491337062, Weight 052201	1.2002131783992758, Bias 0.04267178361
Iteration 484: Cost 103.62614386006626, Weight 56070335	1.2002127286076896, Bias 0.0426947434
Iteration 485: Cost 103.62613858652202, Weight 9365899	1.2002122788201774, Bias 0.0427177030
Iteration 486: Cost 103.62613331307317, Weight 23289875	1.2002118290367392, Bias 0.0427406625

Iteration 487:	Cost 103.62612803971999,	Weight 496486	1.200211379257375,	Bias 0.04276362174
Iteration 488:	Cost 103.6261227664622,	Weight 8685834	1.2002109294820846,	Bias 0.04278658075
Iteration 489:	Cost 103.62611749330004,	Weight 6445468	1.2002104797108681,	Bias 0.0428095395
Iteration 490:	Cost 103.62611222023331,	Weight 62273275	1.2002100299437255,	Bias 0.0428324981
Iteration 491:	Cost 103.62610694726217,	Weight 5214351	1.2002095801806565,	Bias 0.0428554565
Iteration 492:	Cost 103.62610167438649,	Weight 34067276	1.2002091304216613,	Bias 0.0428784147
Iteration 493:	Cost 103.62609640160636,	Weight 0804645	1.2002086806667398,	Bias 0.0429013727
Iteration 494:	Cost 103.62609112892179,	Weight 7408291	1.2002082309158921,	Bias 0.0429243304
Iteration 495:	Cost 103.62608585633265,	Weight 3217854	1.2002077811691179,	Bias 0.0429472880
Iteration 496:	Cost 103.62608058383913,	Weight 8233522	1.2002073314264172,	Bias 0.0429702453
Iteration 497:	Cost 103.62607531144104,	Weight 2455485	1.2002068816877902,	Bias 0.0429932025
Iteration 498:	Cost 103.62607003913851,	Weight 58839305	1.2002064319532368,	Bias 0.0430161594
Iteration 499:	Cost 103.62606476693145,	Weight 8519046	1.2002059822227569,	Bias 0.0430391161
Iteration 500:	Cost 103.62605949481986,	Weight 0361021	1.2002055324963503,	Bias 0.0430620727
Iteration 501:	Cost 103.62605422280379,	Weight 1410043	1.2002050827740172,	Bias 0.0430850290
Iteration 502:	Cost 103.62604895088333,	Weight 16663014	1.2002046330557574,	Bias 0.0431079851
Iteration 503:	Cost 103.62604367905826,	Weight 1299835	1.200204183341571,	Bias 0.04313094101
Iteration 504:	Cost 103.62603840732872,	Weight 801278	1.200203733631458,	Bias 0.04315389669
Iteration 505:	Cost 103.62603313569468,	Weight 6803726	1.200203283925418,	Bias 0.04317685217
Iteration 506:	Cost 103.62602786415616,	Weight 4767457	1.2002028342234514,	Bias 0.0431998074
Iteration 507:	Cost 103.62602259271311,	Weight 0627184	1.200202384525558,	Bias 0.04322276251
Iteration 508:	Cost 103.62601732136552,	Weight 65663454	1.2002019348317379,	Bias 0.0432457173
Iteration 509:	Cost 103.62601205011345,	Weight 1278526	1.2002014851419907,	Bias 0.0432686720
Iteration 510:	Cost 103.62600677895684,	Weight 5199449	1.2002010354563166,	Bias 0.0432916264
Iteration 511:	Cost 103.6260015078958,	Weight 329303	1.2002005857747156,	Bias 0.04331458068
Iteration 512:	Cost 103.62599623693013,	Weight 0668276	1.2002001360971877,	Bias 0.0433375347
Iteration 513:	Cost 103.62599096606004,	Weight 22165556	1.2001996864237325,	Bias 0.0433604885
Iteration 514:	Cost 103.62598569528541,	Weight 29743315	1.2001992367543504,	Bias 0.0433834421
Iteration 515:	Cost 103.6259804246062,	Weight 941791	1.2001987870890414,	Bias 0.04340639552
Iteration 516:	Cost 103.6259751540226,	Weight 191224	1.200198337427805,	Bias 0.043429348721
Iteration 517:	Cost 103.62596988353431,	Weight 05065144	1.2001978877706414,	Bias 0.0434523017
Iteration 518:	Cost 103.6259646131416,	Weight 104155	1.2001974381175506,	Bias 0.04347525448
Iteration 519:	Cost 103.62595934284431,	Weight 4912233	1.2001969884685326,	Bias 0.0434982070

Iteration 520:	Cost 103.62595407264257,	Weight 0930936	1.2001965388235873,	Bias 0.0435211594
Iteration 521:	Cost 103.62594880253624,	Weight 6160453	1.2001960891827148,	Bias 0.0435441115
Iteration 522:	Cost 103.62594353252535,	Weight 0600972	1.2001956395459148,	Bias 0.0435670635
Iteration 523:	Cost 103.62593826260995,	Weight 4252682	1.2001951899131875,	Bias 0.0435900152
Iteration 524:	Cost 103.62593299279007,	Weight 71157696	1.2001947402845328,	Bias 0.0436129667
Iteration 525:	Cost 103.62592772306556,	Weight 91904244	1.2001942906599505,	Bias 0.0436359180
Iteration 526:	Cost 103.62592245343666,	Weight 04768344	1.2001938410394408,	Bias 0.0436588692
Iteration 527:	Cost 103.62591718390308,	Weight 0975188	1.2001933914230034,	Bias 0.0436818201
Iteration 528:	Cost 103.62591191446501,	Weight 0685673	1.2001929418106385,	Bias 0.0437047708
Iteration 529:	Cost 103.62590664512233,	Weight 96084786	1.2001924922023461,	Bias 0.0437277212
Iteration 530:	Cost 103.62590137587517,	Weight 743792	1.200192042598126,	Bias 0.04375067157
Iteration 531:	Cost 103.6258961067235,	Weight 91802	1.200191592997978,	Bias 0.043773621650
Iteration 532:	Cost 103.62589083766716,	Weight 16526966	1.2001911434019024,	Bias 0.0437965715
Iteration 533:	Cost 103.62588556870637,	Weight 426665	1.200190693809899,	Bias 0.04381952117
Iteration 534:	Cost 103.6258802998411,	Weight 413894	1.2001902442219679,	Bias 0.04384247062
Iteration 535:	Cost 103.62587503107109,	Weight 66145734	1.2001897946381088,	Bias 0.0438654198
Iteration 536:	Cost 103.62586976239663,	Weight 0028891	1.2001893450583219,	Bias 0.0438883689
Iteration 537:	Cost 103.62586449381753,	Weight 26570344	1.2001888954826072,	Bias 0.0439113177
Iteration 538:	Cost 103.62585922533395,	Weight 44991924	1.2001884459109644,	Bias 0.0439342663
Iteration 539:	Cost 103.62585395694579,	Weight 5555553	1.2001879963433937,	Bias 0.0439572147
Iteration 540:	Cost 103.62584868865312,	Weight 826305	1.200187546779895,	Bias 0.04398016295
Iteration 541:	Cost 103.6258434204558,	Weight 311636	1.2001870972204682,	Bias 0.04400311095
Iteration 542:	Cost 103.62583815235394,	Weight 4011735	1.2001866476651133,	Bias 0.0440260587
Iteration 543:	Cost 103.62583288434752,	Weight 192679	1.2001861981138302,	Bias 0.0440490063
Iteration 544:	Cost 103.62582761643648,	Weight 056989	1.200185748566619,	Bias 0.04407195369
Iteration 545:	Cost 103.625822348621,	Weight 025204	1.2001852990234796,	Bias 0.044094900854
Iteration 546:	Cost 103.62581708090076,	Weight 0963572	1.2001848494844118,	Bias 0.0441178478
Iteration 547:	Cost 103.62581181327602,	Weight 740333	1.200184399949416,	Bias 0.04414079455
Iteration 548:	Cost 103.62580654574683,	Weight 9732991	1.2001839504184917,	Bias 0.0441637410
Iteration 549:	Cost 103.62580127831293,	Weight 941734	1.200183500891639,	Bias 0.04418668742
Iteration 550:	Cost 103.62579601097448,	Weight 3667506	1.200183051368858,	Bias 0.04420963355
Iteration 551:	Cost 103.62579074373141,	Weight 70082294	1.2001826018501485,	Bias 0.0442325794
Iteration 552:	Cost 103.62578547658384,	Weight 7866358	1.2001821523355105,	Bias 0.0442555251

Iteration 553:	Cost 103.62578020953164,	Weight 79413255	1.2001817028249442,	Bias 0.0442784706
Iteration 554:	Cost 103.62577494257482,	Weight 23332	1.200181253318449,	Bias 0.04430141597
Iteration 555:	Cost 103.6257696757134,	Weight 7425286	1.2001808038160255,	Bias 0.04432436105
Iteration 556:	Cost 103.6257644089475,	Weight 469141	1.2001803543176734,	Bias 0.04434730593
Iteration 557:	Cost 103.62575914227692,	Weight 04133445	1.2001799048233925,	Bias 0.0443702506
Iteration 558:	Cost 103.62575387570178,	Weight 5753274	1.200179455333183,	Bias 0.04439319506
Iteration 559:	Cost 103.62574860922203,	Weight 1955279	1.2001790058470447,	Bias 0.0444161393
Iteration 560:	Cost 103.62574334283767,	Weight 6553386	1.2001785563649778,	Bias 0.0444390833
Iteration 561:	Cost 103.62573807654869,	Weight 0369837	1.2001781068869821,	Bias 0.0444620272
Iteration 562:	Cost 103.62573281035512,	Weight 3404821	1.2001776574130574,	Bias 0.0444849708
Iteration 563:	Cost 103.625727544257,	Weight 585256	1.2001772079432038,	Bias 0.044507914256
Iteration 564:	Cost 103.62572227825423,	Weight 7131139	1.2001767584774214,	Bias 0.0445308574
Iteration 565:	Cost 103.62571701234685,	Weight 2285	1.20017630901571,	Bias 0.044553800478
Iteration 566:	Cost 103.6257117465349,	Weight 733847	1.2001758595580698,	Bias 0.04457674327
Iteration 567:	Cost 103.62570648081831,	Weight 68643164	1.2001754101045004,	Bias 0.0445996858
Iteration 568:	Cost 103.62570121519715,	Weight 5214448	1.2001749606550018,	Bias 0.0446226282
Iteration 569:	Cost 103.62569594967133,	Weight 27844304	1.2001745112095745,	Bias 0.0446455704
Iteration 570:	Cost 103.62569068424082,	Weight 9574451	1.2001740617682177,	Bias 0.0446685123
Iteration 571:	Cost 103.62568541890582,	Weight 584697	1.200173612330932,	Bias 0.04469145415
Iteration 572:	Cost 103.62568015366621,	Weight 0815359	1.2001731628977168,	Bias 0.0447143957
Iteration 573:	Cost 103.62567488852187,	Weight 52666235	1.2001727134685727,	Bias 0.0447373370
Iteration 574:	Cost 103.62566962347296,	Weight 938679	1.200172264043499,	Bias 0.04476027818
Iteration 575:	Cost 103.62566435851951,	Weight 1831715	1.2001718146224962,	Bias 0.0447832191
Iteration 576:	Cost 103.62565909366137,	Weight 9459174	1.200171365205564,	Bias 0.04480615983
Iteration 577:	Cost 103.62565382889856,	Weight 5281476	1.2001709157927023,	Bias 0.0448291003
Iteration 578:	Cost 103.62564856423114,	Weight 58385786	1.2001704663839114,	Bias 0.0448520406
Iteration 579:	Cost 103.62564329965909,	Weight 617413	1.200170016979191,	Bias 0.04487498075
Iteration 580:	Cost 103.62563803518239,	Weight 46181685	1.2001695675785409,	Bias 0.0448979206
Iteration 581:	Cost 103.62563277080116,	Weight 2841033	1.2001691181819614,	Bias 0.0449208603
Iteration 582:	Cost 103.62562750651517,	Weight 0286193	1.2001686687894524,	Bias 0.0449437998
Iteration 583:	Cost 103.62562224232465,	Weight 6953838	1.2001682194010137,	Bias 0.0449667390
Iteration 584:	Cost 103.62561697822937,	Weight 2844157	1.2001677700166453,	Bias 0.0449896781
Iteration 585:	Cost 103.62561171422954,	Weight 79573365	1.2001673206363472,	Bias 0.0450126169

Iteration 586: Cost 103.62560645032505, Weight 2293566	1.2001668712601194, Bias 0.0450355556
Iteration 587: Cost 103.62560118651587, Weight 853033	1.200166421887962, Bias 0.04505849405
Iteration 588: Cost 103.62559592280215, Weight 8635926	1.2001659725198746, Bias 0.0450814322
Iteration 589: Cost 103.62559065918362, Weight 06424335	1.2001655231558574, Bias 0.0451043703
Iteration 590: Cost 103.62558539566052, Weight 18727436	1.2001650737959104, Bias 0.0451273081
Iteration 591: Cost 103.62558013223281, Weight 23270435	1.2001646244400335, Bias 0.0451502457
Iteration 592: Cost 103.62557486890046, Weight 2005523	1.2001641750882266, Bias 0.0451731831
Iteration 593: Cost 103.62556960566346, Weight 0908369	1.2001637257404898, Bias 0.0451961203
Iteration 594: Cost 103.62556434252173, Weight 90357696	1.2001632763968229, Bias 0.0452190572
Iteration 595: Cost 103.6255590794753, Weight 87914	1.200162827057226, Bias 0.045241994063
Iteration 596: Cost 103.62555381652427, Weight 964989	1.200162377721699, Bias 0.04526493062
Iteration 597: Cost 103.62554855366862, Weight 87671836	1.2001619283902418, Bias 0.0452878669
Iteration 598: Cost 103.62554329090828, Weight 3794686	1.2001614790628545, Bias 0.0453108031
Iteration 599: Cost 103.62553802824326, Weight 0476845	1.200161029739537, Bias 0.04533373908
Iteration 600: Cost 103.62553276567365, Weight 1526367	1.2001605804202893, Bias 0.0453566748
Iteration 601: Cost 103.62552750319921, Weight 42309216	1.2001601311051113, Bias 0.0453796103
Iteration 602: Cost 103.6255222408202, Weight 61537	1.200159681794003, Bias 0.045402545661
Iteration 603: Cost 103.62551697853652, Weight 7318401	1.2001592324869643, Bias 0.0454254807
Iteration 604: Cost 103.62551171634823, Weight 7701701	1.2001587831839953, Bias 0.0454484156
Iteration 605: Cost 103.62550645425512, Weight 7311626	1.2001583338850959, Bias 0.0454713503
Iteration 606: Cost 103.62550119225749, Weight 61483644	1.2001578845902658, Bias 0.0454942848
Iteration 607: Cost 103.62549593035502, Weight 42121035	1.2001574352995055, Bias 0.0455172191
Iteration 608: Cost 103.62549066854803, Weight 1503032	1.2001569860128145, Bias 0.0455401532
Iteration 609: Cost 103.62548540683615, Weight 021338	1.200156536730193, Bias 0.04556308708
Iteration 610: Cost 103.62548014521977, Weight 37672095	1.2001560874516408, Bias 0.0455860207
Iteration 611: Cost 103.62547488369864, Weight 740835	1.200155638177158, Bias 0.04560895418
Iteration 612: Cost 103.62546962227282, Weight 2942403	1.2001551889067446, Bias 0.0456318874
Iteration 613: Cost 103.62546436094227, Weight 63721005	1.2001547396404004, Bias 0.0456548204
Iteration 614: Cost 103.62545909970709, Weight 9030116	1.2001542903781255, Bias 0.0456777532
Iteration 615: Cost 103.62545383856721, Weight 0916638	1.2001538411199197, Bias 0.0457006859
Iteration 616: Cost 103.62544857752265, Weight 2031854	1.2001533918657832, Bias 0.0457236183
Iteration 617: Cost 103.62544331657337, Weight 2375953	1.2001529426157158, Bias 0.0457465505
Iteration 618: Cost 103.62543805571934, Weight 1949123	1.2001524933697176, Bias 0.0457694825

Iteration 619: Cost 103.62543279496074, Weight 0751552	1.2001520441277884, Bias 0.0457924143
Iteration 620: Cost 103.62542753429736, Weight 8783427	1.2001515948899282, Bias 0.0458153458
Iteration 621: Cost 103.62542227372927, Weight 044938	1.200151145656137, Bias 0.04583827726
Iteration 622: Cost 103.6254170132564, Weight 536272	1.2001506964264146, Bias 0.04586120842
Iteration 623: Cost 103.62541175287899, Weight 8257617	1.2001502472007612, Bias 0.0458841393
Iteration 624: Cost 103.62540649259671, Weight 3209162	1.2001497979791766, Bias 0.0459070701
Iteration 625: Cost 103.62540123240987, Weight 3910946	1.200149348761661, Bias 0.04593000067
Iteration 626: Cost 103.62539597231819, Weight 0803603	1.2001488995482144, Bias 0.0459529310
Iteration 627: Cost 103.6253907123218, Weight 4468755	1.2001484503388362, Bias 0.04597586113
Iteration 628: Cost 103.6253854524208, Weight 3210995	1.2001480011335268, Bias 0.04599879105
Iteration 629: Cost 103.62538019261505, Weight 6426464	1.2001475519322862, Bias 0.0460217207
Iteration 630: Cost 103.62537493290452, Weight 6763156	1.2001471027351143, Bias 0.0460446502
Iteration 631: Cost 103.62536967328936, Weight 6331365	1.2001466535420109, Bias 0.0460675795
Iteration 632: Cost 103.62536441376943, Weight 1312784	1.200146204352976, Bias 0.04609050865
Iteration 633: Cost 103.62535915434485, Weight 31630844	1.2001457551680097, Bias 0.0461134375
Iteration 634: Cost 103.6253538950154, Weight 26971	1.200145305987112, Bias 0.046136366204
Iteration 635: Cost 103.6253486357813, Weight 9231264	1.2001448568102828, Bias 0.04615929466
Iteration 636: Cost 103.62534337664246, Weight 6517386	1.200144407637522, Bias 0.04618222292
Iteration 637: Cost 103.62533811759891, Weight 76129955	1.2001439584688296, Bias 0.0462051509
Iteration 638: Cost 103.62533285865064, Weight 1807085	1.2001435093042054, Bias 0.0462280788
Iteration 639: Cost 103.6253275997976, Weight 234197	1.2001430601436498, Bias 0.04625100645
Iteration 640: Cost 103.6253223410397, Weight 894518	1.2001426109871625, Bias 0.04627393387
Iteration 641: Cost 103.62531708237728, Weight 9788236	1.2001421618347432, Bias 0.0462968610
Iteration 642: Cost 103.62531182381002, Weight 09155394	1.2001417126863922, Bias 0.0463197881
Iteration 643: Cost 103.6253065653381, Weight 276616	1.2001412635421094, Bias 0.04634271491
Iteration 644: Cost 103.62530130696126, Weight 0871655	1.2001408144018948, Bias 0.0463656415
Iteration 645: Cost 103.62529604867987, Weight 9700843	1.2001403652657483, Bias 0.0463885678
Iteration 646: Cost 103.62529079049358, Weight 77643695	1.2001399161336697, Bias 0.0464114940
Iteration 647: Cost 103.62528553240267, Weight 062422	1.200139467005659, Bias 0.04643442005
Iteration 648: Cost 103.62528027440692, Weight 1595188	1.2001390178817166, Bias 0.0464573458
Iteration 649: Cost 103.62527501650652, Weight 7362856	1.2001385687618422, Bias 0.0464802713
Iteration 650: Cost 103.62526975870122, Weight 23656146	1.2001381196460357, Bias 0.0465031967
Iteration 651: Cost 103.62526450099125, Weight 603651	1.200137670534297, Bias 0.04652612186

Iteration 652: Cost 103.6252592433765, Weight 077154	1.2001372214266262, Bias 0.04654904680
Iteration 653: Cost 103.62525398585706, Weight 2786312	1.2001367723230232, Bias 0.0465719715
Iteration 654: Cost 103.62524872843284, Weight 47313115	1.2001363232234878, Bias 0.0465948960
Iteration 655: Cost 103.62524347110377, Weight 5912342	1.2001358741280204, Bias 0.0466178203
Iteration 656: Cost 103.62523821386998, Weight 6329591	1.2001354250366205, Bias 0.0466407444
Iteration 657: Cost 103.62523295673142, Weight 5983247	1.2001349759492883, Bias 0.0466636683
Iteration 658: Cost 103.62522769968808, Weight 4873497	1.2001345268660237, Bias 0.0466865920
Iteration 659: Cost 103.62522244274005, Weight 30005304	1.2001340777868268, Bias 0.0467095155
Iteration 660: Cost 103.62521718588722, Weight 03645346	1.2001336287116973, Bias 0.0467324388
Iteration 661: Cost 103.62521192912959, Weight 6965698	1.2001331796406354, Bias 0.0467553618
Iteration 662: Cost 103.62520667246721, Weight 804208	1.200132730573641, Bias 0.04677828472
Iteration 663: Cost 103.62520141590007, Weight 8802535	1.200132281510714, Bias 0.04680120737
Iteration 664: Cost 103.62519615942807, Weight 21940216	1.2001318324518546, Bias 0.0468241298
Iteration 665: Cost 103.62519090305142, Weight 5745701	1.2001313833970624, Bias 0.0468470520
Iteration 666: Cost 103.62518564676984, Weight 85354794	1.2001309343463376, Bias 0.0468699740
Iteration 667: Cost 103.62518039058352, Weight 63545	1.20013048529968, Bias 0.046892895905
Iteration 668: Cost 103.62517513449245, Weight 18300866	1.2001300362570897, Bias 0.0469158175
Iteration 669: Cost 103.62516987849659, Weight 2335291	1.2001295872185664, Bias 0.0469387389
Iteration 670: Cost 103.625164622596, Weight 79347	1.2001291381841104, Bias 0.046961660120
Iteration 671: Cost 103.62515936679057, Weight 10624424	1.2001286891537217, Bias 0.0469845811
Iteration 672: Cost 103.62515411108029, Weight 4766	1.2001282401274, Bias 0.0470075018928
Iteration 673: Cost 103.62514885546531, Weight 6746504	1.2001277911051456, Bias 0.0470304224
Iteration 674: Cost 103.62514359994542, Weight 4478463	1.200127342086958, Bias 0.04705334283
Iteration 675: Cost 103.62513834452082, Weight 938898	1.2001268930728375, Bias 0.0470762629
Iteration 676: Cost 103.62513308919137, Weight 570093	1.200126444062784, Bias 0.04709918294
Iteration 677: Cost 103.62512783395727, Weight 8991374	1.2001259950567973, Bias 0.0471221026
Iteration 678: Cost 103.62512257881816, Weight 2653011	1.2001255460548774, Bias 0.0471450222
Iteration 679: Cost 103.62511732377439, Weight 55551915	1.2001250970570245, Bias 0.0471679415
Iteration 680: Cost 103.62511206882576, Weight 76981035	1.2001246480632384, Bias 0.0471908606
Iteration 681: Cost 103.62510681397234, Weight 0819356	1.200124199073519, Bias 0.04721377959
Iteration 682: Cost 103.6251015592141, Weight 706876	1.2001237500878663, Bias 0.04723669829
Iteration 683: Cost 103.62509630455105, Weight 9573112	1.2001233011062804, Bias 0.0472596167
Iteration 684: Cost 103.62509104998318, Weight 8680832	1.2001228521287612, Bias 0.0472825350

Iteration 685: Cost 103.62508579551053, Weight 70302235	1.2001224031553086, Bias 0.0473054531
Iteration 686: Cost 103.625080541133, Weight 214755	1.2001219541859227, Bias 0.047328371046
Iteration 687: Cost 103.6250752868508, Weight 454775	1.2001215052206033, Bias 0.04735128871
Iteration 688: Cost 103.62507003266364, Weight 7530311	1.2001210562593503, Bias 0.0473742061
Iteration 689: Cost 103.62506477857173, Weight 284827	1.2001206073021637, Bias 0.0473971234
Iteration 690: Cost 103.62505952457497, Weight 408842	1.200120158349044, Bias 0.04742004047
Iteration 691: Cost 103.62505427067336, Weight 12122135	1.2001197093999902, Bias 0.0474429573
Iteration 692: Cost 103.62504901686694, Weight 258573	1.200119260455003, Bias 0.04746587394
Iteration 693: Cost 103.6250437631557, Weight 5481086	1.2001188115140822, Bias 0.04748879036
Iteration 694: Cost 103.62503850953958, Weight 8081008	1.2001183625772276, Bias 0.0475117065
Iteration 695: Cost 103.62503325601864, Weight 885746	1.2001179136444393, Bias 0.0475346225
Iteration 696: Cost 103.62502800259298, Weight 88776514	1.2001174647157173, Bias 0.0475575383
Iteration 697: Cost 103.62502274926237, Weight 8141771	1.2001170157910614, Bias 0.0475804539
Iteration 698: Cost 103.625017496027, Weight 500066	1.2001165668704716, Bias 0.047603369366
Iteration 699: Cost 103.62501224288681, Weight 402546	1.200116117953948, Bias 0.04762628454
Iteration 700: Cost 103.62500698984171, Weight 1399578	1.2001156690414905, Bias 0.0476491995
Iteration 701: Cost 103.62500173689179, Weight 6412894	1.200115220133099, Bias 0.04767211427
Iteration 702: Cost 103.62499648403696, Weight 3127869	1.2001147712287734, Bias 0.0476950288
Iteration 703: Cost 103.62499123127745, Weight 7859505	1.2001143223285138, Bias 0.0477179431
Iteration 704: Cost 103.62498597861294, Weight 1836385	1.2001138734323202, Bias 0.0477408573
Iteration 705: Cost 103.62498072604367, Weight 50586964	1.2001134245401925, Bias 0.0477637712
Iteration 706: Cost 103.62497547356944, Weight 7526628	1.2001129756521307, Bias 0.0477866849
Iteration 707: Cost 103.6249702211905, Weight 2403675	1.2001125267681347, Bias 0.04780959849
Iteration 708: Cost 103.62496496890657, Weight 0200103	1.2001120778882044, Bias 0.0478325118
Iteration 709: Cost 103.62495971671787, Weight 06022	1.20011162901234, Bias 0.047855424904
Iteration 710: Cost 103.62495446462435, Weight 9858314	1.2001111801405413, Bias 0.0478783377
Iteration 711: Cost 103.62494921262585, Weight 5571645	1.200110731272808, Bias 0.04790125048
Iteration 712: Cost 103.6249439607226, Weight 5027634	1.2001102824091407, Bias 0.04792416296
Iteration 713: Cost 103.62493870891453, Weight 36952984	1.2001098335495388, Bias 0.0479470752
Iteration 714: Cost 103.62493345720142, Weight 0134957	1.2001093846940025, Bias 0.0479699873
Iteration 715: Cost 103.62492820558356, Weight 5821927	1.2001089358425316, Bias 0.0479928991
Iteration 716: Cost 103.62492295406082, Weight 0756397	1.2001084869951264, Bias 0.0480158108
Iteration 717: Cost 103.62491770263327, Weight 49385546	1.2001080381517863, Bias 0.0480387222

Iteration 718: Cost 103.62491245130076, Weight 368588	1.200107589312512, Bias 0.04806163348
Iteration 719: Cost 103.62490720006338, Weight 0466856	1.200107140477303, Bias 0.04808454451
Iteration 720: Cost 103.6249019489212, Weight 973034	1.2001066916461591, Bias 0.04810745532
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Iteration 722: Cost 103.624891446922, Weight 712384	1.2001057939960678, Bias 0.048153276345
Iteration 723: Cost 103.62488619606523, Weight 4243469	1.2001053451771198, Bias 0.0481761865
Iteration 724: Cost 103.62488094530349, Weight 1647036	1.200104896362237, Bias 0.04819909653
Iteration 725: Cost 103.62487569463681, Weight 13351294	1.2001044475514193, Bias 0.0482220063
Iteration 726: Cost 103.62487044406527, Weight 87549346	1.2001039987446669, Bias 0.0482449158
Iteration 727: Cost 103.62486519358895, Weight 5424307	1.2001035499419797, Bias 0.0482678252
Iteration 728: Cost 103.62485994320767, Weight 1343435	1.2001031011433574, Bias 0.0482907344
Iteration 729: Cost 103.62485469292139, Weight 2506	1.2001026523488, Bias 0.0483136433651
Iteration 730: Cost 103.62484944273038, Weight 09317074	1.2001022035583078, Bias 0.0483365521
Iteration 731: Cost 103.62484419263441, Weight 46012285	1.2001017547718804, Bias 0.0483594606
Iteration 732: Cost 103.62483894263363, Weight 75212565	1.2001013059895178, Bias 0.0483823689
Iteration 733: Cost 103.62483369272786, Weight 96919795	1.2001008572112202, Bias 0.0484052770
Iteration 734: Cost 103.62482844291719, Weight 11135855	1.2001004084369875, Bias 0.0484281850
Iteration 735: Cost 103.62482319320165, Weight 1786262	1.2000999596668196, Bias 0.0484510927
Iteration 736: Cost 103.6248179435812, Weight 7101965	1.2000995109007162, Bias 0.04847400021
Iteration 737: Cost 103.6248126940558, Weight 885578	1.2000990621386776, Bias 0.04849690750
Iteration 738: Cost 103.62480744462559, Weight 93125946	1.2000986133807037, Bias 0.0485198145
Iteration 739: Cost 103.62480219529047, Weight 69914334	1.2000981646267945, Bias 0.0485427214
Iteration 740: Cost 103.62479694605037, Weight 22283	1.20009771587695, Bias 0.048565628139
Iteration 741: Cost 103.62479169690545, Weight 0105331	1.2000972671311698, Bias 0.0485885346
Iteration 742: Cost 103.6247864478555, Weight 5407646	1.2000968183894543, Bias 0.04861144085
Iteration 743: Cost 103.6247811989007, Weight 228773	1.2000963696518032, Bias 0.04863434690
Iteration 744: Cost 103.624775950041, Weight 69544	1.2000959209182167, Bias 0.048657252741
Iteration 745: Cost 103.62477070127628, Weight 7363265	1.2000954721886947, Bias 0.0486801583
Iteration 746: Cost 103.62476545260671, Weight 810123	1.200095023463237, Bias 0.04870306379
Iteration 747: Cost 103.6247602040323, Weight 510307	1.2000945747418434, Bias 0.04872596901
Iteration 748: Cost 103.6247549555529, Weight 464005	1.2000941260245144, Bias 0.04874887402
Iteration 749: Cost 103.6247497071685, Weight 671405	1.2000936773112496, Bias 0.04877177882
Iteration 750: Cost 103.62474445887935, Weight 1326944	1.200093228602049, Bias 0.04879468342

Iteration 751: Cost 103.62473921068518, Weight 0848062	1.2000927798969125, Bias 0.0488175878
Iteration 752: Cost 103.62473396258608, Weight 8817694	1.2000923311958402, Bias 0.0488404919
Iteration 753: Cost 103.62472871458203, Weight 60417805	1.2000918824988323, Bias 0.0488633959
Iteration 754: Cost 103.62472346667303, Weight 2520508	1.2000914338058881, Bias 0.0488862997
Iteration 755: Cost 103.62471821885923, Weight 254064	1.200090985117008, Bias 0.04890920328
Iteration 756: Cost 103.6247129711403, Weight 242638	1.2000905364321923, Bias 0.04893210663
Iteration 757: Cost 103.62470772351647, Weight 7486416	1.2000900877514404, Bias 0.0489550097
Iteration 758: Cost 103.6247024759878, Weight 985587	1.2000896390747524, Bias 0.04897791270
Iteration 759: Cost 103.62469722855414, Weight 3740338	1.2000891904021282, Bias 0.0490008154
Iteration 760: Cost 103.6246919812156, Weight 50859	1.200088741733568, Bias 0.049023717957
Iteration 761: Cost 103.62468673397204, Weight 70173355	1.2000882930690715, Bias 0.0490466202
Iteration 762: Cost 103.6246814868235, Weight 39957	1.200087844408639, Bias 0.049069522375
Iteration 763: Cost 103.62467623977008, Weight 73189106	1.2000873957522702, Bias 0.0490924242
Iteration 764: Cost 103.62467099281173, Weight 354384	1.200086947099965, Bias 0.04911532596
Iteration 765: Cost 103.62466574594836, Weight 4646566	1.2000864984517237, Bias 0.0491382274
Iteration 766: Cost 103.62466049918007, Weight 21956444	1.2000860498075459, Bias 0.0491611287
Iteration 767: Cost 103.62465525250687, Weight 9001806	1.2000856011674317, Bias 0.0491840297
Iteration 768: Cost 103.62465000592866, Weight 50652396	1.2000851525313811, Bias 0.0492069306
Iteration 769: Cost 103.62464475944549, Weight 386133	1.200084703899394, Bias 0.04922983130
Iteration 770: Cost 103.62463951305733, Weight 49646735	1.2000842552714703, Bias 0.0492527317
Iteration 771: Cost 103.6246342667643, Weight 801049	1.2000838066476103, Bias 0.04927563198
Iteration 772: Cost 103.62462902056627, Weight 1895448	1.2000833580278136, Bias 0.0492985320
Iteration 773: Cost 103.62462377446323, Weight 42480584	1.2000829094120804, Bias 0.0493214318
Iteration 774: Cost 103.6246185284552, Weight 859068	1.2000824608004104, Bias 0.04934433145
Iteration 775: Cost 103.62461328254226, Weight 67286636	1.2000820121928037, Bias 0.0493672308
Iteration 776: Cost 103.62460803672438, Weight 6857034	1.2000815635892603, Bias 0.0493901300
Iteration 777: Cost 103.62460279100148, Weight 44367	1.20008111498978, Bias 0.049413029062
Iteration 778: Cost 103.6245975453736, Weight 890851	1.2000806663943633, Bias 0.04943592784
Iteration 779: Cost 103.62459229984074, Weight 2796673	1.2000802178030097, Bias 0.0494588264
Iteration 780: Cost 103.62458705440292, Weight 962021	1.200079769215719, Bias 0.04948172479
Iteration 781: Cost 103.62458180906012, Weight 6387083	1.2000793206324916, Bias 0.0495046229
Iteration 782: Cost 103.6245765638124, Weight 72047	1.200078872053327, Bias 0.049527520920
Iteration 783: Cost 103.62457131865963, Weight 7017101	1.2000784234782258, Bias 0.0495504186

Iteration 784:	Cost 103.6245660736019,	Weight 222432	1.2000779749071873,	Bias 0.04957331621
Iteration 785:	Cost 103.62456082863912,	Weight 688229	1.200077526340212,	Bias 0.04959621354
Iteration 786:	Cost 103.62455558377141,	Weight 7414679	1.2000770777772993,	Bias 0.0496191106
Iteration 787:	Cost 103.62455033899874,	Weight 94019696	1.2000766292184497,	Bias 0.0496420075
Iteration 788:	Cost 103.62454509432106,	Weight 06502895	1.2000761806636628,	Bias 0.0496649043
Iteration 789:	Cost 103.62453984973835,	Weight 11598265	1.2000757321129387,	Bias 0.0496878008
Iteration 790:	Cost 103.62453460525073,	Weight 0930768	1.2000752835662774,	Bias 0.0497106971
Iteration 791:	Cost 103.62452936085802,	Weight 963302	1.200074835023679,	Bias 0.04973359319
Iteration 792:	Cost 103.62452411656032,	Weight 257616	1.200074386485143,	Bias 0.04975648908
Iteration 793:	Cost 103.62451887235773,	Weight 58138985	1.2000739379506697,	Bias 0.0497793847
Iteration 794:	Cost 103.62451362824996,	Weight 26323374	1.2000734894202592,	Bias 0.0498022802
Iteration 795:	Cost 103.62450838423723,	Weight 871312	1.2000730408939113,	Bias 0.0498251754
Iteration 796:	Cost 103.62450314031963,	Weight 40564345	1.2000725923716258,	Bias 0.0498480705
Iteration 797:	Cost 103.62449789649693,	Weight 8662468	1.2000721438534028,	Bias 0.0498709653
Iteration 798:	Cost 103.62449265276925,	Weight 2531409	1.2000716953392423,	Bias 0.0498938600
Iteration 799:	Cost 103.62448740913659,	Weight 56634446	1.2000712468291441,	Bias 0.0499167544
Iteration 800:	Cost 103.62448216559879,	Weight 8058764	1.2000707983231085,	Bias 0.0499396486
Iteration 801:	Cost 103.62447692215608,	Weight 9717554	1.2000703498211351,	Bias 0.0499625426
Iteration 802:	Cost 103.62447167880835,	Weight 0640003	1.2000699013232243,	Bias 0.0499854365
Iteration 803:	Cost 103.62446643555558,	Weight 0826298	1.2000694528293756,	Bias 0.0500083301
Iteration 804:	Cost 103.62446119239775,	Weight 02766266	1.2000690043395892,	Bias 0.0500312235
Iteration 805:	Cost 103.62445594933502,	Weight 89911776	1.2000685558538648,	Bias 0.0500541166
Iteration 806:	Cost 103.62445070636709,	Weight 6970139	1.2000681073722028,	Bias 0.0500770096
Iteration 807:	Cost 103.62444546349434,	Weight 4213698	1.2000676588946029,	Bias 0.0500999024
Iteration 808:	Cost 103.62444022071642,	Weight 0722042	1.2000672104210652,	Bias 0.0501227950
Iteration 809:	Cost 103.62443497803355,	Weight 64953596	1.2000667619515895,	Bias 0.0501456873
Iteration 810:	Cost 103.62442973544557,	Weight 1533838	1.2000663134861758,	Bias 0.0501685795
Iteration 811:	Cost 103.62442449295261,	Weight 5837666	1.2000658650248242,	Bias 0.0501914714
Iteration 812:	Cost 103.62441925055458,	Weight 940703	1.2000654165675344,	Bias 0.0502143631
Iteration 813:	Cost 103.62441400825153,	Weight 2242119	1.2000649681143065,	Bias 0.0502372547
Iteration 814:	Cost 103.62440876604346,	Weight 434312	1.2000645196651405,	Bias 0.0502601460
Iteration 815:	Cost 103.62440352393037,	Weight 57102216	1.2000640712200366,	Bias 0.0502830371
Iteration 816:	Cost 103.62439828191228,	Weight 6343611	1.2000636227789943,	Bias 0.0503059280

Iteration 817: Cost 103.62439303998906, Weight 6243476	1.2000631743420136, Bias 0.0503288187
Iteration 818: Cost 103.62438779816092, Weight 5410005	1.2000627259090948, Bias 0.0503517092
Iteration 819: Cost 103.62438255642758, Weight 38433845	1.2000622774802376, Bias 0.0503745995
Iteration 820: Cost 103.62437731478923, Weight 1543804	1.2000618290554423, Bias 0.0503974896
Iteration 821: Cost 103.62437207324594, Weight 851145	1.2000613806347085, Bias 0.0504203794
Iteration 822: Cost 103.62436683179752, Weight 4746511	1.2000609322180362, Bias 0.0504432691
Iteration 823: Cost 103.624361590444, Weight 49174	1.2000604838054256, Bias 0.050466158602
Iteration 824: Cost 103.62435634918555, Weight 5019628	1.2000600353968764, Bias 0.0504890478
Iteration 825: Cost 103.62435110802193, Weight 90580596	1.2000595869923887, Bias 0.0505119368
Iteration 826: Cost 103.62434586695335, Weight 2364657	1.2000591385919623, Bias 0.0505348257
Iteration 827: Cost 103.62434062597964, Weight 49396085	1.2000586901955976, Bias 0.0505577143
Iteration 828: Cost 103.62433538510092, Weight 6783101	1.2000582418032941, Bias 0.0505806027
Iteration 829: Cost 103.62433014431709, Weight 8953225	1.200057793415052, Bias 0.05060349097
Iteration 830: Cost 103.62432490362826, Weight 8276461	1.2000573450308711, Bias 0.0506263789
Iteration 831: Cost 103.62431966303431, Weight 79267045	1.2000568966507514, Bias 0.0506492667
Iteration 832: Cost 103.62431442253519, Weight 684624	1.2000564482746932, Bias 0.0506721543
Iteration 833: Cost 103.62430918213116, Weight 035256	1.200055999902696, Bias 0.05069504175
Iteration 834: Cost 103.62430394182208, Weight 9394	1.20005555153476, Bias 0.050717928924
Iteration 835: Cost 103.62429870160778, Weight 2224796	1.200055103170885, Bias 0.05074081589
Iteration 836: Cost 103.62429346148855, Weight 221063	1.200054654811071, Bias 0.05076370265
Iteration 837: Cost 103.62428822146416, Weight 0489877	1.2000542064553184, Bias 0.0507865892
Iteration 838: Cost 103.62428298153483, Weight 5029111	1.2000537581036264, Bias 0.0508094755
Iteration 839: Cost 103.62427774170027, Weight 8838952	1.2000533097559956, Bias 0.0508323616
Iteration 840: Cost 103.62427250196066, Weight 1919587	1.2000528614124255, Bias 0.0508552476
Iteration 841: Cost 103.62426726231601, Weight 42712045	1.2000524130729164, Bias 0.0508781333
Iteration 842: Cost 103.62426202276615, Weight 58939925	1.2000519647374683, Bias 0.0509010188
Iteration 843: Cost 103.62425678331138, Weight 788138	1.200051516406081, Bias 0.05092390416
Iteration 844: Cost 103.62425154395146, Weight 69538294	1.2000510680787544, Bias 0.0509467892
Iteration 845: Cost 103.62424630468638, Weight 63912536	1.2000506197554885, Bias 0.0509696741
Iteration 846: Cost 103.62424106551632, Weight 5100599	1.2000501714362835, Bias 0.0509925588
Iteration 847: Cost 103.6242358264411, Weight 82053	1.200049723121139, Bias 0.051015443330
Iteration 848: Cost 103.62423058746083, Weight 335804	1.200049274810055, Bias 0.05103832760
Iteration 849: Cost 103.6242253485754, Weight 862039	1.2000488265030318, Bias 0.05106121166

Iteration 850: Cost 103.62422010978491, Weight 660947	1.200048378200069, Bias 0.05108409552
Iteration 851: Cost 103.62421487108921, Weight 7732714	1.2000479299011668, Bias 0.0511069791
Iteration 852: Cost 103.62420963248863, Weight 2077529	1.2000474816063251, Bias 0.0511298626
Iteration 853: Cost 103.62420439398282, Weight 695579	1.200047033315544, Bias 0.05115274585
Iteration 854: Cost 103.62419915557192, Weight 5870524	1.200046585028823, Bias 0.05117562888
Iteration 855: Cost 103.62419391725584, Weight 0752136	1.2000461367461626, Bias 0.0511985117
Iteration 856: Cost 103.6241886790348, Weight 191019	1.2000456884675625, Bias 0.05122139432
Iteration 857: Cost 103.6241834409086, Weight 9038876	1.2000452401930226, Bias 0.05124427672
Iteration 858: Cost 103.62417820287716, Weight 8909304	1.200044791922543, Bias 0.05126715892
Iteration 859: Cost 103.62417296494073, Weight 21523346	1.2000443436561237, Bias 0.0512900409
Iteration 860: Cost 103.62416772709923, Weight 0688288	1.2000438953937644, Bias 0.0513129227
Iteration 861: Cost 103.62416248935253, Weight 8498979	1.2000434471354655, Bias 0.0513358042
Iteration 862: Cost 103.62415725170072, Weight 5584594	1.2000429988812267, Bias 0.0513586856
Iteration 863: Cost 103.6241520141437, Weight 45322	1.200042550631048, Bias 0.051381566819
Iteration 864: Cost 103.6241467766817, Weight 813496	1.200042102384929, Bias 0.051404447775
Iteration 865: Cost 103.62414153931454, Weight 2492866	1.2000416541428702, Bias 0.0514273285
Iteration 866: Cost 103.62413630204222, Weight 66800576	1.2000412059048715, Bias 0.0514502090
Iteration 867: Cost 103.62413106486484, Weight 0143113	1.2000407576709327, Bias 0.0514730894
Iteration 868: Cost 103.6241258277823, Weight 88222	1.2000403094410537, Bias 0.05149596952
Iteration 869: Cost 103.62412059079458, Weight 4897565	1.2000398612152345, Bias 0.0515188494
Iteration 870: Cost 103.62411535390183, Weight 6189336	1.2000394129934753, Bias 0.0515417291
Iteration 871: Cost 103.6241101171039, Weight 757722	1.2000389647757759, Bias 0.05156460866
Iteration 872: Cost 103.6241048804008, Weight 60291	1.2000385165621361, Bias 0.05158748796
Iteration 873: Cost 103.62409964379259, Weight 7250875	1.200038068352556, Bias 0.05161036705
Iteration 874: Cost 103.62409440727922, Weight 41244424	1.2000376201470357, Bias 0.0516332459
Iteration 875: Cost 103.62408917086077, Weight 801162	1.200037171945575, Bias 0.05165612461
Iteration 876: Cost 103.62408393453705, Weight 755435	1.200036723748174, Bias 0.05167900308
Iteration 877: Cost 103.6240786983083, Weight 9874475	1.2000362755548324, Bias 0.05170188134
Iteration 878: Cost 103.62407346217441, Weight 0497388	1.2000358273655503, Bias 0.0517247594
Iteration 879: Cost 103.62406822613534, Weight 5285445	1.2000353791803278, Bias 0.0517476372
Iteration 880: Cost 103.62406299019108, Weight 93518055	1.2000349309991647, Bias 0.0517705148
Iteration 881: Cost 103.62405775434172, Weight 6966566	1.200034482822061, Bias 0.05179339232
Iteration 882: Cost 103.62405251858718, Weight 5320187	1.2000340346490168, Bias 0.0518162695

Iteration 883:	Cost 103.62404728292744,	Weight 7222584	1.2000335864800318,	Bias 0.0518391465
Iteration 884:	Cost 103.62404204736265,	Weight 8404035	1.2000331383151062,	Bias 0.0518620233
Iteration 885:	Cost 103.62403681189265,	Weight 8864728	1.2000326901542397,	Bias 0.0518848999
Iteration 886:	Cost 103.6240315765175,	Weight 604851	1.2000322419974325,	Bias 0.05190777638
Iteration 887:	Cost 103.62402634123723,	Weight 7624591	1.2000317938446847,	Bias 0.0519306525
Iteration 888:	Cost 103.62402110605174,	Weight 924136	1.200031345695996,	Bias 0.05195352855
Iteration 889:	Cost 103.62401587096106,	Weight 3503674	1.2000308975513663,	Bias 0.0519764043
Iteration 890:	Cost 103.62401063596526,	Weight 0363392	1.2000304494107958,	Bias 0.0519992799
Iteration 891:	Cost 103.62400540106434,	Weight 6503478	1.2000300012742842,	Bias 0.0520221552
Iteration 892:	Cost 103.62400016625813,	Weight 19241196	1.2000295531418317,	Bias 0.0520450304
Iteration 893:	Cost 103.6239949315468,	Weight 6255045	1.2000291050134382,	Bias 0.05206790536
Iteration 894:	Cost 103.62398969693032,	Weight 060782	1.2000286568891037,	Bias 0.0520907801
Iteration 895:	Cost 103.62398446240866,	Weight 3871254	1.2000282087688279,	Bias 0.0521136546
Iteration 896:	Cost 103.6239792279818,	Weight 15994	1.200027760652611,	Bias 0.052136528964
Iteration 897:	Cost 103.62397399364973,	Weight 82422284	1.2000273125404533,	Bias 0.0521594030
Iteration 898:	Cost 103.62396875941259,	Weight 350145	1.200026864432354,	Bias 0.05218227699
Iteration 899:	Cost 103.62396352527023,	Weight 97399304	1.2000264163283134,	Bias 0.0522051506
Iteration 900:	Cost 103.62395829122266,	Weight 9411773	1.2000259682283319,	Bias 0.0522280241
Iteration 901:	Cost 103.62395305726989,	Weight 836586	1.2000255201324088,	Bias 0.0522508974
Iteration 902:	Cost 103.62394782341195,	Weight 6602379	1.2000250720405443,	Bias 0.0522737705
Iteration 903:	Cost 103.62394258964875,	Weight 4121518	1.2000246239527386,	Bias 0.0522966434
Iteration 904:	Cost 103.62393735598047,	Weight 09234646	1.2000241758689913,	Bias 0.0523195161
Iteration 905:	Cost 103.62393212240704,	Weight 7008406	1.2000237277893027,	Bias 0.0523423885
Iteration 906:	Cost 103.62392688892825,	Weight 237653	1.2000232797136725,	Bias 0.0523652608
Iteration 907:	Cost 103.6239216555444,	Weight 0280255	1.2000228316421009,	Bias 0.05238813287
Iteration 908:	Cost 103.62391642225529,	Weight 0963078	1.2000223835745876,	Bias 0.0524110047
Iteration 909:	Cost 103.62391118906098,	Weight 4181877	1.2000219355111328,	Bias 0.0524338763
Iteration 910:	Cost 103.62390595596145,	Weight 6684609	1.2000214874517363,	Bias 0.0524567477
Iteration 911:	Cost 103.62390072295673,	Weight 8471462	1.2000210393963981,	Bias 0.0524796189
Iteration 912:	Cost 103.62389549004692,	Weight 5426234	1.200020591345118,	Bias 0.05250248999
Iteration 913:	Cost 103.62389025723175,	Weight 9898281	1.2000201432978963,	Bias 0.0525253607
Iteration 914:	Cost 103.62388502451145,	Weight 9538623	1.2000196952547328,	Bias 0.0525482313
Iteration 915:	Cost 103.62387979188593,	Weight 8463836	1.2000192472156275,	Bias 0.0525711017

Iteration 916: Cost 103.62387455935522, Weight 6674109	1.2000187991805802, Bias 0.0525939719
Iteration 917: Cost 103.62386932691923, Weight 169629	1.200018351149591, Bias 0.05261684194
Iteration 918: Cost 103.62386409457805, Weight 0950583	1.2000179031226599, Bias 0.0526397117
Iteration 919: Cost 103.6238588623317, Weight 171586	1.200017455099787, Bias 0.052662581270
Iteration 920: Cost 103.62385363018004, Weight 23695444	1.2000170070809721, Bias 0.0526854506
Iteration 921: Cost 103.6238483981233, Weight 007927	1.2000165590662148, Bias 0.05270831977
Iteration 922: Cost 103.62384316616124, Weight 09324944	1.2000161110555156, Bias 0.0527311887
Iteration 923: Cost 103.62383793429396, Weight 4143435	1.2000156630488743, Bias 0.0527540574
Iteration 924: Cost 103.6238327025215, Weight 640935	1.2000152150462908, Bias 0.05277692596
Iteration 925: Cost 103.62382747084374, Weight 84251834	1.2000147670477652, Bias 0.0527997942
Iteration 926: Cost 103.62382223926075, Weight 9496367	1.2000143190532973, Bias 0.0528226623
Iteration 927: Cost 103.62381700777266, Weight 9854674	1.2000138710628871, Bias 0.0528455302
Iteration 928: Cost 103.62381177637923, Weight 9500291	1.2000134230765347, Bias 0.0528683979
Iteration 929: Cost 103.62380654508063, Weight 84334066	1.2000129750942399, Bias 0.0528912654
Iteration 930: Cost 103.6238013138767, Weight 6542075	1.2000125271160027, Bias 0.05291413276
Iteration 931: Cost 103.62379608276768, Weight 162882	1.200012079141823, Bias 0.05293699984
Iteration 932: Cost 103.62379085175327, Weight 09596175	1.2000116311717008, Bias 0.0529598667
Iteration 933: Cost 103.62378562083364, Weight 7044601	1.2000111832056362, Bias 0.0529827333
Iteration 934: Cost 103.62378039000879, Weight 2418022	1.2000107352436291, Bias 0.0530055998
Iteration 935: Cost 103.62377515927871, Weight 7080066	1.2000102872856795, Bias 0.0530284660
Iteration 936: Cost 103.62376992864341, Weight 030921	1.200009839331787, Bias 0.05305133211
Iteration 937: Cost 103.62376469810289, Weight 2707756	1.200009391381952, Bias 0.05307419794
Iteration 938: Cost 103.6237594676571, Weight 799816	1.2000089434361745, Bias 0.05309706356
Iteration 939: Cost 103.623754237306, Weight 8231	1.200008495494454, Bias 0.0531199289861
Iteration 940: Cost 103.62374900704967, Weight 9726208	1.2000080475567911, Bias 0.0531427941
Iteration 941: Cost 103.62374377688805, Weight 0123934	1.2000075996231854, Bias 0.0531656592
Iteration 942: Cost 103.62373854682129, Weight 98115966	1.2000071516936366, Bias 0.0531885239
Iteration 943: Cost 103.62373331684915, Weight 789384	1.200006703768145, Bias 0.05321138858
Iteration 944: Cost 103.62372808697182, Weight 7057484	1.2000062558467106, Bias 0.0532342529
Iteration 945: Cost 103.62372285718921, Weight 4616083	1.2000058079293332, Bias 0.0532571171
Iteration 946: Cost 103.62371762750135, Weight 146537	1.2000053600160128, Bias 0.0532799811
Iteration 947: Cost 103.6237123979082, Weight 6055314	1.2000049121067493, Bias 0.05330284487
Iteration 948: Cost 103.62370716840978, Weight 3036755	1.2000044642015428, Bias 0.0533257084

Iteration 949:	Cost 103.62370193900618,	Weight 7759229	1.2000040163003936,	Bias 0.0533485717
Iteration 950:	Cost 103.62369670969726,	Weight 1773139	1.2000035684033008,	Bias 0.0533714349
Iteration 951:	Cost 103.62369148048306,	Weight 0786754	1.200003120510265,	Bias 0.05339429785
Iteration 952:	Cost 103.62368625136352,	Weight 676024	1.200002672621286,	Bias 0.05341716057
Iteration 953:	Cost 103.6236810223388,	Weight 65373	1.200002224736364,	Bias 0.053440023095
Iteration 954:	Cost 103.62367579340881,	Weight 07469095	1.2000017768554985,	Bias 0.0534628854
Iteration 955:	Cost 103.62367056457347,	Weight 12208213	1.2000013289786897,	Bias 0.0534857475
Iteration 956:	Cost 103.62366533583284,	Weight 0987296	1.2000008811059375,	Bias 0.0535086094
Iteration 957:	Cost 103.62366010718702,	Weight 046522	1.200000433237242,	Bias 0.05353147110
Iteration 958:	Cost 103.62365487863588,	Weight 398685	1.199999985372603,	Bias 0.05355433258
Iteration 959:	Cost 103.62364965017946,	Weight 043974	1.199999537512021,	Bias 0.05357719386
Iteration 960:	Cost 103.62364442181762,	Weight 9825766	1.199999089655495,	Bias 0.05360005492
Iteration 961:	Cost 103.6236391935507,	Weight 214679	1.1999986418030257,	Bias 0.05362291579
Iteration 962:	Cost 103.6236339653784,	Weight 4047	1.199998193954613,	Bias 0.053645776447
Iteration 963:	Cost 103.62362873730078,	Weight 9560137	1.1999977461102562,	Bias 0.0536686368
Iteration 964:	Cost 103.6236235093179,	Weight 738674	1.199997298269956,	Bias 0.053691497136
Iteration 965:	Cost 103.62361828142973,	Weight 7081848	1.1999968504337124,	Bias 0.0537143571
Iteration 966:	Cost 103.6236130536362,	Weight 7842674	1.1999964026015248,	Bias 0.05373721699
Iteration 967:	Cost 103.62360782593741,	Weight 17813124	1.1999959547733936,	Bias 0.0537600766
Iteration 968:	Cost 103.62360259833342,	Weight 3073171	1.1999955069493184,	Bias 0.0537829360
Iteration 969:	Cost 103.62359737082397,	Weight 3660031	1.1999950591292996,	Bias 0.0538057952
Iteration 970:	Cost 103.62359214340933,	Weight 354208	1.1999946113133368,	Bias 0.0538286542
Iteration 971:	Cost 103.62358691608932,	Weight 2719504	1.1999941635014304,	Bias 0.0538515130
Iteration 972:	Cost 103.62358168886408,	Weight 11924925	1.1999937156935798,	Bias 0.0538743716
Iteration 973:	Cost 103.62357646173348,	Weight 8961232	1.1999932678897853,	Bias 0.0538972299
Iteration 974:	Cost 103.62357123469751,	Weight 02591	1.199992820090047,	Bias 0.05392008816
Iteration 975:	Cost 103.62356600775624,	Weight 23867144	1.1999923722943644,	Bias 0.0539429461
Iteration 976:	Cost 103.62356078090977,	Weight 80438326	1.1999919245027377,	Bias 0.0539658038
Iteration 977:	Cost 103.62355555415792,	Weight 9974515	1.199991476715167,	Bias 0.05398866142
Iteration 978:	Cost 103.62355032750062,	Weight 724776	1.1999910289316522,	Bias 0.0540115187
Iteration 979:	Cost 103.62354510093823,	Weight 0794944	1.1999905811521931,	Bias 0.0540343759
Iteration 980:	Cost 103.62353987447045,	Weight 391925	1.19999013337679,	Bias 0.054057232836
Iteration 981:	Cost 103.62353464809726,	Weight 5780692	1.1999896856054424,	Bias 0.0540800895

Iteration 982: Cost 103.6235294218188, Weight 2196303	1.1999892378381507, Bias 0.05410294607
Iteration 983: Cost 103.62352419563504, Weight 7956195	1.1999887900749144, Bias 0.0541258023
Iteration 984: Cost 103.62351896954587, Weight 9905735	1.199988342315734, Bias 0.05414865847
Iteration 985: Cost 103.62351374355143, Weight 3229535	1.199987894560609, Bias 0.05417151437
Iteration 986: Cost 103.62350851765169, Weight 5953522	1.1999874468095397, Bias 0.0541943700
Iteration 987: Cost 103.62350329184662, Weight 3882467	1.1999869990625258, Bias 0.0542172255
Iteration 988: Cost 103.62349806613608, Weight 1109977	1.1999865513195676, Bias 0.0542400808
Iteration 989: Cost 103.6234928405204, Weight 636237	1.1999861035806647, Bias 0.05426293587
Iteration 990: Cost 103.62348761499923, Weight 461436	1.199985655845817, Bias 0.05428579073
Iteration 991: Cost 103.62348238957276, Weight 5857626	1.199985208115025, Bias 0.05430864538
Iteration 992: Cost 103.62347716424095, Weight 3009403	1.1999847603882883, Bias 0.0543314998
Iteration 993: Cost 103.62347193900388, Weight 6732544	1.1999843126656067, Bias 0.0543543540
Iteration 994: Cost 103.6234667138613, Weight 755374	1.1999838649469805, Bias 0.05437720809
Iteration 995: Cost 103.6234614888135, Weight 0780805	1.1999834172324095, Bias 0.05440006192
Iteration 996: Cost 103.62345626386033, Weight 3700851	1.1999829695218938, Bias 0.0544229155
Iteration 997: Cost 103.6234510390018, Weight 623873	1.1999825218154332, Bias 0.05444576894
Iteration 998: Cost 103.6234458142379, Weight 847334	1.1999820741130276, Bias 0.05446862214
Iteration 999: Cost 103.62344058956867, Weight 4371421	1.1999816264146772, Bias 0.0544914751
Iteration 1000: Cost 103.62343536499415, Weight 93196322	1.1999811787203818, Bias 0.054514327
Iteration 1001: Cost 103.62343014051416, Weight 51322225	1.1999807310301414, Bias 0.054537180
Iteration 1002: Cost 103.62342491612884, Weight 87493164	1.199980283343956, Bias 0.0545600328
Iteration 1003: Cost 103.62341969183814, Weight 05477784	1.1999798356618254, Bias 0.054582885
Iteration 1004: Cost 103.6234144676421, Weight 078155	1.19997938798375, Bias 0.054605737015
Iteration 1005: Cost 103.62340924354075, Weight 768395984	1.1999789403097292, Bias 0.054628588
Iteration 1006: Cost 103.62340401953395, Weight 3147332	1.1999784926397634, Bias 0.054651440
Iteration 1007: Cost 103.62339879562187, Weight 654091677	1.1999780449738522, Bias 0.054674291
Iteration 1008: Cost 103.62339357180434, Weight 86473286	1.199977597311996, Bias 0.0546971427
Iteration 1009: Cost 103.6233883480815, Weight 1187991	1.1999771496541942, Bias 0.0547199937
Iteration 1010: Cost 103.62338312445328, Weight 43031342	1.1999767020004473, Bias 0.054742844
Iteration 1011: Cost 103.62337790091968, Weight 41775696	1.199976254350755, Bias 0.0547656949
Iteration 1012: Cost 103.62337267748069, Weight 246268604	1.1999758067051172, Bias 0.054788545
Iteration 1013: Cost 103.62336745413626, Weight 4379402	1.199975359063534, Bias 0.0548113953
Iteration 1014: Cost 103.6233622308865, Weight 34353825	1.1999749114260054, Bias 0.0548342452

Iteration 1015:	Cost 103.62335700773149, Weight 917949885	1.1999744637925314, Bias 0.054857094
Iteration 1016:	Cost 103.62335178467089, Weight 39458408	1.1999740161631116, Bias 0.054879944
Iteration 1017:	Cost 103.62334656170498, Weight 664258286	1.1999735685377464, Bias 0.054902793
Iteration 1018:	Cost 103.62334133883374, Weight 72697437	1.1999731209164355, Bias 0.054925642
Iteration 1019:	Cost 103.62333611605709, Weight 58273422	1.1999726732991791, Bias 0.054948491
Iteration 1020:	Cost 103.62333089337504, Weight 23153969	1.1999722256859768, Bias 0.054971340
Iteration 1021:	Cost 103.62332567078761, Weight 673392674	1.1999717780768289, Bias 0.054994188
Iteration 1022:	Cost 103.62332044829478, Weight 90829504	1.1999713304717352, Bias 0.055017036
Iteration 1023:	Cost 103.62331522589648, Weight 93624866	1.1999708828706956, Bias 0.055039884
Iteration 1024:	Cost 103.62331000359285, Weight 75725541	1.1999704352737104, Bias 0.055062732
Iteration 1025:	Cost 103.62330478138384, Weight 37131716	1.1999699876807792, Bias 0.055085580
Iteration 1026:	Cost 103.62329955926938, Weight 77843579	1.1999695400919022, Bias 0.055108427
Iteration 1027:	Cost 103.6232943372496, Weight 861318	1.199969092507079, Bias 0.05513127497
Iteration 1028:	Cost 103.62328911532435, Weight 185119	1.19996864492631, Bias 0.05515412197
Iteration 1029:	Cost 103.62328389349373, Weight 7581517	1.1999681973495948, Bias 0.055176968
Iteration 1030:	Cost 103.62327867175765, Weight 33751659	1.1999677497769337, Bias 0.055199815
Iteration 1031:	Cost 103.62327345011624, Weight 70994773	1.1999673022083264, Bias 0.055222661
Iteration 1032:	Cost 103.62326822856936, Weight 75447	1.199966854643773, Bias 0.0552455078
Iteration 1033:	Cost 103.62326300711706, Weight 834016265	1.1999664070832736, Bias 0.055268353
Iteration 1034:	Cost 103.62325778575945, Weight 85657404	1.199965959526828, Bias 0.0552911995
Iteration 1035:	Cost 103.62325256449628, Weight 3037229	1.199965511974436, Bias 0.0553140451
Iteration 1036:	Cost 103.62324734332779, Weight 4681628	1.1999650644260977, Bias 0.055336890
Iteration 1037:	Cost 103.62324212225386, Weight 599030804	1.1999646168818132, Bias 0.055359735
Iteration 1038:	Cost 103.62323690127448, Weight 52297818	1.1999641693415823, Bias 0.055382580
Iteration 1039:	Cost 103.62323168038967, Weight 2400068	1.1999637218054051, Bias 0.055405425
Iteration 1040:	Cost 103.62322645959954, Weight 75011854	1.1999632742732813, Bias 0.055428269
Iteration 1041:	Cost 103.62322123890391, Weight 5331527	1.199962826745211, Bias 0.0554511140
Iteration 1042:	Cost 103.62321601830286, Weight 14959887	1.1999623792211942, Bias 0.055473958
Iteration 1043:	Cost 103.62321079779636, Weight 3897121	1.199961931701231, Bias 0.0554968020
Iteration 1044:	Cost 103.6232055773844, Weight 2143417	1.1999614841853212, Bias 0.0555196457
Iteration 1045:	Cost 103.62320035706709, Weight 9698962	1.199961036673465, Bias 0.0555424891
Iteration 1046:	Cost 103.62319513684432, Weight 6563943	1.199960589165662, Bias 0.0555653324
Iteration 1047:	Cost 103.62318991671603, Weight 52738548	1.1999601416619123, Bias 0.055588175

Iteration 1048: Cost 103.62318469668239, Weight 82229635	1.199959694162216, Bias 0.0556110183
Iteration 1049: Cost 103.62317947674333, Weight 03017378	1.1999592466665727, Bias 0.055633861
Iteration 1050: Cost 103.6231742568988, Weight 7121978	1.1999587991749827, Bias 0.0556567034
Iteration 1051: Cost 103.62316903714878, Weight 0536952	1.199958351687446, Bias 0.0556795457
Iteration 1052: Cost 103.62316381749342, Weight 3262486	1.199957904203962, Bias 0.0557023877
Iteration 1053: Cost 103.62315859793253, Weight 55298769	1.1999574567245315, Bias 0.055725229
Iteration 1054: Cost 103.62315337846621, Weight 6645988	1.199957009249154, Bias 0.0557480711
Iteration 1055: Cost 103.62314815909448, Weight 573043285	1.1999565617778294, Bias 0.055770912
Iteration 1056: Cost 103.62314293981723, Weight 72739804	1.199956114310558, Bias 0.0557937537
Iteration 1057: Cost 103.62313772063462, Weight 7655513	1.1999556668473395, Bias 0.055816594
Iteration 1058: Cost 103.62313250154642, Weight 551479646	1.1999552193881737, Bias 0.055839435
Iteration 1059: Cost 103.62312728255284, Weight 3052672	1.199954771933061, Bias 0.0558622761
Iteration 1060: Cost 103.62312206365378, Weight 02694385	1.199954324482001, Bias 0.0558851165
Iteration 1061: Cost 103.62311684484935, Weight 67984524	1.199953877034994, Bias 0.0559079566
Iteration 1062: Cost 103.62311162613932, Weight 626399014	1.1999534295920398, Bias 0.055930796
Iteration 1063: Cost 103.62310640752393, Weight 7793972	1.199952982153138, Bias 0.0559536363
Iteration 1064: Cost 103.62310118900301, Weight 2260852	1.199952534718289, Bias 0.0559764759
Iteration 1065: Cost 103.62309597057674, Weight 60407294	1.199952087287493, Bias 0.0559993152
Iteration 1066: Cost 103.6230907522449, Weight 91337904	1.1999516398607493, Bias 0.0560221543
Iteration 1067: Cost 103.62308553400766, Weight 315402226	1.1999511924380581, Bias 0.056044993
Iteration 1068: Cost 103.6230803158648, Weight 3260214	1.1999507450194198, Bias 0.0560678320
Iteration 1069: Cost 103.62307509781661, Weight 542939515	1.1999502976048337, Bias 0.056090670
Iteration 1070: Cost 103.62306987986294, Weight 84641623	1.1999498501943002, Bias 0.056113508
Iteration 1071: Cost 103.6230646620037, Weight 303415	1.199949402787819, Bias 0.05613634694
Iteration 1072: Cost 103.62305944423902, Weight 83279515	1.1999489553853904, Bias 0.056159184
Iteration 1073: Cost 103.62305422656887, Weight 1570112	1.199948507987014, Bias 0.0561820225
Iteration 1074: Cost 103.62304900899322, Weight 99175391	1.1999480605926902, Bias 0.056204859
Iteration 1075: Cost 103.62304379151212, Weight 26095541	1.1999476132024185, Bias 0.056227697
Iteration 1076: Cost 103.62303857412553, Weight 2330748	1.199947165816199, Bias 0.0562505343
Iteration 1077: Cost 103.6230333568335, Weight 7881201	1.1999467184340318, Bias 0.0562733711
Iteration 1078: Cost 103.62302813963589, Weight 827470864	1.1999462710559168, Bias 0.056296207
Iteration 1079: Cost 103.62302292253281, Weight 26928591	1.1999458236818539, Bias 0.056319044
Iteration 1080: Cost 103.62301770552429, Weight 04259034	1.199945376311843, Bias 0.0563418805

Iteration 1081: Cost 103.62301248861029, Weight 5323921	1.1999449289458843, Bias 0.056364716
Iteration 1082: Cost 103.62300727179067, Weight 35368698	1.19994444815839777, Bias 0.056387552
Iteration 1083: Cost 103.62300205506565, Weight 6814556	1.199944034226123, Bias 0.0564103879
Iteration 1084: Cost 103.62299683843506, Weight 375769705	1.1999435868723203, Bias 0.056433223
Iteration 1085: Cost 103.62299162189908, Weight 57656129	1.1999431395225695, Bias 0.056456058
Iteration 1086: Cost 103.62298640545743, Weight 57052218	1.1999426921768706, Bias 0.056478893
Iteration 1087: Cost 103.62298118911045, Weight 35765426	1.1999422448352235, Bias 0.056501728
Iteration 1088: Cost 103.62297597285792, Weight 9379594	1.1999417974976283, Bias 0.056524562
Iteration 1089: Cost 103.62297075669984, Weight 31143947	1.1999413501640848, Bias 0.056547397
Iteration 1090: Cost 103.62296554063619, Weight 78096346	1.199940902834593, Bias 0.0565702314
Iteration 1091: Cost 103.6229603246671, Weight 7931904	1.199940455509153, Bias 0.05659306543
Iteration 1092: Cost 103.62295510879255, Weight 19094801	1.1999400081877647, Bias 0.056615899
Iteration 1093: Cost 103.62294989301247, Weight 3714655	1.199939560870428, Bias 0.0566387327
Iteration 1094: Cost 103.6229446773268, Weight 6529384	1.199939113557143, Bias 0.05666156607
Iteration 1095: Cost 103.62293946173568, Weight 20909839	1.1999386662479092, Bias 0.056684399
Iteration 1096: Cost 103.62293424623908, Weight 3485544	1.199938218942727, Bias 0.0567072321
Iteration 1097: Cost 103.62292903083681, Weight 853802414	1.1999377716415964, Bias 0.056730064
Iteration 1098: Cost 103.62292381552922, Weight 36594118	1.1999373243445173, Bias 0.056752897
Iteration 1099: Cost 103.6229186003159, Weight 712736	1.1999368770514895, Bias 0.0567757296
Iteration 1100: Cost 103.62291338519714, Weight 76980157	1.1999364297625132, Bias 0.056798561
Iteration 1101: Cost 103.62290817017279, Weight 66152695	1.1999359824775881, Bias 0.056821393
Iteration 1102: Cost 103.62290295524298, Weight 346451616	1.1999355351967145, Bias 0.056844225
Iteration 1103: Cost 103.62289774040765, Weight 2457743	1.199935087919892, Bias 0.0568670568
Iteration 1104: Cost 103.6228925256668, Weight 9590628	1.1999346406471207, Bias 0.0568898880
Iteration 1105: Cost 103.62288731102042, Weight 16044004	1.1999341933784007, Bias 0.056912719
Iteration 1106: Cost 103.62288209646839, Weight 01818057	1.1999337461137318, Bias 0.056935550
Iteration 1107: Cost 103.62287688201096, Weight 669129755	1.1999332988531142, Bias 0.056958380
Iteration 1108: Cost 103.62287166764787, Weight 11328946	1.1999328515965475, Bias 0.056981211
Iteration 1109: Cost 103.62286645337933, Weight 350661554	1.1999324043440318, Bias 0.057004041
Iteration 1110: Cost 103.62286123920526, Weight 8124792	1.199931957095567, Bias 0.0570268713
Iteration 1111: Cost 103.62285602512551, Weight 20505043	1.1999315098511534, Bias 0.057049701
Iteration 1112: Cost 103.6228508111403, Weight 22070956	1.1999310626107906, Bias 0.0570725308
Iteration 1113: Cost 103.62284559724952, Weight 23231137	1.1999306153744789, Bias 0.057095360

Iteration 1114:	Cost 103.62284038345328, Weight 43577354	1.1999301681422179, Bias 0.057118189
Iteration 1115:	Cost 103.6228351697514, Weight 3245935	1.1999297209140076, Bias 0.0571410184
Iteration 1116:	Cost 103.62282995614396, Weight 22237066	1.1999292736898484, Bias 0.057163847
Iteration 1117:	Cost 103.622824742631, Weight 550935	1.1999288264697399, Bias 0.05718667580
Iteration 1118:	Cost 103.62281952921245, Weight 818773	1.199928379253682, Bias 0.0572095041
Iteration 1119:	Cost 103.62281431588838, Weight 351476366	1.1999279320416747, Bias 0.057232332
Iteration 1120:	Cost 103.62280910265878, Weight 1430843	1.199927484833718, Bias 0.0572551603
Iteration 1121:	Cost 103.6228038895236, Weight 70375374	1.1999270376298121, Bias 0.0572779880
Iteration 1122:	Cost 103.62279867648283, Weight 619679056	1.1999265904299565, Bias 0.057300815
Iteration 1123:	Cost 103.62279346353645, Weight 96222135	1.1999261432341517, Bias 0.057323642
Iteration 1124:	Cost 103.62278825068447, Weight 098004136	1.1999256960423974, Bias 0.057346470
Iteration 1125:	Cost 103.62278303792704, Weight 02702928	1.1999252488546934, Bias 0.057369297
Iteration 1126:	Cost 103.62277782526392, Weight 929866	1.19992480167104, Bias 0.05739212374
Iteration 1127:	Cost 103.62277261269541, Weight 26481415	1.1999243544914369, Bias 0.057414950
Iteration 1128:	Cost 103.62276740022115, Weight 7357762	1.199923907315884, Bias 0.0574377765
Iteration 1129:	Cost 103.62276218784132, Weight 67559094	1.1999234601443816, Bias 0.057460602
Iteration 1130:	Cost 103.62275697555606, Weight 570855984	1.1999230129769294, Bias 0.057483428
Iteration 1131:	Cost 103.62275176336516, Weight 259374626	1.1999225658135273, Bias 0.057506254
Iteration 1132:	Cost 103.62274655126863, Weight 741148736	1.1999221186541755, Bias 0.057529079
Iteration 1133:	Cost 103.62274133926647, Weight 016180196	1.1999216714988739, Bias 0.057551905
Iteration 1134:	Cost 103.62273612735882, Weight 08447087	1.1999212243476223, Bias 0.057574730
Iteration 1135:	Cost 103.62273091554555, Weight 4602264	1.199920777200421, Bias 0.0575975549
Iteration 1136:	Cost 103.62272570382677, Weight 60083736	1.1999203300572696, Bias 0.057620379
Iteration 1137:	Cost 103.62272049220225, Weight 048916916	1.1999198829181683, Bias 0.057643204
Iteration 1138:	Cost 103.62271528067222, Weight 290263176	1.1999194357831169, Bias 0.057666028
Iteration 1139:	Cost 103.62271006923659, Weight 32487801	1.1999189886521155, Bias 0.057688852
Iteration 1140:	Cost 103.62270485789534, Weight 527633	1.199918541525164, Bias 0.0577116761
Iteration 1141:	Cost 103.6226996466486, Weight 7392091	1.1999180944022623, Bias 0.0577344997
Iteration 1142:	Cost 103.62269443549613, Weight 188352715	1.1999176472834105, Bias 0.057757323
Iteration 1143:	Cost 103.62268922443816, Weight 39606059	1.1999172001686085, Bias 0.057780146
Iteration 1144:	Cost 103.6226840134745, Weight 97046405	1.1999167530578563, Bias 0.0578029693
Iteration 1145:	Cost 103.6226788026053, Weight 91312037	1.1999163059511537, Bias 0.0578257921
Iteration 1146:	Cost 103.62267359183042, Weight 77885935	1.1999158588485008, Bias 0.057848614

Iteration 114:	Cost 103.62266838114999, Weight 159690224	1.1999154117498976, Bias 0.057871437
Iteration 1148:	Cost 103.62266317056401, Weight 3380653	1.199914964655344, Bias 0.0578942593
Iteration 1149:	Cost 103.62265796007239, Weight 121013	1.19991451756484, Bias 0.05791708130
Iteration 1150:	Cost 103.62265274967507, Weight 06190291	1.1999140704783855, Bias 0.057939903
Iteration 1151:	Cost 103.62264753937225, Weight 61588673	1.1999136233959806, Bias 0.057962724
Iteration 1152:	Cost 103.62264232916371, Weight 96316347	1.1999131763176252, Bias 0.057985545
Iteration 1153:	Cost 103.62263711904956, Weight 103735005	1.1999127292433192, Bias 0.058008367
Iteration 1154:	Cost 103.62263190902988, Weight 0376032	1.1999122821730623, Bias 0.058031188
Iteration 1155:	Cost 103.62262669910446, Weight 76476994	1.1999118351068552, Bias 0.058054008
Iteration 1156:	Cost 103.62262148927353, Weight 28523708	1.1999113880446972, Bias 0.058076829
Iteration 1157:	Cost 103.62261627953694, Weight 5990065	1.1999109409865885, Bias 0.058099649
Iteration 1158:	Cost 103.62261106989475, Weight 0608007	1.199910493932529, Bias 0.0581224697
Iteration 1159:	Cost 103.62260586034685, Weight 60645967	1.1999100468825188, Bias 0.058145289
Iteration 1160:	Cost 103.62260065089346, Weight 30014717	1.1999095998365576, Bias 0.058168109
Iteration 1161:	Cost 103.62259544153429, Weight 78714443	1.1999091527946457, Bias 0.058190928
Iteration 1162:	Cost 103.6225902322696, Weight 6745333	1.1999087057567828, Bias 0.0582137480
Iteration 1163:	Cost 103.62258502309928, Weight 41075744	1.199908258722969, Bias 0.0582365671
Iteration 1164:	Cost 103.62257981402321, Weight 008013545	1.1999078116932043, Bias 0.058259386
Iteration 1165:	Cost 103.62257460504156, Weight 668268604	1.1999073646674885, Bias 0.058282204
Iteration 1166:	Cost 103.62256939615429, Weight 12184279	1.1999069176458217, Bias 0.058305023
Iteration 1167:	Cost 103.6225641873613, Weight 68737976	1.1999064706282037, Bias 0.0583278413
Iteration 1168:	Cost 103.62255897866275, Weight 40895604	1.1999060236146346, Bias 0.058350659
Iteration 1169:	Cost 103.62255377005849, Weight 24249885	1.1999055766051143, Bias 0.058373477
Iteration 1170:	Cost 103.62254856154864, Weight 6936827	1.199905129599643, Bias 0.0583962948
Iteration 1171:	Cost 103.62254335313312, Weight 289566186	1.1999046825982205, Bias 0.058419112
Iteration 1172:	Cost 103.62253814481195, Weight 50309446	1.1999042356008465, Bias 0.058441929
Iteration 1173:	Cost 103.62253293658515, Weight 509954965	1.1999037886075214, Bias 0.058464746
Iteration 1174:	Cost 103.6225277284527, Weight 014958	1.199903341618245, Bias 0.05848756331
Iteration 1175:	Cost 103.62252252041458, Weight 0368017	1.199902894633017, Bias 0.0585103799
Iteration 1176:	Cost 103.62251731247079, Weight 2905486	1.1999024476518376, Bias 0.058533196
Iteration 1177:	Cost 103.62251210462135, Weight 47075676	1.1999020006747068, Bias 0.058556012
Iteration 1178:	Cost 103.62250689686628, Weight 44430651	1.1999015537016244, Bias 0.058578828
Iteration 1179:	Cost 103.62250168920554, Weight 21119972	1.1999011067325906, Bias 0.058601644

Iteration 1181: Cost 103.62249648163913, Weight 77143827	1.1999006597676054, Bias 0.058624459
Iteration 1181: Cost 103.62249127416706, Weight 125024025	1.1999002128066685, Bias 0.058647275
Iteration 1182: Cost 103.62248606678932, Weight 27195886	1.1998997658497799, Bias 0.058670090
Iteration 1183: Cost 103.6224808595059, Weight 1224465	1.1998993188969396, Bias 0.0586929052
Iteration 1184: Cost 103.6224756523167, Weight 4588326	1.1998988719481476, Bias 0.0587157199
Iteration 1185: Cost 103.62247044522206, Weight 72876566	1.199898425003404, Bias 0.0587385344
Iteration 1186: Cost 103.62246523822161, Weight 793226434	1.1998979780627084, Bias 0.058761348
Iteration 1187: Cost 103.62246003131548, Weight 906934743	1.1998975311260611, Bias 0.058784162
Iteration 1188: Cost 103.62245482450368, Weight 1400336	1.199897084193462, Bias 0.0588069768
Iteration 1189: Cost 103.62244961778619, Weight 1443416	1.199896637264911, Bias 0.0588297905
Iteration 1190: Cost 103.62244441116307, Weight 0822901	1.199896190340408, Bias 0.0588526040
Iteration 1191: Cost 103.62243920463425, Weight 9538979	1.199895743419953, Bias 0.0588754172
Iteration 1192: Cost 103.62243399819972, Weight 7591836	1.199895296503546, Bias 0.0588982303
Iteration 1193: Cost 103.62242879185953, Weight 249816604	1.1998948495911872, Bias 0.058921043
Iteration 1194: Cost 103.62242358561366, Weight 91708638	1.1998944026828762, Bias 0.058943855
Iteration 1195: Cost 103.62241837946203, Weight 7772957	1.199893955778613, Bias 0.0589666683
Iteration 1196: Cost 103.62241317340487, Weight 63174804	1.1998935088783975, Bias 0.058989480
Iteration 1197: Cost 103.62240796744192, Weight 679143666	1.1998930619822301, Bias 0.059012292
Iteration 1198: Cost 103.6224027615732, Weight 19918315	1.1998926150901104, Bias 0.0590351045
Iteration 1199: Cost 103.62239755579886, Weight 15407386	1.1998921682020385, Bias 0.059057916
Iteration 1200: Cost 103.62239235011879, Weight 581612175	1.1998917213180142, Bias 0.059080727
Iteration 1201: Cost 103.62238714453312, Weight 802535126	1.1998912744380374, Bias 0.059103538
Iteration 1202: Cost 103.62238193904165, Weight 816844594	1.1998908275621085, Bias 0.059126349
Iteration 1203: Cost 103.62237673364447, Weight 624542445	1.1998903806902272, Bias 0.059149160
Iteration 1204: Cost 103.62237152834163, Weight 225630546	1.1998899338223934, Bias 0.059171971
Iteration 1205: Cost 103.6223663231331, Weight 2011077	1.1998894869586072, Bias 0.0591947816
Iteration 1206: Cost 103.62236111801886, Weight 80798499	1.1998890400988684, Bias 0.059217591
Iteration 1207: Cost 103.62235591299883, Weight 8925508	1.199888593243177, Bias 0.0592404017
Iteration 1208: Cost 103.62235070807316, Weight 56392291	1.1998881463915332, Bias 0.059263211
Iteration 1209: Cost 103.6223455032417, Weight 3199035	1.1998876995439365, Bias 0.0592860211
Iteration 1210: Cost 103.6223402985047, Weight 9345927	1.1998872527003872, Bias 0.0593088304
Iteration 1211: Cost 103.62233509386189, Weight 64833155	1.1998868058608851, Bias 0.059331639
Iteration 1212: Cost 103.62232988931333, Weight 59660905	1.1998863590254305, Bias 0.059354448

Iteration 1213:	Cost 103.62232468485901, Weight 38293646	1.199885912194023, Bias 0.0593772573
Iteration 1214:	Cost 103.62231948049907, Weight 87338721	1.1998854653666629, Bias 0.059400065
Iteration 1215:	Cost 103.62231427623335, Weight 201891615	1.1998850185433496, Bias 0.059422874
Iteration 1216:	Cost 103.62230907206188, Weight 32380873	1.1998845717240838, Bias 0.059445682
Iteration 1217:	Cost 103.62230386798475, Weight 3914042	1.199884124908865, Bias 0.0594684902
Iteration 1218:	Cost 103.62229866400187, Weight 947888565	1.1998836780976931, Bias 0.059491297
Iteration 1219:	Cost 103.62229346011321, Weight 45005503	1.1998832312905683, Bias 0.059514105
Iteration 1220:	Cost 103.62228825631883, Weight 74564169	1.1998827844874904, Bias 0.059536912
Iteration 1221:	Cost 103.62228305261877, Weight 834650415	1.1998823376884595, Bias 0.059559719
Iteration 1222:	Cost 103.62227784901293, Weight 71708308	1.1998818908934754, Bias 0.059582526
Iteration 1223:	Cost 103.62227264550144, Weight 392941544	1.1998814441025383, Bias 0.059605333
Iteration 1224:	Cost 103.62226744208405, Weight 6222769	1.199880997315648, Bias 0.0596281398
Iteration 1225:	Cost 103.62226223876107, Weight 124943385	1.1998805505328043, Bias 0.059650946
Iteration 1226:	Cost 103.6222570355323, Weight 810905	1.1998801037540074, Bias 0.0596737521
Iteration 1227:	Cost 103.62225183239772, Weight 03067091	1.1998796569792576, Bias 0.059696558
Iteration 1228:	Cost 103.62224662935748, Weight 7368647	1.199879210208554, Bias 0.0597193636
Iteration 1229:	Cost 103.62224142641159, Weight 110139076	1.1998787634418973, Bias 0.059742169
Iteration 1230:	Cost 103.62223622355978, Weight 340030586	1.1998783166792872, Bias 0.059764974
Iteration 1231:	Cost 103.62223102080225, Weight 36336287	1.1998778699207235, Bias 0.059787779
Iteration 1232:	Cost 103.62222581813899, Weight 180137794	1.1998774231662066, Bias 0.059810584
Iteration 1233:	Cost 103.62222061556997, Weight 9035724	1.199876976415736, Bias 0.0598333887
Iteration 1234:	Cost 103.6222154130952, Weight 402307	1.199876529669312, Bias 0.05985619319
Iteration 1235:	Cost 103.62221021071466, Weight 39113716	1.1998760829269342, Bias 0.059878997
Iteration 1236:	Cost 103.62220500842842, Weight 8170138	1.199875636188603, Bias 0.0599018013
Iteration 1237:	Cost 103.62219980623635, Weight 65717605	1.199875189454318, Bias 0.0599246051
Iteration 1238:	Cost 103.62219460413854, Weight 74318769	1.1998747427240795, Bias 0.059947408
Iteration 1239:	Cost 103.622189402135, Weight 113526	1.199874295997887, Bias 0.059970212114
Iteration 1240:	Cost 103.62218420022563, Weight 27849697	1.1998738492757408, Bias 0.059993015
Iteration 1241:	Cost 103.62217899841055, Weight 36339905	1.199873402557641, Bias 0.0600158182
Iteration 1242:	Cost 103.62217379668957, Weight 98764419	1.1998729558435872, Bias 0.060038620
Iteration 1243:	Cost 103.62216859506293, Weight 5324117	1.1998725091335796, Bias 0.060061423
Iteration 1244:	Cost 103.62216339353063, Weight 70644305	1.199872062427618, Bias 0.0600842258
Iteration 1245:	Cost 103.62215819209234, Weight 002343875	1.1998716157257026, Bias 0.060107028

Iteration 1246: Cost 103.62215299074839, Weight 27512285	1.199871169027833, Bias 0.0601298299
Iteration 1247: Cost 103.62214778949865, Weight 6461514	1.1998707223340095, Bias 0.060152631
Iteration 1248: Cost 103.62214258834308, Weight 582631	1.199870275644232, Bias 0.0601754331
Iteration 1249: Cost 103.62213738728182, Weight 46384924	1.1998698289585006, Bias 0.060198234
Iteration 1250: Cost 103.62213218631479, Weight 5629117	1.1998693822768147, Bias 0.060221035
Iteration 1251: Cost 103.62212698544187, Weight 45545235	1.1998689355991747, Bias 0.060243836
Iteration 1252: Cost 103.62212178466321, Weight 14147307	1.1998684889255806, Bias 0.060266637
Iteration 1253: Cost 103.62211658397874, Weight 62097572	1.1998680422560324, Bias 0.060289437
Iteration 1254: Cost 103.62211138338854, Weight 893962166	1.1998675955905298, Bias 0.060312237
Iteration 1255: Cost 103.62210618289247, Weight 96043428	1.1998671489290729, Bias 0.060335037
Iteration 1256: Cost 103.6221009824906, Weight 20393945	1.1998667022716616, Bias 0.0603578378
Iteration 1257: Cost 103.62209578218298, Weight 7384302	1.199866255618296, Bias 0.0603806374
Iteration 1258: Cost 103.62209058196959, Weight 2078338	1.199865808968976, Bias 0.0604034369
Iteration 1259: Cost 103.62208538185038, Weight 16121689	1.1998653623237014, Bias 0.060426236
Iteration 1260: Cost 103.62208018182537, Weight 195145426	1.1998649156824723, Bias 0.060449035
Iteration 1261: Cost 103.6220749818946, Weight 2257086	1.1998644690452887, Bias 0.0604718340
Iteration 1262: Cost 103.62206978205784, Weight 643495055	1.1998640224121506, Bias 0.060494632
Iteration 1263: Cost 103.6220645823155, Weight 5791989	1.1998635757830578, Bias 0.0605174310
Iteration 1264: Cost 103.62205938266729, Weight 26584723	1.1998631291580104, Bias 0.060540229
Iteration 1265: Cost 103.62205418311324, Weight 26727895	1.1998626825370085, Bias 0.060563027
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Iteration 1277: Cost 103.62199179581113, Weight 17848174	1.1998573234005059, Bias 0.060836587
Iteration 1278: Cost 103.62198659748141, Weight 49564055	1.1998568768320896, Bias 0.060859382

Iteration 1279: Cost 103.62198139924585, Weight 606329926	1.1998564302677184, Bias 0.060882177
Iteration 1280: Cost 103.62197620110453, Weight 51055173	1.1998559837073917, Bias 0.060904972
Iteration 1281: Cost 103.6219710030573, Weight 30783	1.19985553715111, Bias 0.060927767208
Iteration 1282: Cost 103.62196580510427, Weight 6996001	1.1998550905988727, Bias 0.060950561
Iteration 1283: Cost 103.62196060724534, Weight 98443041	1.1998546440506803, Bias 0.060973355
Iteration 1284: Cost 103.62195540948066, Weight 06280063	1.1998541975065324, Bias 0.060996150
Iteration 1285: Cost 103.62195021181009, Weight 3471263	1.199853750966429, Bias 0.0610189439
Iteration 1286: Cost 103.62194501423369, Weight 60016828	1.1998533044303703, Bias 0.061041737
Iteration 1287: Cost 103.6219398167514, Weight 5916946	1.1998528578983563, Bias 0.0610645310
Iteration 1288: Cost 103.62193461936329, Weight 31171802	1.1998524113703866, Bias 0.061087324
Iteration 1289: Cost 103.62192942206934, Weight 35781584	1.1998519648464612, Bias 0.061110117
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Iteration 1291: Cost 103.62191902776391, Weight 83066674	1.1998510718107438, Bias 0.061155702
Iteration 1292: Cost 103.62191383075239, Weight 25742357	1.1998506252989516, Bias 0.061178495
Iteration 1293: Cost 103.62190863383503, Weight 477737135	1.1998501787912037, Bias 0.061201287
Iteration 1294: Cost 103.62190343701181, Weight 49160931	1.1998497322875001, Bias 0.061224079
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Iteration 1296: Cost 103.62189304364779, Weight 900036964	1.1998488392922255, Bias 0.061269662
Iteration 1297: Cost 103.62188784710693, Weight 294596184	1.1998483928006545, Bias 0.061292454
Iteration 1298: Cost 103.6218826506603, Weight 8272149	1.1998479463131275, Bias 0.0613152454
Iteration 1299: Cost 103.62187745430774, Weight 46441476	1.1998474998296447, Bias 0.061338036
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Iteration 1301: Cost 103.62186706188504, Weight 0851266	1.199846606874811, Bias 0.0613836178
Iteration 1302: Cost 103.62186186581496, Weight 17092103	1.1998461604034603, Bias 0.061406408
Iteration 1303: Cost 103.62185666983888, Weight 326904834	1.1998457139361534, Bias 0.061429198
Iteration 1304: Cost 103.62185147395702, Weight 276465946	1.1998452674728903, Bias 0.061451988
Iteration 1305: Cost 103.62184627816916, Weight 019606234	1.1998448210136712, Bias 0.061474778
Iteration 1306: Cost 103.6218410824755, Weight 632757	1.199844374558496, Bias 0.06149756755
Iteration 1307: Cost 103.62183588687606, Weight 88663182	1.1998439281073643, Bias 0.061520356
Iteration 1308: Cost 103.6218306913706, Weight 1052086	1.1998434816602765, Bias 0.0615431460
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Iteration 1311: Cost 103.6218151054191, Weight 4371539	1.1998421423432752, Bias 0.0616115121

Iteration 1312:	Cost 103.62180991029008, Weight 44196226	1.1998416959123621, Bias 0.061634300
Iteration 1313:	Cost 103.62180471525528, Weight 53380327	1.1998412494854924, Bias 0.061657088
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Iteration 1315:	Cost 103.6217943254679, Weight 9827517	1.1998403566438838, Bias 0.0617026640
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Iteration 1318:	Cost 103.62177874149259, Weight 89698577	1.1998390174117965, Bias 0.061771025
Iteration 1319:	Cost 103.62177354702243, Weight 750430846	1.1998385710091874, Bias 0.061793812
Iteration 1320:	Cost 103.62176835264631, Weight 397483143	1.1998381246106218, Bias 0.061816599
Iteration 1321:	Cost 103.62176315836427, Weight 83814453	1.1998376782160993, Bias 0.061839385
Iteration 1322:	Cost 103.62175796417628, Weight 241688	1.19983723182562, Bias 0.06186217207
Iteration 1323:	Cost 103.62175277008252, Weight 00302055	1.199836785439184, Bias 0.0618849581
Iteration 1324:	Cost 103.6217475760827, Weight 2180193	1.1998363390567912, Bias 0.0619077439
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Iteration 1326:	Cost 103.62173718836547, Weight 45653246	1.199835446304135, Bias 0.0619533149
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Iteration 1328:	Cost 103.62172680102448, Weight 143985785	1.1998345535676511, Bias 0.061998885
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Iteration 1334:	Cost 103.6216956412598, Weight 6020274	1.199831875455229, Bias 0.06213559078
Iteration 1335:	Cost 103.62169044829486, Weight 337405196	1.1998314291173087, Bias 0.062158374
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Iteration 1337:	Cost 103.62168006264746, Weight 821088294	1.1998305364535957, Bias 0.062203940
Iteration 1338:	Cost 103.62167486996475, Weight 75339021	1.1998300901278034, Bias 0.062226723
Iteration 1339:	Cost 103.6216696773761, Weight 7933486	1.1998296438060536, Bias 0.0622495064
Iteration 1340:	Cost 103.62166448488156, Weight 99892412	1.1998291974883464, Bias 0.062272288
Iteration 1341:	Cost 103.62165929248121, Weight 312159854	1.1998287511746817, Bias 0.062295071
Iteration 1342:	Cost 103.62165410017472, Weight 41904393	1.1998283048650595, Bias 0.062317853
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Iteration 1358: Cost 103.62157103606297, Weight 06688897	1.1998211644608552, Bias 0.062682339
Iteration 1359: Cost 103.62156584535543, Weight 608083	1.19982071821995, Bias 0.06270511766
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Iteration 1362: Cost 103.62155027379666, Weight 2257558	1.1998193795214853, Bias 0.062773452
Iteration 1363: Cost 103.62154508346511, Weight 9996868	1.1998189332967473, Bias 0.062796229
Iteration 1364: Cost 103.62153989322756, Weight 56730727	1.1998184870760509, Bias 0.062819007
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Iteration 1369: Cost 103.62151394345034, Weight 108169	1.199816256033193, Bias 0.0629328923
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Iteration 1373: Cost 103.62149318532074, Weight 39222547	1.1998144712716539, Bias 0.063023996
Iteration 1374: Cost 103.62148799602335, Weight 8968433	1.1998140250913725, Bias 0.063046771
Iteration 1375: Cost 103.62148280681998, Weight 19517113	1.1998135789151323, Bias 0.063069547
Iteration 1376: Cost 103.62147761771061, Weight 28721086	1.1998131327429336, Bias 0.063092322
Iteration 1377: Cost 103.6214724286952, Weight 296433	1.199812686574776, Bias 0.06311509717

Iteration 1378: Cost 103.62146723977386, Weight 85243341	1.1998122404106595, Bias 0.063137871
Iteration 1379: Cost 103.62146205094639, Weight 32561999	1.1998117942505842, Bias 0.063160646
Iteration 1380: Cost 103.62145686221311, Weight 252592	1.19981134809455, Bias 0.06318342059
Iteration 1381: Cost 103.62145167357366, Weight 5315308	1.199810901942557, Bias 0.0632061946
Iteration 1382: Cost 103.62144648502832, Weight 50750333	1.1998104557946048, Bias 0.063228968
Iteration 1383: Cost 103.62144129657689, Weight 15557854	1.1998100096506936, Bias 0.063251742
Iteration 1384: Cost 103.62143610821947, Weight 59738058	1.1998095635108235, Bias 0.063274515
Iteration 1385: Cost 103.62143091995605, Weight 83291132	1.1998091173749943, Bias 0.063297288
Iteration 1386: Cost 103.62142573178662, Weight 6217261	1.199808671243206, Bias 0.0633200618
Iteration 1387: Cost 103.62142054371118, Weight 68516634	1.1998082251154585, Bias 0.063342834
Iteration 1388: Cost 103.62141535572971, Weight 30189437	1.1998077789917518, Bias 0.063365607
Iteration 1389: Cost 103.62141016784221, Weight 71235858	1.1998073328720862, Bias 0.063388379
Iteration 1390: Cost 103.62140498004875, Weight 1656083	1.199806886756461, Bias 0.0634111519
Iteration 1391: Cost 103.62139979234917, Weight 91450298	1.1998064406448767, Bias 0.063433923
Iteration 1392: Cost 103.62139460474361, Weight 061869	1.199805994537333, Bias 0.0634566957
Iteration 1393: Cost 103.62138941723202, Weight 161445	1.19980554843383, Bias 0.06347946729
Iteration 1394: Cost 103.6213842298144, Weight 7078753	1.1998051023343674, Bias 0.0635022386
Iteration 1395: Cost 103.62137904249073, Weight 84370799	1.1998046562389455, Bias 0.063525009
Iteration 1396: Cost 103.62137385526103, Weight 103777	1.199804210147564, Bias 0.0635477808
Iteration 1397: Cost 103.62136866812537, Weight 57079851	1.1998037640602233, Bias 0.063570551
Iteration 1398: Cost 103.62136348108366, Weight 1249723	1.1998033179769227, Bias 0.063593322
Iteration 1399: Cost 103.62135829413582, Weight 47290095	1.1998028718976628, Bias 0.063616092
Iteration 1400: Cost 103.62135310728198, Weight 61458633	1.1998024258224431, Bias 0.063638862
Iteration 1401: Cost 103.62134792052211, Weight 5500303	1.1998019797512638, Bias 0.063661632
Iteration 1402: Cost 103.62134273385624, Weight 2792347	1.1998015336841248, Bias 0.063684402
Iteration 1403: Cost 103.62133754728424, Weight 0220145	1.199801087621026, Bias 0.0637071718
Iteration 1404: Cost 103.62133236080626, Weight 11893238	1.1998006415619675, Bias 0.063729941
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Iteration 1406: Cost 103.62132198813208, Weight 13369429	1.1997997494559711, Bias 0.063775479
Iteration 1407: Cost 103.6213168019359, Weight 172901	1.199799303409033, Bias 0.06379824783
Iteration 1408: Cost 103.6213116158338, Weight 2353539	1.1997988573661351, Bias 0.0638210163
Iteration 1409: Cost 103.62130642982547, Weight 6091153	1.1997984113272773, Bias 0.063843784
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Iteration 1411: Cost 103.62129605809083, Weight 56160318	1.1997975192616817, Bias 0.063889320
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Iteration 1413: Cost 103.62128568673197, Weight 6892076	1.1997966272122456, Bias 0.063934855
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Iteration 1415: Cost 103.62127531574882, Weight 9194351	1.199795735178969, Bias 0.0639803899
Iteration 1416: Cost 103.62127013039816, Weight 83399045	1.1997952891683905, Bias 0.064003156
Iteration 1417: Cost 103.62126494514143, Weight 46982586	1.1997948431618517, Bias 0.064025923
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Iteration 1426: Cost 103.62121828205741, Weight 91313404	1.1997908292847856, Bias 0.064230813
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Iteration 1428: Cost 103.62120791351634, Weight 8545888	1.1997899373565386, Bias 0.064276342
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Iteration 1430: Cost 103.62119754535082, Weight 97128712	1.1997890454444486, Bias 0.064321870
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Iteration 1439: Cost 103.62115089325462, Weight 29046904	1.1997850320399828, Bias 0.064526737
Iteration 1440: Cost 103.62114571015783, Weight 18395483	1.1997845861263483, Bias 0.064549499
Iteration 1441: Cost 103.621140527155, Weight 127392	1.1997841402167526, Bias 0.06457226087
Iteration 1442: Cost 103.62113534424601, Weight 5242817	1.199783694311196, Bias 0.0645950223
Iteration 1443: Cost 103.62113016143095, Weight 2741945	1.199783248409678, Bias 0.0646177836

Iteration 1444: Cost 103.62112497870973, Weight 69624962	1.1997828025121988, Bias 0.064640544
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Iteration 1448: Cost 103.62110424876381, Weight 90999667	1.1997810189626692, Bias 0.064731586
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Iteration 1452: Cost 103.62108352031984, Weight 82531546	1.1997792354777568, Bias 0.064822625
Iteration 1453: Cost 103.62107833844357, Weight 3877975	1.199778789616625, Bias 0.0648453850
Iteration 1454: Cost 103.62107315666108, Weight 04610161	1.1997783437595315, Bias 0.064868144
Iteration 1455: Cost 103.62106797497258, Weight 84728291	1.1997778979064764, Bias 0.064890902
Iteration 1456: Cost 103.62106279337789, Weight 44232551	1.1997774520574596, Bias 0.064913661
Iteration 1457: Cost 103.62105761187695, Weight 3123129	1.199777006212481, Bias 0.0649364198
Iteration 1458: Cost 103.62105243047003, Weight 140021	1.199776560371541, Bias 0.0649591780
Iteration 1459: Cost 103.62104724915696, Weight 99063981	1.1997761145346388, Bias 0.064981935
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Iteration 1462: Cost 103.62103170578075, Weight 68377306	1.1997747770481617, Bias 0.065050208
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Iteration 1464: Cost 103.62102134399927, Weight 8189733	1.199773885410701, Bias 0.0650957227
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Iteration 1468: Cost 103.62100062156253, Weight 5046981	1.1997721021842347, Bias 0.065186748
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Iteration 1481: Cost 103.62093328401203, Weight 32877561	1.1997663071443905, Bias 0.065482559
Iteration 1482: Cost 103.62092810485726, Weight 56486744	1.1997658614003575, Bias 0.065505312
Iteration 1483: Cost 103.62092292579636, Weight 59487098	1.1997654156603617, Bias 0.065528065
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Iteration 1485: Cost 103.62091256795588, Weight 03662066	1.1997645241924821, Bias 0.065573571
Iteration 1486: Cost 103.62090738917641, Weight 44837053	1.1997640784645984, Bias 0.065596323
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Iteration 1488: Cost 103.6208970318988, Weight 5362968	1.1997631870209422, Bias 0.0656418276
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Iteration 1491: Cost 103.62088149668602, Weight 41594489	1.1997618498857363, Bias 0.065710082
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Iteration 1543: Cost 103.6206123537664, Weight 2410175	1.1997386786475763, Bias 0.0668928703
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Iteration 1576: Cost 103.62044168298169, Weight 83160742	1.1997239794829306, Bias 0.067643196
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Iteration 1582: Cost 103.62041066289002, Weight 73919898	1.1997213073795459, Bias 0.067779595
Iteration 1583: Cost 103.62040549320253, Weight 79738	1.1997208620431, Bias 0.067802328169
Iteration 1584: Cost 103.62040032360865, Weight 39449594	1.1997204167106876, Bias 0.067825060
Iteration 1585: Cost 103.62039515410848, Weight 1329653	1.199719971382309, Bias 0.0678477924
Iteration 1586: Cost 103.62038998470197, Weight 22620099	1.1997195260579638, Bias 0.067870524
Iteration 1587: Cost 103.62038481538897, Weight 83321121	1.1997190807376523, Bias 0.067893255
Iteration 1588: Cost 103.62037964616974, Weight 23432905	1.1997186354213742, Bias 0.067915987
Iteration 1589: Cost 103.6203744770442, Weight 2955637	1.1997181901091296, Bias 0.0679387184
Iteration 1590: Cost 103.62036930801213, Weight 41889504	1.1997177448009184, Bias 0.067961449
Iteration 1591: Cost 103.62036413907376, Weight 20234692	1.1997172994967407, Bias 0.067984180
Iteration 1592: Cost 103.6203589702291, Weight 7991387	1.1997168541965963, Bias 0.0680069107
Iteration 1593: Cost 103.62035380147795, Weight 15159776	1.1997164089004853, Bias 0.068029641
Iteration 1594: Cost 103.62034863282055, Weight 31740047	1.1997159636084074, Bias 0.068052371
Iteration 1595: Cost 103.62034346425682, Weight 27732384	1.1997155183203627, Bias 0.068075101
Iteration 1596: Cost 103.62033829578661, Weight 03136975	1.1997150730363513, Bias 0.068097831
Iteration 1597: Cost 103.62033312740996, Weight 57954007	1.1997146277563733, Bias 0.068120560
Iteration 1598: Cost 103.62032795912705, Weight 92183664	1.1997141824804283, Bias 0.068143289
Iteration 1599: Cost 103.62032279093768, Weight 05826135	1.1997137372085163, Bias 0.068166019
Iteration 1600: Cost 103.62031762284207, Weight 98881605	1.1997132919406372, Bias 0.068188747
Iteration 1601: Cost 103.62031245483999, Weight 71350261	1.1997128466767915, Bias 0.068211476
Iteration 1602: Cost 103.62030728693152, Weight 2323229	1.1997124014169787, Bias 0.068234205
Iteration 1603: Cost 103.62030211911673, Weight 54527877	1.1997119561611989, Bias 0.068256933
Iteration 1604: Cost 103.62029695139543, Weight 65237209	1.1997115109094518, Bias 0.068279661
Iteration 1605: Cost 103.62029178376784, Weight 55360474	1.1997110656617378, Bias 0.068302389
Iteration 1606: Cost 103.62028661623381, Weight 24897856	1.1997106204180565, Bias 0.068325117
Iteration 1607: Cost 103.62028144879346, Weight 73849544	1.1997101751784083, Bias 0.068347844
Iteration 1608: Cost 103.62027628144665, Weight 02215722	1.1997097299427926, Bias 0.068370572

Iteration 160:	Cost 103.6202711141936,	Weight 1.1997092847112096,	Bias 0.0683932990
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Iteration 1610:	Cost 103.62026594703391,	Weight 1.1997088394836595,	Bias 0.068416025
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Iteration 1611:	Cost 103.62026077996796,	Weight 1.1997083942601419,	Bias 0.068438752
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Iteration 1612:	Cost 103.62025561299566,	Weight 1.199707949040657,	Bias 0.0684614790
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Iteration 1613:	Cost 103.62025044611684,	Weight 1.1997075038252047,	Bias 0.068484205
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Iteration 1614:	Cost 103.62024527933167,	Weight 1.199707058613785,	Bias 0.0685069314
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Iteration 1615:	Cost 103.62024011264012,	Weight 1.1997066134063978,	Bias 0.068529657
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Iteration 1616:	Cost 103.62023494604209,	Weight 1.199706168203043,	Bias 0.0685523828
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Iteration 1617:	Cost 103.62022977953774,	Weight 1.1997057230037207,	Bias 0.068575108
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Iteration 1618:	Cost 103.62022461312704,	Weight 1.1997052778084307,	Bias 0.068597833
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Iteration 1619:	Cost 103.62021944680981,	Weight 1.1997048326171733,	Bias 0.068620558
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Iteration 1620:	Cost 103.62021428058611,	Weight 1.199704387429948,	Bias 0.0686432833
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Iteration 1621:	Cost 103.62020911445612,	Weight 1.1997039422467553,	Bias 0.068666007
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Iteration 1622:	Cost 103.62020394841963,	Weight 1.1997034970675946,	Bias 0.068688732
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Iteration 1623:	Cost 103.62019878247686,	Weight 1.199703051892466,	Bias 0.0687114565
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Iteration 1624:	Cost 103.62019361662755,	Weight 1.1997026067213699,	Bias 0.068734180
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Iteration 1625:	Cost 103.62018845087182,	Weight 1.199702161554306,	Bias 0.0687569043
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Iteration 1626:	Cost 103.62018328520972,	Weight 1.199701716391274,	Bias 0.0687796279
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Iteration 1627:	Cost 103.62017811964124,	Weight 1.199701271232274,	Bias 0.0688023513
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Iteration 1628:	Cost 103.6201729541662,	Weight 1.1997008260773063,	Bias 0.0688250744
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Iteration 1629:	Cost 103.62016778878481,	Weight 1.1997003809263704,	Bias 0.068847797
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Iteration 1630:	Cost 103.62016262349694,	Weight 1.1996999357794667,	Bias 0.068870520
18515273			
Iteration 1631:	Cost 103.62015745830274,	Weight 1.1996994906365948,	Bias 0.068893242
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Iteration 1632:	Cost 103.62015229320201,	Weight 1.1996990454977547,	Bias 0.068915965
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Iteration 1633:	Cost 103.62014712819493,	Weight 1.1996986003629466,	Bias 0.068938687
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Iteration 1634:	Cost 103.62014196328134,	Weight 1.1996981552321704,	Bias 0.068961409
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Iteration 1635:	Cost 103.6201367984613,	Weight 1.1996977101054258,	Bias 0.0689841308
7461457			
Iteration 1636:	Cost 103.6201316337349,	Weight 1.1996972649827131,	Bias 0.0690068523
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Iteration 1637:	Cost 103.62012646910205,	Weight 1.199696819864032,	Bias 0.0690295737
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Iteration 1638:	Cost 103.6201213045627,	Weight 1.1996963747493825,	Bias 0.0690522948
186421			
Iteration 1639:	Cost 103.62011614011695,	Weight 1.1996959296387648,	Bias 0.069075015
72172087			
Iteration 1640:	Cost 103.62011097576479,	Weight 1.1996954845321788,	Bias 0.069097736
4190042			
Iteration 1641:	Cost 103.62010581150608,	Weight 1.1996950394296242,	Bias 0.069120456
91049397			

Iteration 1642: Cost 103.62010064734095, Weight 9619203	1.199694594331101, Bias 0.0691431771
Iteration 1643: Cost 103.62009548326938, Weight 27610026	1.1996941492366096, Bias 0.069165897
Iteration 1644: Cost 103.62009031929131, Weight 15022051	1.1996937041461495, Bias 0.069188617
Iteration 1645: Cost 103.6200851554069, Weight 855464	1.199693259059721, Bias 0.06921133681
Iteration 1646: Cost 103.62007999161598, Weight 28110453	1.1996928139773235, Bias 0.069234056
Iteration 1647: Cost 103.62007482791856, Weight 53787203	1.1996923688989576, Bias 0.069256775
Iteration 1648: Cost 103.62006966431478, Weight 8885901	1.199691923824623, Bias 0.0692794945
Iteration 1649: Cost 103.62006450080446, Weight 43406734	1.1996914787543198, Bias 0.069302213
Iteration 1650: Cost 103.62005933738769, Weight 07349888	1.1996910336880477, Bias 0.069324932
Iteration 1651: Cost 103.62005417406446, Weight 0715548	1.199690588625807, Bias 0.0693476505
Iteration 1652: Cost 103.6200490108347, Weight 3503902	1.1996901435675973, Bias 0.0693703687
Iteration 1653: Cost 103.62004384769854, Weight 75715136	1.1996896985134187, Bias 0.069393086
Iteration 1654: Cost 103.62003868465588, Weight 57349436	1.1996892534632713, Bias 0.069415804
Iteration 1655: Cost 103.6200335217068, Weight 8406989	1.1996888084171549, Bias 0.0694385221
Iteration 1656: Cost 103.62002835885121, Weight 5888798	1.1996883633750695, Bias 0.069461239
Iteration 1657: Cost 103.62002319608919, Weight 8792597	1.199687918337015, Bias 0.0694839567
Iteration 1658: Cost 103.62001803342062, Weight 78121027	1.1996874733029914, Bias 0.069506673
Iteration 1659: Cost 103.62001287084567, Weight 6873454	1.199687028272999, Bias 0.0695293905
Iteration 1660: Cost 103.62000770836421, Weight 15050066	1.1996865832470374, Bias 0.069552107
Iteration 1661: Cost 103.6200025459762, Weight 2651048	1.1996861382251065, Bias 0.0695748235
Iteration 1662: Cost 103.61999738368169, Weight 69676588	1.1996856932072064, Bias 0.069597539
Iteration 1663: Cost 103.61999222148086, Weight 6126871	1.199685248193337, Bias 0.0696202556
Iteration 1664: Cost 103.61998705937336, Weight 42002085	1.1996848031834986, Bias 0.069642971
Iteration 1665: Cost 103.61998189735937, Weight 97302415	1.1996843581776906, Bias 0.069665686
Iteration 1666: Cost 103.61997673543897, Weight 32028048	1.1996839131759134, Bias 0.069688402
Iteration 1667: Cost 103.61997157361212, Weight 6179169	1.199683468178167, Bias 0.0697111174
Iteration 1668: Cost 103.6199664118787, Weight 9755966	1.1996830231844509, Bias 0.0697338323
Iteration 1669: Cost 103.61996125023884, Weight 12758625	1.1996825781947655, Bias 0.069756547
Iteration 1670: Cost 103.61995608869242, Weight 65187331	1.1996821332091105, Bias 0.069779261
Iteration 1671: Cost 103.61995092723961, Weight 7042273	1.199681688227486, Bias 0.0698019759
Iteration 1672: Cost 103.61994576588017, Weight 08323636	1.1996812432498922, Bias 0.069824690
Iteration 1673: Cost 103.6199406046143, Weight 9031605	1.1996807982763287, Bias 0.0698474039
Iteration 1674: Cost 103.61993544344192, Weight 69166368	1.1996803533067955, Bias 0.069870117

Iteration 1675: Cost 103.61993028236307, Weight 1872811	1.1996799083412926, Bias 0.069892831
Iteration 1676: Cost 103.61992512137763, Weight 47717017	1.1996794633798198, Bias 0.069915544
Iteration 1677: Cost 103.61991996048576, Weight 56133279	1.1996790184223773, Bias 0.069938257
Iteration 1678: Cost 103.61991479968735, Weight 43977079	1.1996785734689652, Bias 0.069960970
Iteration 1679: Cost 103.6199096389823, Weight 1248604	1.1996781285195832, Bias 0.0699836831
Iteration 1680: Cost 103.61990447837091, Weight 57948041	1.1996776835742315, Bias 0.070006395
Iteration 1681: Cost 103.61989931785297, Weight 84075575	1.1996772386329098, Bias 0.070029107
Iteration 1682: Cost 103.61989415742846, Weight 9631394	1.199676793695618, Bias 0.0700518198
Iteration 1683: Cost 103.61988899709749, Weight 74615683	1.1996763487623565, Bias 0.070074531
Iteration 1684: Cost 103.61988383685997, Weight 39028628	1.1996759038331248, Bias 0.070097243
Iteration 1685: Cost 103.6198786767159, Weight 2870417	1.1996754589079233, Bias 0.0701199548
Iteration 1686: Cost 103.6198735166653, Weight 6141235	1.1996750139867516, Bias 0.0701426660
Iteration 1687: Cost 103.61986835670828, Weight 0884127	1.1996745690696098, Bias 0.070165377
Iteration 1688: Cost 103.61986319684465, Weight 90970706	1.1996741241564977, Bias 0.070188087
Iteration 1689: Cost 103.61985803707452, Weight 52529731	1.1996736792474154, Bias 0.070210798
Iteration 1690: Cost 103.6198528773978, Weight 51853	1.199673234342363, Bias 0.07023350893
Iteration 1691: Cost 103.61984771781466, Weight 13937291	1.1996727894413406, Bias 0.070256219
Iteration 1692: Cost 103.61984255832485, Weight 13786199	1.1996723445443476, Bias 0.070278929
Iteration 1693: Cost 103.61983739892852, Weight 93065441	1.1996718996513844, Bias 0.070301638
Iteration 1694: Cost 103.61983223962575, Weight 51775203	1.1996714547624507, Bias 0.070324348
Iteration 1695: Cost 103.61982708041646, Weight 89915671	1.1996710098775467, Bias 0.070347057
Iteration 1696: Cost 103.61982192130046, Weight 07487032	1.1996705649966724, Bias 0.070369767
Iteration 1697: Cost 103.61981676227806, Weight 04489472	1.1996701201198274, Bias 0.070392476
Iteration 1698: Cost 103.61981160334912, Weight 0923177	1.199669675247012, Bias 0.0704151848
Iteration 1699: Cost 103.61980644451359, Weight 6788334	1.199669230378226, Bias 0.0704378933
Iteration 1700: Cost 103.6198012857715, Weight 2085128	1.1996687855134693, Bias 0.0704606017
Iteration 1701: Cost 103.61979612712281, Weight 86813746	1.1996683406527422, Bias 0.070483309
Iteration 1702: Cost 103.61979096856766, Weight 80974375	1.1996678957960443, Bias 0.070506017
Iteration 1703: Cost 103.61978581010592, Weight 54567201	1.1996674509433758, Bias 0.070528725
Iteration 1704: Cost 103.61978065173767, Weight 0759241	1.1996670060947365, Bias 0.070551433
Iteration 1705: Cost 103.61977549346275, Weight 40050188	1.1996665612501265, Bias 0.070574140
Iteration 1706: Cost 103.6197703352813, Weight 1940722	1.1996661164095457, Bias 0.0705968475
Iteration 1707: Cost 103.61976517719347, Weight 43264196	1.1996656715729939, Bias 0.070619554

Iteration 1708: Cost 103.61976001919889, Weight 14020801	1.1996652267404715, Bias 0.070642261
Iteration 1709: Cost 103.61975486129782, Weight 421072	1.199664781911978, Bias 0.0706649676
Iteration 1710: Cost 103.6197497034901, Weight 3834138	1.1996643370875135, Bias 0.0706876739
Iteration 1711: Cost 103.61974454577594, Weight 02891245	1.1996638922670781, Bias 0.070710380
Iteration 1712: Cost 103.61973938815518, Weight 91382224	1.1996634474506718, Bias 0.070733085
Iteration 1713: Cost 103.61973423062776, Weight 59307263	1.1996630026382942, Bias 0.070755791
Iteration 1714: Cost 103.61972907319387, Weight 06666547	1.1996625578299456, Bias 0.070778497
Iteration 1715: Cost 103.61972391585343, Weight 33460264	1.1996621130256258, Bias 0.070801202
Iteration 1716: Cost 103.61971875860635, Weight 96886	1.199661668225335, Bias 0.0708239073
Iteration 1717: Cost 103.61971360145267, Weight 2535174	1.1996612234290729, Bias 0.070846612
Iteration 1718: Cost 103.6197084443924, Weight 0449871	1.1996607786368396, Bias 0.0708693169
Iteration 1719: Cost 103.61970328742558, Weight 3498318	1.1996603338486351, Bias 0.070892021
Iteration 1720: Cost 103.61969813055224, Weight 58951852	1.1996598890644592, Bias 0.070914725
Iteration 1721: Cost 103.61969297377232, Weight 62356073	1.1996594442843118, Bias 0.070937429
Iteration 1722: Cost 103.61968781708562, Weight 4519603	1.1996589995081932, Bias 0.070960133
Iteration 1723: Cost 103.61968266049257, Weight 747191	1.199658554736103, Bias 0.0709828370
Iteration 1724: Cost 103.61967750399285, Weight 49183898	1.1996581099680415, Bias 0.071005540
Iteration 1725: Cost 103.61967234758647, Weight 70332181	1.1996576652040083, Bias 0.071028243
Iteration 1726: Cost 103.61966719127356, Weight 70916945	1.1996572204440037, Bias 0.071050946
Iteration 1727: Cost 103.61966203505406, Weight 50938377	1.1996567756880276, Bias 0.071073649
Iteration 1728: Cost 103.61965687892797, Weight 396663	1.19965633093608, Bias 0.07109635210
Iteration 1729: Cost 103.61965172289527, Weight 49291987	1.1996558861881605, Bias 0.071119054
Iteration 1730: Cost 103.61964656695602, Weight 67624538	1.1996554414442695, Bias 0.071141756
Iteration 1731: Cost 103.61964141111011, Weight 65394501	1.1996549967044068, Bias 0.071164458
Iteration 1732: Cost 103.61963625535756, Weight 42602063	1.1996545519685722, Bias 0.071187160
Iteration 1733: Cost 103.61963109969851, Weight 924741	1.199654107236766, Bias 0.0712098619
Iteration 1734: Cost 103.61962594413276, Weight 35330728	1.1996536625089878, Bias 0.071232563
Iteration 1735: Cost 103.61962078866044, Weight 50852203	1.1996532177852377, Bias 0.071255264
Iteration 1736: Cost 103.61961563328157, Weight 45812022	1.1996527730655158, Bias 0.071277965
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Iteration 1738: Cost 103.61960532280385, Weight 4047435	1.199651883638156, Bias 0.0713233667
Iteration 1739: Cost 103.61960016770506, Weight 07323402	1.1996514389305182, Bias 0.071346067
Iteration 1740: Cost 103.61959501269968, Weight 20038457	1.1996509942269085, Bias 0.071368767

Iteration 1741: Cost 103.61958985778769, Weight 12192787	1.1996505495273264, Bias 0.071391467
Iteration 1742: Cost 103.61958470296904, Weight 83786578	1.1996501048317723, Bias 0.071414166
Iteration 1743: Cost 103.6195795482439, Weight 820016	1.199649660140246, Bias 0.07143686634
Iteration 1744: Cost 103.61957439361196, Weight 65293288	1.1996492154527476, Bias 0.071459565
Iteration 1745: Cost 103.61956923907351, Weight 75206579	1.1996487707692771, Bias 0.071482264
Iteration 1746: Cost 103.61956408462837, Weight 64560076	1.1996483260898343, Bias 0.071504963
Iteration 1747: Cost 103.61955893027665, Weight 33353965	1.1996478814144191, Bias 0.071527662
Iteration 1748: Cost 103.61955377601831, Weight 81588431	1.1996474367430316, Bias 0.071550360
Iteration 1749: Cost 103.61954862185334, Weight 09263663	1.1996469920756716, Bias 0.071573059
Iteration 1750: Cost 103.61954346778175, Weight 16379846	1.1996465474123392, Bias 0.071595757
Iteration 1751: Cost 103.61953831380346, Weight 02937166	1.1996461027530345, Bias 0.071618455
Iteration 1752: Cost 103.61953315991848, Weight 68935808	1.1996456580977573, Bias 0.071641152
Iteration 1753: Cost 103.61952800612698, Weight 1437596	1.1996452134465077, Bias 0.071663850
Iteration 1754: Cost 103.61952285242884, Weight 39257807	1.1996447687992853, Bias 0.071686547
Iteration 1755: Cost 103.61951769882407, Weight 43581536	1.1996443241560903, Bias 0.071709244
Iteration 1756: Cost 103.61951254531262, Weight 27347333	1.1996438795169229, Bias 0.071731941
Iteration 1757: Cost 103.61950739189447, Weight 90555385	1.1996434348817826, Bias 0.071754637
Iteration 1758: Cost 103.61950223856968, Weight 33205877	1.1996429902506696, Bias 0.071777334
Iteration 1759: Cost 103.61949708533834, Weight 5298995	1.199642545623584, Bias 0.0718000305
Iteration 1760: Cost 103.61949193220038, Weight 56834926	1.1996421010005256, Bias 0.071822726
Iteration 1761: Cost 103.6194867791556, Weight 7813855	1.1996416563814944, Bias 0.0718454223
Iteration 1762: Cost 103.61948162620426, Weight 9823597	1.1996412117664903, Bias 0.071868117
Iteration 1763: Cost 103.61947647334624, Weight 38101456	1.1996407671555134, Bias 0.071890813
Iteration 1764: Cost 103.61947132058162, Weight 574105	1.1996403225485635, Bias 0.071913508
Iteration 1765: Cost 103.6194661679103, Weight 6163288	1.1996398779456408, Bias 0.0719362035
Iteration 1766: Cost 103.61946101533232, Weight 34360006	1.1996394333467448, Bias 0.071958898
Iteration 1767: Cost 103.61945586284773, Weight 200084	1.199638988751876, Bias 0.0719815929
Iteration 1768: Cost 103.61945071045642, Weight 9085977	1.199638544161034, Bias 0.0720042872
Iteration 1769: Cost 103.61944555815852, Weight 5615602	1.199638099574219, Bias 0.0720269814
Iteration 1770: Cost 103.61944040595384, Weight 1589902	1.199637654991431, Bias 0.0720496754
Iteration 1771: Cost 103.61943525384252, Weight 17009062	1.1996372104126696, Bias 0.072072369
Iteration 1772: Cost 103.61943010182456, Weight 1873269	1.199636765837935, Bias 0.0720950627
Iteration 1773: Cost 103.61942494989995, Weight 06182709	1.1996363212672272, Bias 0.072117756

Iteration 1774: Cost 103.61941979806866, Weight 19937569	1.1996358767005462, Bias 0.072140449
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Iteration 1777: Cost 103.61940434313468, Weight 37876528	1.1996345430246629, Bias 0.072208527
Iteration 1778: Cost 103.61939919167665, Weight 69414927	1.1996340984740883, Bias 0.072231219
Iteration 1779: Cost 103.61939404031199, Weight 80399676	1.1996336539275403, Bias 0.072253911
Iteration 1780: Cost 103.61938888904052, Weight 70830961	1.1996332093850188, Bias 0.072276603
Iteration 1781: Cost 103.61938373786249, Weight 4070897	1.1996327648465237, Bias 0.072299295
Iteration 1782: Cost 103.61937858677778, Weight 0033886	1.199632320312055, Bias 0.0723219869
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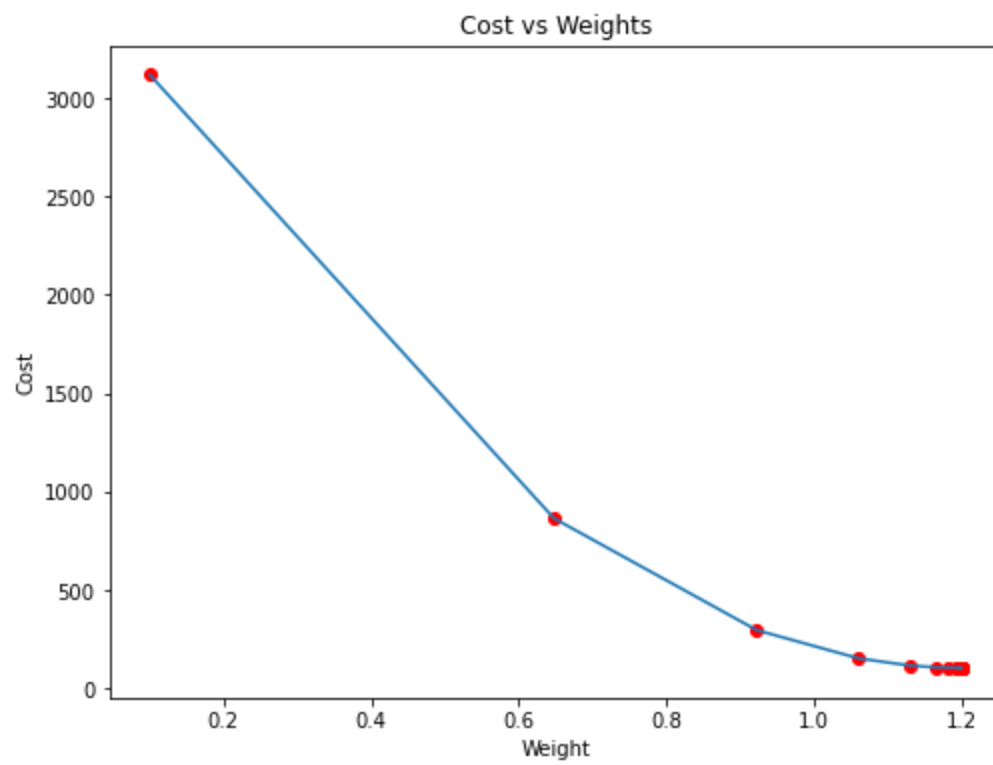
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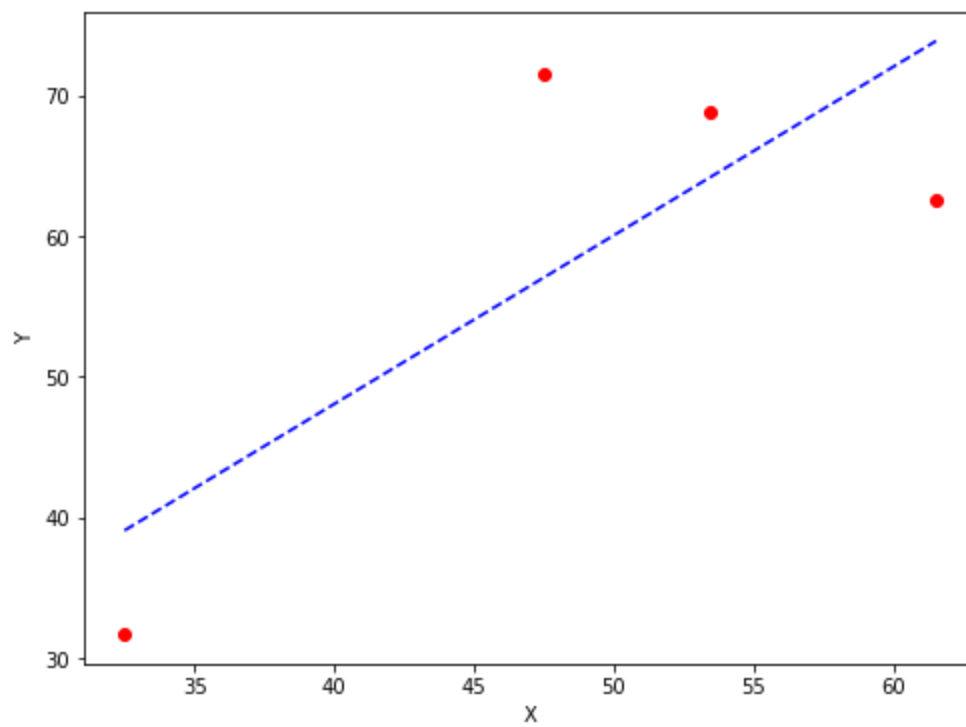
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Iteration 1986: Cost 103.61832971425, Weight 8615	1.199541719420638, Bias 0.0769467565434
Iteration 1987: Cost 103.61832458225882, Weight 9421818	1.1995412757108166, Bias 0.076969405
Iteration 1988: Cost 103.61831945036072, Weight 13572967	1.1995408320050143, Bias 0.076992055
Iteration 1989: Cost 103.61831431855543, Weight 12413161	1.1995403883032307, Bias 0.077014704
Iteration 1990: Cost 103.61830918684326, Weight 073895	1.199539944605466, Bias 0.0770373529
Iteration 1991: Cost 103.61830405522402, Weight 48550518	1.1995395009117202, Bias 0.077060001
Iteration 1992: Cost 103.61829892369772, Weight 85848051	1.1995390572219933, Bias 0.077082649
Iteration 1993: Cost 103.61829379226437, Weight 02631735	1.1995386135362849, Bias 0.077105298
Iteration 1994: Cost 103.61828866092398, Weight 98901758	1.1995381698545953, Bias 0.077127945
Iteration 1995: Cost 103.61828352967649, Weight 74658302	1.1995377261769242, Bias 0.077150593
Iteration 1996: Cost 103.61827839852205, Weight 9901555	1.199537282503272, Bias 0.0771732412
Iteration 1997: Cost 103.61827326746052, Weight 64631703	1.1995368388336383, Bias 0.077195888
Iteration 1998: Cost 103.6182681364919, Weight 884893	1.1995363951680231, Bias 0.0772185357
Iteration 1999: Cost 103.61826300561623, Weight 72553425	1.1995359515064263, Bias 0.077241182
Iteration 2000: Cost 103.61825787483349, Weight 4574537	1.1995355078488483, Bias 0.077263829



Estimated Weight: 1.1995355078488483

Estimated Bias: 0.0772638294574537



In []:

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